

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: ML-22649	6. SURFACE: State
1A. TYPE OF WORK: DRILL <input checked="" type="checkbox"/> REENTER <input type="checkbox"/> DEEPEN <input type="checkbox"/>			7. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A	
B. TYPE OF WELL: OIL <input type="checkbox"/> GAS <input checked="" type="checkbox"/> OTHER _____ SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input checked="" type="checkbox"/>			8. UNIT or CA AGREEMENT NAME: NATURAL BUTTES UNIT	
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE LP			9. WELL NAME and NUMBER: NBU 922-3201T	
3. ADDRESS OF OPERATOR: PO BOX 173779 CITY DENVER STATE CO ZIP 80217-3779			PHONE NUMBER: (720) 929-6666	
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: 900' FSL, 1915' FEL AT PROPOSED PRODUCING ZONE: SAME			10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES	
631446X 39.987731 44273214 -109.460447			11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSE 32 9S 22E S	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: 58.2MILES FROM VERNAL, UTAH			12. COUNTY: UINTAH	13. STATE: UTAH
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET) 900'	16. NUMBER OF ACRES IN LEASE: 640	17. NUMBER OF ACRES ASSIGNED TO THIS WELL: 40		
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET) 20'	19. PROPOSED DEPTH: 9,176	20. BOND DESCRIPTION: RLB0005237		
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): 5033.4	22. APPROXIMATE DATE WORK WILL START:	23. ESTIMATED DURATION: 10 DAYS		

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	J-55	36 LTC	2,350	PREMIUM +2%CaCl	215 SK	1.18	15.60
					20 GAS SODIUM S	100	1018	15.6
7 7/8	4 1/2	1-80	11.6	9,176	PREMIUM LITE II+3%	430	3.38	11.6
					50/50 POZ/G	1470	1.31	14.3

25. **ATTACHMENTS**

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

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

NAME (PLEASE PRINT) RALEEN WHITE TITLE SR. REGULATORY ANALYST

SIGNATURE Raleen White DATE 6/3/2008

(This space for State use only)

API NUMBER ASSIGNED: 43047-40116

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

APPROVAL:

Date: 07-31-08

By: [Signature]

RECEIVED

JUN 05 2008

DIV. OF OIL, GAS & MINING

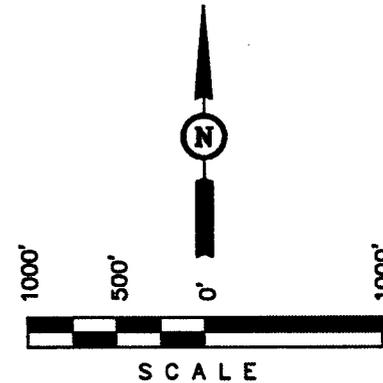
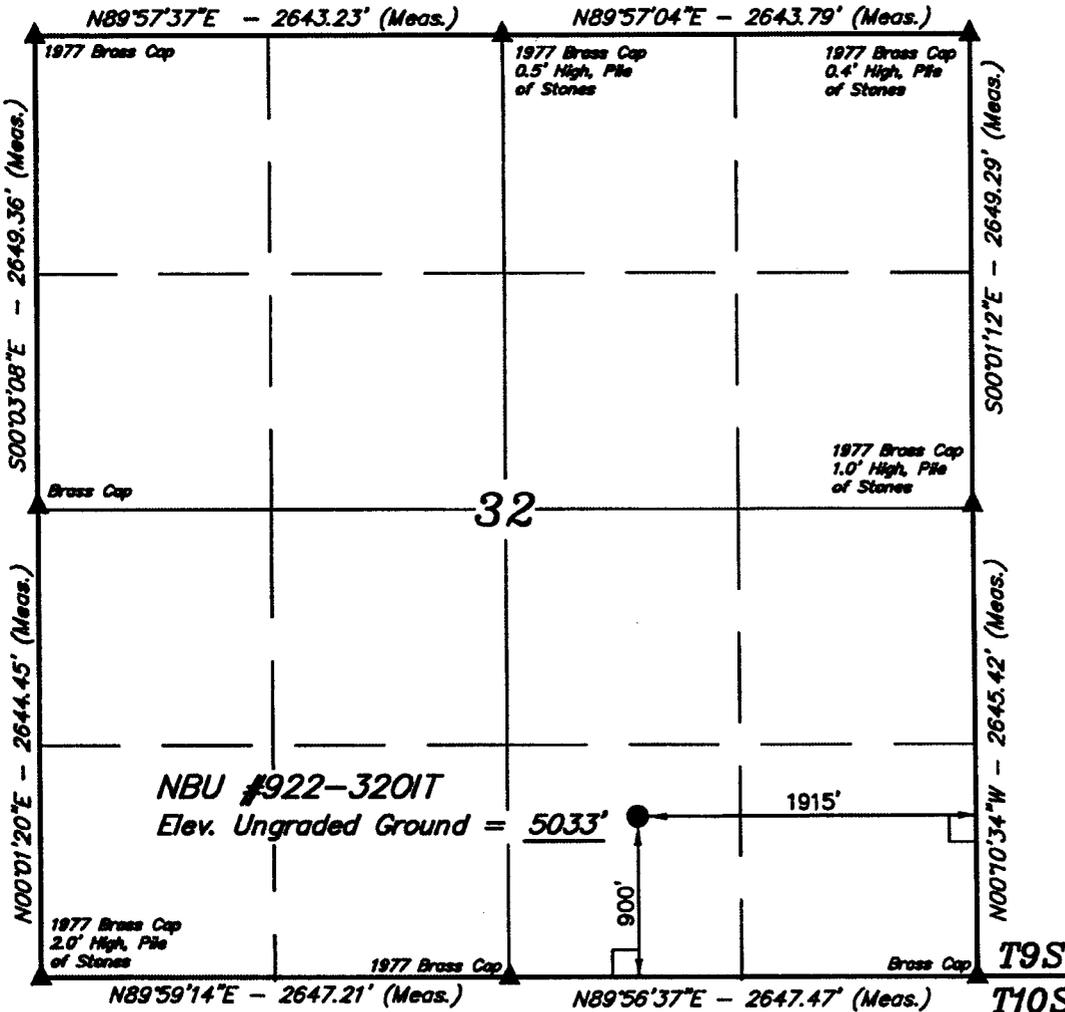
T9S, R22E, S.L.B.&M.

KERR MCGEE OIL & GAS ONSHORE LP

Well location, NBU #922-320IT, located as shown in the SW 1/4 SE 1/4 of Section 32, T9S, R22E, S.L.B.&M., Uintah County, Utah.

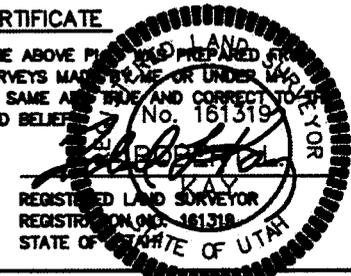
BASIS OF ELEVATION

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



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.



LEGEND:

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

(NAD 83)
 LATITUDE = 39°59'15.81" (39.987725)
 LONGITUDE = 109°27'40.45" (109.461236)
 (NAD 27)
 LATITUDE = 39°59'15.94" (39.987761)
 LONGITUDE = 109°27'37.99" (109.460553)

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

SCALE 1" = 1000'	DATE SURVEYED: 5-15-08	DATE DRAWN: 5-16-08
PARTY D.K. C.K. C.P.	REFERENCES G.L.O. PLAT	
WEATHER COLD	FILE Kerr McGee Oil & Gas Onshore LP	

**NBU 922-3201T
SWSE, SECTION 32, T9S, R22E
UINTAH COUNTY, UTAH
ML-22649**

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. Estimated Tops of Important Geologic Markers:

<u>Formation</u>	<u>Depth</u>
Uinta	0- Surface
Green River	1243'
Birds Nest	1740'
Mahogany	1926'
Wasatch	4444'
Mesaverde	7823'
TD	9176'

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

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
	Green River	1243'
Water	Birds Nest	1740'
Water	Mahogany	1926'
Gas	Wasatch	4444'
Gas	Mesaverde	7823'
Water	N/A	
Other Minerals	N/A	

3. Pressure Control Equipment (Schematic Attached)

Please refer to the attached Drilling Program.

4. Proposed Casing & Cementing Program:

Please refer to the attached Drilling Program.

5. Drilling Fluids Program:

Please refer to the attached Drilling Program.

6. Evaluation Program:

Please refer to the attached Drilling Program.

7. Abnormal Conditions:

Maximum anticipated bottomhole pressure calculated at 9176' TD, approximately equals 5689 psi (calculated at 0.62 psi/foot).

Maximum anticipated surface pressure equals approximately 3670 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at **0.22** psi/foot).

8. **Anticipated Starting Dates:**

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

9. **Variations:**

Please refer to the attached Drilling Program.

10. **Other Information:**

Please refer to the attached Drilling Program.



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

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'				3520	2020	453000
SURFACE	9-5/8"	0 to 2,350'	36.00	J-55	LTC	1.00	1.84	6.11
PRODUCTION	4-1/2"	0 to 9176'	11.60	I-80	LTC	2.21	1.15	201000

- 1) Max Anticipated Surf. Press.(MASP) (Surface Casing) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point)
- 2) MASP (Prod Casing) = Pore Pressure at TD - (.22 psi/ft-partial evac gradient x TD)
- (Burst Assumptions: TD = 11.6 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 3516 psi

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)	250	20 gals sodium silicate + Premium cmt + 2% CaCl + .25 pps flocele	100		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	2000	Prem cmt + 16% Gel + 10 pps gilsonite + .25 pps Flocele + 3% salt BWOC	230	35%	11.60	3.82
	TAIL	500	Premium cmt + 2% CaCl + .25 pps flocele	180	35%	15.60	1.18
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
PRODUCTION	LEAD	3,936'	Premium Lite II + 3% KCl + 0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	430	60%	11.60	3.38
	TAIL	5,240'	50/50 Poz/G + 10% salt + 2% gel + .1% R-3	1470	60%	14.30	1.31

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

FLOAT EQUIPMENT & CENTRALIZERS

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

ADDITIONAL INFORMATION

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

BOPE: 11" 5M with one annular and 2 rams. Test to 5,000 psi (annular to 2,500 psi) prior to drilling out. Record on chart recorder & tour sheet. Function test rams on each trip. Maintain safety valve & inside BOP on rig floor at all times. Kelly to be equipped with upper & lower kelly valves.

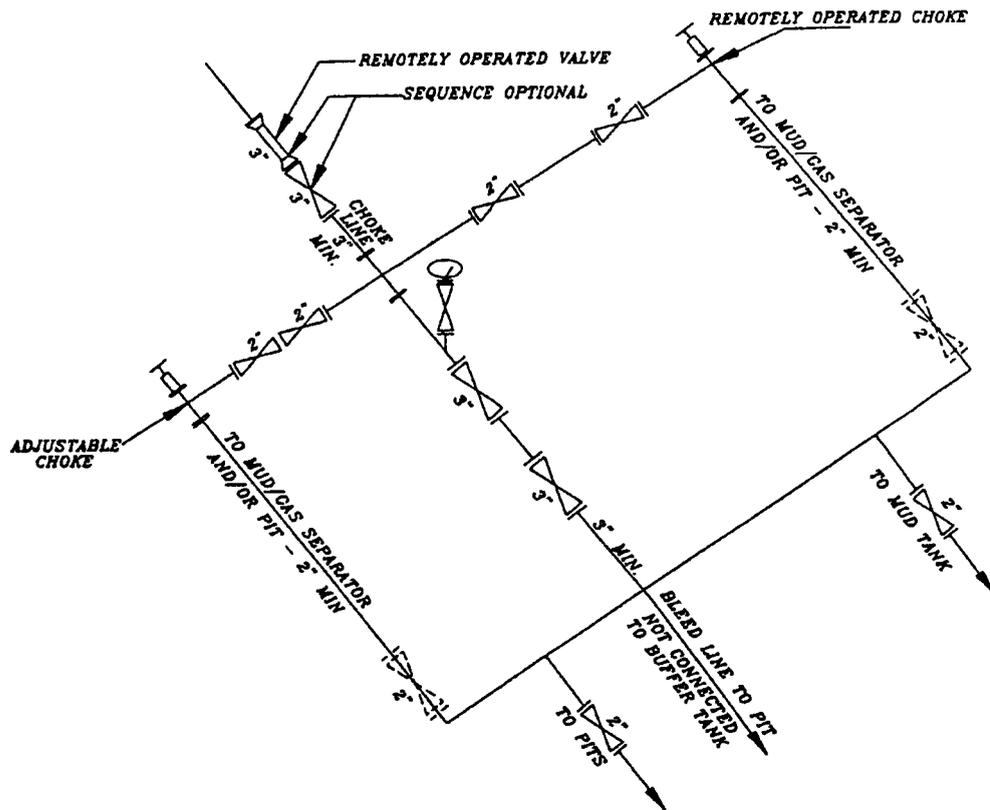
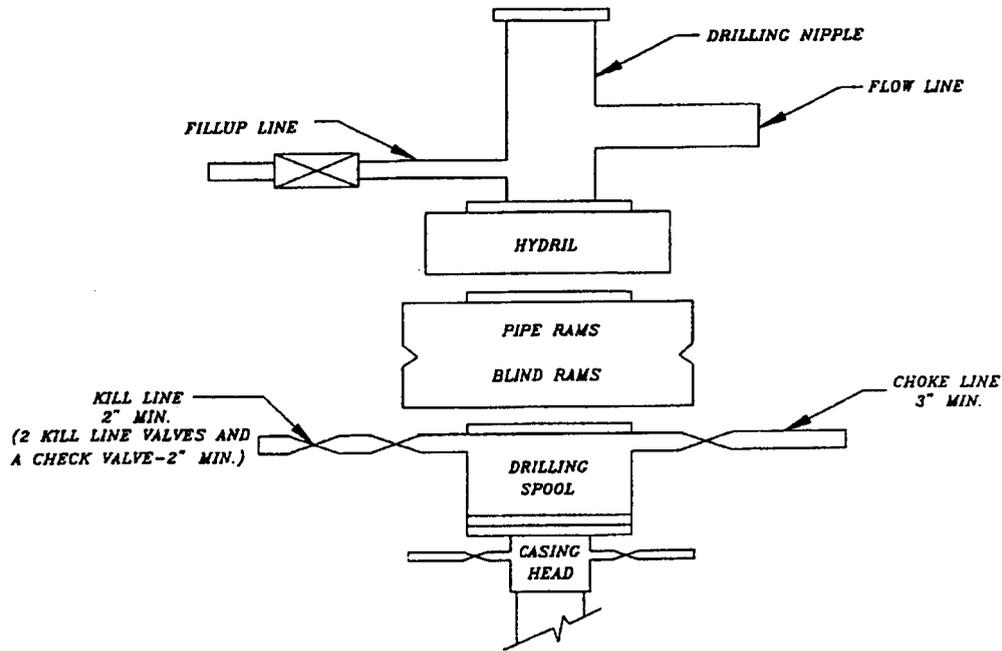
Drop Totco surveys every 2000'. Maximum allowable hole angle is 5 degrees.

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

DRILLING ENGINEER: _____ DATE: _____
Brad Laney

DRILLING SUPERINTENDENT: _____ DATE: _____
Randy Bayne dhd 922-3201T

5M BOP STACK and CHOKE MANIFOLD SYSTEM



**NBU 922-3201T
SWSE SEC 32-T9S-R22E
Uintah County, UT
ML-22649**

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.

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:

No new access road is proposed. Refer to Topo Map B for the location of existing access road.

The upgraded 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.

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.

No new pipeline is proposed for this location.

5. Location and Type of Water Supply:

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

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

No water well is to be drilled on this lease.

6. Source of Construction Materials:

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

Any gravel will be obtained from a commercial source.

7. Methods of Handling Waste Materials:

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

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

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

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

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

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

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

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

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

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

Any produced water from the proposed well will be contained in a water tank and will then be hauled By truck to one of the pre-approved disposal sites: RNI, Sec. 5, T9S, R22E, NBU #159, Sec. 35, T9S, R21E, Ace Oilfield, Sec. 2, T6S, R20E, MC&MC, Sec. 12, T6S, R19E , Pipeline Facility Sec. 36, T9S, R20E, Goat Pasture Evaporation Pond SW/4 Sec. 16, T10S, R22E, Bonanza Evaporation Pond Sec. 2, T10S, R23E

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.

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 and Mineral 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 has been completed and is attached.

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:

Raleen White
Sr. Regulatory Analyst
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6666

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

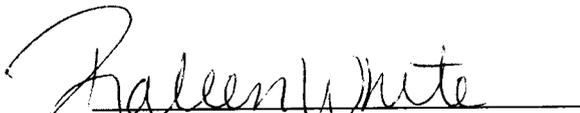
Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

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 #RLB0005236.

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.


Raleen White

Date 6-3-2008

Kerr-McGee Oil & Gas Onshore LP

NBU #922-32OIT

SECTION 32, T9S, R22E, S.L.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF STATE HIGHWAY 88; EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 17.0 MILES TO OURAY, UTAH; PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 6.9 MILES 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 5.0 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST; TURN LEFT AND PROCEED IN A NORTHWESTERLY DIRECTION APPROXIMATELY 0.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; TURN RIGHT AND PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 3.8 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; TURN LEFT AND PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 0.9 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN RIGHT AND PROCEED IN A SOUTHWESTERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 7.2 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTH; TURN LEFT AND PROCEED IN A NORTHERLY DIRECTION APPROXIMATELY 1.4 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; TURN LEFT AND PROCEED IN A NORTHEASTERLY, THEN NORTHWESTERLY DIRECTION APPROXIMATELY 1.7 MILES TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 58.2 MILES.

Kerr-McGee Oil & Gas Onshore LP

NBU #922-320IT

LOCATED IN UINTAH COUNTY, UTAH
SECTION 32, T9S, R22E, S.L.B.&M.



PHOTO: VIEW FROM PIT "D" TO LOCATION STAKE

CAMERA ANGLE: NORTHERLY



PHOTO: VIEW OF EXISTING ACCESS

CAMERA ANGLE: SOUTHEASTERLY



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

LOCATION PHOTOS

05 19 08
MONTH DAY YEAR

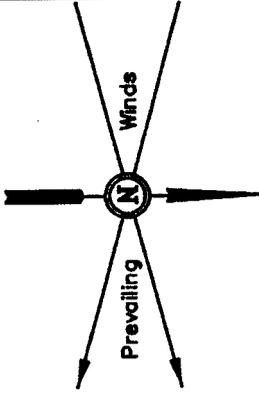
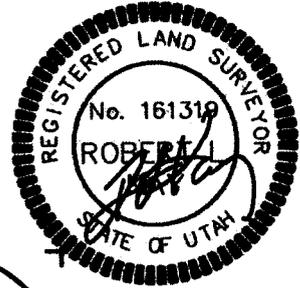
PHOTO

TAKEN BY: D.K. DRAWN BY: C.P. REVISED: 00-00-00

EL PASO PRODUCTION OIL & GAS COMPANY

FIGURE #1

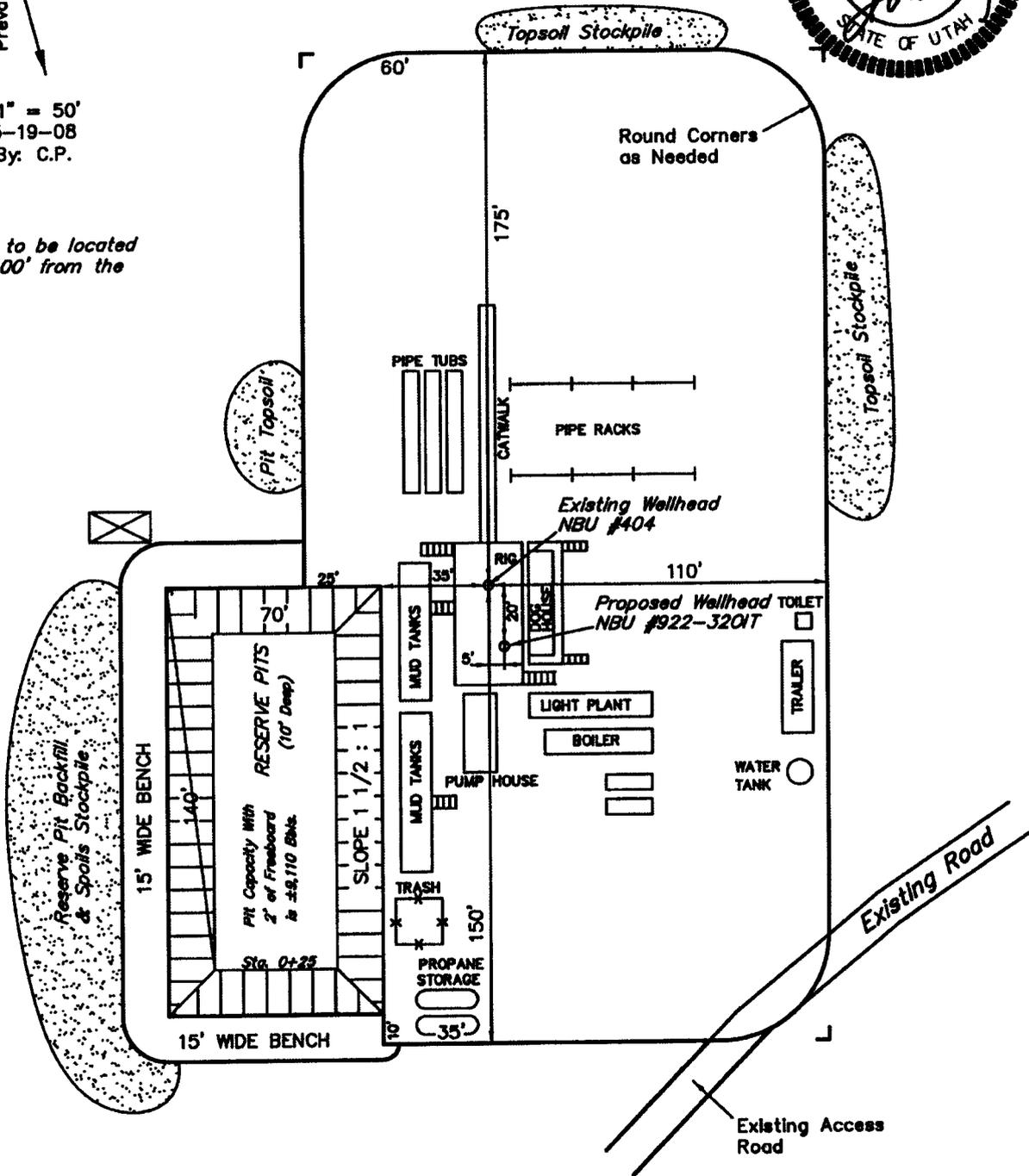
LOCATION LAYOUT FOR
NBU #922-320IT
 SECTION 32, T9S, R22E, S.L.B.&M.
 900' FSL 1915' FEL



SCALE: 1" = 50'
 DATE: 5-19-08
 Drawn By: C.P.

NOTE:

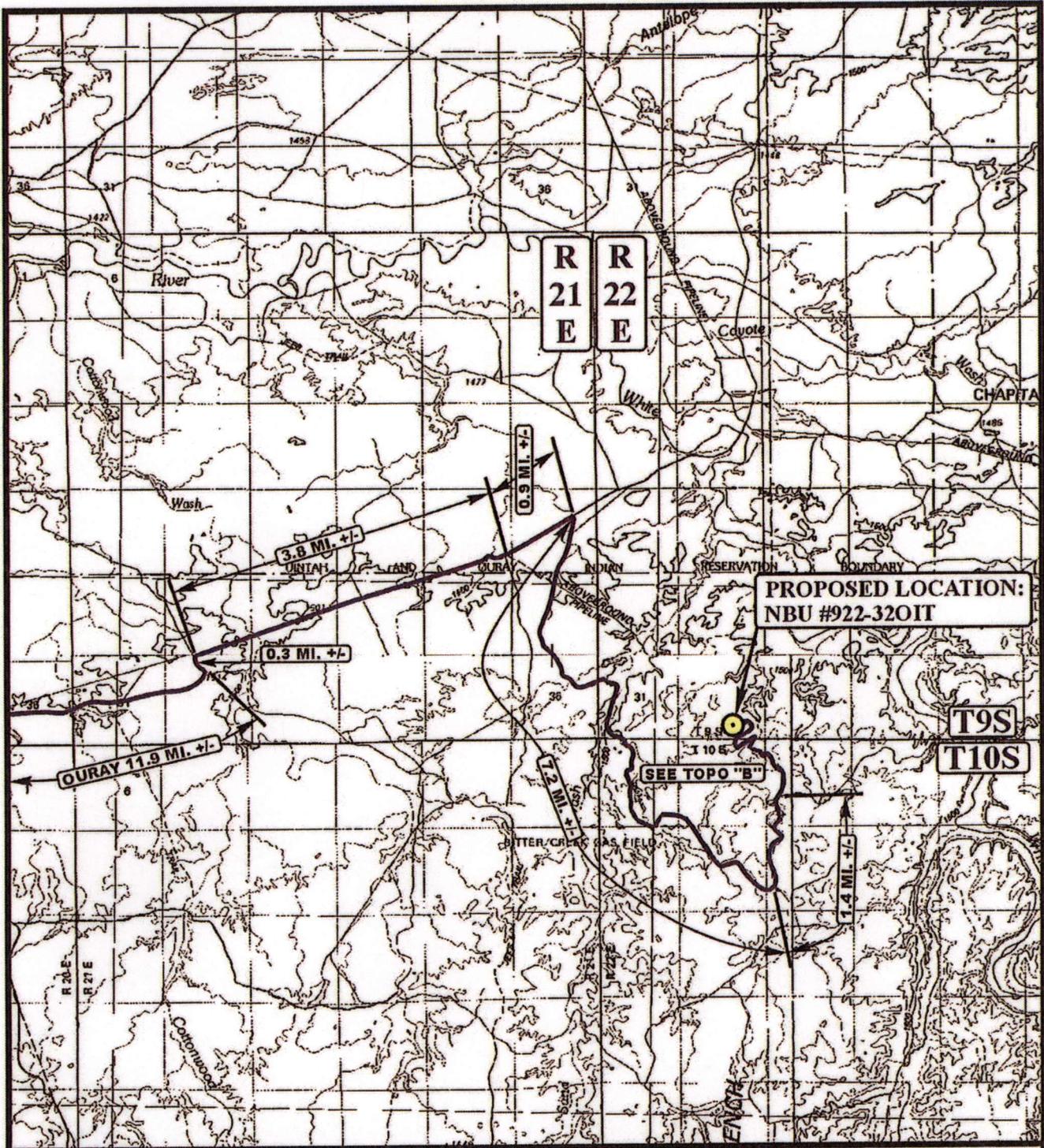
Flare Pit is to be located a min. of 100' from the Well Head.



