

February 15, 2007

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

**RE: Application for Permit to Drill  
Ute Tribal #1-25-14-19 (Directional)  
SWNW Section 30-T14S-R20E (Surface Location)  
NENE Section 25-T14S-R19E (Proposed Producing Zones)  
Uintah County, Utah**

Dear Ms. Whitney:

Enclosed please find two copies of the APD for the Ute Tribal #1-25-14-19 on Ute Tribal Lands. This well will be drilled on Lease #20G0005581. We expect BIA approval of the Right-of-Way documents shortly. Water for the drilling will come from Miller, Dyer & Co. existing water source well the Ute Tribal #30-4 located in NENW of Section 30-T14S-R20E.

Due to extreme topography, the Ute Tribal #1-25-14-19 will be directionally drilled from a surface location in the SWNW of Section 30, T14S-R20E and penetrate the proposed producing intervals (Dakota and deeper) with a vertical hole located at a legal location within the NENE of Section 25 T14S-R19E. The well must be directionally drilled because of a "No Surface Occupancy" clause in the existing E&D Agreement with the Ute Indian Tribe. The entire proposal is included in the APD.

Please do not hesitate to call me if you have any questions or need additional information.

Sincerely,



Jeffrey H. Lang  
Vice President of Operations

CC: BIA - 1  
BLM - 3

RECEIVED

FEB 16 2007

DIV. OF OIL, GAS & MINING

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

FORM 3

AMENDED REPORT   
 (highlight changes)

<b>APPLICATION FOR PERMIT TO DRILL</b>				5. MINERAL LEASE NO: 20G0005581	6. SURFACE: Indian
1A. TYPE OF WORK: DRILL <input checked="" type="checkbox"/> REENTER <input type="checkbox"/> DEEPEN <input type="checkbox"/>				7. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Indian Tribe	
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: N/A	
2. NAME OF OPERATOR: Miller, Dyer & Co., LLC				9. WELL NAME and NUMBER: Ute Tribal 1-25-14-19	
3. ADDRESS OF OPERATOR: 475 17th St Suite 1200 CITY Denver STATE CO ZIP 80202			PHONE NUMBER: (303) 292-0949	10. FIELD AND POOL, OR WILDCAT: Flat Rock 600	
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: 1594 FNL 274 FWL SWNW (Section 30-T14S-R20E) AT PROPOSED PRODUCING ZONE: 660 FNL 660 FEL NENE (Section 25-T14S-R19E) 609245X 4380949Y 39.573179 -109.728114 608957X 4381229Y 39.575732 -109.731427				11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNW 30 14S 20E S	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: See Topo Map "A" (Attached)				12. COUNTY: Uintah	13. STATE: UTAH
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET) 660		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) 200		19. PROPOSED DEPTH: 13,245		20. BOND DESCRIPTION: RLB0008085	
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): 7220 GR		22. APPROXIMATE DATE WORK WILL START: 7/1/2007		23. ESTIMATED DURATION: 1-1/2 Month	

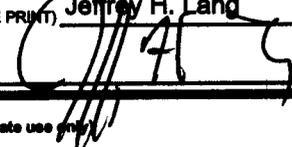
**24. PROPOSED CASING AND CEMENTING PROGRAM**

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#	3,200	Hi-fill & Class G	834 sacks	3.84 & 1.16	11.0 & 15.8
8-3/4"	5-1/2"	N80 P110	17#	13,245	Poz Prem & Hi-Fill	1392 sacks	1.73 & 3.84	13.5, 11, 15.8

**25. ATTACHMENTS**

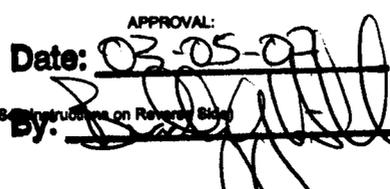
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES:

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> WELL FLAT 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) Jeffrey H. Lang TITLE Vice President of Operations  
 SIGNATURE  DATE 2/15/07

Approved by the  
 Utah Division of  
 Oil, Gas and Mining

API NUMBER ASSIGNED: 43 047-39053

APPROVAL:  
 Date: 03-05-07  
 By: 

**RECEIVED**  
**FEB 16 2007**  
 DIV. OF OIL, GAS & MINING

# T14S, S.L.B.&M.

# MILLER, DYER & CO. LLC

S89°50'W - 80.30 (G.L.O.)  
N89°33'31"W (Computed)

Found Set Stone.  
There are 5 notches on north side & 1 notch on south side of stone.  
N89°54'E - 78.46 (G.L.O.)  
N89°57'10"E - 5219.34' (Meas.)

WELL LOCATION, UTE TRIBAL  
1-25-14-19, LOCATED AS SHOWN IN  
THE NE 1/4 NE 1/4 OF SECTION 25,  
T14S, R19E, S.L.B.&M. UTAH COUNTY,  
UTAH.

Found Set Marked Stone. Marked with 5 notches on NE edge & 2 notches on SE edge of stone.



SCALE

**NOTES:**

1. Well footages are measured at right angles to the Section Lines.
2. The Bottom of hole bears N44°31'19"W 1317.32' from the Surface Position.
3. The Bottom of hole bears S45°31'29"W 934.74' from the Northeast corner of Section 25, T14S, R19E, S.L.B.&M.
4. Bearings are based on Global Positioning Satellite observations.
5. BASIS OF ELEVATION IS BENCH MARK 60 WF 1952 LOCATED IN THE SW 1/4 OF SECTION 35, T14S, R20E, S.L.B.&M. THE ELEVATION OF THIS BENCH MARK IS SHOWN ON THE FLAT ROCK MESA 7.5 MIN. QUADRANGLE AS BEING 7363'.

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

REGISTERED LAND SURVEYOR  
REGISTRATION No. 362251  
KOBAYASHI  
KAY  
STATE OF UTAH

## TIMBERLINE LAND SURVEYING, INC.

38 WEST 100 NORTH. - VERNAL, UTAH 84078  
(435) 789-1365

DATE SURVEYED: 01-18-07	SURVEYED BY: A.D.F.	SHEET <b>2</b> OF 11
DATE DRAWN: 01-24-07	DRAWN BY: M.W.W.	
SCALE: 1" = 1000'	Date Last Revised:	

SEC. 25

SEC. 30

**WELL LOCATION:**  
**UTE TRIBAL 1-25-14-19**

ELEV. UNGRADED GROUND = 7220.0'

NORTH (G.L.O.)  
N00°36'28"E (Basis of Bearings) 5268.94' (Measured)

Found Set Stone, Bearing tree southeast of stone. There are 4 notches on north side & 2 notches on south side of stone.

Found Set Marked Stone, with 5 notches on NE edge and 1 notch on SE edge

660'  
(Comp.)  
89°50'  
(G.L.O.)  
660'  
Bottom of Hole

1594'  
Well Surface Position

274'

N89°29'31"W (Computed)  
S89°54'W - 80.20 (G.L.O.)

N89°44'20"W - 5235.63' (Meas.)  
N89°54'E - 78.50 (G.L.O.)

▲ = SECTION CORNERS LOCATED

UTE TRIBAL 1-25-14-19  
(Bottom Hole) NAD 83 Autonomous  
LATITUDE = 39° 34' 32.8"  
LONGITUDE = 109° 43' 55.6"

UTE TRIBAL 1-25-14-19  
(Surface Position) NAD 83 Autonomous  
LATITUDE = 39° 34' 23.5"  
LONGITUDE = 109° 43' 43.8"

R  
1  
9  
E

R  
2  
0  
E

**DRILLING PLAN  
MILLER, DYER & CO. LLC**

**UTE TRIBAL #1-25-14-19  
NENE Section 25 T14S-R19E**

**1. Estimated Formation Tops**

<u>Estimated Formation Tops:</u>	<u>TVD</u>	<u>MD</u>	
Green River	Surface	Surface	
Wasatch	2,420'	2,420'	Oil and/or gas anticipated > 3,000'
Mesaverde	4,400'	4,400'	Gas
Castlegate Sandstone	6,235'	6,236'	Gas
Mancos Shale	6,475'	6,479'	Gas
Dakota Sandstone	10,350'	10,595'	Gas
Cedar Mountain	10,455'	10,700'	Gas
Morrison	10,675'	10,920'	Gas
Curtis	11,105'	11,350'	Gas
Entrada Sandstone	11,295'	11,540'	Gas
Carmel	11,425'	11,670'	Gas
Wingate	11,750'	11,995'	Gas
Chinle	12,020'	12,265'	Gas
TD	13,000'	13,245'	

**2. Pressure Control Equipment**

Schematic attached (Diagram "A")

Blow Out Preventer (BOP) will be equipped as follows:

- A. Type: Eleven (11) Inch double Gate Hydraulic 3,000 psi BOP mounted on a 3,000 psi casinghead.
  - a. One set of blind rams (above)
  - b. One set of pipe rams (below)
  - c. Appropriate fill, kill and choke lines will be 2" x 2,000 psi working pressure

**B. Auxiliary Equipment:**

Auxiliary equipment to include upper Kelly cock with a handle, a floor safety valve with subs to fit all drill string connections in use, and a string float valve.