NOTES:

FINISHED GRADE ELEV. AT LOC. STAKE = 5033.4'

UINTAH ENGINEERING & LAND SURVEYING
 88 So. 200 East • Yernal, Utah 84078 • (435) 788-1077



**PROPOSED LOCATION:
NBU #922-320IT**

**T9S
T10S**

**R
21
E**

**R
22
E**

SEE TOPO "B"

LEGEND:

● PROPOSED LOCATION

Kerr-McGee Oil & Gas Onshore LP

**NBU #922-320IT
SECTION 32, T9S, R22E, S.L.B.&M.
900' FSL 1915' FEL**

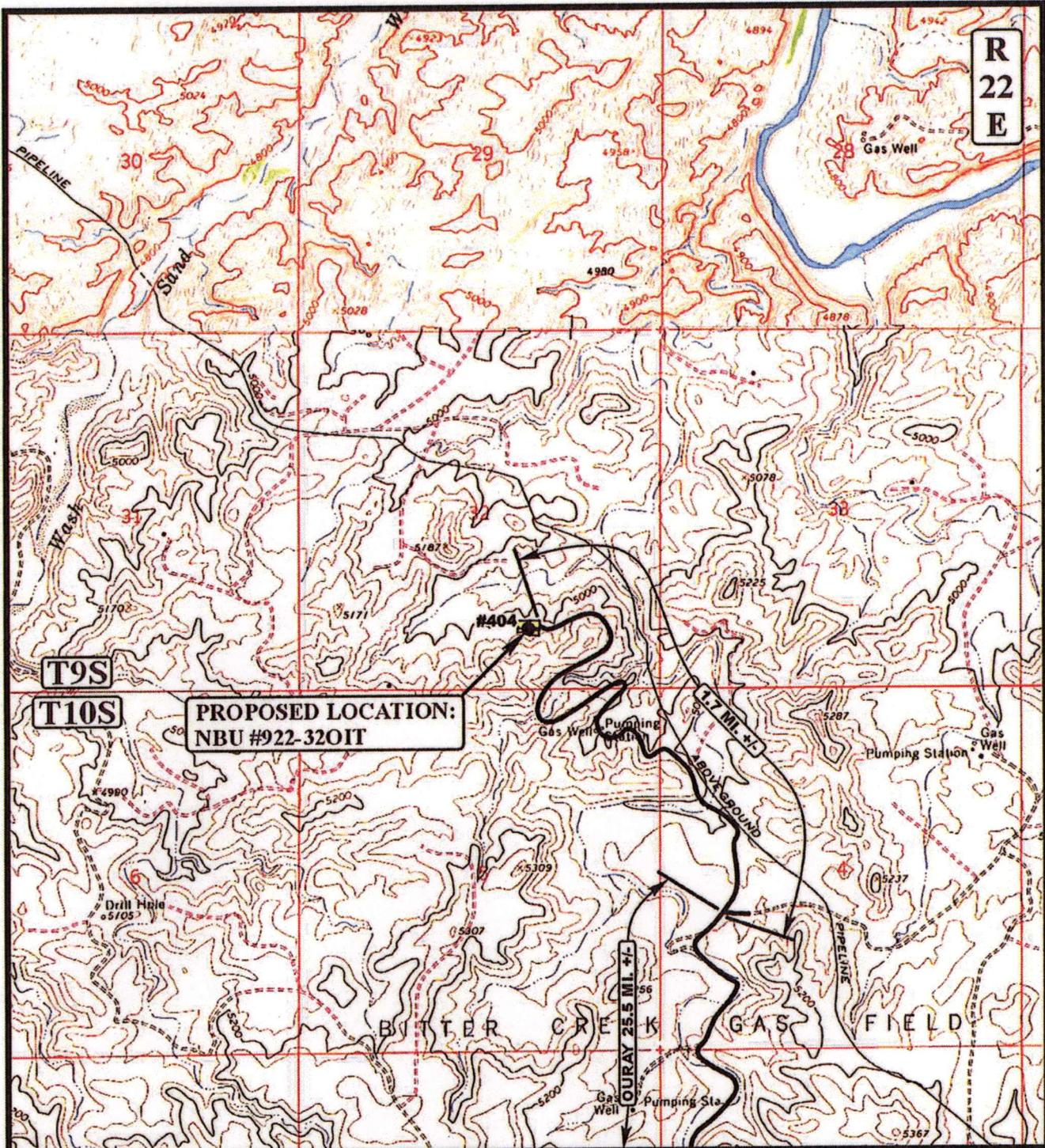


Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813



TOPOGRAPHIC MAP
05 19 08
MONTH DAY YEAR
SCALE: 1:100,000 DRAWN BY: C.P. REVISED: 00-00-00





**R
22
E**

T9S

T10S

**PROPOSED LOCATION:
NBU #922-320IT**

BUTTER CREEK GAS FIELD

LEGEND:

— EXISTING ROAD



Kerr-McGee Oil & Gas Onshore LP

**NBU #922-320IT
SECTION 32, T9S, R22E, S.L.B.&M.
900' FSL 1915' FEL**



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

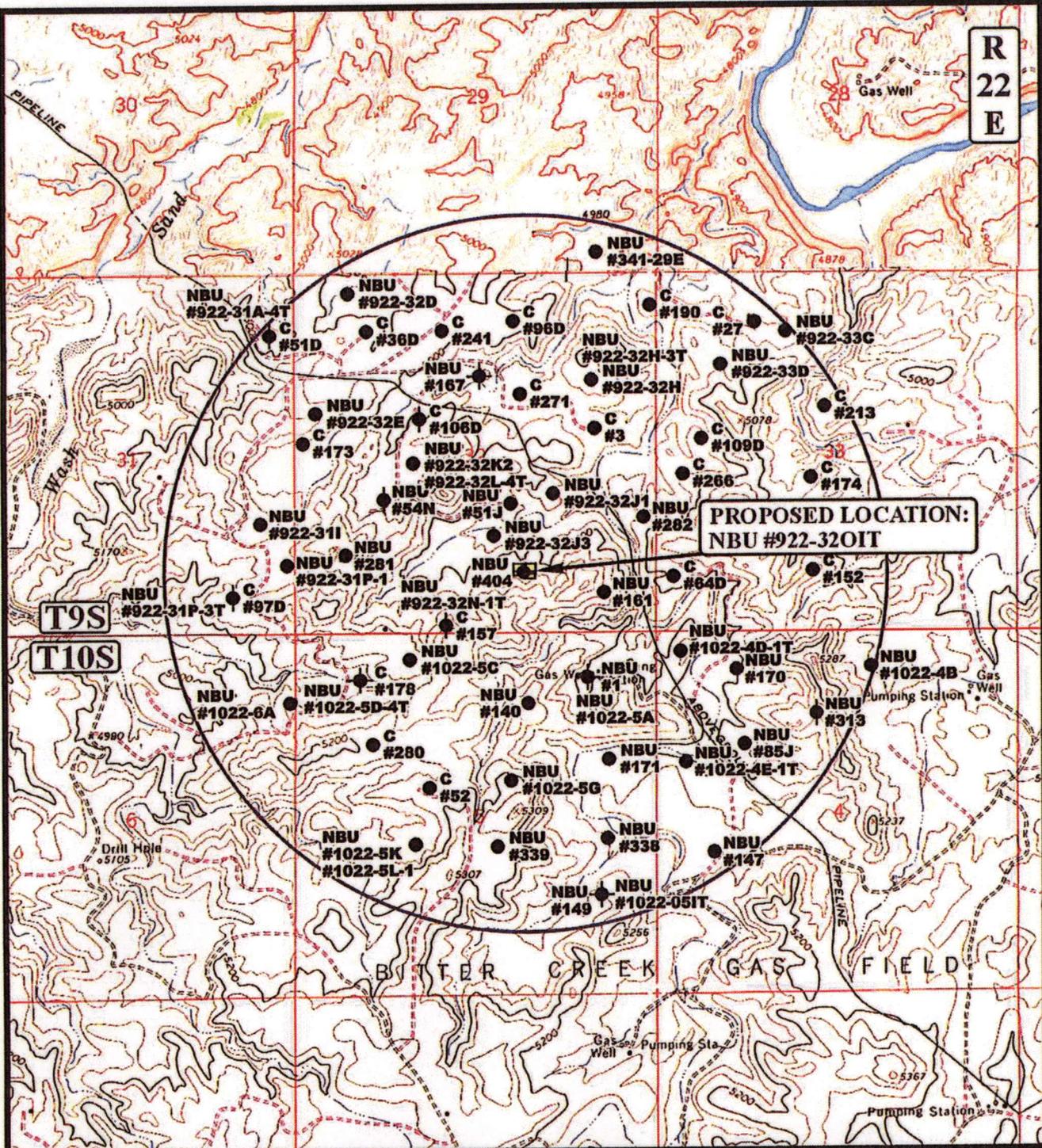
**TOPOGRAPHIC
MAP**

**05 19 08
MONTH DAY YEAR**

**B
TOPO**

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

R
22
E



PROPOSED LOCATION:
NBU #922-32OIT

T9S
T10S

BUTTER CREEK GAS FIELD

LEGEND:

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

Kerr-McGee Oil & Gas Onshore LP

NBU #922-32OIT
SECTION 32, T9S, R22E, S.L.B.&M.
900' FSL 1915' FEL



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



TOPOGRAPHIC MAP
SCALE: 1" = 2000'
DRAWN BY: C.P.
REVISIED: 00-00-00

05 1908
MONTH DAY YEAR



**WORKSHEET
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 06/05/2008

API NO. ASSIGNED: 43-047-40116

WELL NAME: NBU 922-3201T
 OPERATOR: KERR-MCGEE OIL & GAS (N2995)
 CONTACT: RALEEN WHITE

PHONE NUMBER: 720-929-6666

PROPOSED LOCATION:

SWSE 32 090S 220E
 SURFACE: 0900 FSL 1915 FEL
 BOTTOM: 0900 FSL 1915 FEL
 COUNTY: UINTAH
 LATITUDE: 39.98773 LONGITUDE: -109.4605
 UTM SURF EASTINGS: 631446 NORTHINGS: 4427321
 FIELD NAME: NATURAL BUTTES (630)

INSPECT LOCATN BY: / /		
Tech Review	Initials	Date
Engineering	DKD	7/16/08
Geology		
Surface		

LEASE TYPE: 3 - State
 LEASE NUMBER: ML-22649
 SURFACE OWNER: 3 - State

PROPOSED FORMATION: WSMVD
 COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

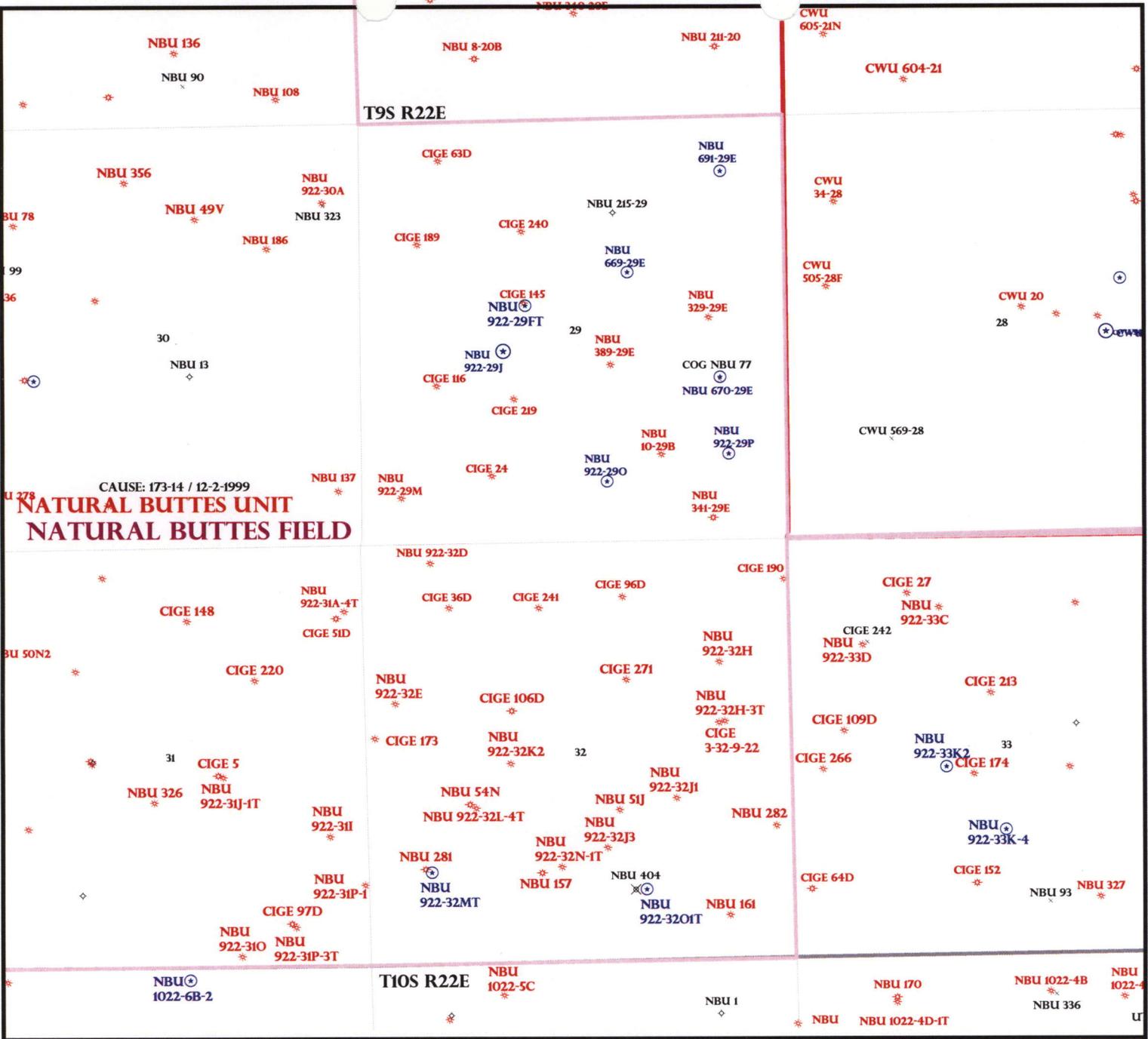
- Plat
- Bond: Fed[] Ind[] Sta[] Fee[]
(No. 22013542)
- Potash (Y/N)
- Oil Shale 190-5 (B) or 190-3 or 190-13
- Water Permit
(No. 43-8496)
- RDCC Review (Y/N)
(Date: _____)
- Fee Surf Agreement (Y/N)
- Intent to Commingle (Y/N)

LOCATION AND SITING:

- R649-2-3.
- Unit: NATURAL BUTTES
- R649-3-2. General
Siting: 460 From Qtr/Qtr & 920' Between Wells
- R649-3-3. Exception
- Drilling Unit
Board Cause No: 17314
Eff Date: 12-2-1999
Siting: Well for u bdr of uncomm. tract
- R649-3-11. Directional Drill

COMMENTS: Needs Permit (06-18-08)

STIPULATIONS: 1- STATEMENT OF BASIS
2- OIL SHALE
3- Surface Csg Cont Step



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

OPERATOR: KERR MCGEE O&G INC (N2995)

SEC: 29,32 T.9S R. 22E

FIELD: NATURAL BUTTES (630)

COUNTY: UINTAH

CAUSE: 173-14 / 12-2-1999

Field Status

ABANDONED
ACTIVE
COMBINED
INACTIVE
PROPOSED
STORAGE
TERMINATED

Unit Status

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

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



PREPARED BY: DIANA MASON
 DATE: 09-JUNE-2008

Application for Permit to Drill

Statement of Basis

7/3/2008

Utah Division of Oil, Gas and Mining

Page 1

APD No	API WellNo	Status	Well Type	Surf Ownr	CBM
806	43-047-40116-00-00		GW	S	No
Operator	KERR-MCGEE OIL & GAS ONSHORE, L.P.		Surface Owner-APD		
Well Name	NBU 922-32O1T		Unit NATURAL BUTTES		
Field	NATURAL BUTTES		Type of Work		
Location	SWSE 32 9S 22E S 900 FSL 1915 FEL		GPS Coord (UTM) 631446E 4427321N		

Geologic Statement of Basis

Kerr McGee proposes to set 2,350' of surface casing at this location. The depth to the base of the moderately saline water at this location is estimated to be at a depth of 3,500'. A search of Division of Water Rights records shows no water wells within a 10,000 foot radius of the proposed location. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. The production casing cement should be brought up above the base of the moderately saline ground water in order to isolate it from fresher waters up hole. The proposed casing and cement should adequately protect. Any usable ground water.

Brad Hill
APD Evaluator

7/3/2008
Date / Time

Surface Statement of Basis

The proposed NBU 922-32OIT gas well is on the existing location of the NBU 404 gas well. This well is planned to be plugged. A reserve pit 70' x 140' x 10' deep will be re-dug in the southeast corner of the location. The existing pad appears to be stable and should present no problems for drilling and operating the proposed well.

Floyd Bartlett
Onsite Evaluator

6/18/2008
Date / Time

Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 16 mils with a felt subliner shall be properly installed and maintained in the reserve pit.
Surface	The reserve pit shall be fenced upon completion of drilling operations.

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator KERR-MCGEE OIL & GAS ONSHORE, L.P.
Well Name NBU 922-32O1T
API Number 43-047-40116-0 **APD No** 806 **Field/Unit** NATURAL BUTTES
Location: 1/4,1/4 SWSE **Sec** 32 **Tw** 9S **Rng** 22E 900 FSL 1915 FEL
GPS Coord (UTM) 631436 4427324 **Surface Owner**

Participants

Floyd Bartlett and David Hackford (DOGM), Jim Davis (SITLA), Raleen White, Clay Einerson and Tony Kzneck (Kerr McGee) and David Kay (Uintah Engineering and Land Surveying).

Regional/Local Setting & Topography

The proposed NBU 922-32OIT gas well is on the existing location of the NBU 404 gas well. This well is planned to be plugged. A reserve pit 70' x 140' x 10' deep will be re-dug in the southeast corner of the location. The existing pad appears to be stable and should present no problems for drilling and operating the proposed well.

Surface Use Plan

Current Surface Use

New Road

Miles	Well Pad		Src Const Material	Surface Formation
0	Width	Length		

Ancillary Facilities

Waste Management Plan Adequate?

Environmental Parameters

Affected Floodplains and/or Wetland

Flora / Fauna

Soil Type and Characteristics

Erosion Issues

Sedimentation Issues

Site Stability Issues

Drainage Diversion Required

Berm Required?

Erosion Sedimentation Control Required?

Paleo Survey Run?

Paleo Potential Observed?

Cultural Survey Run?

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 to 1320	10
Native Soil Type	Mod permeability	10
Fluid Type	Fresh Water	5
Drill Cuttings	Normal Rock	0
Annual Precipitation (inches)	<10	0
Affected Populations	<10	0
Presence Nearby Utility Conduits	Not Present	0
Final Score		25
		1 Sensitivity Level

Characteristics / Requirements

A reserve pit 70' x 140' x 10' deep will be re-dug in the southeast corner of the location.

Closed Loop Mud Required? N **Liner Required?** Y **Liner Thickness** 16 **Pit Underlayment Required?** Y

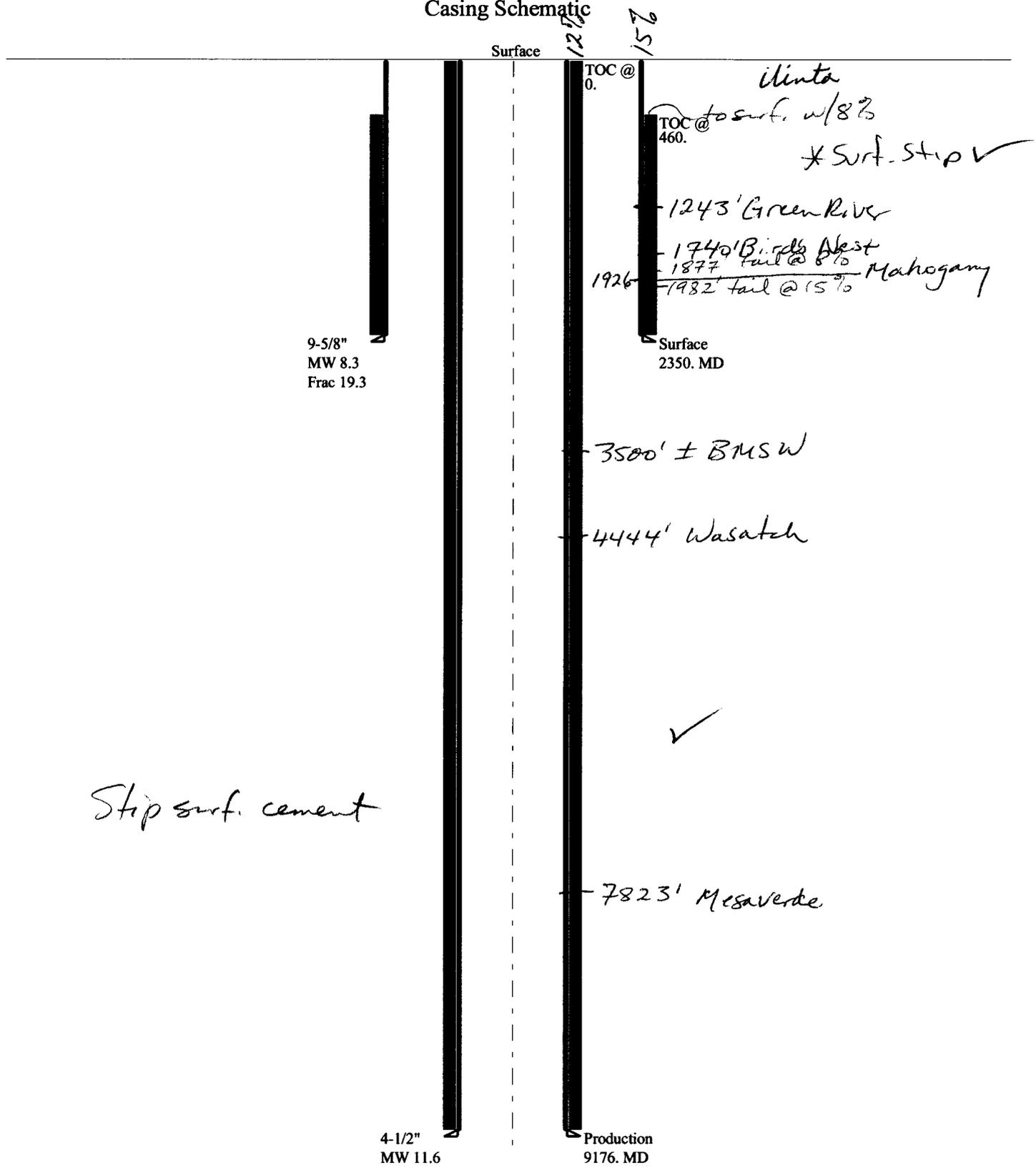
Other Observations / Comments

Floyd Bartlett
Evaluator

6/18/2008
Date / Time

2008-07 Kerr McGee NBU 92Z-3201T

Casing Schematic



Stip surf. cement

Well name:

2008-07 Kerr McGee NBU 922-3201T

Operator: **Kerr McGee Oil & Gas Onshore L.P.**

String type: **Surface**

Project ID:

43-047-40116

Location: **Uintah County, Utah**

Design parameters:

Collapse

Mud weight: 8.330 ppg
Design is based on evacuated pipe.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 75 °F
Bottom hole temperature: 108 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,300 ft

Cement top: 460 ft

Burst

Max anticipated surface pressure: 2,068 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 2,350 psi

No backup mud specified.

Tension:

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

Tension is based on buoyed weight.

Neutral point: 2,060 ft

Non-directional string.

Re subsequent strings:

Next setting depth: 9,176 ft
Next mud weight: 11.600 ppg
Next setting BHP: 5,529 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 2,350 ft
Injection pressure: 2,350 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	2350	9.625	36.00	J-55	LT&C	2350	2350	8.796	1020.1

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	1017	2020	1.986	2350	3520	1.50	74	453	6.11 J

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

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

Date: July 8, 2008
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 2350 ft, a mud weight of 8.33 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:

2008-07 Kerr McGee NBU 922-3201T

Operator: **Kerr McGee Oil & Gas Onshore L.P.**

String type: Production

Project ID:
43-047-40116

Location: Uintah County, Utah

Design parameters:

Collapse

Mud weight: 11.600 ppg
Internal fluid density: 2.300 ppg

Minimum design factors:

Collapse:

Design factor 1.125

Environment:

H2S considered? No
Surface temperature: 75 °F
Bottom hole temperature: 203 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,500 ft

Burst:

Design factor 1.00

Cement top: Surface

Burst

Max anticipated surface pressure: 3,511 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 5,529 psi

No backup mud specified.