A rotating head will be installed above the blow-out preventer to divert any hydrocarbons in the drilling mud away from the rig floor.

- C. Pressure Rating: 3,000 psi WP

**D. Testing Procedure:**

**Hydraulic Ram-Type BOP**

At a minimum, the BOP, choke manifold, and related equipment will be pressure tested to the approved working pressure of the BOP stack of 3,000 psi. This pressure will be maintained for a period of at least ten (10) minutes or until the requirements of the test are met, whichever is longer.

At a minimum, the above pressure test will be performed:

- 1) When the BOP is initially installed.
- 2) Whenever any seal subject to test pressure is broken.
- 3) Following related repairs; and
- 4) At thirty (30) day intervals

In addition to the above, the pipe and blind rams will be activated each trip, but no more than once each day.

**E. Choke Manifold Equipment:**

All choke lines will be straight lines; turns will use tee blocks, or targeted running tees, and will be anchored to prevent whip and vibration. The manifold will have two (2) manual chokes and a pressure gauge.

**F. Accumulator:**

The accumulator will have sufficient capacity to open the hydraulically controlled choke line valve, if so equipped, close all rams plus the annular BOP, and retain a minimum of 200 psi above precharge on the closing manifold without the use of the closing unit pumps. The fluid reservoir capacity will be double the usable fluid volume of the accumulator system capacity, and the fluid level of the reservoir will be maintained to the manufacturer's recommendations.

**G. Miscellaneous Information:**

The choke manifold and BOP ram extensions rods with hand wheels will be located outside the rig substructure. The hydraulic BOP closing unit will be located at least 25 feet from the well head, but readily accessible to the driller. Exact location and configuration of the hydraulic BOP closing unit will depend on the layout of the particular rig contracted to drill this well.

A flare line will be installed from the choke manifold to a flare pit, extending a minimum of 125 feet from the center of the drill hole.

The BOP and related pressure control equipment will be installed, tested and maintained in compliance with the specifications and requirements of the Onshore oil and Gas Order Number 2.

3. **Auxiliary Equipment**
- Kelly cock – Yes
  - Float sub at bit – No
  - Mud logger & instrumentation – Yes
  - Full-opening safety valve on rig floor – Yes
  - Rotating head – No

4. **Casing Program**

	Setting Depth	Hole Size	Casing O.D.	Grade	Weight/Ft.	Thread
Conductor	40'	26"	20"	Conductor	0.250" wall	
Surface	3,200'	12-1/4"	9-5/8"	J-55	36#	LTC
Production	0'-2,500'	8-3/4"	5-1/2"	N-80	17#	Buttress
	2,500'-10,350'	8-3/4"	5-1/2"	N-80	17#	LTC
	10,350'-13,245'	8-3/4"	5-1/2"	P-110	17#	LTC

- Subject to review on the basis of actual conditions encountered. Production casing depth will be adjusted based on results.

**Cement Program**

**Conductor Casing: 0'-40'**

Ready Mix to surface

**Surface Casing: 0' – 3200'**

Lead Cement:

0'-2700'

11.0 ppg Hi-Fill

16% gel

10 #/sk gilsonite

3% salt

3 #/sk GR-3 (ground rubber)

¼ #/sk cello flake

Cement yield = 3.84 ft<sup>3</sup>/sk w/ 23 gal/sk water

Annular volume = 2700' \* 0.3132 ft<sup>3</sup>/ft = 845.6 ft<sup>3</sup>

Excess = 100%

Total volume w/ excess = 845.6 ft<sup>3</sup> \* 2.0 = 1691.2 ft<sup>3</sup>

**Lead Cement Requirement = 1691.2 ft<sup>3</sup> / 3.84 ft<sup>3</sup>/sk = 440 sks**

**Tail Cement:**

2700'-3200' plus shoe joint

15.8 ppg Class G

1% CaCl<sub>2</sub>

1/8 #/sk Poly-E-Flake

Cement yield = 1.16 ft<sup>3</sup>/sk w/ 5 gal/sk water

Annular volume = 500' \* 0.3132 ft<sup>3</sup>/ft = 156.6 ft<sup>3</sup>

Excess = 100%

Total annular volume w/ excess = 156.6 ft<sup>3</sup> \* 2.0 = 313.2 ft<sup>3</sup>

Shoe volume = 45' \* 0.4341 ft<sup>3</sup>/ft = 19.5 ft<sup>3</sup>

Excess (shoe) = 0%

Total volume w/ excess (incl. shoe) = 313.2 + 19.5 = 332.7 ft<sup>3</sup>

**Tail Cement Requirement = 332.7 ft<sup>3</sup> / 1.16 ft<sup>3</sup>/sk = 287 sks**

**Displacement Volume:**

3155' \* 0.0773 bbl/ft = 243.9 bbls

**Top Out Cement:**

0-200' (displaced down backside w/ 1" string)

15.8 ppg Class G

2% CaCl<sub>2</sub>

¼ #/sk cello flake

Cement yield = 1.17 ft<sup>3</sup>/sk w/ 5 gal/sk water

Annular volume = 200' \* 0.3132 ft<sup>3</sup>/ft = 62.6 ft<sup>3</sup>

Excess = 100%

Total volume w/ excess = 62.6 ft<sup>3</sup> \* 2.0 = 125.2 ft<sup>3</sup>

**Top Out Cement Requirement = 125.2 ft<sup>3</sup> / 1.17 ft<sup>3</sup>/sk = 107 sks**

**Production Casing: 0'-13,245 (DV Tool @ 9739')**

**Stage 1**

**Cement:**

9739'-13245'

13.5 ppg Halliburton 50/50 Poz Premium (or equivalent)

5 #/sk Silicalite Compacted (light weight additive)

0.4% Halad®-344 (low fluid loss control)

0.2% Super CBL (gas migration control)

0.2% HR-12 (retarder)

0.25 #/sk Flocele (lost circulation additive)

0.2% CFR-3 (dispersant)

20% SSA-1 (additive material)

Cement yield = 1.73 ft<sup>3</sup>/sk w/ 8.2 gal/sk water

Annular volume = 3506' \* 0.2526 ft<sup>3</sup>/ft = 885.6 ft<sup>3</sup>

Excess = 40%

Total volume w/ excess = 885.6 ft<sup>3</sup> \* 1.40 = 1239.9 ft<sup>3</sup>

Shoe volume = 45' \* 0.1305 ft<sup>3</sup>/ft = 5.9 ft<sup>3</sup>  
 Excess (shoe) = 0%  
 Total volume w/ excess (incl. shoe) = 1239.9 + 5.9 = 1245.8 ft<sup>3</sup>  
**Stage 1 Cement Requirement = 1245.8 ft<sup>3</sup> / 1.73 ft<sup>3</sup>/sk = 720 sks**

Displacement Volume:  
 (13245'-45') \* 0.0232 bbl/ft = 306 bbls

**Stage 2 (DV tool to 500' inside surface casing)**

**Lead Cement:**

2700'-9577'  
 11.0 ppg Halliburton Hi-Fill (or equivalent)  
 16% Bentonite (light weight additive)  
 0.75% Econolite (light weight additive)  
 10 #/sk gilsonite (lost circulation additive)  
 0.25 #/sk Flocele (lost circulation additive)  
 3% salt  
 1% HR-7 (retarder)  
 Cement yield = 3.84 ft<sup>3</sup>/sk w/ 23 gal/sk water  
 Volume inside surface casing = 500' \* 0.2691 ft<sup>3</sup>/ft = 134.5 ft<sup>3</sup>  
 Excess = 0%  
 Annular volume = 6377' \* 0.2526 ft<sup>3</sup>/ft = 1610.8 ft<sup>3</sup>  
 Excess = 40%  
 Annular volume w/ excess = 1610.8 ft<sup>3</sup> \* 1.40 = 2255.1 ft<sup>3</sup>  
 Total volume = 134.5 + 2255.1 = 2389.6 ft<sup>3</sup>  
**Lead Cement Requirement = 2389.6 ft<sup>3</sup> / 3.84 ft<sup>3</sup>/sk = 622 sks**

**Tail Cement:**

9577' - 9739'  
 15.8 ppg Premium cement  
 0.2% HR-5 (retarder)  
 Cement yield = 1.15 ft<sup>3</sup>/sk w/ 5 gal/sk water  
 Annular volume = 162' \* 0.2526 ft<sup>3</sup>/ft = 40.9 ft<sup>3</sup>  
 Excess = 40%  
 Annular volume w/ excess = 40.9 ft<sup>3</sup> \* 1.40 = 57.3 ft<sup>3</sup>  
**Tail Cement Requirement = 50 sks**

Displacement Volume:  
 9739' \* 0.0232 bbl/ft = 226 bbls

**5. Mud Program (visual monitoring)**

Interval	Mud Type	Weight	Viscosity	Fluid Loss
0'- 2,400'	Water/Gel/Lime/Native Clays	8.3-8.6 ppg	33-36 sec/qt	N/C
2,400'- 13,245'	KCl/Polymer or DAP/Polymer	9.0-9.3 ppg	38-42 sec/qt	8-10cc

Sufficient mud materials to maintain mud properties, control lost circulation, contain a "gas" kick, and rebuild an active mud system will be available on location during drilling operations.

6. **Testing, Logging, Coring**

- a. Drill stem tests – non anticipated
- b. Electric logs - DIL/SP/GR, FDC/CNL/CAL/PE/GR, BHC sonic/GR all from TD to surface
- c. Coring – possible sidewall coring in the Dakota, Cedar Mountain, Morrison and Entrada.

7. **Anticipated Bottom Hole Pressure and Temperature, and other Potential Hazards**

A. Bottom Hole Pressure:

Maximum anticipated bottom hole pressure is 4,550 psi (calculated at 0.35 psi/ft. at the 13,000' (TVD) level of the Chinle). This pressure gradient was calculated from a bottom hole pressure buildup test conducted on the Del-Rio / Orion 29-7A well located in the same section as the proposed well. Therefore the maximum anticipated surface pressure is 1,690 psi (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/ft.).

B. Bottom Hole Temperature:

The bottom hole temperature anticipated in this wellbore is approximately 235 degrees Fahrenheit at 13,000' TVD. This anticipated temperature is consistent with the temperatures encountered in the other four deep wells drilled in this area.

C. Abnormal Pressures or Temperatures:

As demonstrated above, no abnormal pressures or temperatures are anticipated in this well.

D. Potential Hazards:

No hydrogen sulfide (H<sub>2</sub>S) gas or other potential hazards have been encountered or are known to exist in any well drilled to similar depths in the general area.

8. **Anticipated Starting Date and Duration**

Spud Date: Upon governmental approval and drilling rig availability

Duration of Operations:

- 1) Drilling: Approximately 40 days.
- 2) Completion: Approximately 15 days

**Drilling Notification:**

**The spud date will be reported orally to the Authorized Officer of the Bureau of Land Management, Vernal Field Office, 24 hours prior to spudding, unless otherwise instructed in the site specific conditions of approval.**

**SURFACE USE PLAN  
MILLER, DYER & CO. LLC**

**UTE TRIBAL #1-25-14-19  
NENE Section 25 T14S-R19E**

1. Existing Roads:
  - a. Topographic Map "A" shows the vicinity of the well, including a portion of the Agency Draw Road. This road is reached from Ouray, Utah, by following the Seep Ridge Road south to Buck Canyon; taking the Buck Canyon road west to the Willow Creek Road; then north on the Willow Creek Road to Santio Crossing, which is at the junction of the Willow Creek Road and the Agency Draw Road.
  - b. Topographic Map "B" shows the point approximately 53 miles south of Ouray where the access road to the well departs from the Flat Rock Mesa Road. Beyond this point the access road consists of 2.2 mile of existing lease road leading to the NHC #1-25-14-19 location, and 440 Feet of new road branching off this road just before it reaches the Ute Tribal #1-25-14-19 location.
  
2. Planned Access Road: (refer to Topographic Map "D")
  - a. Length of new road will be approximately 440 feet.
  - b. The right-of-way width is 30' (15' on either side of the centerline) with a 20-foot wide running surface.
  - c. Maximum grade will be less than 2%
  - d. No turn-outs are planned.
  - e. The new road will be crowned, ditched and dipped to provide adequate drainage.
  - f. Culverts will be used if necessary.
  - g. No gates or cattle guards will be needed. Nor will any existing facilities be modified.
  - h. The proposed road was flagged when the location was staked.
  - i. The authorized officer will be contacted at least 24 hours in advance of commencement of construction of the access road and well pad.
  
3. Location of Existing Wells:
  - a. The nearest producing well is the NHC 1-25-14-19, located approximately 200' north of the proposed well location in Section 30-T14S-R20E.
  
4. Location of Existing and/or Proposed Facilities:
  - a. There are no existing facilities on the proposed well pad. All proposed facilities will be contained within the proposed location site (see attached "Typical Rig Layout"). Topographic Map "D" shows the proposed route for a gas line, to be co-located in the access road right-of-way, and connected to the Miller, Dyer & Co. LLC gathering system.
  - b. The operator will submit information concerning proposed on and off well pad facilities once production has been established by applying for approval of subsequent operations.

5. **Location and Type of Water Supply:**
  - a. Miller, Dyer & Co. existing water supply well the Ute Tribal 30-4A, located in the NENW Section 30-T14S-R20E on Indian surface has been approved by the Ute Indian Tribe. The existing BIA water permit number for the well is #14-20-H62-5069.
  - b. Some produced water from existing wells may be used for drilling. Fresh water may also be taken at a point of diversion at Santio Crossing from Willow Creek in the SESE Section 29-T12S-R21E, SLB&M, if available during the drought. This water will be taken under the terms of the Ute Oilfield Water Service's state filing.
  - c. Water will be transported by truck on the Agency Draw and Flat rock Mesa roads.
  
6. **Source of Construction Materials:**
  - a. It is anticipated that any construction materials will be needed for the drilling phase of this project. Gravel, shale or road base materials needed to upgrade access roads and well pad will be obtained from the operator's pit located on SITLA land near Chimney Rock.
  - b. The entire well site and all access roads to be upgraded for built are located on lands held in trust by the federal government for the Ute Indian Tribe.
  - c. All construction materials used in building the well pad and access road will be native materials accumulated during construction. In the event that additional materials are needed, they will be obtained from the operator's existing pit on SILTA land or from private sources.
  
7. **Methods for Handling Waste Disposal:**
  - a. Methods and locations for safe containment and disposal of the following materials:
    1. Drill cuttings will be buried in the reserve pit.
    2. Garbage and trash will be contained in trash baskets and hauled to a sanitary landfill. There will be no burning of trash on the location at any time.
    3. Salts will be kept in proper containers and salvaged for future use or disposed of at an approved facility.
    4. Chemicals will be kept in proper containers and salvaged for future use or disposed of at an approved facility.
    5. Sewage waste will be contained in portable chemical toilets serviced by a commercial sanitary service.
  
  - b. Drilling fluids will be contained in the reserve pit and mud tanks. To the extent possible, drilling fluids and water will be saved for use at future drilling locations. Unusable drilling fluids and water will be disposed of in an approved manner upon the completion of the well.

- c. 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, testing, of this well. Furthermore, extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will not be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completing of this well.
  