Tension:

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

Non-directional string.

Tension is based on buoyed weight.
Neutral point: 7,585 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	9176	4.5	11.60	I-80	LT&C	9176	9176	3.875	800.8
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	4433	6360	1.435	5529	7780	1.41	88	212	2.41 J

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

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

Date: July 8, 2008
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 9176 ft, a mud weight of 11.6 ppg. An internal gradient of .119 psi/ft was used for collapse from TD. 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.

BOPE REVIEW

Kerr-McGee NBU 922-3201T API 43-047-40116

INPUT

Well Name

Kerr-McGee NBU 922-3201T		API 43-047-40116	
String 1	String 2		
Casing Size (")	9 5/8	4 1/2	
Setting Depth (TVD)	2350	9176	
Previous Shoe Setting Depth (TVD)	40	2350	
Max Mud Weight (ppg)	8.4	11.6	
BOPE Proposed (psi)	500	5000	
Casing Internal Yield (psi)	3520	7780	
Operators Max Anticipated Pressure (psi)	5689	11.9 ppg	

Calculations

String 1 9 5/8 "

Max BHP [psi]	$.052 * \text{Setting Depth} * \text{MW} =$	1026	
BOPE Adequate For Drilling And Setting Casing at Depth?			
MASP (Gas) [psi]	$\text{Max BHP} - (0.12 * \text{Setting Depth}) =$	744	NO Air Drill to surface shoe with diverter
MASP (Gas/Mud) [psi]	$\text{Max BHP} - (0.22 * \text{Setting Depth}) =$	509	NO
*Can Full Expected Pressure Be Held At Previous Shoe?			
Pressure At Previous Shoe	$\text{Max BHP} - .22 * (\text{Setting Depth} - \text{Previous Shoe Depth}) =$	518	NO ← common set depth in well - no pressures
Required Casing/BOPE Test Pressure		2350 psi	
*Max Pressure Allowed @ Previous Casing Shoe =		40 psi	*Assumes 1psi/ft frac gradient

Calculations

String 2 4 1/2 "

Max BHP [psi]	$.052 * \text{Setting Depth} * \text{MW} =$	5535	
BOPE Adequate For Drilling And Setting Casing at Depth?			
MASP (Gas) [psi]	$\text{Max BHP} - (0.12 * \text{Setting Depth}) =$	4434	YES ✓
MASP (Gas/Mud) [psi]	$\text{Max BHP} - (0.22 * \text{Setting Depth}) =$	3516	YES
*Can Full Expected Pressure Be Held At Previous Shoe?			
Pressure At Previous Shoe	$\text{Max BHP} - .22 * (\text{Setting Depth} - \text{Previous Shoe Depth}) =$	4033	NO Reasonable
Required Casing/BOPE Test Pressure		5000 psi	
*Max Pressure Allowed @ Previous Casing Shoe =		2350 psi	*Assumes 1psi/ft frac gradient

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)

June 9, 2008

Memorandum

To: Assistant District Manager Minerals, Vernal District
From: Michael Coulthard, Petroleum Engineer
Subject: 2008 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 2008 within the Natural Buttes Unit, Uintah County, Utah.

API #	WELL NAME	LOCATION
(Proposed PZ Wasatch/MesaVerde)		
43-047-40110	NBU 921-26N2AS Sec 26	T09S R21E 0463 FSL 1302 FWL
	BHL Sec 26	T09S R21E 1160 FSL 1940 FWL
43-047-40111	NBU 921-26M4AS Sec 26	T09S R21E 0458 FSL 1282 FWL
	BHL Sec 26	T09S R21E 0425 FSL 1165 FWL
43-047-40112	NBU 921-26N2DS Sec 26	T09S R21E 0468 FSL 1321 FWL
	BHL Sec 26	T09S R21E 0830 FSL 1875 FWL
43-047-40113	NBU 921-26M2AS Sec 26	T09S R21E 0454 FSL 1263 FWL
	BHL Sec 26	T09S R21E 1095 FSL 0475 FWL
43-047-40114	NBU 921-35AT	Sec 35 T09S R21E 0504 FNL 0524 FEL
43-047-40120	NBU 920-15FT	Sec 15 T09S R20E 1964 FNL 1991 FWL
43-047-40119	NBU 922-29J	Sec 29 T09S R22E 2383 FSL 1736 FEL
43-047-40115	NBU 922-29FT	Sec 29 T09S R22E 2323 FNL 2022 FWL
43-047-40116	NBU 922-32O1T	Sec 32 T09S R22E 0900 FSL 1915 FEL
43-047-40117	NBU 922-32MT	Sec 32 T09S R22E 1153 FSL 0717 FWL
43-047-40118	NBU 922-36NT	Sec 36 T09S R22E 1118 FSL 2308 FWL

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

/s/ Michael L. Coulthard

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

MCoulthard:mc:6-9-08

From: Jim Davis
To: Mason, Diana
Date: 7/30/2008 4:03 PM
Subject: SITLA APD approval 7/30/08

CC: Bonner, Ed; Garrison, LaVonne

The following wells have been approved by SITLA including arch and paleo clearance.

Operator	Well Name	API #
Kerr McGEE	NBU 921-26M2AS	4304740113
Kerr McGEE	NBU 922-3201T	4304740116
Kerr McGEE	NBU 922-29J	4304740119
ConocoPhillips	Utah 17-1174	4300731418
EOG Res	NBU 672-25E	4304750028
XTO Energy	St of Ut 16-8-32-23D	4301530741
XTO Energy	St of Ut 16-8-31-43D	4301530742
Gasco Prod	Gate Cyn St 12-21-11-15	4301333858
Gasco Prod	State 42-32-9-19	4304739795
National Fuel	NFC Lindisfarne St 43-35	4304739852
EOG Resources	NBU 642-13E	4304750013
EOG Resources	NBU 640-13E	4304750014
EOG Resources	NBU 663-24E	4304750010
EOG Resources	NBU 661-24E	4304750011
Kerr McGEE	NBU 921-34MT	4304739402
Kerr McGEE	NBU 1022-25H	4304739033
Kerr McGEE	State 1022-25I	4304739034
Westport O&G	State 921-32N	4304737957
Westport O&G	State 921-32O	4304737958
EOG Resources	NBU 638-13E	4304750016

-Jim Davis



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

July 31, 2008

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

Re: NBU 922-3201T Well, 900' FSL, 1915' FEL, SW SE, Sec. 32, T. 9 South, R. 22 East, Uintah County, Utah

Gentlemen:

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

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-40116.

Sincerely,

Gil Hunt
Associate Director

pab
Enclosures

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

Operator: Kerr-McGee Oil & Gas Onshore LP
Well Name & Number NBU 922-32O1T
API Number: 43-047-40116
Lease: ML-22649

Location: SW SE **Sec.** 32 **T.** 9 South **R.** 22 East

Conditions of Approval

1. General

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

2. Notification Requirements

The operator is required to notify the Division of Oil, Gas and Mining of the following 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) 942-0871 home
- Carol Daniels at: (801) 538-5284 office
- Dustin Doucet at: (801) 538-5281 office (801) 733-0983 home

3. Reporting Requirements

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

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

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

FORM 6

ENTITY ACTION FORM

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

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304740116	NBU 922-3201T		SWSE	32	9S,	22E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
<i>B</i>	99999	<i>2900</i>	9/22/2008		<i>9/30/08</i>		
Comments: MIRU PETE MARTIN BUCKET RIG. <i>WSMVD</i> SPUD WELL LOCATION ON 09/22/2008 AT 9:00 AM.							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304739751	BITTER CREEK 1122-3L		NWSW	3	11S	22E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
<i>A</i>	99999	<i>17109</i>	9/24/2008		<i>9/30/08</i>		
Comments: MIRU PETE MARTIN BUCKET RIG. <i>WSMVD</i> SPUD WELL LOCATION ON 09/24/2008 AT 8:00 AM.							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304738981	BITTER CREEK 1122-3K		NESW	3	11S	22E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
<i>A</i>	99999	<i>17110</i>	9/23/2008		<i>9/30/08</i>		
Comments: MIRU PETE MARTIN BUCKET RIG. <i>WSMVD</i> SPUD WELL LOCATION ON 09/23/2008 AT 8:00 PM							

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

REGULATORY ANALYST

Title

9/25/2008

Date

RECEIVED

SEP 25 2008

DIV. OF OIL, GAS & MINING

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

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

		5. LEASE DESIGNATION AND SERIAL NUMBER: ML-22649
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
		7. UNIT or CA AGREEMENT NAME: UNIT #891008900A
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		8. WELL NAME and NUMBER: NBU 922-3201T
2. NAME OF OPERATOR: KERR McGEE OIL & GAS ONSHORE LP		9. API NUMBER: 4304740116
3. ADDRESS OF OPERATOR: 1368 SOUTH 1200 EAST CITY VERNAL STATE UT ZIP 84078		10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 900'FSL, 1915'FEL		COUNTY: UINTAH
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSE 32 9S, 22E		STATE: UTAH

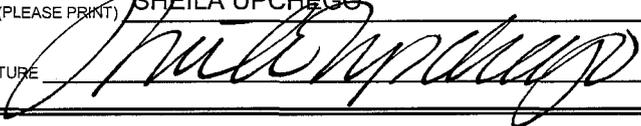
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

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

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

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

SPUD WELL LOCATION ON 09/22/2008 AT 9:00 AM

NAME (PLEASE PRINT) <u>SHEILA UPCHEGO</u>	TITLE <u>REGULATORY ANALYST</u>
SIGNATURE 	DATE <u>9/25/2008</u>

(This space for State use only)

RECEIVED
OCT 06 2008

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: ML-22649
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		7. UNIT or CA AGREEMENT NAME: UNIT #891008900A
2. NAME OF OPERATOR: KERR MCGEE OIL & GAS ONSHORE LP		8. WELL NAME and NUMBER: NBU 922-3201T
3. ADDRESS OF OPERATOR: 1368 SOUTH 1200 EAST CITY VERNAL STATE UT ZIP 84078	PHONE NUMBER: (435) 781-7024	9. API NUMBER: 4304740116
4. LOCATION OF WELL FOOTAGES AT SURFACE: 900'FSL, 1915'FEL		10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSE 32 9S, 22E		COUNTY: UINTAH STATE: UTAH

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

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

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

MIRU PROPETRO AIR RIG ON 09/24/2008. DRILLED 12 1/4" SURFACE HOLE TO 2400'. RAN 9 5/8" 36# J-55 SURFACE CSG. CMT W/350 SX PREM CLASS G @15.8 PPG 1.15 YIELD. NO RETURNS TO PIT 50 +/- PSI LIFT. TOP OUT W/100 SX PREM CLASS G @15.8 PPG 1.15 YIELD. DOWN BACKSIDE WOC. 2ND TOP OUT W/125 SX PREM CLASS G @15.8 PPG 1.15 YIELD. DOWN BACKSIDE. 3RD TOP OUT W/125 SX PREM CLASS G @15.8 PPG 1.15 YIELD. DOWN BACKSIDE GOOD CMT TO SURFACE HOLE STAYED FULL.

WORT.

NAME (PLEASE PRINT) SHEILA UPCHEGO	TITLE REGULATORY ANALYST
SIGNATURE	DATE 9/29/2008

(This space for State use only)

RECEIVED
OCT 06 2008
DIV. OF OIL, GAS & MINING

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: ML-22649
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 922-3201T
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047401160000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6007 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0900 FSL 1915 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 32 Township: 09.0S Range: 22.0E Meridian: S	9. FIELD and POOL or WILDCAT: NATURAL BUTTES COUNTY: UINTAH STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 7/22/2009	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input checked="" type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: _____

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

Kerr-McGee Oil & Gas Onshore, LP (Kerr-McGee) respectfully requests to change the bottom hole location (BHL) and the name for this well. The name will change from the NBU 922-3201T to the NBU 922-32P3CS. Details about the BHL change, including revisions to the drilling plan and information, survey plats, etc., are attached. Please contact the undersigned with any questions you may have. Thank you.

Approved by the Utah Division of Oil, Gas and Mining

Date: July 23, 2009

By:

NAME (PLEASE PRINT) Kathy Schneebeck-Dulnoan	PHONE NUMBER 720 929-6007	TITLE Staff Regulatory Analyst
SIGNATURE N/A	DATE 7/15/2009	



Kerr-McGee Oil & Gas Onshore LP

1099 18th Street, Suite 1800
Denver, CO 80202-1918
P.O. Box 173779
Denver, CO 80217-3779
720-929-6000

March 23, 2009

Ms. Diana Mason
Division of Oil, Gas and Mining
P.O. Box 145801
Salt Lake City, UT 84114-6100

Re: Directional Drilling R649-3-11
NBU 922-32P3CS
T9S-R22E
Section 32: SWSE (Surf), SESE (Bottom)
Surface: 900' FSL, 1915' FEL
Bottom Hole: 304' FSL, 1087' FEL
Uintah County, Utah

Dear Ms. Mason:

Pursuant to the filing of Kerr-McGee Oil & Gas Onshore LP's (Kerr-McGee) Application for Permit to Drill regarding the above referenced well, 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.

- Kerr-McGee's NBU 922-32P3CS is located within the Natural Buttes Unit area.
- Kerr-McGee 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 will be able to utilize the existing road and pipelines in the area.
- Furthermore, Kerr-McGee certifies that it is the sole working interest owner within 400 feet of the entire directional well bore.

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

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

Date: July 23, 2009

Sincerely,

By: 

KERR-MCGEE OIL & GAS ONSHORE LP


Jason Rayburn
Landman

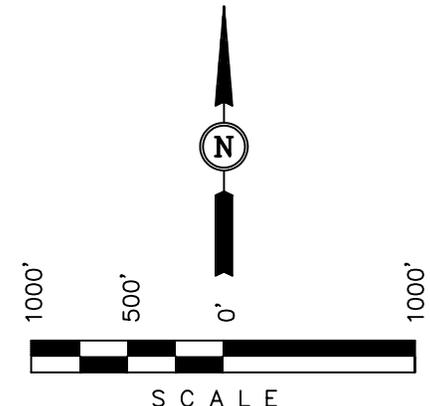
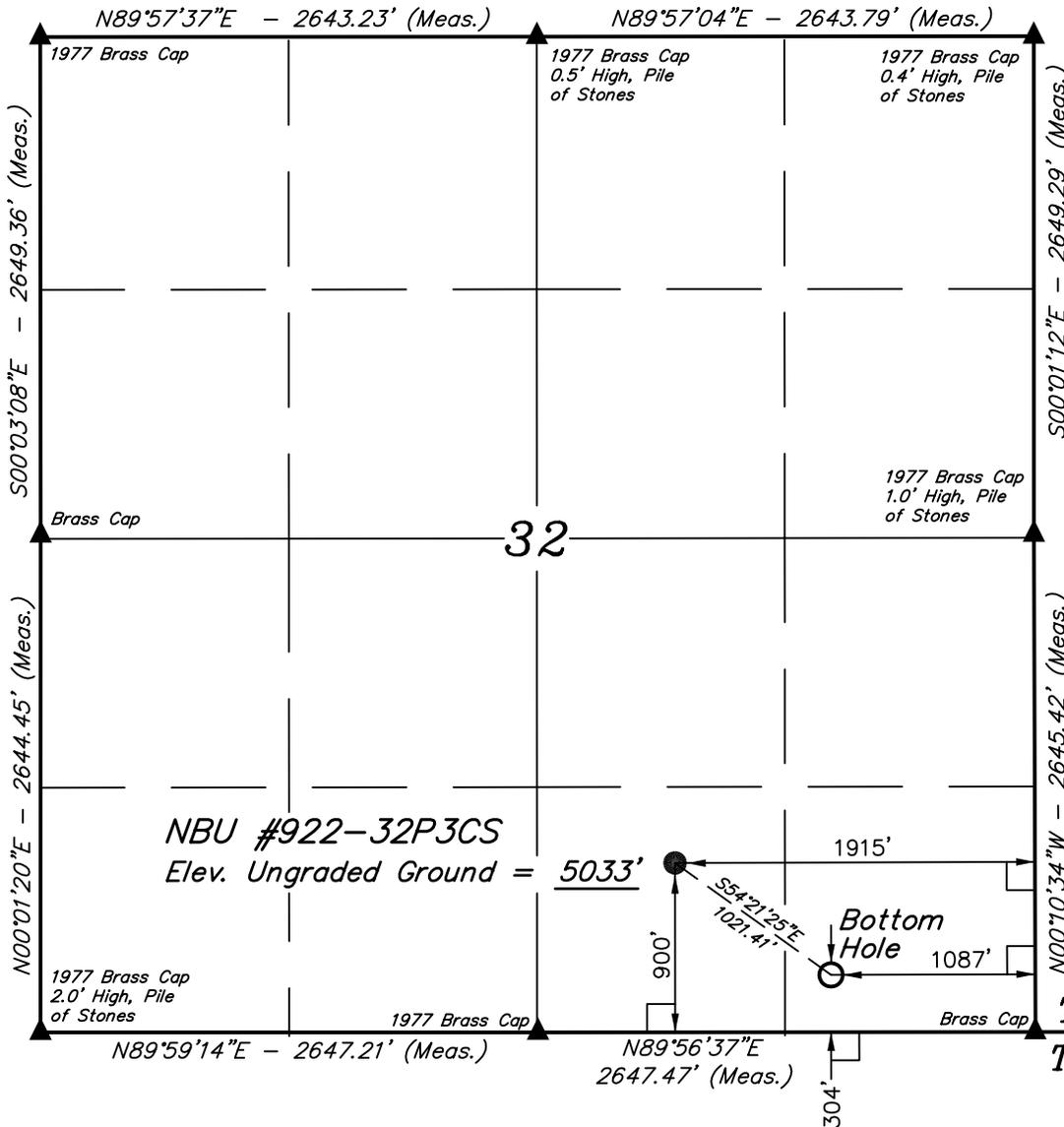
T9S, R22E, S.L.B.&M.

Kerr McGee Oil & Gas Onshore LP

Well location, NBU #922-32P3CS, located as shown in the SW 1/4 SE 1/4 of Section 32, T9S, R22E, S.L.B.&M., Uintah County, Utah.

BASIS OF ELEVATION

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



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.

ROBERT L. KAY
 REGISTERED LAND SURVEYOR
 REGISTRATION NO. 161319
 STATE OF UTAH

REVISED: 09-22-08 C.C.

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

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

NAD 83 (TARGET BOTTOM HOLE) LATITUDE = 39°59'09.93" (39.986092) LONGITUDE = 109°27'29.79" (109.458275)	NAD 83 (SURFACE LOCATION) LATITUDE = 39°59'15.81" (39.987725) LONGITUDE = 109°27'40.45" (109.461236)
NAD 27 (TARGET BOTTOM HOLE) LATITUDE = 39°59'10.06" (39.986128) LONGITUDE = 109°27'27.33" (109.457592)	NAD 27 (SURFACE LOCATION) LATITUDE = 39°59'15.94" (39.987761) LONGITUDE = 109°27'37.99" (109.460553)

SCALE 1" = 1000'	DATE SURVEYED: 5-15-08	DATE DRAWN: 5-16-08
PARTY D.K. C.K. C.P.	REFERENCES G.L.O. PLAT	
WEATHER COLD	FILE Kerr McGee Oil & Gas Onshore LP	

RECEIVED July 15, 2009

**NBU 922-32P3CS
SW/4 SE/4 Sec. 32 T9S R22E
UINTAH COUNTY, UTAH
ML 22649**

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. – 2. **Estimated Tops of Important Geologic Markers:**
Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:

<u>Formation</u>	<u>Depth</u>	<u>Resource</u>
Uinta	0 – Surface	
Green River	1,218'	
Birds Nest	1,553'	Water
Mahogany	2,022'	Water
Wasatch	4,418'	Gas
Mesaverde	6,931'	Gas
MVU2	7,808'	Gas
MVL1	8,456'	Gas
TVD	9,100'	
TD	9,344'	

3. **Pressure Control Equipment** (Schematic Attached)

Please refer to the attached Drilling Program.

4. **Proposed Casing & Cementing Program:**

Please refer to the attached Drilling Program.

5. **Drilling Fluids Program:**

Please refer to the attached Drilling Program.

6. **Evaluation Program:**

Please refer to the attached Drilling Program.

7. **Abnormal Conditions:**

Maximum anticipated bottomhole pressure calculated at 9,344' TD, approximately equals 5,336 psi (calculated at 0.57 psi/foot).

Maximum anticipated surface pressure equals approximately 3,195 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.

Onshore Order #2 – Air Drilling Variance

Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests a variance to several requirements associated with air drilling outlined in Onshore Order 2

- *Blowout Prevention Equipment (BOPE) requirements;*
- *Mud program requirements; and*
- *Special drilling operation (surface equipment placement) requirements associated with air drilling.*

This Standard Operating Practices addendum provides supporting information as to why KMG current air drilling practices for constructing the surface casing hole should be granted a variance to Onshore Order 2 air drilling requirements.

The reader should note that the air rig is used only to construct a stable surface casing hole through a historically difficult lost circulation zone. A conventional rotary rig follows the air rig, and is used to drill and construct the majority of the wellbore.

More notable, KMG has used the air rig layout and procedures outlined below to drill the surface casing hole in approximately 675 wells without incident of blow out or loss of life.

Background

In a typical well, KMG utilizes an air rig for drilling the surface casing hole, an interval from the surface to surface casing depths, which varies in depth from 1,700 to 2,800 feet. The air rig drilling operation does not drill through productive or over pressured formations in KMG field, but does penetrate the Uinta and Green River Formations. The purpose of the air drilling operation is to overcome the severe loss circulation zone in the Green River known as the Bird's Nest while creating a stable hole for the surface casing. The surface casing hole is generally drilled to approximately 500 feet below the Bird's Nest.

Before the surface air rig is mobilized, a rathole rig is utilized to set and cement conductor pipe through a competent surface formation. Generally, the conductor is set at 40 feet. In some cases, conductor may be set deeper in areas that the surface formation is not found competent. This rig also drills the rat and mouse holes in preparation for the surface casing and production string drilling operations.

The air rig is then mobilized to drill the surface casing hole by drilling a 12-1/4 inch hole to just above the Bird's Nest interval with an air hammer. The hammer is then tripped and replaced with a 12-1/4 inch tri-cone bit. The tri-cone bit is used to drill to the surface casing point, approximately 500 feet below the loss circulation zone (Bird's Nest). The 9-5/8 inch surface casing is then run and cemented in place, thereby isolating the lost circulation zone.

KMG fully appreciates Onshore Order 2 well control and safety requirements associated with a typical air drilling operations. However, the requirements of Onshore Order 2 are excessive with respect to the air rig layout and drilling operation procedures that are currently in practice to drill and control the surface casing hole in KMG Fields.

Variance for BOPE Requirements

The air rig operation utilizes a properly lubricated and maintained air bowl diverter system which diverts the drilling returns to a six-inch blooie line. The air bowl is the only piece of BOPE equipment which is installed during drilling operations and is sufficient to contain the air returns associated with this drilling operation. As was discussed earlier, the drilling of the surface hole does not encounter any over pressured or productive zones, and as a result standard BOPE equipment should not be required. In addition, standard drilling practices do not support the use of BOPE on 40 feet of conductor pipe.

Variance for Mud Material Requirements

Onshore Order 2 also states that sufficient quantities of mud materials shall be maintained or readily accessible for the purpose of assuring adequate well control. Once again, the surface hole drilling operations does not encounter over pressured or productive intervals, and as a result there is not a need to control pressure in the surface hole with a mud system. Instead of mud, the air rigs utilize water from the reserve pit for well control, if necessary. A skid pump which is located near the reserve pit (see attachment) will supply the water to the well bore.

Variance for Special Drilling Operation (surface equipment placement) Requirements

Onshore Order 2 requires specific safety distances or setbacks for the placement of associated standard air drilling equipment, wellbore, and reserve pits. The air rigs used to drill the surface holes are not typical of an air rig used to drill a producing hole in other parts of the US. These are smaller in nature and designed to fit a KMG location. The typical air rig layout for drilling surface hole in the field is attached.

Typically the blooie line discharge point is required to be 100 feet from the well bore. In the case of a KMG well, the reserve pit is only 45 feet from the rig and is used for the drill cuttings. The blooie line, which transports the drill cuttings from the well to the reserve pit, subsequently discharges only 45 feet from the well bore.

Typically the air rig compressors are required to be located in the opposite direction from the blooie line and a minimum of 100 feet from the well bore. At the KMG locations, the air rig compressors are approximately 40 feet from the well bore and approximately 60 feet from the blooie line discharge due to the unique air rig design. The air compressors (see attachment) are located on the rig (1250 cfm) and on a standby trailer (1170 cfm). A booster sits between the two compressors and boosts the output from 350 psi to 2000 psi. The design does put the booster and standby compressor opposite from the blooie line.

Lastly, Onshore Order 2 addresses the need for an automatic igniter or continuous pilot light on the blooie line. The air rig does not utilize an igniter as the surface hole drilling operation does not encounter productive formations.

Conclusion

The air rig operating procedures and the attached air rig layout have effectively maintained well control while drilling the surface holes in KMG Fields. KMG respectfully requests a variance from Onshore Order 2 with respect to air drilling well control requirements as discussed above.

10. Other Information:

Please refer to the attached Drilling Program.



KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'				3520	2020	453000
SURFACE	9-5/8"	0 to 2,100	36.00	J-55	LTC	1.04	2.06	7.63
PRODUCTION	4-1/2"	0 to 9,344	11.60	I-80	LTC	2.30	1.17	2.12

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 - (0.22 psi/ft - partial evac gradient x TD)
 (Burst Assumptions: TD = 11.2 ppg) 0.22 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 3,195 psi

3) Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD
 (Burst Assumptions: TD = 11.2 ppg) 0.57 psi/ft = bottomhole gradient
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing * Buoy. Fact. of water)
MABHP 5,336 psi

CEMENT PROGRAM

	FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE Option 1	LEAD 500	Premium cmt + 2% CaCl + 0.25 pps flocele	215	60%	15.60	1.18
	TOP OUT CMT (1) 200	20 gals sodium silicate + Premium cmt + 2% CaCl + 0.25 pps flocele	50		15.60	1.18
	TOP OUT CMT (2) as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
SURFACE Option 2	NOTE: If well will circulate water to surface, option 2 will be utilized					
	LEAD 1500	65/35 Poz + 6% Gel + 10 pps gilsonite + .25 pps Flocele + 3% salt BWOW	360	35%	12.60	1.81
	TAIL 500	Premium cmt + 2% CaCl + 0.25 pps flocele	180	35%	15.60	1.18
	TOP OUT CMT as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
PRODUCTION	LEAD 3,914'	Premium Lite II + 3% KCl + 0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	380	40%	11.00	3.38
	TAIL 5,430'	50/50 Poz/G + 10% salt + 2% gel + .1% R-3	1330	40%	14.30	1.31

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

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

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe
PRODUCTION	Float shoe, 1 jt, float collar. No centralizers will be used.

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. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Surveys will be taken at 1,000' minimum intervals.

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

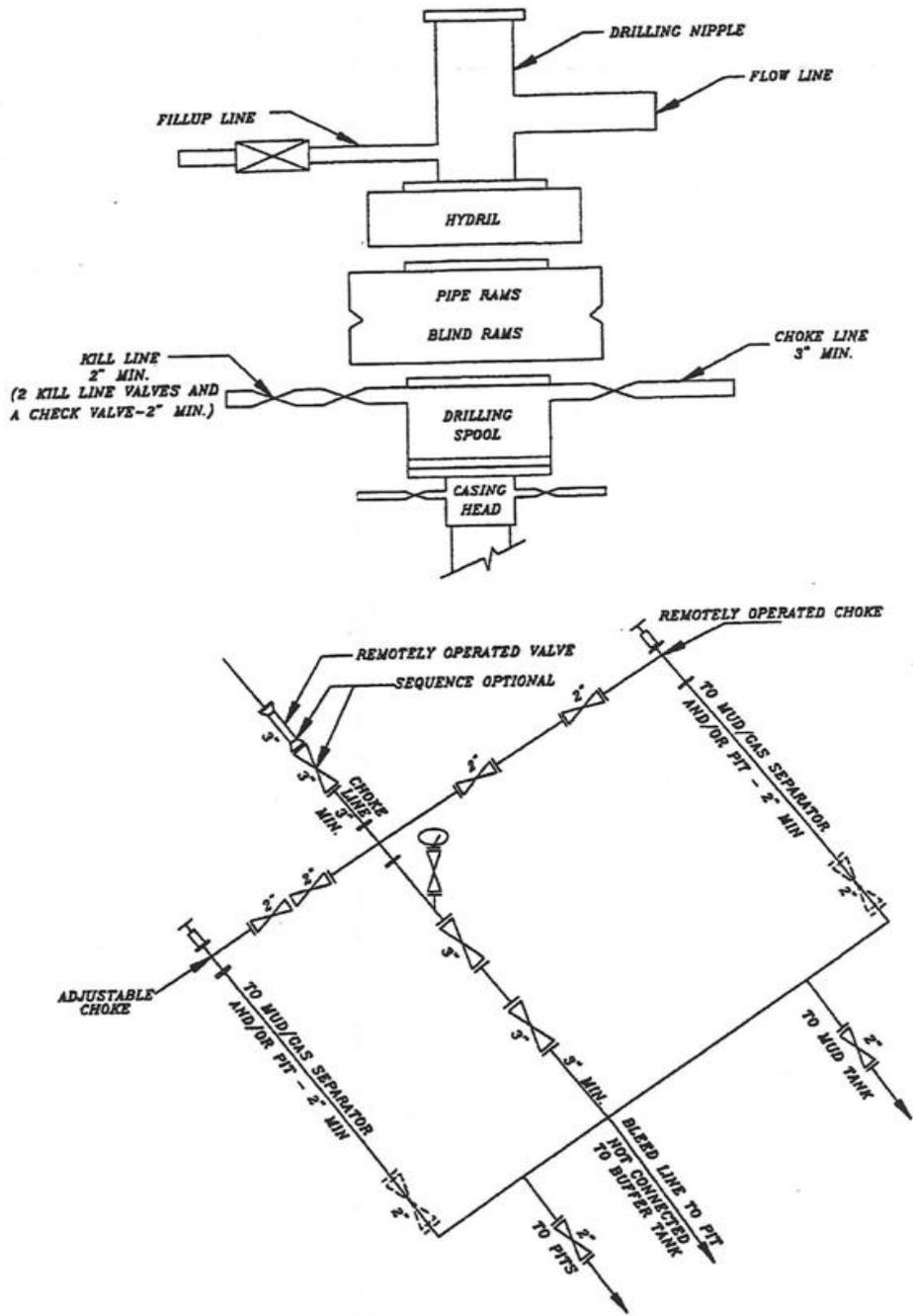
DRILLING ENGINEER: _____
John Huycke / Grant Schluender

DATE: _____

DRILLING SUPERINTENDENT: _____
John Merkel / Lovel Young

DATE: _____

EXHIBIT A
NBU 922-32P3CS



SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

**NBU 922-32P3CS
SW/4 SE/4 Sec. 32 T9S R22E
UINTAH COUNTY, UTAH
ML 22649**

ONSHORE ORDER NO. 1

MULTI-POINT SURFACE USE & OPERATIONS PLAN

Directional Drilling:

In accordance with Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling, this well will be directionally drilled in order to access portions of our lease which are otherwise inaccessible due to topography.

1. Existing Roads:

Refer to Topo Map A for directions to the location.

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

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

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

2. Planned Access Roads:

Approximately ± 0.0 mi. ($\pm 0'$) of new access road is proposed. Please refer to the attached Topo Map B.

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 Shadow Gray, a non-reflective earthtone.

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

5. Location and Type of Water Supply:

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

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

No water well is to be drilled on this lease.

6. Source of Construction Materials:

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

Any gravel will be obtained from a commercial source.

7. Methods of Handling Waste Materials:

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

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

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

A plastic reinforced liner and felt will be used; it will be a minimum of 20 mil thick, with sufficient bedding used to cover any rocks. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. No trash or scrap that could puncture the liner will be disposed of in the pit. Any spills of oil, gas, salt water, or other noxious fluids will be immediately cleaned up and removed to an approved disposal site.

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

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

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

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

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

Any produced water from the proposed well will be contained in a water tank and will then be hauled by truck to one of the pre-approved disposal sites: RNI in Sec. 5 T9S R22E, NBU #159 in Sec. 35 T9S R21E, Ace Oilfield in Sec. 2 T6S R20E, MC&MC in Sec. 12 T6S R19E, Pipeline Facility in Sec. 36 T9S R20E, Goat Pasture Evaporation Pond in SW/4 Sec. 16 T10S R22E, Bonanza Evaporation Pond in Sec. 2 T10S R23E.

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/Mineral Ownership:

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

12. Other Information:

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

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

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

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

Kathy Schneebeck Dulnoan
Regulatory Analyst
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6226

Tommy Thompson
General Manager, Drilling
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720-929-6724

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 22013542.

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 I have full knowledge of the State and Federal laws applicable to this operation; 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 in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.



Kathy Schneebeck Dulnoan

January 29, 2009

Date



ANADARKO PETROLEUM CORP.

UINTAH COUNTY, UTAH (nad 27)

NBU 922-320 PAD

NBU 922-32P3CS

NBU 922-32P3CS

Plan: Design #1

Standard Planning Report

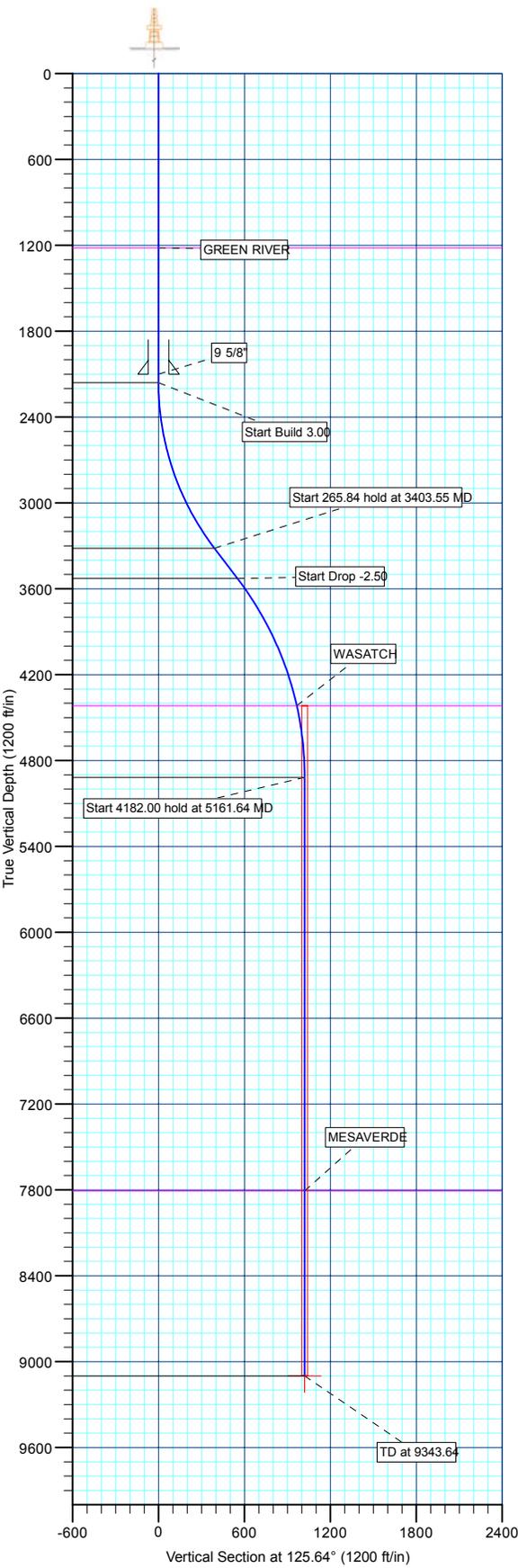
10 December, 2008



Weatherford®

Project: UINTAH COUNTY, UTAH (nad 27)
 Site: NBU 922-320 PAD
 Well: NBU 922-32P3CS
 Wellbore: NBU 922-32P3CS
 Design: Design #1
 Latitude: 39° 59' 15.940 N
 Longitude: 109° 27' 37.991 W
 GL: 5033.00
 KB: WELL @ 5053.00ft (Original Well Elev)

ANTI-COLLISION NOTE:
WELL STARTS CONVERGING AT
800'-1600' MD, CENTER TO CENTER
DISTANCE IS 13.54'



WELL DETAILS: NBU 922-32P3CS						
+N/-S	+E/-W	Northing	Ground Level: Easting	5033.00 Latitude	Longitude	Slot
0.00	0.00	14525311.03	2071637.69	39° 59' 15.940 N	109° 27' 37.991 W	

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)						
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
PBHL_NBU 922-32P3CS	9100.00	-594.74	829.60	39° 59' 10.061 N	109° 27' 27.331 W	Circle (Radius: 20.00)

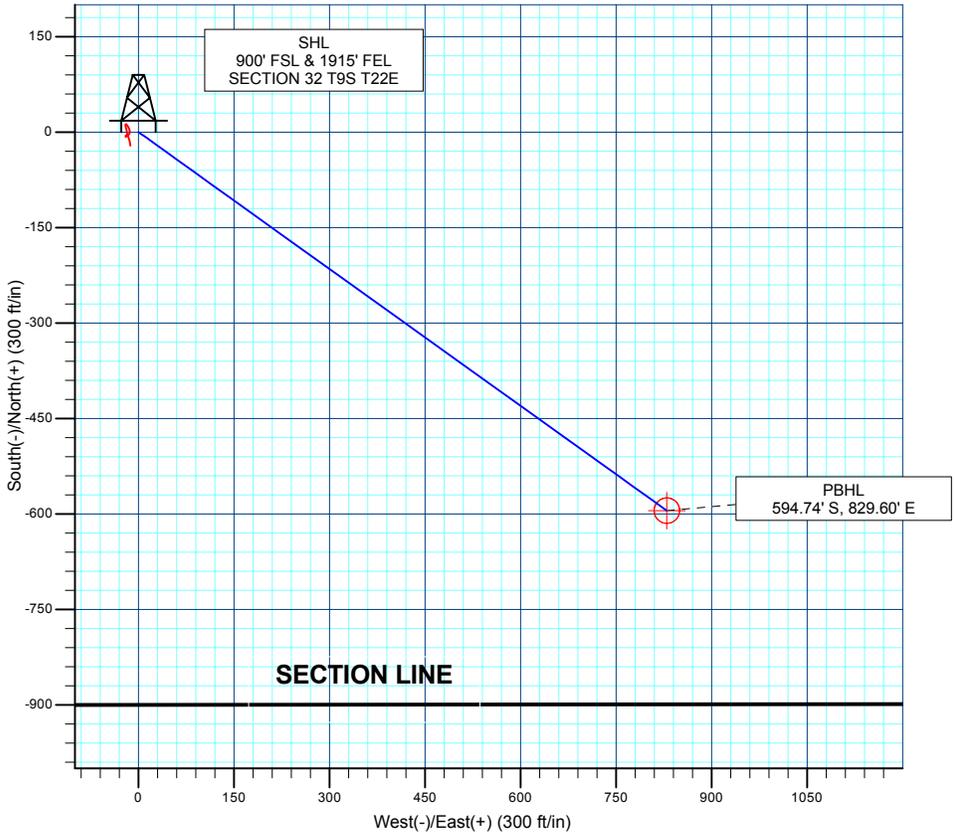
SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	2160.00	0.00	0.00	2160.00	0.00	0.00	0.00	0.00	0.00	
3	3403.55	37.31	125.64	3317.52	-227.67	317.57	3.00	125.64	390.75	
4	3669.39	37.31	125.64	3528.97	-321.54	448.51	0.00	0.00	551.87	
5	5161.64	0.00	0.00	4918.00	-594.74	829.60	2.50	180.00	1020.76	
6	9343.64	0.00	0.00	9100.00	-594.74	829.60	0.00	0.00	1020.76	PBHL_NBU 922-32P3CS

LEGEND	
—	NBU404 ACTUAL GYRO, NBU404 ACTUAL GYRO, NBU404 ACTUAL GYRO V0
—	Design #1



FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
1218.00	1218.00	GREEN RIVER
4418.00	4657.59	WASATCH
7808.00	8051.64	MESAVERDE

CASING DETAILS			
TVD	MD	Name	Size
2100.00	2100.00	9 5/8"	9.62



Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well NBU 922-32P3CS
Company:	ANADARKO PETROLEUM CORP.	TVD Reference:	WELL @ 5053.00ft (Original Well Elev)
Project:	UINTAH COUNTY, UTAH (nad 27)	MD Reference:	WELL @ 5053.00ft (Original Well Elev)
Site:	NBU 922-32O PAD	North Reference:	True
Well:	NBU 922-32P3CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	NBU 922-32P3CS		
Design:	Design #1		

Project	UINTAH COUNTY, UTAH (nad 27),		
Map System:	Universal Transverse Mercator (US Survey Fee	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 - Western US		
Map Zone:	Zone 12N (114 W to 108 W)		

Site	NBU 922-32O PAD, SECTION 32 T9S R22E				
Site Position:		Northing:	14,525,311.03ft	Latitude:	39° 59' 15.940 N
From:	Lat/Long	Easting:	2,071,637.69ft	Longitude:	109° 27' 37.991 W
Position Uncertainty:	0.00 ft	Slot Radius:	in	Grid Convergence:	0.99 °

Well	NBU 922-32P3CS					
Well Position	+N/-S	0.00 ft	Northing:	14,525,311.03ft	Latitude:	39° 59' 15.940 N
	+E/-W	0.00 ft	Easting:	2,071,637.69ft	Longitude:	109° 27' 37.991 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	5,033.00ft

Wellbore	NBU 922-32P3CS				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2008	12/4/2008	11.41	65.96	52,593

Design	Design #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	125.64

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,160.00	0.00	0.00	2,160.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,403.55	37.31	125.64	3,317.52	-227.67	317.57	3.00	3.00	0.00	125.64	
3,669.39	37.31	125.64	3,528.97	-321.54	448.51	0.00	0.00	0.00	0.00	
5,161.64	0.00	0.00	4,918.00	-594.74	829.60	2.50	-2.50	0.00	180.00	
9,343.64	0.00	0.00	9,100.00	-594.74	829.60	0.00	0.00	0.00	0.00	PBHL_NBU 922-32

Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well NBU 922-32P3CS
Company:	ANADARKO PETROLEUM CORP.	TVD Reference:	WELL @ 5053.00ft (Original Well Elev)
Project:	UINTAH COUNTY, UTAH (nad 27)	MD Reference:	WELL @ 5053.00ft (Original Well Elev)
Site:	NBU 922-32O PAD	North Reference:	True
Well:	NBU 922-32P3CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	NBU 922-32P3CS		
Design:	Design #1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
2,160.00	0.00	0.00	2,160.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 3.00										
2,200.00	1.20	125.64	2,200.00	-0.24	0.34	0.42	3.00	3.00	0.00	
2,300.00	4.20	125.64	2,299.87	-2.99	4.17	5.13	3.00	3.00	0.00	
2,400.00	7.20	125.64	2,399.37	-8.77	12.24	15.06	3.00	3.00	0.00	
2,500.00	10.20	125.64	2,498.21	-17.59	24.53	30.18	3.00	3.00	0.00	
2,600.00	13.20	125.64	2,596.12	-29.40	41.01	50.46	3.00	3.00	0.00	
2,700.00	16.20	125.64	2,692.83	-44.18	61.63	75.83	3.00	3.00	0.00	
2,800.00	19.20	125.64	2,788.09	-61.90	86.34	106.23	3.00	3.00	0.00	
2,900.00	22.20	125.64	2,881.62	-82.49	115.06	141.58	3.00	3.00	0.00	
3,000.00	25.20	125.64	2,973.18	-105.91	147.73	181.77	3.00	3.00	0.00	
3,100.00	28.20	125.64	3,062.51	-132.08	184.24	226.69	3.00	3.00	0.00	
3,200.00	31.20	125.64	3,149.36	-160.95	224.50	276.23	3.00	3.00	0.00	
3,300.00	34.20	125.64	3,233.50	-192.42	268.40	330.25	3.00	3.00	0.00	
3,400.00	37.20	125.64	3,314.70	-226.42	315.82	388.60	3.00	3.00	0.00	
3,403.55	37.31	125.64	3,317.52	-227.67	317.57	390.75	3.00	3.00	0.00	
Start 265.84 hold at 3403.55 MD										
3,500.00	37.31	125.64	3,394.24	-261.73	365.08	449.20	0.00	0.00	0.00	
3,600.00	37.31	125.64	3,473.78	-297.04	414.34	509.81	0.00	0.00	0.00	
3,669.39	37.31	125.64	3,528.97	-321.54	448.51	551.87	0.00	0.00	0.00	
Start Drop -2.50										
3,700.00	36.54	125.64	3,553.45	-332.26	463.46	570.26	2.50	-2.50	0.00	
3,800.00	34.04	125.64	3,635.06	-365.92	510.41	628.03	2.50	-2.50	0.00	
3,900.00	31.54	125.64	3,719.12	-397.47	554.42	682.18	2.50	-2.50	0.00	
4,000.00	29.04	125.64	3,805.46	-426.86	595.41	732.61	2.50	-2.50	0.00	
4,100.00	26.54	125.64	3,893.92	-454.02	633.30	779.24	2.50	-2.50	0.00	
4,200.00	24.04	125.64	3,984.33	-478.91	668.02	821.95	2.50	-2.50	0.00	
4,300.00	21.54	125.64	4,076.51	-501.48	699.50	860.69	2.50	-2.50	0.00	
4,400.00	19.04	125.64	4,170.30	-521.68	727.68	895.36	2.50	-2.50	0.00	
4,500.00	16.54	125.64	4,265.51	-539.48	752.51	925.92	2.50	-2.50	0.00	
4,600.00	14.04	125.64	4,361.96	-554.85	773.95	952.29	2.50	-2.50	0.00	
4,657.59	12.60	125.64	4,418.00	-562.58	784.73	965.56	2.50	-2.50	0.00	
WASATCH										
4,700.00	11.54	125.64	4,459.47	-567.75	791.94	974.42	2.50	-2.50	0.00	
4,800.00	9.04	125.64	4,557.86	-578.15	806.46	992.29	2.50	-2.50	0.00	
4,900.00	6.54	125.64	4,656.92	-586.05	817.47	1,005.84	2.50	-2.50	0.00	
5,000.00	4.04	125.64	4,756.49	-591.42	824.97	1,015.06	2.50	-2.50	0.00	
5,100.00	1.54	125.64	4,856.36	-594.26	828.92	1,019.93	2.50	-2.50	0.00	
5,161.64	0.00	0.00	4,918.00	-594.74	829.60	1,020.76	2.50	-2.50	0.00	
Start 4182.00 hold at 5161.64 MD										
5,200.00	0.00	0.00	4,956.36	-594.74	829.60	1,020.76	0.00	0.00	0.00	
5,300.00	0.00	0.00	5,056.36	-594.74	829.60	1,020.76	0.00	0.00	0.00	
5,400.00	0.00	0.00	5,156.36	-594.74	829.60	1,020.76	0.00	0.00	0.00	
5,500.00	0.00	0.00	5,256.36	-594.74	829.60	1,020.76	0.00	0.00	0.00	
5,600.00	0.00	0.00	5,356.36	-594.74	829.60	1,020.76	0.00	0.00	0.00	
5,700.00	0.00	0.00	5,456.36	-594.74	829.60	1,020.76	0.00	0.00	0.00	
5,800.00	0.00	0.00	5,556.36	-594.74	829.60	1,020.76	0.00	0.00	0.00	
5,900.00	0.00	0.00	5,656.36	-594.74	829.60	1,020.76	0.00	0.00	0.00	
6,000.00	0.00	0.00	5,756.36	-594.74	829.60	1,020.76	0.00	0.00	0.00	
6,100.00	0.00	0.00	5,856.36	-594.74	829.60	1,020.76	0.00	0.00	0.00	
6,200.00	0.00	0.00	5,956.36	-594.74	829.60	1,020.76	0.00	0.00	0.00	
6,300.00	0.00	0.00	6,056.36	-594.74	829.60	1,020.76	0.00	0.00	0.00	
6,400.00	0.00	0.00	6,156.36	-594.74	829.60	1,020.76	0.00	0.00	0.00	

Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well NBU 922-32P3CS
Company:	ANADARKO PETROLEUM CORP.	TVD Reference:	WELL @ 5053.00ft (Original Well Elev)
Project:	UINTAH COUNTY, UTAH (nad 27)	MD Reference:	WELL @ 5053.00ft (Original Well Elev)
Site:	NBU 922-32O PAD	North Reference:	True
Well:	NBU 922-32P3CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	NBU 922-32P3CS		
Design:	Design #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
6,500.00	0.00	0.00	6,256.36	-594.74	829.60	1,020.76	0.00	0.00	0.00
6,600.00	0.00	0.00	6,356.36	-594.74	829.60	1,020.76	0.00	0.00	0.00
6,700.00	0.00	0.00	6,456.36	-594.74	829.60	1,020.76	0.00	0.00	0.00
6,800.00	0.00	0.00	6,556.36	-594.74	829.60	1,020.76	0.00	0.00	0.00
6,900.00	0.00	0.00	6,656.36	-594.74	829.60	1,020.76	0.00	0.00	0.00
7,000.00	0.00	0.00	6,756.36	-594.74	829.60	1,020.76	0.00	0.00	0.00
7,100.00	0.00	0.00	6,856.36	-594.74	829.60	1,020.76	0.00	0.00	0.00
7,200.00	0.00	0.00	6,956.36	-594.74	829.60	1,020.76	0.00	0.00	0.00
7,300.00	0.00	0.00	7,056.36	-594.74	829.60	1,020.76	0.00	0.00	0.00
7,400.00	0.00	0.00	7,156.36	-594.74	829.60	1,020.76	0.00	0.00	0.00
7,500.00	0.00	0.00	7,256.36	-594.74	829.60	1,020.76	0.00	0.00	0.00
7,600.00	0.00	0.00	7,356.36	-594.74	829.60	1,020.76	0.00	0.00	0.00
7,700.00	0.00	0.00	7,456.36	-594.74	829.60	1,020.76	0.00	0.00	0.00
7,800.00	0.00	0.00	7,556.36	-594.74	829.60	1,020.76	0.00	0.00	0.00
7,900.00	0.00	0.00	7,656.36	-594.74	829.60	1,020.76	0.00	0.00	0.00
8,000.00	0.00	0.00	7,756.36	-594.74	829.60	1,020.76	0.00	0.00	0.00
8,051.64	0.00	0.00	7,808.00	-594.74	829.60	1,020.76	0.00	0.00	0.00
MESAVERDE									
8,100.00	0.00	0.00	7,856.36	-594.74	829.60	1,020.76	0.00	0.00	0.00
8,200.00	0.00	0.00	7,956.36	-594.74	829.60	1,020.76	0.00	0.00	0.00
8,300.00	0.00	0.00	8,056.36	-594.74	829.60	1,020.76	0.00	0.00	0.00
8,400.00	0.00	0.00	8,156.36	-594.74	829.60	1,020.76	0.00	0.00	0.00
8,500.00	0.00	0.00	8,256.36	-594.74	829.60	1,020.76	0.00	0.00	0.00
8,600.00	0.00	0.00	8,356.36	-594.74	829.60	1,020.76	0.00	0.00	0.00
8,700.00	0.00	0.00	8,456.36	-594.74	829.60	1,020.76	0.00	0.00	0.00
8,800.00	0.00	0.00	8,556.36	-594.74	829.60	1,020.76	0.00	0.00	0.00
8,900.00	0.00	0.00	8,656.36	-594.74	829.60	1,020.76	0.00	0.00	0.00
9,000.00	0.00	0.00	8,756.36	-594.74	829.60	1,020.76	0.00	0.00	0.00
9,100.00	0.00	0.00	8,856.36	-594.74	829.60	1,020.76	0.00	0.00	0.00
9,200.00	0.00	0.00	8,956.36	-594.74	829.60	1,020.76	0.00	0.00	0.00
9,300.00	0.00	0.00	9,056.36	-594.74	829.60	1,020.76	0.00	0.00	0.00
9,343.64	0.00	0.00	9,100.00	-594.74	829.60	1,020.76	0.00	0.00	0.00
TD at 9343.64 - PBHL_NBU 922-32P3CS									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
2,100.00	2,100.00	9 5/8"	9.62	12.25	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,218.00	1,218.00	GREEN RIVER		0.00	
4,657.59	4,418.00	WASATCH		0.00	
8,051.64	7,808.00	MESAVERDE		0.00	

Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well NBU 922-32P3CS
Company:	ANADARKO PETROLEUM CORP.	TVD Reference:	WELL @ 5053.00ft (Original Well Elev)
Project:	UINTAH COUNTY, UTAH (nad 27)	MD Reference:	WELL @ 5053.00ft (Original Well Elev)
Site:	NBU 922-32O PAD	North Reference:	True
Well:	NBU 922-32P3CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	NBU 922-32P3CS		
Design:	Design #1		

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
2,160.00	2,160.00	0.00	0.00	Start Build 3.00
3,403.55	3,317.52	-227.67	317.57	Start 265.84 hold at 3403.55 MD
3,669.39	3,528.97	-321.54	448.51	Start Drop -2.50
5,161.64	4,918.00	-594.74	829.60	Start 4182.00 hold at 5161.64 MD
9,343.64	9,100.00	-594.74	829.60	TD at 9343.64

ANADARKO PETROLEUM CORP.