- d. Reserve pit and waste water disposal:
  1. The reserve pit will be constructed so as not to lead, break, or allow the discharge of fluids.
  2. The reserve pit will be lined with 12 mil plastic nylon reinforced liner installed over sufficient bedding material to cover any exposed rocks. The pit will be fenced on three sides with 39" net wire, topped with a minimum of one strand of barbed wire. All wire will be stretched prior to attachment to the corner posts. The fourth side will be fenced when drilling activities are completed to allow drying.
  3. The closure of the reserve pit will follow the Guidance for Reserve Pit Closure as found in the Environmental Handbook of the State of Utah, Division of Oil, Gas & Mining.
    - a) The reserve pit will be closed within one year following drilling and completion of a well (R649-16.3).
    - b) Liquid in a pit will be allowed to either evaporate or be removed. If removed, it will be disposed of properly, some options are injection (in this well or another), hauled to a permitted disposal facility, or re-used at another well.
    - c) The pit liner may be cut off above the cuttings/mud level and hauled to a landfill, or folded in and processed along with other pit contents and covered. No remnants of liner material will be exposed at the surface when pit closure is complete. Pit area will be mounded so as not to allow ponding of water and drainage diverted around as not to allow erosion of the old pit site.
  4. A closed drilling system will not be used as there is no irrigable land, floodplains, or lands under crop production.
  5. In accordance with Onshore Order No. 7, a permanent disposal method and location will be applied for within 90 days of establishing production.
  6. After first production:
    - a) Produced waste water will be confined to the reserve pit, or a storage tank for a period not to exceed 90 days.
    - b) During the 90 day period, in accordance with Onshore Order No. 7, an application for approval of a permanent disposal method and location, along with the required water analysis will be submitted to the authorized officer.
    - c) No produced water will be used for dust or weed control of any kind. Should spills of oil, produced water, or hazardous

materials occur, the area of the spill will be re-mediated and contaminated soil and recovered oil or hazardous materials will be hauled to an approved disposal facility.

8. **Ancillary Facilities:**
  - a. No airstrips will be built. Mobile living quarters and office facilities for supervisors, geologists, mud engineers, mud loggers and air compressor personnel will be confined to the drilling location as shown on the "Typical Rig Layout" diagram. The drilling crew will be housed on location.
  
9. **Well Site Layout:**
  - a. Refer to attached "Cross Sections" diagram for cuts and fills and relation to topography.
  - b. Refer to "Typical Rig Layout" diagram for location of mud tanks, reserve and flare pits, pipe racks, living facilities and top soil stockpiles.
  - c. Refer to "Typical Rig Layout" diagram for rig orientation, access road and parking area. Parking area will be in the northeast corner of the location.
  
10. **Plans for Restoration of the Surface:**
  - a. **Producing well location**
    1. Immediately upon well completion the location and surrounding area will be cleared of all tubing, equipment, debris, materials, trash and junk not required for production.
    2. Immediately upon well completion any hydrocarbons on the reserve pit will be removed and disposed of properly.
    3. The reserve pit and that portion of the location not needed for production facilities/operations will be re-contoured to the approximate natural contours. The reserve pit will be reclaimed within 90 days of the date of well completion, or as soon thereafter as is practical. Before any dirt work takes place, the reserve pit must be completely dry and all cans, barrels, pipe, etc removed. The liner will be perforated and torn prior to backfilling.
    4. Access roads will be graded and maintained to prevent erosion and accommodate year-round traffic.
    5. All disturbed areas not needed for operations will be seeded with the mixture required by the BIA in the manner specified by the BIA.
  
  - b. **Dry Hole/Abandoned Location**
    1. At such time as it is determined that the well is to be plugged and abandoned, the operator will submit a subsequent report of abandonment to the BLM and the BIA. The BLM will attach plugging conditions of approval, and the BIA will attach conditions of approval for the restoration of the surface.
  
11. **Surface Ownership:**

- a. Access roads and location are held in trust for the Ute Indian Tribe by the United States. The operator has obtained a right-of-way with the BIA and submitted payment for damages as specified in its Exploration and Development Agreement with the Ute Indian Tribe.

12. Additional Information:

- a. The operator will inform all persons in the area who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, the operator will immediately stop work that might further disturb such materials, and will inform the assigned monitor and the authorized officer (AO) at the BIA. Within five working days the AO will inform the operator as to:
  1. Whether the materials appear to be eligible for the National Register of Historic Places;
  2. The mitigation measures the operator will likely have to undertake before the site can be used (assuming in situ preservation is not necessary); and
  3. A time frame for the AO to complete an expedited review under 36 CFR 900.11 to confirm, through the State Historic Preservation Officer, that the findings of the AO are correct and that mitigation is appropriate.
- b. If the operator wishes at any time to relocate activities to avoid the cost of mitigation and/or the delays associated with this process, the AO will assume responsibility for whatever recordation and stabilization of the exposed materials may be required. Otherwise, the operator will be responsible for mitigation costs. The AO will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the AO that required mitigation has been completed, the operator will be allowed to resume construction.
- c. At the request of the Ute Indian Tribe, a 30'-wide fire break will be bladed around the perimeter of the location.

13. Lessee's or Operator's Representative and Certification:

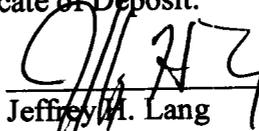
- a. Jeffrey H. Lang, Vice President of Operations  
Miller, Dyer & Co. LLC  
475 17<sup>th</sup> Street, Suite 1200  
Denver, CO 80202  
Office: 303 292 0949 Ext 102  
FAX: 303 292 3901  
Cell: 303 503 3730  
Email: [jeff@millerdyer.com](mailto:jeff@millerdyer.com)

I hereby certify that I have inspected the proposed drill site and access road; that I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Miller, Dyer & Co. LLC, and its

contractors and subcontractors in conformity with the plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

Please be advised that Miller, Dyer & Co. LLC is considered to be the operator of the Ute Tribal 1-25-14-19 well; NENE of Section 25, T14S-R19E and all producing zones; Uintah County, Utah; and is responsible for the operations conducted upon the leased lands. Bond coverage is provided by Certificate of Deposit.

2/15/07  
Date

  
\_\_\_\_\_  
Jeffrey M. Lang  
Vice President of Operations

The onsite inspection for this well was conducted on February 6, 2007

**Participants in the onsite inspection were:**

Kolby Kay, Timberline Land Surveying Inc.  
John E. Dyer, Miller, Dyer & Co. LLC  
Alvin Ignacio, Ute Indian Tribe  
Shawnee Guzman, BIA rep

Miller, Dyer & Co. LLC  
 Drilling Program  
 Rig: ??  
 SHL: SW NW 30 T14S-R20E  
 BHL: NE NE 25 T14S-R19E  
 Uintah County, UT