**UINTAH COUNTY, UTAH (nad 27)
NBU 922-320 PAD
NBU 922-32P3CS**

**NBU 922-32P3CS
Design #1**

Anticollision Report

10 December, 2008



Weatherford®

Company:	ANADARKO PETROLEUM CORP.	Local Co-ordinate Reference:	Well NBU 922-32P3CS
Project:	UINTAH COUNTY, UTAH (nad 27)	TVD Reference:	WELL @ 5053.00ft (Original Well Elev)
Reference Site:	NBU 922-320 PAD	MD Reference:	WELL @ 5053.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	NBU 922-32P3CS	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	NBU 922-32P3CS	Database:	EDM 2003.21 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Reference	Design #1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 10,000.00ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program	Date	12/10/2008		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.00	9,343.64	Design #1 (NBU 922-32P3CS)	MWD	MWD - Standard

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
NBU 922-320 PAD						
NBU404 ACTUAL GYRO - NBU404 ACTUAL GYRO - NI	1,507.50	1,487.61	13.54	7.56	2.266	CC, ES, SF

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 100-NS-GYRO-MS													Offset Well Error:	0.00 ft
Reference														
Offset														
Semi Major Axis														
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
0.00	0.00	0.00	0.00	0.00	0.00	-104.04	-5.00	-20.00	28.72	20.65	0.20	105.302		
100.00	100.00	79.98	79.98	0.09	0.11	-104.41	-5.14	-20.00	20.65	20.46	0.66	31.487		
200.00	200.00	179.97	179.97	0.31	0.35	-105.55	-5.57	-20.01	20.77	20.11	1.14	18.368		
300.00	300.00	279.94	279.94	0.54	0.60	-106.56	-5.98	-20.10	20.97	19.83	1.62	13.084		
400.00	400.00	379.97	379.96	0.76	0.86	-107.43	-6.36	-20.27	21.24	19.62	2.11	10.128		
500.00	500.00	479.98	479.98	0.99	1.12	-108.56	-6.80	-20.25	21.36	19.25	2.59	8.264		
600.00	600.00	579.99	579.99	1.21	1.38	-109.70	-7.23	-20.18	21.44	18.84	2.98	7.158		
700.00	700.00	680.07	680.07	1.44	1.54	-110.34	-7.42	-20.02	21.35	18.37	3.30	6.352		
800.00	800.00	780.10	780.09	1.66	1.63	-110.06	-7.19	-19.68	20.95	17.65	3.63	5.627		
900.00	900.00	880.15	880.14	1.89	1.74	-109.71	-6.88	-19.21	20.41	16.78	3.95	5.008		
1,000.00	1,000.00	980.09	980.08	2.11	1.84	-108.62	-6.32	-18.77	19.80	15.85	4.30	4.496		
1,100.00	1,100.00	1,080.14	1,080.13	2.34	1.97	-107.57	-5.84	-18.45	19.35	15.05	4.70	3.894		
1,200.00	1,200.00	1,180.29	1,180.28	2.56	2.14	-106.29	-5.13	-17.56	18.30	13.60	5.13	3.218		
1,300.00	1,300.00	1,280.37	1,280.34	2.79	2.34	-104.77	-4.20	-15.94	16.49	11.37	5.55	2.623		
1,400.00	1,400.00	1,380.30	1,380.24	3.01	2.54	-100.91	-2.75	-14.29	14.55	9.00	5.95	2.278		
1,500.00	1,500.00	1,480.12	1,480.02	3.24	2.71	-90.23	-0.06	-13.55	13.55	7.60	5.98	2.266	CC, ES, SF	
1,507.50	1,507.50	1,487.61	1,487.50	3.25	2.72	-89.19	0.19	-13.54	13.54	7.56	6.33	2.299		
1,600.00	1,600.00	1,579.85	1,579.68	3.46	2.87	-75.74	3.58	-14.10	14.55	8.22	6.71	2.596		
1,700.00	1,700.00	1,679.71	1,679.45	3.69	3.02	-64.66	7.45	-15.73	17.41	10.70	7.09	2.878		
1,800.00	1,800.00	1,779.78	1,779.46	3.91	3.18	-59.12	10.46	-17.50	20.40	13.31	7.47	3.017		
1,900.00	1,900.00	1,880.00	1,879.65	4.14	3.34	-57.60	12.08	-19.03	22.54	15.07	7.84	3.008		
2,000.00	2,000.00	1,980.22	1,979.86	4.36	3.48	-58.45	12.34	-20.09	23.58	15.74	8.20	2.874		
2,100.00	2,100.00	2,080.53	2,080.17	4.59	3.62	-61.53	11.23	-20.71	23.56	15.36	8.42	2.730		
2,160.00	2,160.00	2,140.61	2,140.23	4.72	3.71	-63.64	10.21	-20.60	22.99	14.57	8.50	2.694		
2,180.16	2,180.16	2,160.78	2,160.40	4.76	3.74	170.06	9.86	-20.54	22.89	14.40	8.57	2.684		
2,200.00	2,200.00	2,180.62	2,180.24	4.80	3.77	169.51	9.52	-20.47	22.99	14.43				

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	ANADARKO PETROLEUM CORP.	Local Co-ordinate Reference:	Well NBU 922-32P3CS
Project:	UINTAH COUNTY, UTAH (nad 27)	TVD Reference:	WELL @ 5053.00ft (Original Well Elev)
Reference Site:	NBU 922-32O PAD	MD Reference:	WELL @ 5053.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	NBU 922-32P3CS	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	NBU 922-32P3CS	Database:	EDM 2003.21 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 100-NS-GYRO-MS													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Tooface (")	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
2,300.00	2,299.87	2,280.67	2,280.28	4.98	3.93	167.95	7.56	-19.97	26.34	17.45	8.89	2.962		
2,400.00	2,399.37	2,380.33	2,379.90	5.18	4.11	167.93	5.04	-19.34	34.47	25.26	9.21	3.741		
2,500.00	2,498.21	2,479.45	2,478.98	5.39	4.29	169.13	2.51	-18.77	47.75	38.22	9.52	5.015		
2,600.00	2,596.12	2,577.56	2,577.06	5.64	4.48	170.52	0.00	-18.28	66.19	56.38	9.81	6.745		
2,700.00	2,692.83	2,674.91	2,674.38	5.93	4.67	171.73	-2.51	-17.92	89.82	79.73	10.09	8.902		
2,800.00	2,788.09	2,770.70	2,770.14	6.29	4.87	172.89	-4.80	-17.21	118.26	107.91	10.35	11.427		
2,900.00	2,881.62	2,864.75	2,864.16	6.74	5.07	173.89	-6.73	-16.47	151.81	141.22	10.59	14.331		
3,000.00	2,973.18	2,957.54	2,956.93	7.28	5.28	174.64	-8.69	-15.73	190.21	179.39	10.82	17.578		
3,100.00	3,062.51	3,048.01	3,047.37	7.95	5.48	175.20	-10.80	-14.76	233.10	222.07	11.03	21.130		
3,200.00	3,149.36	3,135.30	3,134.63	8.74	5.68	175.58	-12.95	-14.05	280.78	269.56	11.22	25.016		
3,300.00	3,233.50	3,219.83	3,219.14	9.66	5.87	175.84	-15.10	-13.63	333.19	321.78	11.40	29.223		
3,403.55	3,317.52	3,304.34	3,303.62	10.76	6.06	176.06	-17.18	-13.31	392.21	380.64	11.57	33.895		
3,500.00	3,394.24	3,381.39	3,380.65	11.88	6.23	176.35	-18.94	-13.08	449.43	437.38	12.05	37.302		
3,600.00	3,473.78	3,461.34	3,460.58	13.09	6.42	176.59	-20.68	-12.89	508.87	496.31	12.56	40.513		
3,669.39	3,528.97	3,490.00	3,489.23	13.94	6.48	176.66	-21.30	-12.84	550.80	537.93	12.88	42.778		
3,700.00	3,553.45	3,490.00	3,489.23	14.29	6.48	176.70	-21.30	-12.84	570.54	557.46	13.08	43.629		
3,800.00	3,635.06	3,490.00	3,489.23	15.32	6.48	176.83	-21.30	-12.84	639.05	625.34	13.72	46.592		
3,900.00	3,719.12	3,490.00	3,489.23	16.31	6.48	176.98	-21.30	-12.84	712.28	697.96	14.33	49.717		
4,000.00	3,805.46	3,490.00	3,489.23	17.25	6.48	177.13	-21.30	-12.84	788.80	773.89	14.91	52.921		
4,100.00	3,893.92	3,490.00	3,489.23	18.13	6.48	177.29	-21.30	-12.84	867.60	852.16	15.45	56.165		
4,200.00	3,984.33	3,490.00	3,489.23	18.93	6.48	177.44	-21.30	-12.84	948.00	932.05	15.95	59.433		
4,300.00	4,076.51	3,490.00	3,489.23	19.67	6.48	177.60	-21.30	-12.84	1,029.47	1,013.06	16.41	62.725		
4,400.00	4,170.30	3,490.00	3,489.23	20.33	6.48	177.74	-21.30	-12.84	1,111.65	1,094.82	16.83	66.048		
4,500.00	4,265.51	3,490.00	3,489.23	20.91	6.48	177.88	-21.30	-12.84	1,194.25	1,177.05	17.20	69.415		
4,600.00	4,361.96	3,490.00	3,489.23	21.42	6.48	178.01	-21.30	-12.84	1,277.05	1,259.52	17.53	72.840		
4,700.00	4,459.47	3,490.00	3,489.23	21.85	6.48	178.14	-21.30	-12.84	1,359.87	1,342.05	17.81	76.341		
4,800.00	4,557.86	3,490.00	3,489.23	22.22	6.48	178.25	-21.30	-12.84	1,442.55	1,424.50	18.05	79.936		
4,900.00	4,656.92	3,490.00	3,489.23	22.51	6.48	178.36	-21.30	-12.84	1,524.98	1,506.75	18.23	83.642		
5,000.00	4,756.49	3,490.00	3,489.23	22.74	6.48	178.46	-21.30	-12.84	1,607.05	1,588.68	18.37	87.481		
5,100.00	4,856.36	3,490.00	3,489.23	22.90	6.48	178.55	-21.30	-12.84	1,688.68	1,670.21	18.46	91.471		
5,161.64	4,918.00	3,490.00	3,489.23	22.97	6.48	-55.76	-21.30	-12.84	1,738.73	1,720.24	18.49	94.043		
5,200.00	4,956.36	3,490.00	3,489.23	23.00	6.48	-55.76	-21.30	-12.84	1,769.95	1,751.39	18.55	95.395		
5,300.00	5,056.36	3,490.00	3,489.23	23.10	6.48	-55.76	-21.30	-12.84	1,852.60	1,833.87	18.74	98.877		
5,400.00	5,156.36	3,490.00	3,489.23	23.21	6.48	-55.76	-21.30	-12.84	1,936.90	1,917.98	18.92	102.371		
5,500.00	5,256.36	3,490.00	3,489.23	23.31	6.48	-55.76	-21.30	-12.84	2,022.62	2,003.51	19.11	105.865		
5,600.00	5,356.36	3,490.00	3,489.23	23.42	6.48	-55.76	-21.30	-12.84	2,109.60	2,090.31	19.29	109.350		
5,700.00	5,456.36	3,490.00	3,489.23	23.52	6.48	-55.76	-21.30	-12.84	2,197.69	2,178.21	19.48	112.818		
5,800.00	5,556.36	3,490.00	3,489.23	23.63	6.48	-55.76	-21.30	-12.84	2,286.76	2,267.09	19.67	116.263		
5,900.00	5,656.36	3,490.00	3,489.23	23.74	6.48	-55.76	-21.30	-12.84	2,376.70	2,356.84	19.86	119.679		
6,000.00	5,756.36	3,490.00	3,489.23	23.85	6.48	-55.76	-21.30	-12.84	2,467.41	2,447.36	20.05	123.063		
6,100.00	5,856.36	3,490.00	3,489.23	23.97	6.48	-55.76	-21.30	-12.84	2,558.82	2,538.58	20.24	126.411		
6,200.00	5,956.36	3,490.00	3,489.23	24.08	6.48	-55.76	-21.30	-12.84	2,650.84	2,630.41	20.44	129.720		
6,300.00	6,056.36	3,490.00	3,489.23	24.20	6.48	-55.76	-21.30	-12.84	2,743.43	2,722.80	20.63	132.988		
6,400.00	6,156.36	3,490.00	3,489.23	24.32	6.48	-55.76	-21.30	-12.84	2,836.52	2,815.69	20.82	136.213		
6,500.00	6,256.36	3,490.00	3,489.23	24.44	6.48	-55.76	-21.30	-12.84	2,930.06	2,909.04	21.02	139.395		
6,600.00	6,356.36	3,490.00	3,489.23	24.56	6.48	-55.76	-21.30	-12.84	3,024.02	3,002.80	21.22	142.532		
6,700.00	6,456.36	3,490.00	3,489.23	24.68	6.48	-55.76	-21.30	-12.84	3,118.35	3,096.93	21.41	145.623		
6,800.00	6,556.36	3,490.00	3,489.23	24.81	6.48	-55.76	-21.30	-12.84	3,213.02	3,191.41	21.61	148.669		
6,900.00	6,656.36	3,490.00	3,489.23	24.93	6.48	-55.76	-21.30	-12.84	3,308.01	3,286.20	21.81	151.668		
7,000.00	6,756.36	3,490.00	3,489.23	25.06	6.48	-55.76	-21.30	-12.84	3,403.29	3,381.28	22.01	154.621		
7,100.00	6,856.36	3,490.00	3,489.23	25.19	6.48	-55.76	-21.30	-12.84	3,498.83	3,476.62	22.21	157.529		
7,200.00	6,956.36	3,490.00	3,489.23	25.32	6.48	-55.76	-21.30	-12.84	3,594.61	3,572.20	22.41	160.390		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	ANADARKO PETROLEUM CORP.	Local Co-ordinate Reference:	Well NBU 922-32P3CS
Project:	UINTAH COUNTY, UTAH (nad 27)	TVD Reference:	WELL @ 5053.00ft (Original Well Elev)
Reference Site:	NBU 922-32O PAD	MD Reference:	WELL @ 5053.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	NBU 922-32P3CS	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	NBU 922-32P3CS	Database:	EDM 2003.21 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft	
Survey Program: 100-NS-GYRO-MS													Offset Well Error:		0.00 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre		Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
							+N/-S (ft)	+E/-W (ft)							
7,300.00	7,056.36	3,490.00	3,489.23	25.45	6.48	-55.76	-21.30	-12.84	3,690.62	3,668.00	22.61	163.206			
7,400.00	7,156.36	3,490.00	3,489.23	25.58	6.48	-55.76	-21.30	-12.84	3,786.83	3,764.01	22.82	165.977			
7,500.00	7,256.36	3,490.00	3,489.23	25.71	6.48	-55.76	-21.30	-12.84	3,883.23	3,860.21	23.02	168.703			
7,600.00	7,356.36	3,490.00	3,489.23	25.85	6.48	-55.76	-21.30	-12.84	3,979.81	3,956.59	23.22	171.385			
7,700.00	7,456.36	3,490.00	3,489.23	25.99	6.48	-55.76	-21.30	-12.84	4,076.56	4,053.14	23.43	174.024			
7,800.00	7,556.36	3,490.00	3,489.23	26.12	6.48	-55.76	-21.30	-12.84	4,173.46	4,149.83	23.63	176.619			
7,900.00	7,656.36	3,490.00	3,489.23	26.26	6.48	-55.76	-21.30	-12.84	4,270.50	4,246.67	23.83	179.173			
8,000.00	7,756.36	3,490.00	3,489.23	26.40	6.48	-55.76	-21.30	-12.84	4,367.68	4,343.64	24.04	181.684			
8,100.00	7,856.36	3,490.00	3,489.23	26.54	6.48	-55.76	-21.30	-12.84	4,464.98	4,440.73	24.25	184.155			
8,200.00	7,956.36	3,490.00	3,489.23	26.68	6.48	-55.76	-21.30	-12.84	4,562.40	4,537.95	24.45	186.585			
8,300.00	8,056.36	3,490.00	3,489.23	26.83	6.48	-55.76	-21.30	-12.84	4,659.92	4,635.27	24.66	188.976			
8,400.00	8,156.36	3,490.00	3,489.23	26.97	6.48	-55.76	-21.30	-12.84	4,757.55	4,732.69	24.87	191.328			
8,500.00	8,256.36	3,490.00	3,489.23	27.12	6.48	-55.76	-21.30	-12.84	4,855.28	4,830.21	25.07	193.642			
8,600.00	8,356.36	3,490.00	3,489.23	27.26	6.48	-55.76	-21.30	-12.84	4,953.10	4,927.82	25.28	195.918			
8,700.00	8,456.36	3,490.00	3,489.23	27.41	6.48	-55.76	-21.30	-12.84	5,051.00	5,025.51	25.49	198.158			
8,800.00	8,556.36	3,490.00	3,489.23	27.56	6.48	-55.76	-21.30	-12.84	5,148.98	5,123.28	25.70	200.361			
8,900.00	8,656.36	3,490.00	3,489.23	27.71	6.48	-55.76	-21.30	-12.84	5,247.04	5,221.13	25.91	202.529			
9,000.00	8,756.36	3,490.00	3,489.23	27.86	6.48	-55.76	-21.30	-12.84	5,345.17	5,319.06	26.12	204.662			
9,100.00	8,856.36	3,490.00	3,489.23	28.01	6.48	-55.76	-21.30	-12.84	5,443.37	5,417.05	26.33	206.762			
9,200.00	8,956.36	3,490.00	3,489.23	28.16	6.48	-55.76	-21.30	-12.84	5,541.64	5,515.10	26.54	208.828			
9,300.00	9,056.36	3,490.00	3,489.23	28.32	6.48	-55.76	-21.30	-12.84	5,639.96	5,613.21	26.75	210.861			
9,343.64	9,100.00	3,490.00	3,489.23	28.39	6.48	-55.76	-21.30	-12.84	5,682.89	5,656.05	26.84	211.739			

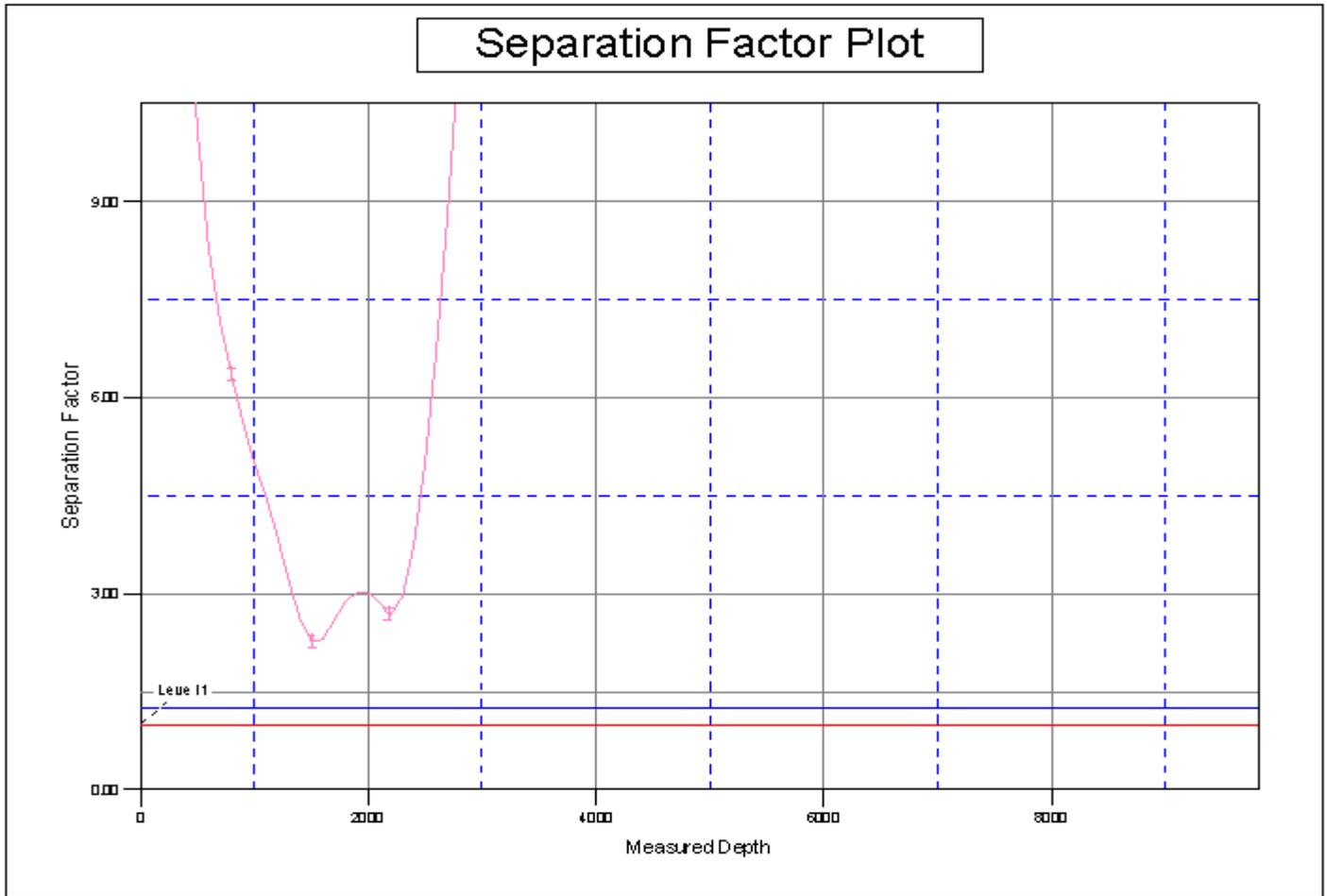
Company:	ANADARKO PETROLEUM CORP.	Local Co-ordinate Reference:	Well NBU 922-32P3CS
Project:	UINTAH COUNTY, UTAH (nad 27)	TVD Reference:	WELL @ 5053.00ft (Original Well Elev)
Reference Site:	NBU 922-32O PAD	MD Reference:	WELL @ 5053.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	NBU 922-32P3CS	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	NBU 922-32P3CS	Database:	EDM 2003.21 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 5053.00ft (Original Well Elev) Coordinates are relative to: NBU 922-32P3CS
 Offset Depths are relative to Offset Datum Coordinate System is Universal Transverse Mercator (US Survey Feet), Zone 12N
 Central Meridian is 111° 0' 0.000 W ° Grid Convergence at Surface is: 0.99°



Company:	ANADARKO PETROLEUM CORP.	Local Co-ordinate Reference:	Well NBU 922-32P3CS
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Reference Site:	NBU 922-32O PAD	MD Reference:	WELL @ 5053.00ft (Original Well Elev)
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Reference Wellbore	NBU 922-32P3CS	Database:	EDM 2003.21 Single User Db
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 Offset Depths are relative to Offset Datum Coordinate System is Universal Transverse Mercator (US Survey Feet), Zone 12N
 Central Meridian is 111° 0' 0.000 W ° Grid Convergence at Surface is: 0.99°