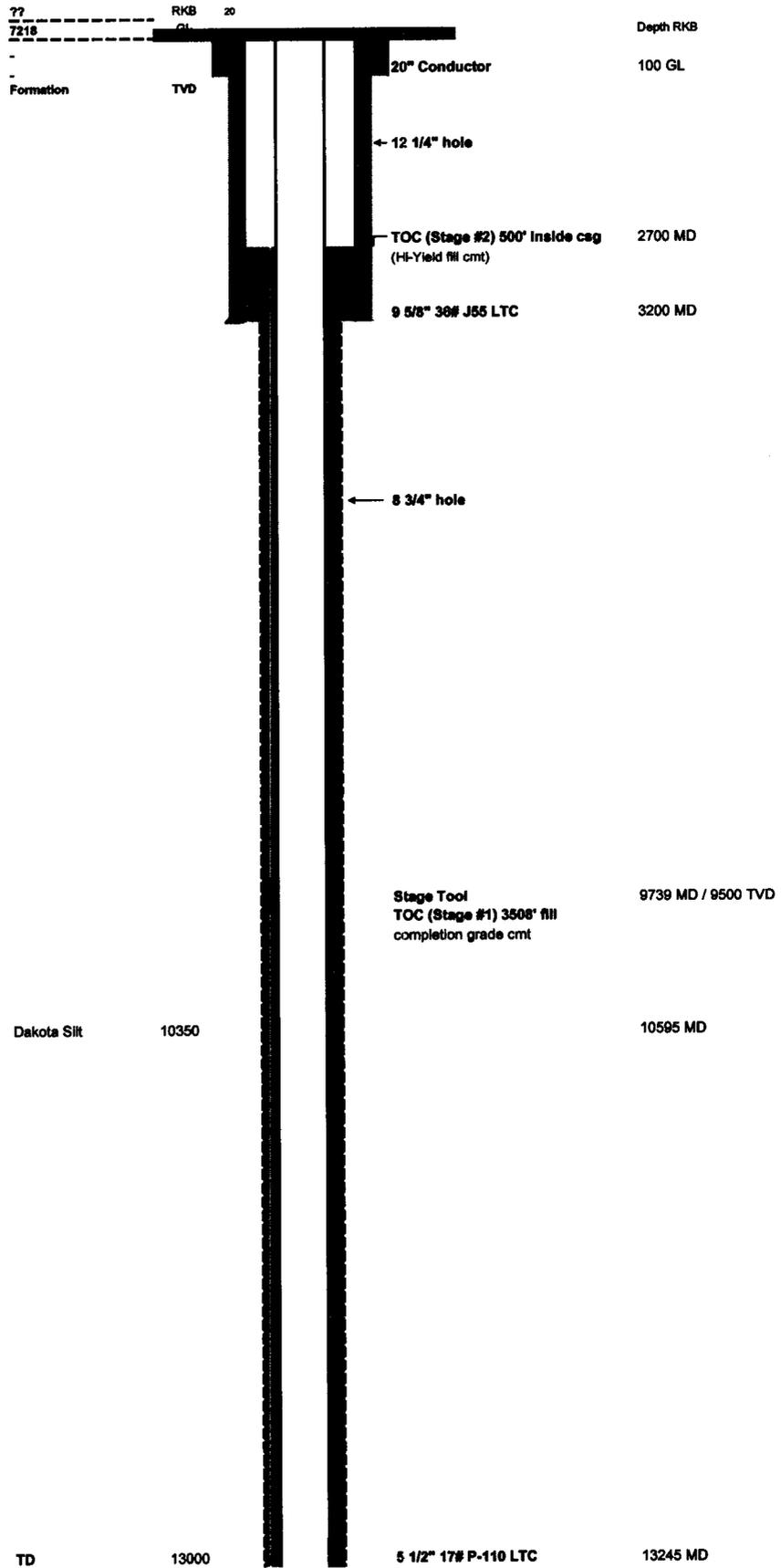
Well: UT 1-25-14-19

**Comments**

SURFACE HOLE: 12 1/4"

**PRODUCTION HOLE: 8 3/4"**

Directional "S" well with KOP below surf csg  
 back to vertical and in target at Dakota Silt





**Weatherford<sup>®</sup>**

## **Drilling Services**

---

## **Proposal**

---

### **MILLER, DYER & COMPANY, LLC**

UTE TRIBAL 1-25-14-19

UINTAH COUNTY, UTAH

WELL FILE: **PLAN 1**

FEBRUARY 13, 2007

---

**Weatherford International, Ltd.**  
15710 John F. Kennedy Blvd., Suite 700  
Houston, Texas 77032 USA  
+1.281.260.1300 Main  
+1.281.260.4730 Fax  
[www.weatherford.com](http://www.weatherford.com)

# MILLER, DYER & CO, LLC

UTE TRIBAL 1-25-14-19  
 SHL SEC 30-T14S-R19E  
 1594' FNL, 274' FWL  
 UINTAH COUNTY, UTAH

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	315.46	0.00	0.00	0.00	0.00	0.00	0.00	
2	6042.95	0.00	315.46	6042.95	0.00	0.00	0.00	0.00	0.00	
3	7292.95	25.00	315.46	7253.66	191.30	-188.28	2.00	315.46	268.41	
4	8928.22	25.00	315.46	8735.72	683.85	-673.05	0.00	0.00	959.50	
5	10594.88	0.00	315.46	10350.00	938.91	-924.09	1.50	180.00	1317.38	DAKOTA SILT
6	13244.88	0.00	315.46	13000.00	938.91	-924.09	0.00	315.46	1317.38	



Azimuths to True North  
 Magnetic North: 11.68°

Magnetic Field  
 Strength: 52538nT  
 Dip Angle: 65.61°  
 Date: 2/9/2007  
 Model: bggm2006

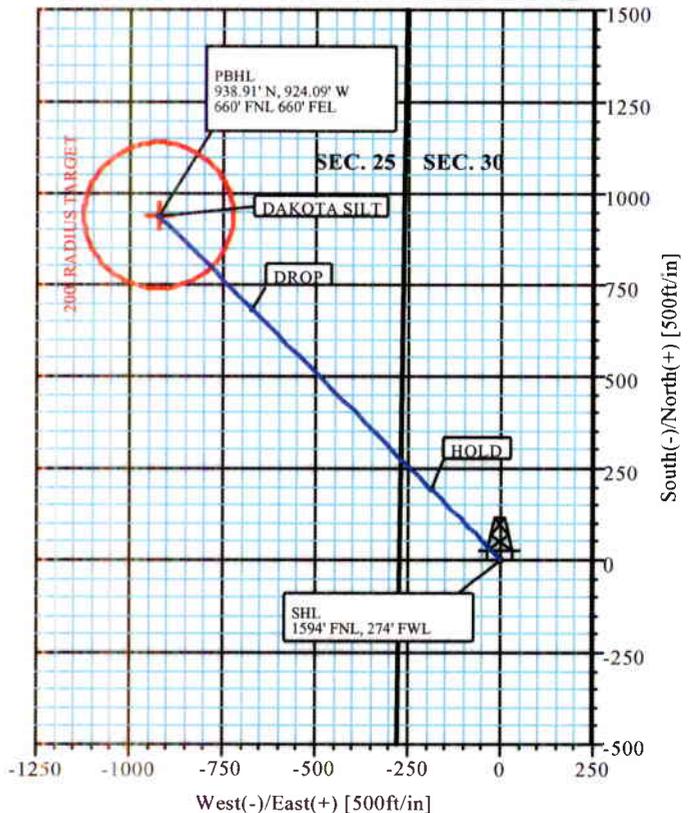
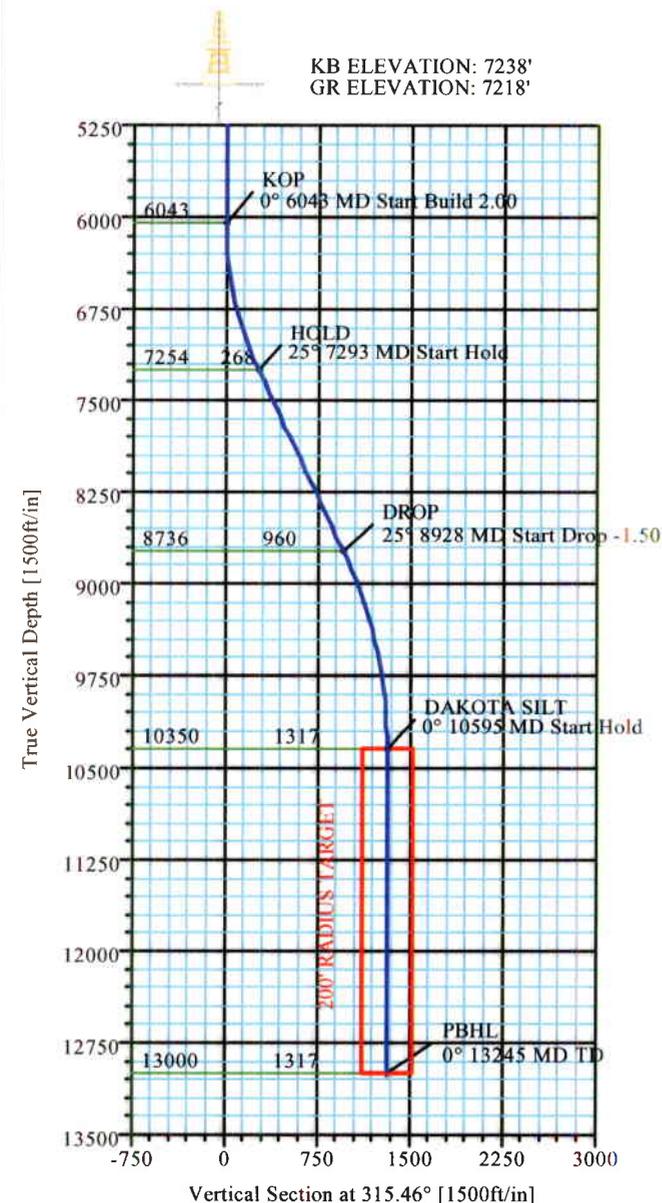
TOTAL CORRECTION TO TRUE NORTH: 11.68°

TARGET DETAILS				
Name	TVD	+N/-S	+E/-W	Shape
DAKOTA SILT	10350.00	938.91	-924.09	Circle (Radius: 200)