LEGEND

4.ACTUAL GYRO ,NBU404.ACTUAL GYRO \M



Weatherford®

Weatherford International, Ltd

2000 Oil Field Drive
Casper, Wyoming 82604 USA
+1.307.268-7900 Main
+1.307.235.3958 Fax
www.weatherford.com

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Well Planning Denver Office:

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Robert Scott

Email: robert.scott@weatherford.com

Paleontological Reconnaissance Survey Report

**Survey of Kerr McGee's Proposed Twin Wells "NBU #922-32AT,
#922-32IT, #922-32MT, #922-32OIT, #922-35IT, #922-36NT"
(Sec. 32, 35 & 36, T 9 S, R 22 E) & "NBU #1022-2A2T &
#1022-2JIT" (Sec. 2, T 10 S, R 22 E)**

Archy Bench
Topographic Quadrangle
Uintah County, Utah

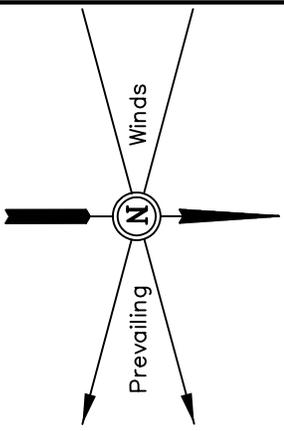
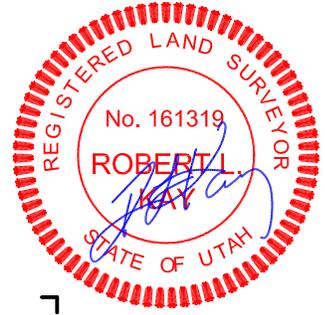
July 25, 2008

Prepared by Stephen D. Sandau
Paleontologist for
Intermountain Paleo-Consulting
P. O. Box 1125
Vernal, Utah 84078

Kerr McGee Oil & Gas Onshore LP

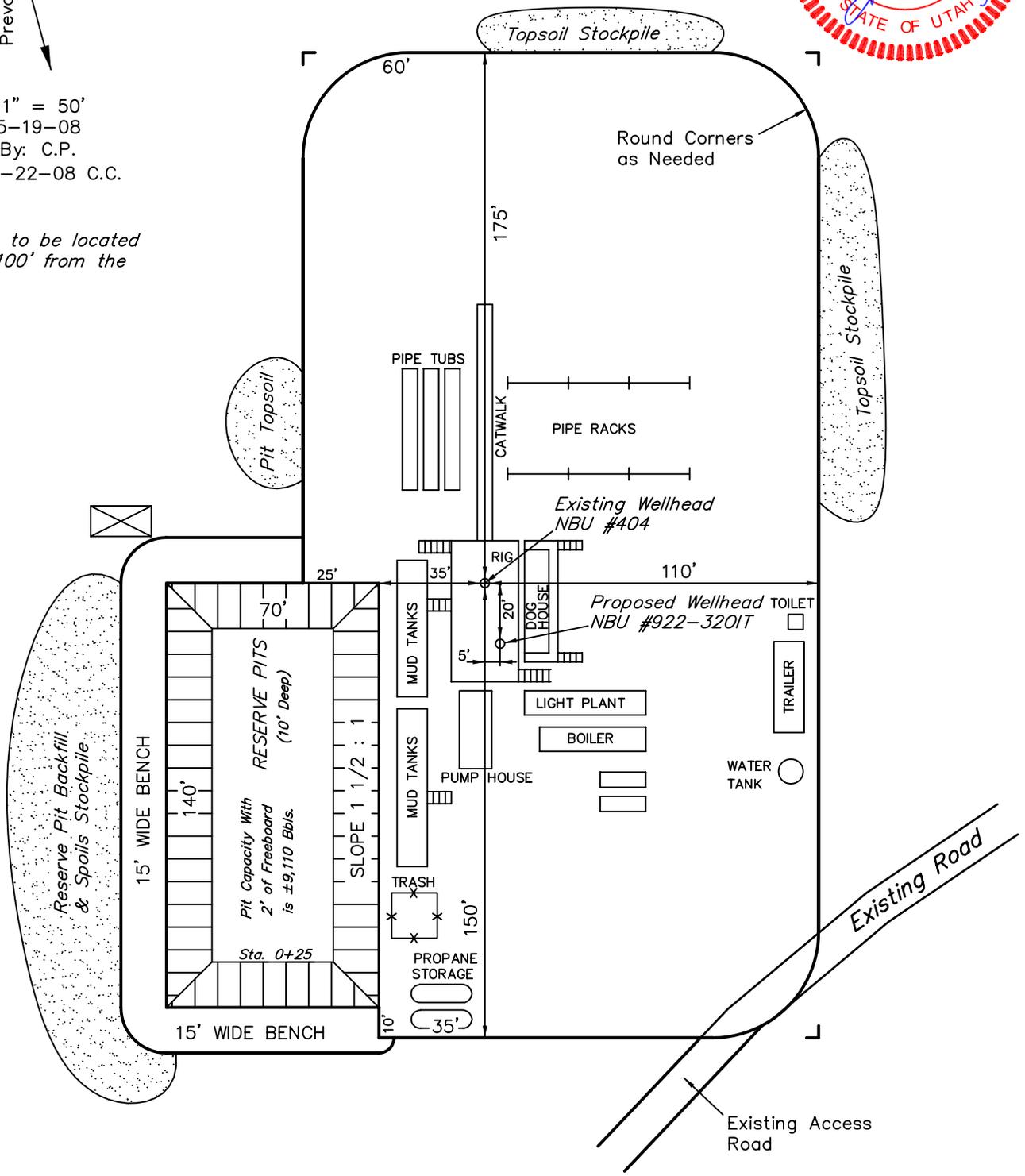
FIGURE #1

LOCATION LAYOUT FOR
 NBU #922-32P3CS
 SECTION 32, T9S, R22E, S.L.B.&M.
 900' FSL 1915' FEL



SCALE: 1" = 50'
 DATE: 5-19-08
 Drawn By: C.P.
 Revised: 09-22-08 C.C.

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

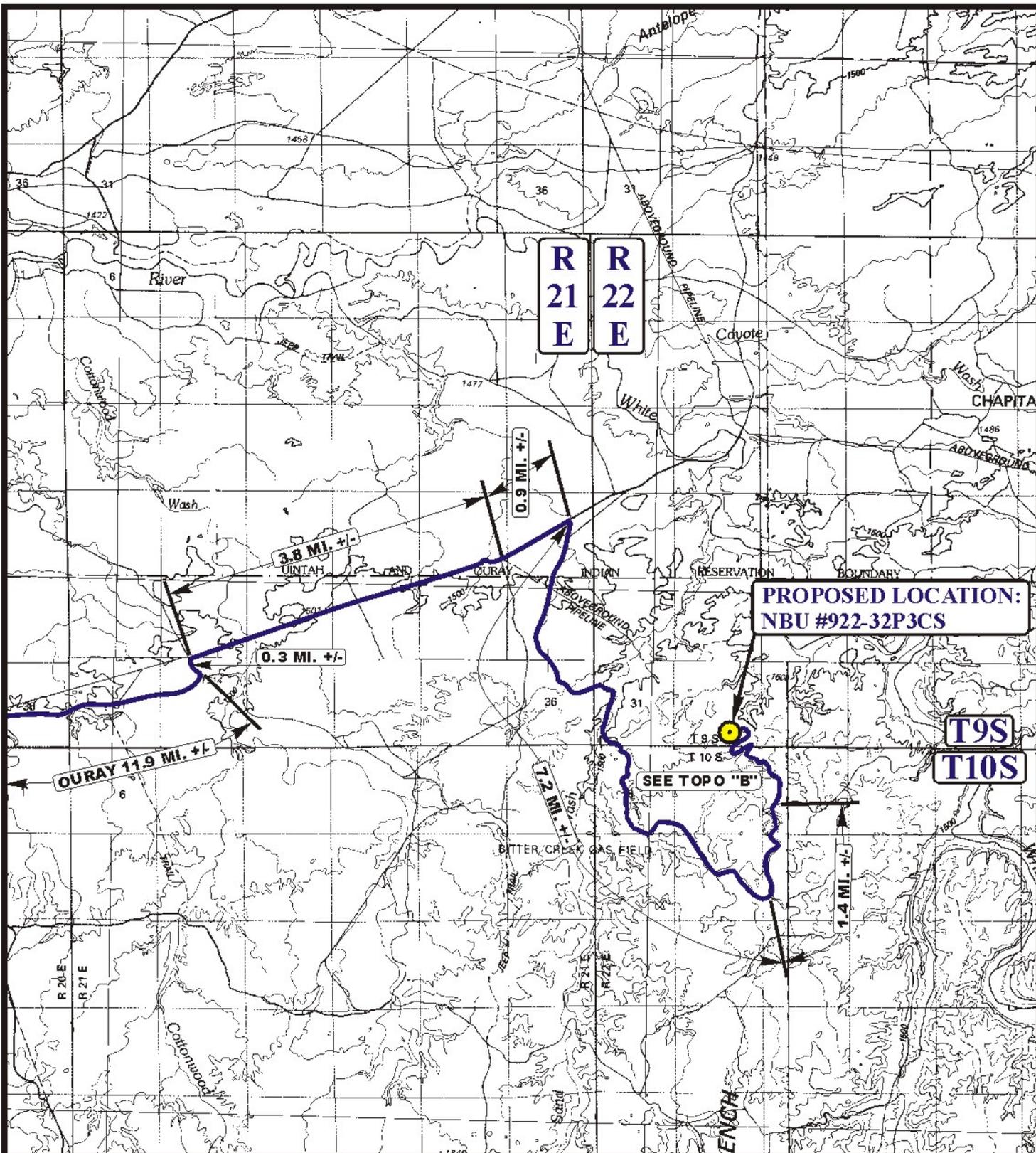


NOTES:

FINISHED GRADE ELEV. AT LOC. STAKE = 5033.4'

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

RECEIVED July 15, 2009



**PROPOSED LOCATION:
NBU #922-32P3CS**

LEGEND:

PROPOSED LOCATION

Kerr-McGee Oil & Gas Onshore LP

**NBU #922-32P3CS
SECTION 32, T9S, R22E, S.L.B.&M.
900' FSL 1915' FEL**



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

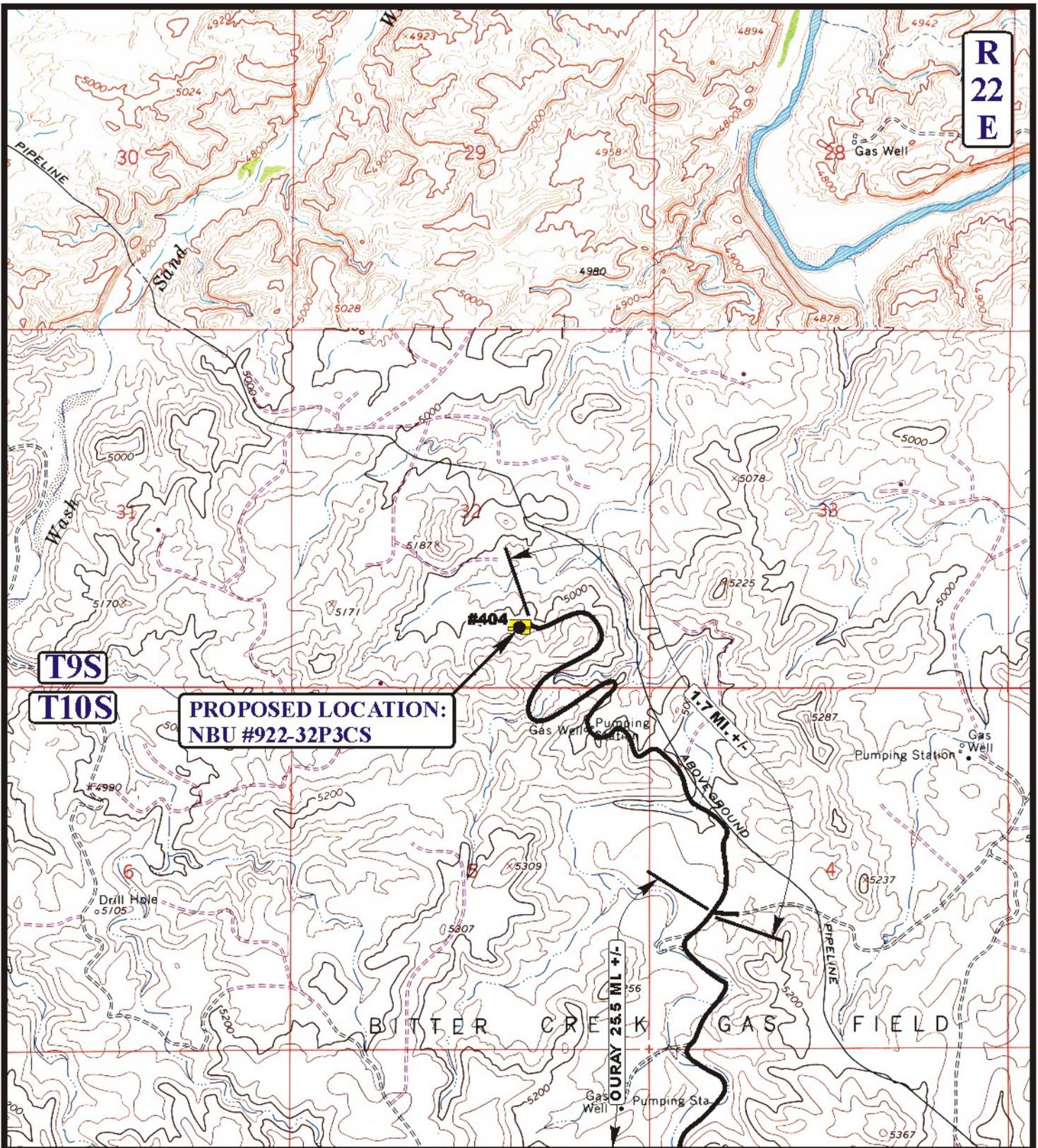


**TOPOGRAPHIC
MAP**

05 19 08
MONTH DAY YEAR

SCALE: 1:100,000 DRAWN BY: C.P. REV: 09-22-08 C.C.





LEGEND:

— EXISTING ROAD

Kerr-McGee Oil & Gas Onshore LP

NBU #922-32P3CS
SECTION 32, T9S, R22E, S.L.B.&M.
900' FSL 1915' FEL



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

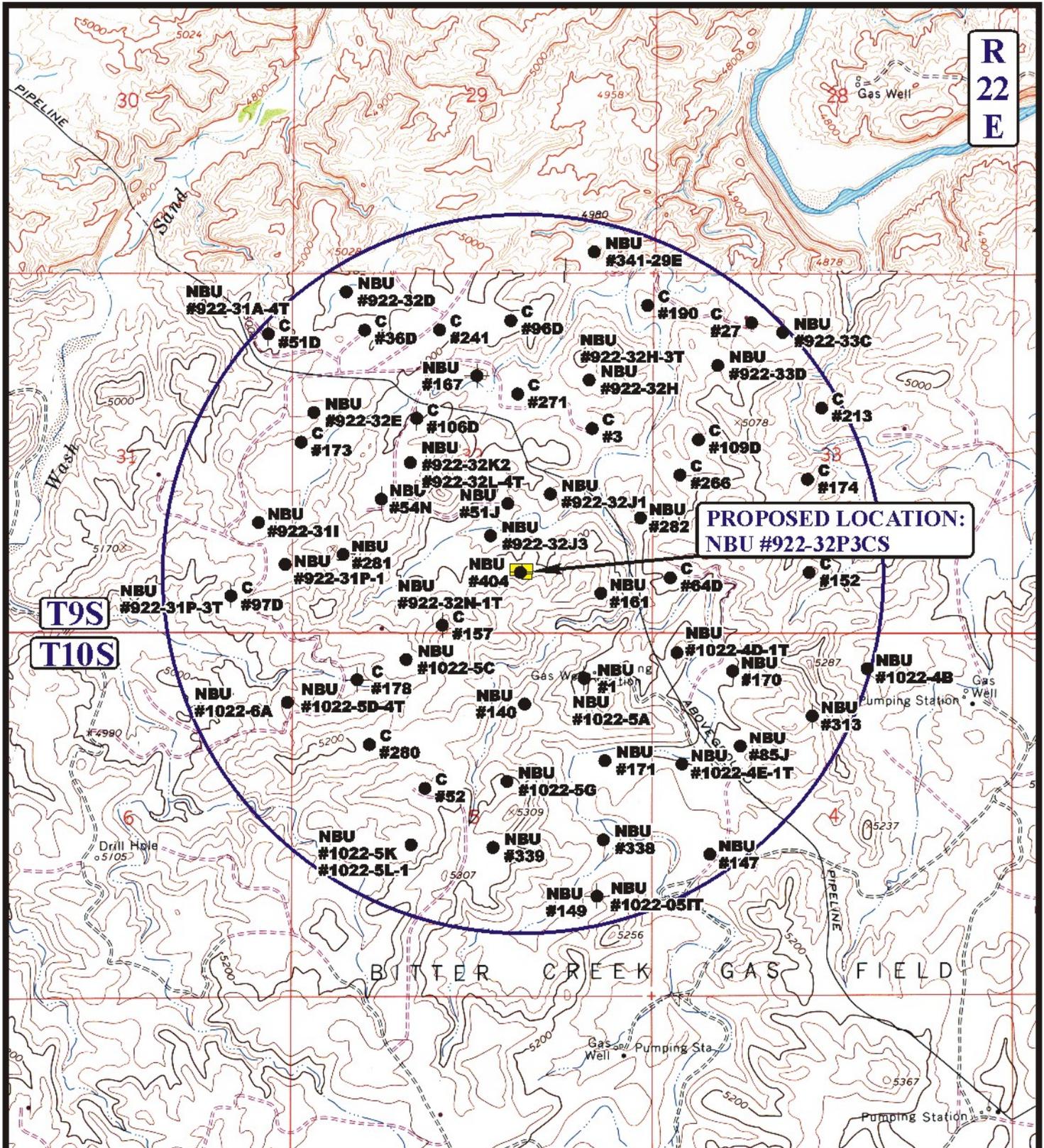


TOPOGRAPHIC 05 19 08
MAP MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: C.P. REV: 09-22-08 C.C.



R
22
E



PROPOSED LOCATION:
NBU #922-32P3CS

LEGEND:

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

Kerr-McGee Oil & Gas Onshore LP

NBU #922-32P3CS
SECTION 32, T9S, R22E, S.L.B.&M.
900' FSL 1915' FEL



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



TOPOGRAPHIC

05 19 08
MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: C.P. REV: 09-22-08 C.C.



Kerr-McGee Oil & Gas Onshore LP

NBU #922-32P3CS

LOCATED IN Uintah COUNTY, UTAH
SECTION 32, T9S, R22E, S.L.B.&M.

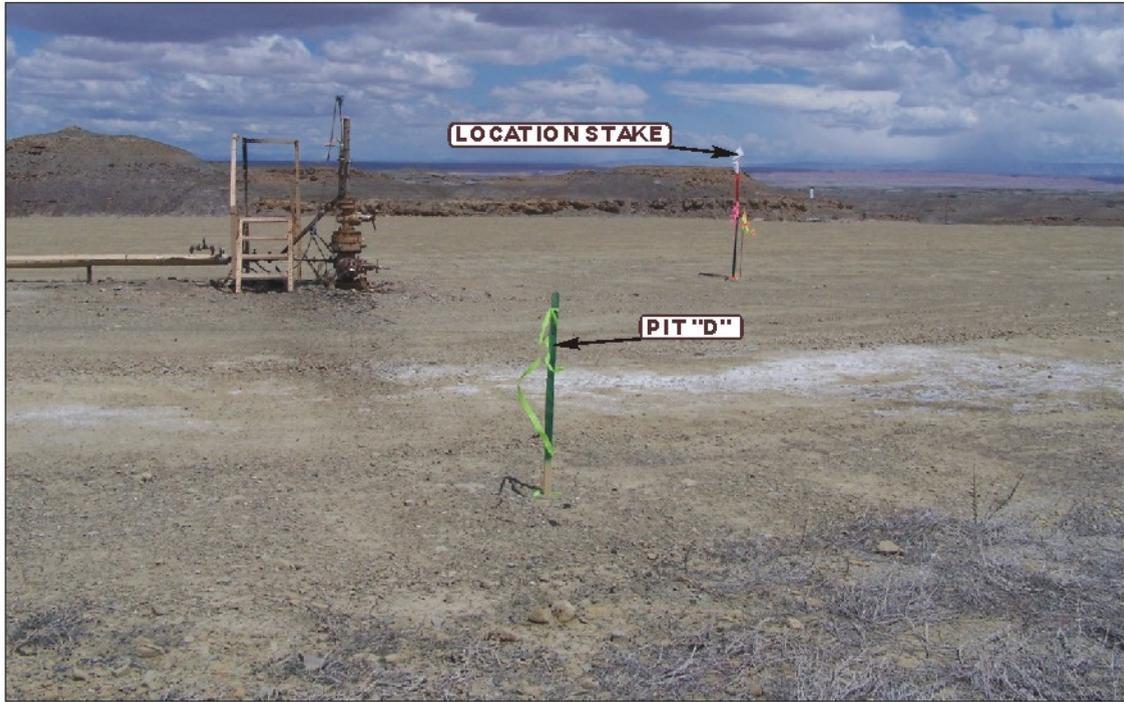


PHOTO: VIEW FROM PIT "D" TO LOCATION STAKE

CAMERA ANGLE: NORTHERLY



PHOTO: VIEW OF EXISTING ACCESS

CAMERA ANGLE: SOUTHEASTERLY



- Since 1964 -

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

LOCATION PHOTOS	05	19	08	PHOTO
RECEIVED	MONTH	DAY	YEAR	
TAKEN BY: D.K.	July 15, 2009			
DRAWN BY: C.P.				
			REV: 09-22-08 C.C.	

Kerr-McGee Oil & Gas Onshore LP
NBU #922-32P3CS
SECTION 31, T9S, R22E, S.L.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF STATE HIGHWAY 88; EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 17.0 MILES TO OURAY, UTAH; PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 6.9 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN LEFT AND PROCEED IN A SOUTHEASTERLY, THEN EASTERLY DIRECTION APPROXIMATELY 5.0 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST; TURN LEFT AND PROCEED IN A NORTHWESTERLY DIRECTION APPROXIMATELY 0.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; TURN RIGHT AND PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 3.9 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 0.9 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN RIGHT AND PROCEED IN A SOUTHWESTERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 4.1 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 0.35 MILES TO THE BEGINNING OF THE PROPOSED ACCESS TO THE NORTHEAST; FOLLOW ROAD FLAGS IN A NORTHEASTERLY, THEN NORTHWESTERLY, THEN EASTERLY DIRECTION APPROXIMATELY 0.35 MILES TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 52.4 MILES.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: ML-22649
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 922-32P3CS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047401160000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6007 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0900 FSL 1915 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 32 Township: 09.0S Range: 22.0E Meridian: S	9. FIELD and POOL or WILDCAT: NATURAL BUTTES COUNTY: UINTAH STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 11/4/2009	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: <input type="text" value="Frac Factory Pit and Re"/>

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

Kerr-McGee Oil & Gas Onshore, LP is requesting to refurb the existing pit on this well pad for completion operations. The refurb pit will be relined per the requirements in the COA of the APD. Upon completion of the wells on this pad, Kerr-McGee is also requesting to utilize this pit as a Frac Factory staging pit to be utilized for other completion operations in the area. There will be a 2-400 bbl upright skim tanks placed on the location. The trucks will unload water into these tanks before the water is placed into the refurbished pit. The purpose of the skim tanks is to collect any hydro-carbons that may have been associated with the other completion operations before releasing into the pit. We plan to keep this pit open for 1 year. During this time the surrounding well location completion fluids will be recycled in this pit and utilized for other frac jobs in the area. Thank you.

Approved by the Utah Division of Oil, Gas and Mining

Date: November 05, 2009

By:

NAME (PLEASE PRINT) Danielle Piernot	PHONE NUMBER 720 929-6156	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 11/3/2009	



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 43047401160000

A synthetic liner with a minimum thickness of 30 mils shall be properly installed and maintained in the pit.

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

Date: November 05, 2009

By: 

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: ML-22649
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3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6007 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0900 FSL 1915 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 32 Township: 09.0S Range: 22.0E Meridian: S	9. FIELD and POOL or WILDCAT: NATURAL BUTTES COUNTY: UINTAH STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 1/14/2010	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: _____

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

FINISHED DRILLING FROM 2418' TO 9265' ON 1/12/2010. RAN 4-1/2" 11.6# I-80 PRODUCTION CSG. PUMP 40 BBL WATER SPACER. LEAD CMT W/459 SX CLASS G PREM LITE @ 11.6 PPG, 2.62 YIELD. TAILED CMT W/1369 SX CLASS G 50/50 POZ MIX @ 14.3 PPG, 1.31 YIELD. DROP PLUG AND DISPLACE W/143 BBLs CLAYTREAT WATER. BUMP PLUG @ 3350 PSI, FINAL LIFT 2800 PSI, 38 BBL LEAD CMT BACK TO PIT. CASING LANDED @ 65 K. WASH OUT STACK, R/D CEMENTERS, INSTALL PACK OFF & TEST TO 5000 PSI. N/D BOP. RELEASE PIONEER 69 RIG AT 07:00 HRS ON 01/14/2010.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 January 19, 2010

NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A		DATE 1/14/2010

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: ML-22649
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2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047401160000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6007 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0900 FSL 1915 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 32 Township: 09.0S Range: 22.0E Meridian: S	9. FIELD and POOL or WILDCAT: NATURAL BUTTES COUNTY: UINTAH STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 2/1/2010	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input checked="" type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: _____

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

THE SUBJECT WELL WAS PLACED ON PRODUCTION ON 2/1/2010 AT 12:00 P.M. THE CHRONOLOGICAL WELL REPORT WILL BE SUBMITTED WITH THE WELL COMPLETION REPORT.