CASING DETAILS				
No.	TVD	MD	Name	Size
1	3200.00	3200.00	9 5/8" CSG PT	0.000

**FIELD DETAILS**  
 UINTAH COUNTY, UTAH  
 Geodetic System: US State Plane Coordinate System 1983  
 Ellipsoid: GRS 1980  
 Zone: Utah, Central Zone  
 Magnetic Model: bggm2006  
 System Datum: Mean Sea Level  
 Local North: True North

**SITE DETAILS**  
 UTE TRIBAL 1-25-14-19  
 SHL 1594' FNL 274' FWL SECT 30-T14S-R19E  
 Site Centre Latitude: 39°34'23.500N  
 Longitude: 109°43'43.800W  
 Ground Level: 7218.00  
 Positional Uncertainty: 0.00  
 Convergence: 1.13



**Weatherford**

Plan: Plan #1 (UT 1-25-14-19/1)  
 Created By: L WINCHELL  
 Date: 2/13/2007

# Weatherford Drilling Services

## PROPOSAL PLAN REPORT



<b>Company:</b> MILLER, DYER & CO.	<b>Date:</b> 2/9/2007	<b>Time:</b> 15:21:59	<b>Page:</b> 1
<b>Field:</b> UINTAH COUNTY, UTAH	<b>Co-ordinate(NE) Reference:</b>	<b>Site:</b> UTE TRIBAL 1-25-14-19, True North	
<b>Site:</b> UTE TRIBAL 1-25-14-19	<b>Vertical (TVD) Reference:</b>	<b>SITE</b> 7238.0	
<b>Well:</b> UT 1-25-14-19	<b>Section (VS) Reference:</b>	<b>Well (0.00N,0.00E,315.46Azi)</b>	
<b>Wellpath:</b> 1	<b>Survey Calculation Method:</b>	<b>Minimum Curvature</b>	<b>Db: Sybase</b>

<b>Field:</b> UINTAH COUNTY, UTAH		
<b>Map System:</b> US State Plane Coordinate System 1983	<b>Map Zone:</b>	Utah, Central Zone
<b>Geo Datum:</b> GRS 1980	<b>Coordinate System:</b>	Site Centre
<b>Sys Datum:</b> Mean Sea Level	<b>Geomagnetic Model:</b>	bggm2006

<b>Site:</b> UTE TRIBAL 1-25-14-19		
<b>SHL 1594' FNL 274' FWL SECT 30-T14S-R19E</b>		
<b>Site Position:</b>	<b>Northing:</b> 7018222.28 ft	<b>Latitude:</b> 39 34 23.500 N
<b>From:</b> Geographic	<b>Easting:</b> 2139633.94 ft	<b>Longitude:</b> 109 43 43.800 W
<b>Position Uncertainty:</b> 0.00 ft		<b>North Reference:</b> True
<b>Ground Level:</b> 7218.00 ft		<b>Grid Convergence:</b> 1.13 deg

<b>Well:</b> UT 1-25-14-19			<b>Slot Name:</b>		
<b>Well Position:</b>	+N/-S 0.00 ft	<b>Northing:</b> 7018222.28 ft	<b>Latitude:</b>	39 34 23.500 N	<b>Longitude:</b> 109 43 43.800 W
	+E/-W 0.00 ft	<b>Easting:</b> 2139633.94 ft			
<b>Position Uncertainty:</b>	0.00 ft				

<b>Wellpath:</b> 1			<b>Drilled From:</b> Surface		
			<b>Tie-on Depth:</b> 0.00 ft		
<b>Current Datum:</b> SITE			<b>Above System Datum:</b> Mean Sea Level		
<b>Magnetic Data:</b> 2/9/2007			<b>Declination:</b> 11.68 deg		
<b>Field Strength:</b> 52538 nT			<b>Mag Dip Angle:</b> 65.61 deg		
<b>Vertical Section:</b> Depth From (TVD)			<b>+E/-W</b> Direction		
	ft	+N/-S ft	ft	deg	
	0.00	0.00	0.00	315.46	

<b>Plan:</b> Plan #1		<b>Date Composed:</b> 2/9/2007	
<b>Principal:</b> Yes		<b>Version:</b> 1	
		<b>Tied-to:</b> From Surface	

Plan Section Information										
MD	Incl	Azim	TVD	+N/-S	+E/-W	DLS	Build	Turn	TFO	Target
ft	deg	deg	ft	ft	ft	deg/100ft	deg/100ft	deg/100ft	deg	
0.00	0.00	315.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6042.95	0.00	315.46	6042.95	0.00	0.00	0.00	0.00	0.00	0.00	
7292.95	25.00	315.46	7253.66	191.30	-188.28	2.00	2.00	0.00	315.46	
8928.22	25.00	315.46	8735.72	683.85	-673.05	0.00	0.00	0.00	0.00	
10594.88	0.00	315.46	10350.00	938.91	-924.09	1.50	-1.50	0.00	180.00	DAKOTA SILT
13244.88	0.00	315.46	13000.00	938.91	-924.09	0.00	0.00	0.00	315.46	

Survey										
MD	Incl	Azim	TVD	N/S	E/W	VS	Build	Turn	DLS	Comment
ft	deg	deg	ft	ft	ft	ft	deg/100ft	deg/100ft	deg/100ft	
6000.00	0.00	315.46	6000.00	0.00	0.00	0.00	0.00	0.00	0.00	
6042.95	0.00	315.46	6042.95	0.00	0.00	0.00	0.00	0.00	0.00	KOP
6100.00	1.14	315.46	6100.00	0.40	-0.40	0.57	2.00	0.00	2.00	
6200.00	3.14	315.46	6199.92	3.07	-3.02	4.30	2.00	0.00	2.00	
6300.00	5.14	315.46	6299.66	8.21	-8.08	11.52	2.00	0.00	2.00	
6400.00	7.14	315.46	6399.08	15.84	-15.59	22.22	2.00	0.00	2.00	
6500.00	9.14	315.46	6498.06	25.93	-25.52	36.38	2.00	0.00	2.00	
6600.00	11.14	315.46	6596.50	38.48	-37.87	53.99	2.00	0.00	2.00	
6700.00	13.14	315.46	6694.25	53.47	-52.62	75.02	2.00	0.00	2.00	
6800.00	15.14	315.46	6791.22	70.88	-69.76	99.45	2.00	0.00	2.00	
6900.00	17.14	315.46	6887.27	90.69	-89.26	127.25	2.00	0.00	2.00	
7000.00	19.14	315.46	6982.30	112.88	-111.10	158.38	2.00	0.00	2.00	
7100.00	21.14	315.46	7076.18	137.42	-135.25	192.81	2.00	0.00	2.00	
7200.00	23.14	315.46	7168.80	164.28	-161.69	230.50	2.00	0.00	2.00	
7292.95	25.00	315.46	7253.66	191.30	-188.28	268.41	2.00	0.00	2.00	HOLD

# Weatherford Drilling Services

## PROPOSAL PLAN REPORT



<b>Company:</b> MILLER, DYER & CO.	<b>Date:</b> 2/9/2007	<b>Time:</b> 15:21:59	<b>Page:</b> 2
<b>Field:</b> Uintah County, Utah	<b>Co-ordinate(NE) Reference:</b>	<b>Site:</b> UTE TRIBAL 1-25-14-19, True North	
<b>Site:</b> UTE TRIBAL 1-25-14-19	<b>Vertical (TVD) Reference:</b>	<b>SITE</b> 7238.0	
<b>Well:</b> UT 1-25-14-19	<b>Section (VS) Reference:</b>	<b>Well</b> (0.00N,0.00E,315.46Azi)	
<b>Wellpath:</b> 1	<b>Survey Calculation Method:</b>	<b>Minimum Curvature</b>	<b>Db:</b> Sybase

**Survey**

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	Build deg/100ft	Turn deg/100ft	DLS deg/100ft	Comment
7300.00	25.00	315.46	7260.05	193.42	-190.37	271.39	0.00	0.00	0.00	
7400.00	25.00	315.46	7350.68	223.54	-220.01	313.65	0.00	0.00	0.00	
7500.00	25.00	315.46	7441.31	253.66	-249.66	355.91	0.00	0.00	0.00	
7600.00	25.00	315.46	7531.94	283.78	-279.30	398.17	0.00	0.00	0.00	
7700.00	25.00	315.46	7622.57	313.90	-308.95	440.44	0.00	0.00	0.00	
7800.00	25.00	315.46	7713.21	344.02	-338.59	482.70	0.00	0.00	0.00	
7900.00	25.00	315.46	7803.84	374.14	-368.24	524.96	0.00	0.00	0.00	
8000.00	25.00	315.46	7894.47	404.26	-397.88	567.22	0.00	0.00	0.00	
8100.00	25.00	315.46	7985.10	434.38	-427.53	609.48	0.00	0.00	0.00	
8200.00	25.00	315.46	8075.73	464.51	-457.17	651.75	0.00	0.00	0.00	
8300.00	25.00	315.46	8166.36	494.63	-486.82	694.01	0.00	0.00	0.00	
8400.00	25.00	315.46	8256.99	524.75	-516.46	736.27	0.00	0.00	0.00	
8500.00	25.00	315.46	8347.62	554.87	-546.11	778.53	0.00	0.00	0.00	
8600.00	25.00	315.46	8438.25	584.99	-575.75	820.79	0.00	0.00	0.00	
8700.00	25.00	315.46	8528.88	615.11	-605.40	863.05	0.00	0.00	0.00	
8800.00	25.00	315.46	8619.51	645.23	-635.04	905.32	0.00	0.00	0.00	
8900.00	25.00	315.46	8710.14	675.35	-664.69	947.58	0.00	0.00	0.00	
8928.22	25.00	315.46	8735.72	683.85	-673.05	959.50	0.00	0.00	0.00	DROP
9000.00	23.92	315.46	8801.06	705.03	-693.90	989.23	-1.50	0.00	1.50	
9100.00	22.42	315.46	8892.99	733.08	-721.51	1028.58	-1.50	0.00	1.50	
9200.00	20.92	315.46	8985.91	759.40	-747.41	1065.51	-1.50	0.00	1.50	
9300.00	19.42	315.46	9079.78	783.98	-771.60	1099.99	-1.50	0.00	1.50	
9400.00	17.92	315.46	9174.51	806.79	-794.06	1132.01	-1.50	0.00	1.50	
9500.00	16.42	315.46	9270.05	827.84	-814.77	1161.53	-1.50	0.00	1.50	
9600.00	14.92	315.46	9366.33	847.09	-833.72	1188.55	-1.50	0.00	1.50	
9700.00	13.42	315.46	9463.28	864.54	-850.89	1213.03	-1.50	0.00	1.50	
9800.00	11.92	315.46	9560.84	880.18	-866.28	1234.97	-1.50	0.00	1.50	
9900.00	10.42	315.46	9658.94	893.99	-879.88	1254.35	-1.50	0.00	1.50	
10000.00	8.92	315.46	9757.52	905.96	-891.66	1271.15	-1.50	0.00	1.50	
10100.00	7.42	315.46	9856.50	916.09	-901.63	1285.37	-1.50	0.00	1.50	
10200.00	5.92	315.46	9955.82	924.38	-909.78	1296.99	-1.50	0.00	1.50	
10300.00	4.42	315.46	10055.41	930.80	-916.11	1306.00	-1.50	0.00	1.50	
10400.00	2.92	315.46	10155.20	935.37	-920.60	1312.41	-1.50	0.00	1.50	
10500.00	1.42	315.46	10255.13	938.07	-923.26	1316.20	-1.50	0.00	1.50	
10594.88	0.00	315.46	10350.00	938.91	-924.09	1317.38	-1.50	0.00	1.50	DAKOTA SILT
10600.00	0.00	315.46	10355.12	938.91	-924.09	1317.38	0.00	0.00	0.00	
10700.00	0.00	315.46	10455.12	938.91	-924.09	1317.38	0.00	0.00	0.00	
10800.00	0.00	315.46	10555.12	938.91	-924.09	1317.38	0.00	0.00	0.00	
10900.00	0.00	315.46	10655.12	938.91	-924.09	1317.38	0.00	0.00	0.00	
11000.00	0.00	315.46	10755.12	938.91	-924.09	1317.38	0.00	0.00	0.00	
11100.00	0.00	315.46	10855.12	938.91	-924.09	1317.38	0.00	0.00	0.00	
11200.00	0.00	315.46	10955.12	938.91	-924.09	1317.38	0.00	0.00	0.00	
11300.00	0.00	315.46	11055.12	938.91	-924.09	1317.38	0.00	0.00	0.00	
11400.00	0.00	315.46	11155.12	938.91	-924.09	1317.38	0.00	0.00	0.00	
11500.00	0.00	315.46	11255.12	938.91	-924.09	1317.38	0.00	0.00	0.00	
11600.00	0.00	315.46	11355.12	938.91	-924.09	1317.38	0.00	0.00	0.00	
11700.00	0.00	315.46	11455.12	938.91	-924.09	1317.38	0.00	0.00	0.00	
11800.00	0.00	315.46	11555.12	938.91	-924.09	1317.38	0.00	0.00	0.00	
11900.00	0.00	315.46	11655.12	938.91	-924.09	1317.38	0.00	0.00	0.00	
12000.00	0.00	315.46	11755.12	938.91	-924.09	1317.38	0.00	0.00	0.00	
12100.00	0.00	315.46	11855.12	938.91	-924.09	1317.38	0.00	0.00	0.00	
12200.00	0.00	315.46	11955.12	938.91	-924.09	1317.38	0.00	0.00	0.00	
12300.00	0.00	315.46	12055.12	938.91	-924.09	1317.38	0.00	0.00	0.00	

# Weatherford Drilling Services

## PROPOSAL PLAN REPORT



<b>Company:</b> MILLER, DYER & CO.	<b>Date:</b> 2/9/2007	<b>Time:</b> 15:21:59	<b>Page:</b> 3
<b>Field:</b> UINTAH COUNTY, UTAH	<b>Co-ordinate(NE) Reference:</b>	<b>Site:</b> UTE TRIBAL 1-25-14-19, True North	
<b>Site:</b> UTE TRIBAL 1-25-14-19	<b>Vertical (TVD) Reference:</b>	<b>SITE</b> 7238.0	
<b>Well:</b> UT 1-25-14-19	<b>Section (VS) Reference:</b>	<b>Well</b> (0.00N,0.00E,315.46Azi)	
<b>Wellpath:</b> 1	<b>Survey Calculation Method:</b>	<b>Minimum Curvature</b>	<b>Db:</b> Sybase

**Survey**

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	Buld deg/100ft	Turn deg/100ft	DLS deg/100ft	Comment
12400.00	0.00	315.46	12155.12	938.91	-924.09	1317.38	0.00	0.00	0.00	
12500.00	0.00	315.46	12255.12	938.91	-924.09	1317.38	0.00	0.00	0.00	
12600.00	0.00	315.46	12355.12	938.91	-924.09	1317.38	0.00	0.00	0.00	
12700.00	0.00	315.46	12455.12	938.91	-924.09	1317.38	0.00	0.00	0.00	
12800.00	0.00	315.46	12555.12	938.91	-924.09	1317.38	0.00	0.00	0.00	
12900.00	0.00	315.46	12655.12	938.91	-924.09	1317.38	0.00	0.00	0.00	
13000.00	0.00	315.46	12755.12	938.91	-924.09	1317.38	0.00	0.00	0.00	
13100.00	0.00	315.46	12855.12	938.91	-924.09	1317.38	0.00	0.00	0.00	
13200.00	0.00	315.46	12955.12	938.91	-924.09	1317.38	0.00	0.00	0.00	
13244.88	0.00	315.46	13000.00	938.91	-924.09	1317.38	0.00	0.00	0.00	PBHL

**Annotation**

MD ft	TVD ft	
6042.95	6042.95	KOP
7292.95	7253.66	HOLD
8928.22	8735.72	DROP
10594.88	10350.00	HOLD
13244.88	13000.00	PBHL