Accepted by the
 Utah Division of
 Oil, Gas and Mining
FOR RECORD ONLY
 February 02, 2010

NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A		DATE 2/1/2010

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

AMENDED REPORT FORM 8
(highlight changes)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. LEASE DESIGNATION AND SERIAL NUMBER:
ML-22649

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT or CA AGREEMENT NAME
UTU63047A

8. WELL NAME and NUMBER:
NBU 922-32P3CS

9. API NUMBER:
4304740116

10. FIELD AND POOL, OR WILDCAT
NATURAL BUTTES

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
SWSE 32 9S 22E

12. COUNTY
UINTAH

13. STATE
UTAH

1a. TYPE OF WELL: OIL WELL GAS WELL DRY OTHER _____

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

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

3. ADDRESS OF OPERATOR: P.O. BOX 173779 CITY **DENVER** STATE **CO** ZIP **80217** PHONE NUMBER: **(720) 929-6100**

4. LOCATION OF WELL (FOOTAGES)
AT SURFACE: **SWSE 900 FSL & 1915 FEL**
AT TOP PRODUCING INTERVAL REPORTED BELOW: **SESE 316 FSL & 1086 FEL SEC.32-9S-22E**
AT TOTAL DEPTH: **SESE 291 FSL & 1084 FEL SEC.32-9S-22E**

14. DATE SPUDDED: **9/22/2008** 15. DATE T.D. REACHED: **1/12/2010** 16. DATE COMPLETED: **2/1/2010** ABANDONED READY TO PRODUCE

17. ELEVATIONS (DF, RKB, RT, GL):
5033' GL

18. TOTAL DEPTH: MD **9,265** TVD **9,105** 19. PLUG BACK T.D.: MD **9,203** TVD **9,043** 20. IF MULTIPLE COMPLETIONS, HOW MANY? *

21. DEPTH BRIDGE MD PLUG SET: TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)
CBL/GR-HDILTZDL/CN

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#		2,371		700			
7 7/8"	4 1/2 I-80	11.6#		9,247		1828		0	

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"	8,587							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
(A) MESAVERDE	7,196	9,083			7,196 9,083	0.36	280	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(B)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(C)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(D)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

27. PERFORATION RECORD

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

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
7,196-9,083	PMP 10,565 BBLs SLICK H2O & 417,194 LBS 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 RECEIVED

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 2/1/2010		TEST DATE: 2/3/2010		HOURS TESTED: 24		TEST PRODUCTION RATES: →		OIL – BBL: 0	GAS – MCF: 2,664	WATER – BBL: 260	PROD. METHOD: FLOWING
CHOKE SIZE: 20/64	TBG. PRESS. 2,457	CSG. PRESS. 3,035	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL: 0	GAS – MCF: 2,664	WATER – BBL: 260	INTERVAL STATUS: PROD	

INTERVAL B (As shown in item #26)

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

INTERVAL C (As shown in item #26)

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

INTERVAL D (As shown in item #26)

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

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

SOLD

33. SUMMARY OF POROUS ZONES (Include Aquifers):

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

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
GREEN RIVER	1,268				
MAHOGANY	1,940				
WASATCH	4,541	7,209			
MESAVERDE	7,216	9,255			

35. ADDITIONAL REMARKS (Include plugging procedure)

ATTACHED TO THIS COMPLETION REPORT IS THE CHRONOLOGICAL WELL HISTORY AND EOWR.

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

NAME (PLEASE PRINT) ANDY LYTLETITLE REGULATORY ANALYSTSIGNATURE DATE 3/1/2010

This report must be submitted within 30 days of

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

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

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

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

Phone: 801-538-5340

Fax: 801-359-3940



Scientific Drilling
Rocky Mountain Operations

Kerr McGee Oil and Gas Onshore LP

Uintah County, UT UTM12
NBU 922-32P3CS Pad
NBU 922-32P3CS
OH

Design: OH

Standard Survey Report

26 January, 2010



Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 922-32P3CS Pad
Well: NBU 922-32P3CS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 922-32P3CS
TVD Reference: GL 5033' & RKB 18' @ 5051.00ft (Pioneer 69)
MD Reference: GL 5033' & RKB 18' @ 5051.00ft (Pioneer 69)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Multi-User Db

Project	Uintah County, UT UTM12		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 - Western US		
Map Zone:	Zone 12N (114 W to 108 W)		

Site	NBU 922-32P3CS Pad, Sec 32 T9S R22E				
Site Position:	Northing:	14,525,311.07 ft	Latitude:	39° 59' 15.940 N	
From:	Lat/Long	Easting:	2,071,637.75 ft	Longitude:	109° 27' 37.990 W
Position Uncertainty:	0.00 ft	Slot Radius:	in	Grid Convergence:	0.99 °

Well	NBU 922-32P3CS, 900' FSL & 1915' FEL					
Well Position	+N/-S	0.00 ft	Northing:	14,525,311.07 ft	Latitude:	39° 59' 15.940 N
	+E/-W	0.00 ft	Easting:	2,071,637.75 ft	Longitude:	109° 27' 37.990 W
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft	Ground Level:	5,033.00 ft	

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2005-10	12/28/2009	11.23	65.91	52,503

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	18.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	18.00	0.00	0.00	142.66	

Survey Program	Date	1/26/2010			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
118.00	2,158.00	Survey #1 - Surface Gyro (OH)	NS-GYRO-MS	North sensing gyrocompassing m/s	
2,400.00	9,265.00	Survey #2 - Production (OH)	MWD SDI	MWD - Standard ver 1.0.1	

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
18.00	0.00	0.00	18.00	0.00	0.00	0.00	0.00	0.00	0.00
118.00	0.25	197.50	118.00	-0.21	-0.07	0.13	0.25	0.25	0.00
318.00	0.25	128.16	318.00	-0.89	0.15	0.80	0.14	0.00	-34.67
418.00	0.25	137.98	418.00	-1.19	0.46	1.23	0.04	0.00	9.82
518.00	0.25	154.81	518.00	-1.55	0.70	1.66	0.07	0.00	16.83
618.00	0.25	160.64	618.00	-1.95	0.87	2.08	0.03	0.00	5.83
718.00	0.25	146.47	717.99	-2.34	1.06	2.50	0.06	0.00	-14.17
818.00	0.50	137.30	817.99	-2.84	1.48	3.16	0.26	0.25	-9.17
918.00	0.50	155.13	917.99	-3.56	1.96	4.02	0.15	0.00	17.83
1,018.00	0.50	159.96	1,017.98	-4.37	2.29	4.86	0.04	0.00	4.83
1,118.00	0.50	158.79	1,117.98	-5.18	2.60	5.70	0.01	0.00	-1.17
1,218.00	0.75	131.62	1,217.98	-6.02	3.24	6.76	0.38	0.25	-27.17

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 922-32P3CS Pad
Well: NBU 922-32P3CS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 922-32P3CS
TVD Reference: GL 5033' & RKB 18' @ 5051.00ft (Pioneer 69)
MD Reference: GL 5033' & RKB 18' @ 5051.00ft (Pioneer 69)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Multi-User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
1,318.00	0.50	159.45	1,317.97	-6.87	3.89	7.82	0.39	-0.25	27.83
1,418.00	0.25	150.28	1,417.97	-7.47	4.15	8.45	0.26	-0.25	-9.17
1,518.00	0.25	97.10	1,517.97	-7.68	4.47	8.82	0.22	0.00	-53.18
1,618.00	0.25	133.08	1,617.97	-7.86	4.85	9.19	0.15	0.00	35.98
1,718.00	0.25	123.91	1,717.96	-8.13	5.19	9.61	0.04	0.00	-9.17
1,818.00	0.25	104.74	1,817.96	-8.31	5.58	9.99	0.08	0.00	-19.17
1,918.00	1.00	124.57	1,917.96	-8.86	6.51	10.99	0.77	0.75	19.83
2,018.00	1.25	143.40	2,017.94	-10.23	7.88	12.91	0.44	0.25	18.83
2,118.00	1.25	145.33	2,117.91	-12.00	9.15	15.09	0.04	0.00	1.93
2,158.00	1.25	139.36	2,157.90	-12.69	9.68	15.96	0.33	0.00	-14.92
2,400.00	2.02	152.74	2,399.80	-18.48	13.36	22.80	0.35	0.32	5.53
2,495.00	2.65	140.01	2,494.73	-21.66	15.53	26.64	0.86	0.66	-13.40
2,589.00	6.11	117.76	2,588.44	-25.65	21.36	33.35	4.03	3.68	-23.67
2,684.00	8.51	121.10	2,682.66	-31.64	31.85	44.47	2.56	2.53	3.52
2,779.00	10.16	124.83	2,776.40	-40.06	44.75	58.99	1.85	1.74	3.93
2,874.00	13.29	122.73	2,869.41	-50.75	60.82	77.24	3.32	3.29	-2.21
2,969.00	15.16	123.67	2,961.49	-63.54	80.34	99.25	1.98	1.97	0.99
3,063.00	17.89	126.81	3,051.60	-79.01	102.14	124.77	3.05	2.90	3.34
3,158.00	19.00	127.32	3,141.72	-97.13	126.12	153.72	1.18	1.17	0.54
3,253.00	19.85	124.81	3,231.32	-115.71	151.66	183.99	1.25	0.89	-2.64
3,348.00	20.51	126.85	3,320.48	-134.90	178.22	215.35	1.02	0.69	2.15
3,443.00	22.00	126.92	3,409.02	-155.57	205.77	248.50	1.57	1.57	0.07
3,538.00	20.43	121.48	3,497.59	-174.92	234.14	281.09	2.65	-1.65	-5.73
3,633.00	20.13	122.02	3,586.70	-192.25	262.14	311.85	0.37	-0.32	0.57
3,728.00	18.88	119.18	3,676.25	-208.41	289.42	341.25	1.65	-1.32	-2.99
3,823.00	19.72	122.83	3,765.91	-224.59	316.31	370.42	1.55	0.88	3.84
3,917.00	19.09	125.16	3,854.57	-242.04	342.20	400.00	1.06	-0.67	2.48
4,013.00	21.78	131.84	3,944.53	-262.97	368.31	432.48	3.70	2.80	6.96
4,108.00	19.83	124.49	4,033.35	-283.86	394.73	465.11	3.43	-2.05	-7.74
4,202.00	22.18	128.37	4,121.10	-303.90	421.79	497.46	2.90	2.50	4.13
4,297.00	23.98	128.36	4,208.50	-327.02	450.99	533.55	1.89	1.89	-0.01
4,392.00	22.00	124.92	4,295.95	-349.19	480.72	569.21	2.52	-2.08	-3.62
4,487.00	22.76	127.91	4,383.80	-370.66	509.81	603.93	1.44	0.80	3.15
4,582.00	21.62	126.68	4,471.76	-392.41	538.35	638.53	1.30	-1.20	-1.29
4,676.00	21.62	125.45	4,559.15	-412.80	566.34	671.72	0.48	0.00	-1.31
4,772.00	20.36	126.19	4,648.77	-432.92	594.23	704.63	1.34	-1.31	0.77
4,866.00	18.67	126.86	4,737.37	-451.60	619.46	734.79	1.81	-1.80	0.71
4,961.00	20.06	122.78	4,827.00	-469.54	645.33	764.75	2.04	1.46	-4.29
5,056.00	18.59	123.90	4,916.64	-486.81	671.60	794.41	1.60	-1.55	1.18
5,151.00	16.51	122.48	5,007.22	-502.51	695.56	821.42	2.24	-2.19	-1.49
5,245.00	14.80	120.89	5,097.73	-515.84	717.13	845.11	1.88	-1.82	-1.69
5,340.00	14.11	122.58	5,189.72	-528.31	737.30	867.25	0.85	-0.73	1.78
5,435.00	12.91	122.87	5,282.09	-540.30	755.97	888.12	1.27	-1.26	0.31
5,530.00	11.76	119.95	5,374.90	-550.90	773.27	907.03	1.38	-1.21	-3.07
5,624.00	9.49	132.64	5,467.29	-560.93	787.28	923.51	3.45	-2.41	13.50
5,719.00	6.52	137.90	5,561.36	-570.24	796.66	936.60	3.22	-3.13	5.54
5,814.00	4.99	146.65	5,655.88	-577.70	802.55	946.09	1.85	-1.61	9.21
5,909.00	6.17	144.92	5,750.42	-585.32	807.75	955.32	1.25	1.24	-1.82
6,004.00	3.81	150.15	5,845.06	-592.24	812.26	963.55	2.53	-2.48	5.51
6,098.00	2.23	128.67	5,938.93	-596.09	815.24	968.42	2.04	-1.68	-22.85
6,193.00	1.81	90.79	6,033.87	-597.27	818.18	971.14	1.44	-0.44	-39.87
6,288.00	1.77	43.65	6,128.83	-596.23	820.70	971.84	1.51	-0.04	-49.62
6,383.00	1.69	48.44	6,223.79	-594.24	822.76	971.50	0.17	-0.08	5.04
6,478.00	1.54	53.32	6,318.75	-592.54	824.83	971.42	0.21	-0.16	5.14

Company: Kerr McGee Oil and Gas Onshore LP
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Design: OH

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Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
6,572.00	1.97	39.66	6,412.71	-590.55	826.87	971.07	0.64	0.46	-14.53
6,668.00	1.01	12.19	6,508.67	-588.45	828.10	970.15	1.22	-1.00	-28.61
6,762.00	0.72	5.19	6,602.66	-587.05	828.33	969.17	0.33	-0.31	-7.45
6,951.00	0.55	6.99	6,791.65	-584.97	828.55	967.65	0.09	-0.09	0.95
7,141.00	0.12	174.80	6,981.65	-584.26	828.68	967.17	0.35	-0.23	88.32
7,331.00	0.47	180.70	7,171.65	-585.24	828.69	967.95	0.18	0.18	3.11
7,521.00	0.67	112.77	7,361.64	-586.45	829.70	969.53	0.35	0.11	-35.75
7,711.00	0.84	343.90	7,551.63	-585.54	830.34	969.19	0.72	0.09	-67.83
7,901.00	0.17	347.43	7,741.62	-583.93	829.89	967.64	0.35	-0.35	1.86
8,090.00	0.56	243.93	7,930.62	-584.06	829.00	967.20	0.33	0.21	-54.76
8,280.00	0.86	176.10	8,120.61	-585.89	828.27	968.21	0.44	0.16	-35.70
8,470.00	0.94	168.20	8,310.58	-588.84	828.68	970.81	0.08	0.04	-4.16
8,659.00	1.25	184.98	8,499.55	-592.41	828.82	973.73	0.23	0.16	8.88
8,849.00	1.55	170.46	8,689.49	-597.01	829.07	977.53	0.24	0.16	-7.64
9,038.00	1.54	168.44	8,878.42	-602.02	830.00	982.08	0.03	-0.01	-1.07
9,200.00	1.97	171.49	9,040.35	-606.90	830.85	986.48	0.27	0.27	1.88
9,265.00	1.97	171.49	9,105.31	-609.11	831.18	988.44	0.00	0.00	0.00

Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
NBU 922-32P3CS PBHL - actual wellpath misses target center by 14.24ft at 9262.20ft MD (9102.51 TVD, -609.02 N, 831.16 E) - Circle (radius 25.00)	0.00	0.00	9,103.00	-594.87	829.63	14,524,730.62	2,072,477.53	39° 59' 10.060 N	109° 27' 27.330 W
NBU 922-32P3CS PBHL - actual wellpath misses target center by 14.24ft at 9262.20ft MD (9102.51 TVD, -609.02 N, 831.16 E) - Circle (radius 75.00)	0.00	0.00	9,103.00	-594.87	829.63	14,524,730.62	2,072,477.53	39° 59' 10.060 N	109° 27' 27.330 W

Checked By: _____ Approved By: _____ Date: _____

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 922-32P3CS

Spud Date: 9/24/2008

Project: UTAH-UINTAH

Site: NBU 404 PAD

Rig Name No: PIONEER 69/69, PROPETRO/

Event: DRILLING

Start Date: 9/22/2008

End Date: 1/14/2010

Active Datum: RKB @5,051.00ft (above Mean Sea Level)

UWI: 0/9/S/22/E/32/0/SWSE/6/PM/S/900.00/E/0/1,915.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
9/24/2008	21:00 - 0:00	3.00	DRLSUR	02		P		MOVE IN AND RIG UP AIR RIG SPUD WELL @ 2100 HR 9/24/08 DA AT REPORT TIME 390'
9/25/2008	0:00 - 12:00	12.00	DRLSUR	02		P		RIG DRILLING AHEAD NO WATER 1020'
	12:00 - 0:00	12.00	DRLSUR	02		P		RIG DRILLING AHEAD NO WATER 1440'
9/26/2008	0:00 - 12:00	12.00	DRLSUR	02		P		RIG DRILLING AHEAD CIRCULATING WITH SKID PUMP 1690'
	12:00 - 0:00	12.00	DRLSUR	02		P		RIG DRILLING AHEAD CIRCULATING WITH SKID PUMP 1950'
9/27/2008	0:00 - 12:00	12.00	DRLSUR	02		P		RIG DRILLING AHEAD CIRCULATING WITH SKID PUMP 2160'
	12:00 - 0:00	12.00	DRLSUR	02		P		RIG DRILLING AHEAD CIRCULATING WITH SKID PUMP 2370'
9/28/2008	0:00 - 6:00	6.00	DRLSUR	02		P		RIG T/D @ 2400' CONDITION HOLE 1 HR
	6:00 - 9:00	3.00	DRLSUR	06		P		TRIP DP OUT OF HOLE
	9:00 - 12:00	3.00	DRLSUR	12		P		RUN 2353' OF 9 5/8 CSG AND RIG DOWN AIR RIG
	12:00 - 13:00	1.00	DRLSUR	12		P		CEMENT 1ST STAGE WITH 350 SKS TAIL @ 15.8# 1.15 5.0 GAL/SK NO RETURNS TO PIT + - 50 PSI LIFT
	13:00 - 13:30	0.50	DRLSUR	12		P		1ST TOP JOB 100 SKS DOWN BS WOC
	13:30 - 15:30	2.00	DRLSUR	12		P		2ND TOP JOB 125 SKS DOWN BS WOC
	15:30 - 17:30	2.00	DRLSUR	12		P		3RD TOP JOB 125 SKS DOWN BS GOOD CMT TO SURFACE AND STAYED AT SURFACE
	17:30 - 17:30	0.00	DRLSUR					NO VISIBLE LEAKS PIT HAD 4 FEET IN IT WORT
1/3/2010	12:00 - 18:00	6.00	DRLPRO	01	E	P		RDRT
	18:00 - 0:00	6.00	DRLPRO	21	C	P		WAIT ON DAYLIGHT
1/4/2010	0:00 - 7:00	7.00	DRLPRO	21	C	P		WAIT ON DAYLIGHT
	7:00 - 17:00	10.00	DRLPRO	01	A	P		MIRU ON NBU 922-32P3CS, 10 MILES, 6 BED & 6 HAUL TRUCKS, 2 FORKLIFTS & CRANE, 2 GRADERS, F/ 07:00 TO 17:00
	17:00 - 0:00	7.00	DRLPRO	01	B	P		RURT, STRING UP TO 10 LINES
1/5/2010	0:00 - 6:00	6.00	DRLPRO	08	A	P		RESTRING UP TO 10 LINES
	6:00 - 8:00	2.00	DRLPRO	09	A	P		CUT & SLIP 200' BAD DRLG LINE
	8:00 - 16:00	8.00	DRLPRO	01	B	P		R/U, RAISE DERRICK, R/U FLOOR,P/U KELLY & SWIVEL
	16:00 - 22:30	6.50	DRLPRO	14	A	P		N/U BOPE CHANGE OUT BOTTOM ADEPTER TO FMC HEAD
	22:30 - 0:00	1.50	DRLPRO	15	A	P		TEAT BOPE, RAMS & ALL VALVES TO 250 LOW, 5000 HIGH, ANN 2500, CASING 1500 F/ 15 MINS
1/6/2010	0:00 - 3:30	3.50	DRLPRO	15	A	P		FINISH TESTING, INSTALL WEAR BUSHING
	3:30 - 11:30	8.00	DRLPRO	06	A	P		SAFETY MEETING W/ RIG CREW & KIMZEY P/U CREW ,R/U & P/U BIT,MM,DIR TOOLS, OREINTATE BHA,39 JTS DP TO 2244',R/D KIMZEY RIG SERVICE
	11:30 - 12:00	0.50	DRLPRO	07	A	P		
	12:00 - 23:30	11.50	DRLPRO	08	A	Z		WORK ON ROTARY MOTOR ,BUILD & INSTALL NEW WIRING HARNESS F/ ROTARY MOTOR TO DRILLER CONSOLE
	23:30 - 0:00	0.50	DRLPRO	23		P		INSTALL ROT RUBBER,KELLY DRIVE BUSHINGS, PRESPUD,PREPARE TO DRILL CEMENT & F.E
1/7/2010	0:00 - 1:00	1.00	DRLPRO	02	F	P		PRESPUD INSPECTION,DRILL 20' CEMENT
	1:00 - 11:00	10.00	DRLPRO	08	A	Z		SHEARED FLANGE OFF OF HUB ON ROTARY MOTOR TAIL SHAFT, WAIT ON MACHANIC,REPLACE HUB

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 922-32P3CS

Spud Date: 9/24/2008

Project: UTAH-UINTAH

Site: NBU 404 PAD

Rig Name No: PIONEER 69/69, PROPETRO/

Event: DRILLING

Start Date: 9/22/2008

End Date: 1/14/2010

Active Datum: RKB @5,051.00ft (above Mean Sea Level)

UWI: 0/9/S/22/E/32/0/SWSE/6/PM/S/900.00/E/0/1,915.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	11:00 - 11:30	0.50	DRLPRO	07	A	P		RIG SERVICE
	11:30 - 14:00	2.50	DRLPRO	02	F	P		DRILL CMT F.E & OPEN HOLE
	14:00 - 0:00	10.00	DRLPRO	02	D	P		SPUD @ 14:00 1/7/2010 ,DRILL,SLIDE,SURVEY F/ 2418' TO 3100'(682' 68.2 FPH) WOB 18-20,RPM 50,MM RPM 98,SPM 125,GPM473,PU/SO/ROT 90-82-85 ,ON/OFF BTM 1220-1050 ,DIFF100-275 , SLIDE 2465-2475,2496-2506,2528-2543,2560-2575,2591-2601,2623-2633,2654-2664,2718-2726,2749-2757,2781-2793,2812-2822,2844-2854,2876-2886,2907-2917, 2939-2947,2971-2981,3002-3012,3034-3046,3065-3077 , CIRC RESERVE PIT W/ GEL & POLY SWEEPS
1/8/2010	0:00 - 14:30	14.50	DRLPRO	02	D	P		DRILL SLIDE SURVEY F/ 3100' TO 4078' ,978' 67.4 FPH,WOB ROT 18-20,SLIDING 8-14,RPM 50,MMRPM 98,SPM125,GPM 473,PU/SO/ROT 115-90-100,ON/OFF BTM1250-1550,DIFF 175-300,CIRC RESERVE PIT W/ GEL & POLY SWEEPS,SLIDES3192-3202,3223-3235,3255,3267, 3287-3297,3318-3330,3350-3362,3382-3397,3603-3620,3698-3618,3761-3782,3793-3814,3888-3908,3919-3944,3951-3976,3982-4007,4015-4035, RIG SERVICE,FUNCTION PIPE RAMS
	14:30 - 15:00	0.50	DRLPRO	07	A	P		DRILL,SLIDE,SURVEY F/4078'TO4745', 667' 74.1FPH,WOB ROT 18-20,SLIDING 8-18,RPM 50,MMRPM 98,SPM 125,GPM 473,PU/SO/ROT 130-100-107,ON/OFF 1250-1550,DIFF 175-300,CIRC RESERVE PIT W/ GEL & POLY SWEEPS,4078-4090,4109-4125,4142-4165,4173-4148,4204-4224,4236-4251,4267-4279,4362-4374,4394-4409,4426-4440,4457-4471,4489-4501,4615-4630, DRILL,SLIDE SURVEY F/ 4745' TO 5879',1134',66.7 FPH,WOB ROT 18-20,SLIDING 8-20,RPM 50-55,MM,RPM98,SPM 125,GPM473,UP/SO/ROT 175-115-125,ON/OFF BTM 1370-1600,DIFF 175-350,CIRC RESERVE PIT W/ GEL& POLY SWEEPS,SLIDES,4900-4911,4931-4941,5121-5129, 5153-5168,5469-5487,5564-5585,5595-5615,5626-5646,5658-5678,5721-5736,5848-5868
	15:00 - 0:00	9.00	DRLPRO	02	D	P		RIG SERVICE
1/9/2010	0:00 - 17:00	17.00	DRLPRO	02	D	P		DRILL, SLIDE, SURVEY F/ 5879' TO 6330' 451' 69.3 FPH,WOB ROT 18-20,SLIDE 8-25,RPM 50,MM RPM 98,SPM 125,GPM 473,UP/SO/ROT 200-110-135,ON/OFF BTM ,DIFF175-350,SLIDES 5943-5958,6006-6019,6069-6100,6132-6147,6227-6242
	17:00 - 17:30	0.50	DRLPRO	07	A	P		DRILL, F/ 6330' TO 6637' 307' 55.8 FPH,WOB ROT 18-20,RPM 50,MM RPM 98,SPM 125,GPM 473,PU/SO/ROT 185-120-135,ON/OFF 1600/1950,DIFF 150-350,SLIDE 6543-6558
	17:30 - 0:00	6.50	DRLPRO	02	D	P		CHANGE FUEL FILTER ON ROTARY MOTOR,WORK ON FUEL LINE
1/10/2010	0:00 - 5:30	5.50	DRLPRO	02	D	P		DRILL F/ 6637' TO 7174, 537' 59.6 FPH,WOB 18-20,RPM50,MM RPM 98,SPM 125,GPM 473,PU/SO/ROT 225-125-145,ON/OFF BTM 1800-2050,DIFF 150-300, SLIDE 6638-6650
	5:30 - 6:00	0.50	DRLPRO	08	A	Z		RIG SERVICE
	6:00 - 15:00	9.00	DRLPRO	02	D	P		DRILL F/ 7174' TO 7625' 480' @ 56.4 FPH,WOB 18-22,RPM 55,MM RPM 98,SPM 125,GPM 473,PU/SO/ROT 240-120-155,ON/OFF2200/1900,DIFF 150-350,SLIDE 7396-7410
	15:00 - 15:30	0.50	DRLPRO	07	A	P		
	15:30 - 0:00	8.50	DRLPRO	02	D	P		

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-32P3CS

Spud Date: 9/24/2008

Project: UTAH-UINTAH

Site: NBU 404 PAD

Rig Name No: PIONEER 69/69, PROPETRO/

Event: DRILLING

Start Date: 9/22/2008

End Date: 1/14/2010

Active Datum: RKB @5,051.00ft (above Mean Sea Level)

UWI: 0/9/S/22/E/32/0/SWSE/6/PM/S/900.00/E/0/1,915.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
1/11/2010	0:00 - 15:30	15.50	DRLPRO	02	D	P		DRILL,SURVEY F/ 7625, TO 8376' 751' 48.4 FPH,WOB 18-22,RPM 55,MM RPM 98,SPM 125,GPM 473,PU/SO/ROT,250-125-158,ON/OFF 2450/2050,DIFF 200-400,SLIDE 7681-7701,7966-7973-8345-8365
	15:30 - 16:00	0.50	DRLPRO	07	A	P		RIG SERVICE,FUNCTION PIPE RAMS
	16:00 - 0:00	8.00	DRLPRO	02	D	P		DRILL,SURVEY F/ 8376' TO 8732' 356,44.5 FPH,WOB 18-22,RPM 50-55,MM RPM 98,SPM115,GPM 437,PU/SO/ROT 285-140-165,ON/OFF 2100-2450,DIFF 175-350,SLIDE 8440-8445.
1/12/2010	0:00 - 7:30	7.50	DRLPRO	02	D	P		DRILL,SURVEY F/ 8732' TO 9116' 384' 51.2 FPH,WOB 20-22,RPM 55-60,MM RPM 90,SPM 115,GPM 435,PU/SO/ROT 285-140-165,ON/OFF 2100/2450, DIFF 175-350 ,LOST 150 BBLS ,50% CIRC,MW 11.6,VIS 42
	7:30 - 9:30	2.00	DRLPRO	05	A	X		BUILD VOLUME,MIX LCM TO 5%
	9:30 - 12:30	3.00	DRLPRO	02	D	P		DRILL F/ 9116' TO TD @ 9265' 12:30 PM 1/12/2010 ,149',49.6 FPH,WOB 20-22,RPM 55-60,MM RPM 90,SPM 115,GPM 435,PU/SO/ROT 285-140-165,ON/OFF 2100/2450,DIFF 200-350
	12:30 - 14:30	2.00	DRLPRO	05	C	P		CIRC F/ SHORT TRIP,PUMP PILL
	14:30 - 22:30	8.00	DRLPRO	06	E	P		SHORT TRIP TO CASING SHOE,NO PROBLEMS
	22:30 - 0:00	1.50	DRLPRO	05	C	P		CIRC F/ LDDP
1/13/2010	0:00 - 0:30	0.50	DRLPRO	05	C	P		CIRC F/ LDDP,PUMP PILL,BLOW DOWN KELLY
	0:30 - 9:30	9.00	DRLPRO	06	A	P		SAFETY MEETING W/ LAY DOWN CREW & RIG CREW,LDDP,BREAK KELLY,LD BHA, PULL WEAR RING
	9:30 - 15:00	5.50	DRLPRO	11	C	P		SAFETY MEETING W/ BAKER ATLAS & RIG CREW ,R/U & RUN TRIPLE COMBO TO 9266',LOG OUT,R/D LOGGERS
	15:00 - 15:30	0.50	DRLPRO	12	A	P		SAFETY MEETING W/ KIMZEY CASERS & RIG CREW,R/U CASERS
	15:30 - 21:30	6.00	DRLPRO	12	C	P		RUN 218 JTS 4.5", 11.6, I-80, BTC CASING, SHOE @ 9247',FLOAT @ 9203',MARKER @ 4382', LANDED @ 65K
	21:30 - 23:00	1.50	DRLPRO	05	D	P		CIRC F/ CEMENT
	23:00 - 23:30	0.50	DRLPRO	12	B	P		SAFETY MEETIN W/ BJ CEMENTERS,RIG CREW,R/U CEMENTERS
	23:30 - 0:00	0.50	DRLPRO	12	E	P		START CEMENT
1/14/2010	0:00 - 3:00	3.00	DRLPRO	12	E	P		PUMP CEMENT,40 BBL WATER SPACER,459 SX LEAD 11.6PPG,2.62 YLD,TAIL 1369 SX ,14.3 PPG,1.31 YLD,DROP PLUG& DISPLACE W/ 143 BBLS CLAYTREAT WATER,BUMP PLUG @ 3350 PSI,FINAL LIFT 2800 PSI,38 BBL LEAD CEMENT BACK TO PIT, CASING LANDED @ 65 K,WASH OUT STACK,R/D CEMENTERS,INSTALL PACK OFF & TEST TO 5000 PSI
	3:00 - 7:00	4.00	DRLPRO	01	E	P		N/D BOP,WINTERIZE RIG,CLEAN PITS,RELEASE RIG @ 0700 1/14/2010 TO NBU 922-32J4CS

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 922-32P3CS		Spud Date: 9/24/2008	
Project: UTAH-UINTAH		Site: NBU 404 PAD	Rig Name No: MILES-GRAY 1/1
Event: COMPLETION		Start Date: 1/25/2010	End Date: 1/29/2010
Active Datum: RKB @5,051.00ft (above Mean Sea Level)		UWI: 0/9/S/22/E/32/0/SWSE/6/PM/S/900.00/E/0/1,915.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
1/25/2010	7:00 - 7:15	0.25	COMP	48		P		HSM, ROADING RIG
	7:15 - 17:00	9.75	COMP	47	A	P		R/D MOVE RIG FROM NBU 920-12D TO NBU 922-32P3CS, MIRU, SPOT EQUIP, N/D WELL HEAD, N/U BOPS, MIRU CUTTERS WIRE LINE, RUN CBL UNDER 1000# PRESSURE FROM 3500' TO SURFACE. R/D WIRE LINE, P/U 3-7/8 MILL W/ X-OVER, TALLEY & P/U 2-3/8 L-80 TBG EOT @ 3000' SWIFN.
1/26/2010	7:00 - 7:15	0.25	COMP	48		P		HSM, TRIPPING TBG
	7:15 - 17:00	9.75	COMP	47	B	P		OPEN WELL 0#, CONTINUE TO RIH W/ 2-3/8 L-80 TBG TO 7100', POOH STNDNG BACK, R/D TBG EQUIP, N/D BOPS, N/U FRAC VALVES, MIRU B&C TESTERS, PRESSURE TEST CSG & FRAC VALVES TO 7200# [GOOD TEST] MIRU CASED HOLE SOLUTIONS, P/U RIH W/ 3-3/8 EXPEND [SCALLOP] 23 GRM, 0.36" HOLE, PERF MESAVERDE. 9080'-9083' 4 SPF, 90* PH, 12 HOLES. 9062'-9064' 4 SPF, 90* PH, 8 HOLES. 8956'-8957' 4 SPF, 90* PH, 4 HOLES. 8947'-8948' 4 SPF, 90* PH, 4 HOLES. 8889'-8892' 4 SPF, 90* PH, 12 HOLES [40 HOLES] SWIFN.
1/27/2010	7:00 - 7:30	0.50	COMP	48		P		HSM, WORKING W/ FRAC CREW & PERFORATORS
	7:30 - 8:20	0.83	COMP	36	E	P		MIRU FRAC TECH, PRIME UP PUMPS AND LINES, PRESSURE TEST TO 8500 PSI. (STG 1) WHP 1610 PSI, BRK 3332 PSI @ 5.6 BPM, ISIP 2779 PSI, FG .74. PUMPED 100 BBLS @ 51 BPM @ 5250 PSI = 100% PERFS OPEN MP 6194 PSI, MR 52.2 BPM, AP 4466 PSI, AR 51.8 BPM, ISIP 2616 PSI, FG .72. NPI -163 PSI, PMPD 1145 BBLS OF S/W & 32,789 LBS OF 30/50 SND & 5,000 LBS 20/40 RESIN SAND. TOTAL PROP 37,789 LBS.
	8:20 - 10:51	2.52	COMP	36	E	P		(STG 2) PU 41/2" CBP & 31/8 EXP GNS, 23 GRM, .36" HOLES, 90 DEG PHASING. SET 8K BAKER CBP @ 8856' & PERF 8632'-8634' 4 SPF 8 HLS, 8714'-8717' 4 SPF 12 HLS, 8745'-8748' 4SPF 12 HLS, 8824'-8826' 4 SPF 8 HLS TOTAL 40 HOLES. WHP 1325 PSI, BRK 3747 PSI @ 6 BPM, ISIP 2773 PSI, FG .75. PUMPED 100 BBLS @ 51 BPM @ 5600 PSI = 83% PERFS OPEN MP 6340 PSI, MR 53 BPM, AP 5410 PSI, AR 50.6 BPM, ISIP 2606 PSI, FG .76. NPI 133 PSI, PMPD 2767 BBLS OF S/W & 108,038 LBS OF 30/50 SND & 5,000 LBS 20/40 RESIN SAND. TOTAL PROP 113,038 LBS.

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 922-32P3CS

Spud Date: 9/24/2008

Project: UTAH-UINTAH

Site: NBU 404 PAD

Rig Name No: MILES-GRAY 1/1

Event: COMPLETION

Start Date: 1/25/2010

End Date: 1/29/2010

Active Datum: RKB @5,051.00ft (above Mean Sea Level)

UWI: 0/9/S/22/E/32/0/SWSE/6/PM/S/900.00/E/0/1,915.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	10:51 - 12:49	1.97	COMP	36	E	P		(STG 3) PU 41/2" CBP & 31/8 EXP GNS, 23 GRM, .36" HOLES, 90 DEG PHASING. SET 8K BAKER CBP @ 8512' & PERF 8346'-8348' 4 SPF 8 HLS, 8382'-8384' 4 SPF 8 HLS, 8416'-8418' 4 SPF 8 HLS, 8459'-8461' 4 SPF 8 HLS, 8480'-8482' 4SPF 8 HLS, TOTAL 40 HOLES. WHP 1425 PSI, BRK 3989 PSI @ 5.8 BPM, ISIP 2619 PSI, FG .74. PUMPED 100 BBLS @ 52 BPM @ 4625 PSI = 100% PERFS OPEN MP 5190 PSI, MR 52.2 BPM, AP 4200 PSI, AR 51.5 BPM, ISIP 2634 PSI, FG .75. NPI 15 PSI, PMPD 1950 BBLS OF S/W & 70,252 LBS OF 30/50 SND & 5,000 LBS 20/40 RESIN SAND. TOTAL PROP 75,252 LBS.
	12:49 - 14:35	1.77	COMP	36	E	P		(STG 4) PU 41/2" CBP & 31/8 EXP GNS, 23 GRM, .36" HOLES, 90 DEG PHASING. SET 8K BAKER CBP @ 8248' & PERF 7989'-7990' 4 SPF 4 HLS, 8030'-8032' 4 SPF 8 HLS, 8088'-8090' 4 SPF 8 HLS, 8133'-8135' 4 SPF 8 HLS, 8216'-8218' 4 SPF 8 HLS, TOTAL 36 HOLES. WHP 950 PSI, BRK 3084 PSI @ 5.9 BPM, ISIP 2049 PSI, FG .69. PUMPED 100 BBLS @ 51 BPM @ 4450 PSI = 100% PERFS OPEN MP 4850 PSI, MR 51.4 BPM, AP 3850 PSI, AR 50.5 BPM, ISIP 2250 PSI, FG .71. NPI 201 PSI, PMPD 1202 BBLS OF S/W & 42,346 LBS OF 30/50 SND & 5,000 LBS 20/40 RESIN SAND. TOTAL PROP 47,346 LBS.
	14:35 - 16:07	1.53	COMP	36	E	P		(STG 5) PU 41/2" CBP & 31/8 EXP GNS, 23 GRM, .36" HOLES, 90 DEG PHASING. SET 8K BAKER CBP @ 7778' & PERF 7630'-7633' 4 SPF 12 HLS, 7707'-7711' 4 SPF 16 HLS, 7744'-7748' 4SPF 16 HLS. TOTAL 44 HOLES. WHP 1235 PSI, BRK 2876 PSI @ 5.7 BPM, ISIP 1906 PSI, FG .68. PUMPED 100 BBLS @ 51 BPM @ 3850 PSI = 100% PERFS OPEN MP 5095 PSI, MR 51.3 BPM, AP 3710 PSI, AR 50.9 BPM, ISIP 2362 PSI, FG .74. NPI 456 PSI, PMPD 1028 BBLS OF S/W & 34,991 LBS OF 30/50 SND & 5,000 LBS 20/40 RESIN SAND. TOTAL PROP 39,991 LBS.
	16:07 - 17:30	1.38	COMP	34	H	P		(STG 6) PU 41/2" CBP & 31/8 EXP GNS, 23 GRM, .36" HOLES, 90 DEG PHASING. SET 8K BAKER CBP @ 7497' & PERF 7376'-7378' 4 SPF 8 HLS, 7403'-7405' 4 SPF 8 HLS, 7424'-7428' 4 SPF 16 HLS, 7465'-7467' 4 SPF 8 HLS. TOTAL 40 HOLES. POOH SWI SDFN
1/28/2010	7:00 - 7:25	0.42	COMP	36	E	P		(STG 6) WHP 760 PSI, BRK 2823 PSI @ 5.6 BPM, ISIP 2001 PSI, FG .70. PUMPED 100 BBLS @ 51 BPM @ 3560 PSI = 100% PERFS OPEN MP 5030 PSI, MR 50.9 BPM, AP 3610 PSI, AR 50.7 BPM, ISIP 2131 PSI, FG .72. NPI 130 PSI, PMPD 716 BBLS OF S/W & 18,999 LBS OF 30/50 SND & 5,000 LBS 20/40 RESIN SAND. TOTAL PROP 23,999 LBS.

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-32P3CS

Spud Date: 9/24/2008

Project: UTAH-UINTAH

Site: NBU 404 PAD

Rig Name No: MILES-GRAY 1/1

Event: COMPLETION

Start Date: 1/25/2010

End Date: 1/29/2010

Active Datum: RKB @5,051.00ft (above Mean Sea Level)

UWI: 0/9/S/22/E/32/0/SWSE/6/PM/S/900.00/E/0/1,915.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:25 - 9:17	1.87	COMP	36	E	P		(STG 7) PU 41/2" CBP & 31/8 EXP GNS, 23 GRM, .36" HOLES, 90 DEG PHASING. SET 8K BAKER CBP @ 7345' & PERF 7196'-7197' 4 SPF 4 HLS, 7219'-7221' 4 SPF 8 HLS, 7238'-7240' 4 SPF 8 HLS, 7263'-7265' 4 SPF 8 HLS, 7312'-7315' 4 SPF 12 HLS. TOTAL 40 HOLES. WHP 520 PSI, BRK 2740 PSI @ 4.6 BPM, ISIP 1639 PSI, FG .66. PUMPED 100 BBLS @ 51 BPM @ 3550 PSI = 100% PERFS OPEN MP 5114 PSI, MR 53.9 BPM, AP 3615 PSI, AR 51.9 BPM, ISIP 2196 PSI, FG .74. NPI 557 PSI, PMPD 1757 BBLS OF SW & 74,779 LBS OF 30/50 SND & 5,000 LBS 20/40 RESIN SAND. TOTAL PROP 79,779 LBS.
	9:17 - 15:00	5.72	COMP	31	I	P		(KILL PLUG) PU RI W/ 41/2" BAKER 8K CBP & SET @ 7146'. POOH RD WIRE LINE & FRAC CREW, ND FRAC VALVES, NU BOPS, RU FLOOR & EQUIP. RIH W/ 37/8 BIT, POBS, 1.875 X/N & 224 JTS 23/8 L-80 TBG EOT @ 7210' RU DRLG EQUIP SWI SDFN.
1/29/2010	7:00 - 7:30	0.50	COMP	48		P		HSM, WORKING W/ POWER SWIVEL, AND PRESSURE ON WELL.

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 922-32P3CS

Spud Date: 9/24/2008

Project: UTAH-UINTAH

Site: NBU 404 PAD

Rig Name No: MILES-GRAY 1/1

Event: COMPLETION

Start Date: 1/25/2010

End Date: 1/29/2010

Active Datum: RKB @5,051.00ft (above Mean Sea Level)

UWI: 0/9/S/22/E/32/0/SWSE/6/PM/S/900.00/E/0/1,915.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:30 - 15:00	7.50	COMP	44	C	P		<p>SICP O SITP O, FILL & TEST PIPE RAMS TO 3,000 PSI OK. BREAK CIRC CONVENTIONAL W/ 2% WTR,</p> <p>C/O 30' SAND TAG 1ST PLUG @ 7146' DRL IN 15 MIN, 200 PSI INCREASE RIH.</p> <p>C/O 30' SAND TAG 2ND PLUG @ 7345' DRL IN 5 MIN, 400 PSI INCREASE RIH.</p> <p>C/O 30' SAND TAG 3RD PLUG @ 7495' DRL IN 5 MIN, 300 PSI INCREASE RIH.</p> <p>C/O 30' SAND TAG 4TH PLUG @ 7778' DRL IN 5 MIN, 300 PSI INCREASE RIH.</p> <p>C/O 30' SAND TAG 5TH PLUG @ 8248' DRL IN 5 MIN, 300 PSI INCREASE RIH.</p> <p>C/O 30' SAND TAG 6TH PLUG @ 8512' DRL IN 5 MIN, 200 PSI INCREASE RIH.</p> <p>C/O 0' SAND TAG 7TH PLUG @ 8856' DRL IN 5 MIN, 300 PSI INCREASE RIH RIH C/O SAND F/ 9083' TO PBSD CIRC WELL CLEAN, POOH L/D 19 JTS 23/8 L-80, 28 OUT. LAND TBG ON 270 JTS RD FLOOR ND BOPS NU WH DROP BALL PUMP OFF BIT LET WELL SET FOR 1/2 HR FOR BIT TO FALL, RDMOL TURN WELL OVER TO FB CREW.</p> <p>KB =13' 4 1/2 HANGER= .83' 270 JTS 23/8 L-80 = 8571.93' POBS = 2.20' EOT @ 8587.96' (1.875 X/N)</p> <p>298 JTS HAULED OUT 270 JTS LANDED 28 JTS TO RETURN</p> <p>TWTR 10,865 BBLS TWR 2500 BBLS TWLTR 8365 BBLS</p>
1/30/2010	7:00 -			33	A			<p>7 AM FLBK REPORT: CP 3050#, TP 2450#, 20/64" CK, 45 BWPH, HEAVY SAND, - GAS TTL BBLS RECOVERED: 3700 BBLS LEFT TO RECOVER: 7165</p>
1/31/2010	7:00 -			33	A			<p>7 AM FLBK REPORT: CP 3475#, TP 2900#, 20/64" CK, 10 BWPH, HEAVY SAND, - GAS TTL BBLS RECOVERED: 4360 BBLS LEFT TO RECOVER: 6505</p>
2/1/2010	7:00 -			33	A			<p>7 AM FLBK REPORT: CP 3100#, TP 2400#, 20/64" CK, 10 BWPH, MEDIUM SAND, - GAS TTL BBLS RECOVERED: 4578 BBLS LEFT TO RECOVER: 6287</p>
	12:00 -		PROD	50				<p>WELL TURNED TO SALES @ 1200 HR ON 2/1/2010 - 3000 MCFD, 240 BWPD, FTP 2600#, CP 3125#, CK 18/64"</p>

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-32P3CS

Spud Date: 9/24/2008

Project: UTAH-UINTAH

Site: NBU 404 PAD

Rig Name No: MILES-GRAY 1/1

Event: COMPLETION

Start Date: 1/25/2010

End Date: 1/29/2010

Active Datum: RKB @5,051.00ft (above Mean Sea Level)

UWI: 0/9/S/22/E/32/0/SWSE/6/PM/S/900.00/E/0/1,915.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
2/2/2010	7:00 -			33	A			7 AM FLBK REPORT: CP 3100#, TP 2500#, 16/64" CK, 15 BWPH, TRACE SAND, 2.7 GAS TTL BBLS RECOVERED: 4803 BBLS LEFT TO RECOVER: 6062
2/3/2010	7:00 -		PROD	50				WELL IP'D ON 2/3/10 - 2664 MCFD, 0 BOPD, 260 BWPD, CP 3035#, FTP 2457#, CK 20/64", LP 142#, 24 HRS

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS	
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	
1. TYPE OF WELL Gas Well	5. LEASE DESIGNATION AND SERIAL NUMBER: ML-22649
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0900 FSL 1915 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 32 Township: 09.0S Range: 22.0E Meridian: S	8. WELL NAME and NUMBER: NBU 922-32P3CS
PHONE NUMBER: 720 929-6456	9. API NUMBER: 43047401160000
9. FIELD and POOL or WILDCAT: NATURAL BUTTES	COUNTY: UINTAH
	STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 1/18/2017	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text" value="WORKOVER"/>

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

A WELLBORE CLEANOUT HAS BEEN COMPLETED ON THE NBU 922-32P3CS WELL. PLEASE SEE THE ATTACHED OPERATIONS SUMMARY REPORT FOR DETAILS.

**Accepted by the
 Utah Division of
 Oil, Gas and Mining**
FOR RECORD ONLY
 February 02, 2017

NAME (PLEASE PRINT) Candice Barber	PHONE NUMBER 435 781-9749	TITLE HSE Representative
SIGNATURE N/A	DATE 1/23/2017	

US ROCKIES REGION
Operation Summary Report

US ROCKIES REGION								
Operation Summary Report								
Well: NBU 922-32P3CS					Spud date: 9/24/2008			
Project: UTAH-UINTAH			Site: NBU 404 PAD			Rig name no.: MILES 2/2		
Event: WELL WORK EXPENSE			Start date: 1/16/2017		End date: 1/18/2017			
Active datum: RKB @5,051.00usft (above Mean Sea Level)				UWI: 0/9/S/22/E/32/0/SWSE/6/PM/S/900.00/E/0/1,915.00/0/0				
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
12/22/2016	11:30 - 13:00	1.50	WO/REP	52	F	P		FTP 600, RU FILL TBG W/ 35 BBLs TEST TO 1,000 PSI LOST 500 PSI IN 3 MIN, RD TEST TRUCK
1/16/2017	7:00 - 7:15	0.25	MAINT	48		P		HSM/ JSA
	7:15 - 11:30	4.25	MAINT	30	A	P		MOVE RIG & EQUIP FROM NBU 441, MIRU, SPOT EQUIP, SICP 100 PSI, CONTROL W/ 45 BBLs TMAC, NDBOP, NUBOP
	11:30 - 12:00	0.50	MAINT	31	I	P		UNLAND TBG, PU 1 JT TBG RIH TAG FILL @ 8603', POOH LD 1 JT TBG
	12:00 - 17:00	5.00	MAINT	31	S	P		MIRU SCAN TECH POOH SCAN 270 JTS TBG, 18 YELLOW & 252 RED, RDMO SCAN TECH, SWI, DRAIN UP EQUIP, SDFN.
1/17/2017	7:00 - 7:15	0.25	MAINT	48		P		HSM/ JSA
	7:15 - 12:00	4.75	MAINT	31	I	P		SICP 350 PSI, CONTROL W/ 20 BBLs TMAC, PU 3 7/8" MILL & POBS W/ XN SN, PU TALLY RIH W/ 225 JTS TBG TAG FILL @ 7230'
	12:00 - 17:00	5.00	MAINT	44	D	P		RU PWR SWVL, MIRU WTRFD FU BRK CIRC, C/O TO 7320' BRK FREE, RIH TAG @ 8600', C/O TO 8610' CIRC CLN, POOH LD 3 JTS TBG, SWI, DRAIN UP EQUIP, SDFN.
1/18/2017	7:00 - 7:15	0.25	MAINT	48		P		HSM/ JSA
	7:15 - 17:30	10.25	MAINT	44	D	P		SICP 500 PSI, PU 3 JTS TBG RIH TAG @ 8610', BRK CIRC W/ FU, C/O TO 9195' TAG OLD POBS (BTM PERF 9083'), CIRC CLN W/ FOAM & N2, RD PWR SWVL, POOH LD 20 JTS TBG, LAND TBG W/ 267 JTS 2 3/8" L80 EOT@ 8583.61', RD FLOOR & TBG EQUIP, NDBOP, NUWH, DROP BALL POBS @ 2200 PSI, RU SWAB TOOLS BROACH TBG TO SN, POOH W/ BROACH, SWI, DRAIN UP EQUIP, RDMO.
								KB-18' HANGER- 83' 267 JTS 2 3/8" L80- 8562.58' POBS W/ XN SN- 2.20' EOT @ 8583.61' C/O TO 9195' PBTB @ 9246'