**Formations**

MD	TVD	Formations	Lithology	Dip Angle	Dip Direction

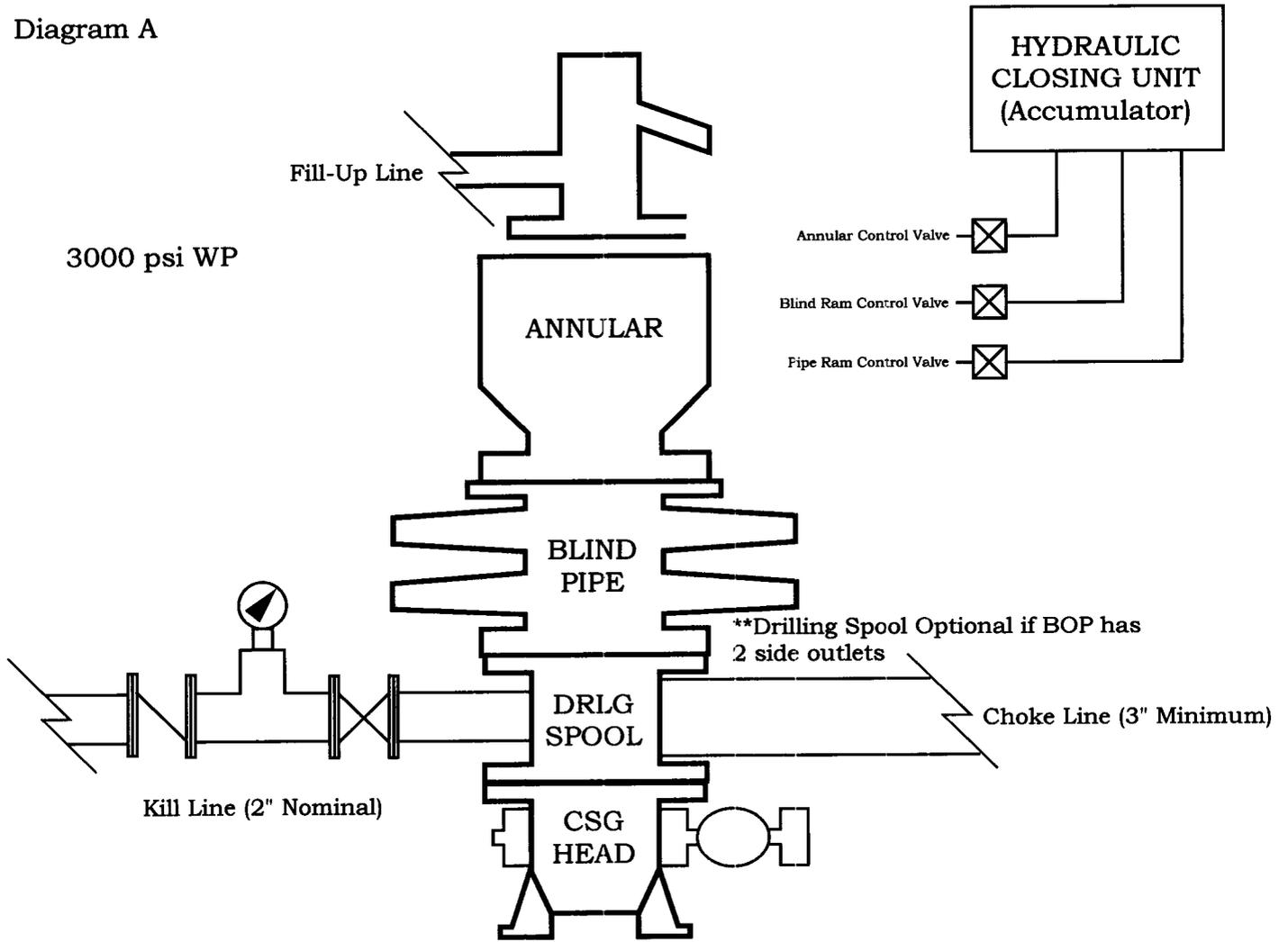
**Casing Points**

MD ft	TVD ft	Diameter in	Hole Size in	Name
3200.00	3200.00	0.000	0.000	9 5/8" CSG PT

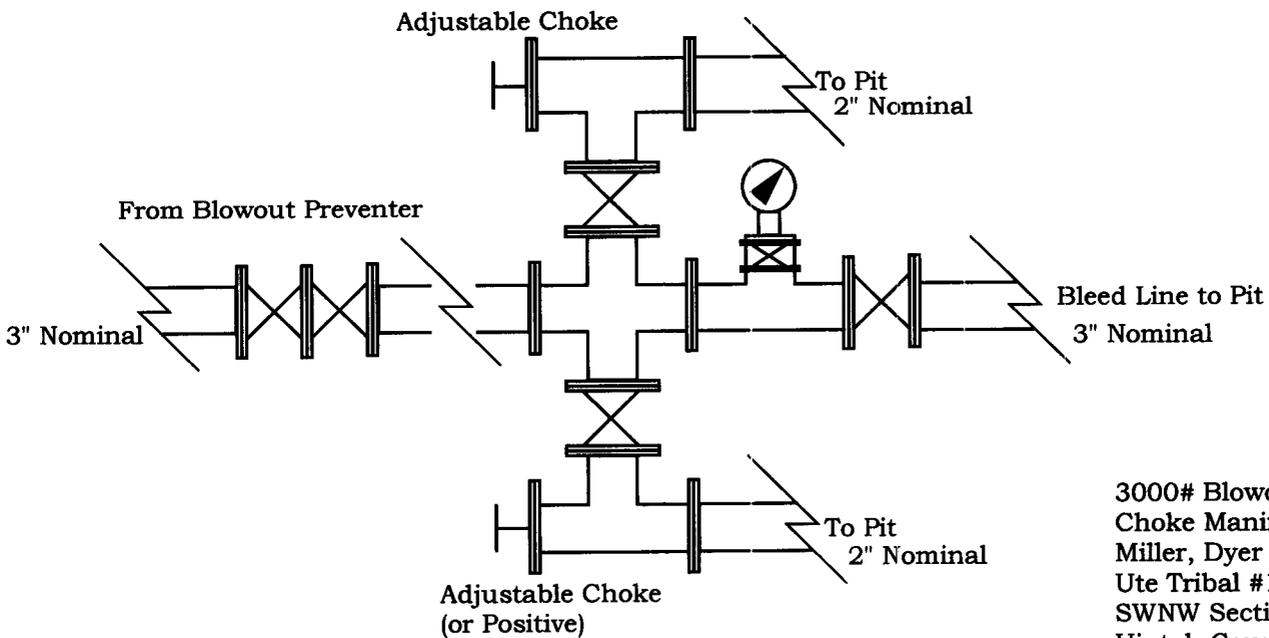
**Targets**

Name	Description Dip. Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	← Latitude → Deg Min Sec	← Longitude → Deg Min Sec
DAKOTA SILT	-Circle (Radius: 200) -Plan hit target	10350.00	938.91	-924.09	7019142.71	2138691.44	39 34 32.780 N	109 43 55.603 W

Diagram A



Choke Manifold Requirement (3000 psi WP)



3000# Blowout Preventer &  
 Choke Manifold Schematic  
 Miller, Dyer & Co. LLC  
 Ute Tribal #1-25-14-19  
 SWNW Section 30 T14S-R20E  
 Uintah County, Utah

**MILLER, DYER & CO. LLC**  
**Ute Tribal 1-25-14-19**  
**Section 30, T14S, R20E, S.L.B.&M. (Surface)**

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14 MILES TO THE JUNCTION OF STATE HIGHWAY 88. EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION ALONG STATE HIGHWAY 88 APPROXIMATELY 17 MILES TO OURAY, UTAH. FROM OURAY, PROCEED IN A SOUTHERLY DIRECTION ALONG THE SEEP RIDGE ROAD (COUNTY B ROAD 2810) APPROXIMATELY 29.4 MILES TO ITS INTERSECTION WITH THE BUCK CANYON ROAD (COUNTY B ROAD 5460). EXIT RIGHT AND PROCEED IN A SOUTHWESTERLY DIRECTION ALONG COUNTY B ROAD 5460 APPROXIMATELY 3.2 MILES TO WILLOW CREEK. TURN RIGHT AND PROCEED IN A NORTHWESTERLY DIRECTION ALONG THE WILLOW CREEK ROAD (COUNTY B ROAD 5120) APPROXIMATELY 2.1 MILES TO ITS INTERSECTION WITH THE AGENCY DRAW ROAD (COUNTY B ROAD 5340). EXIT LEFT AND PROCEED IN A WESTERLY THEN SOUTHWESTERLY DIRECTION ALONG COUNTY B ROAD 5340 APPROXIMATELY 2.5 MILES TO ITS INTERSECTION WITH THE FLAT ROCK ROAD (COUNTY B ROAD 5450). EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION ALONG COUNTY B ROAD 5450 APPROXIMATELY 10.9 MILES TO THE FLAT ROCK MESA ROAD. PROCEED IN A SOUTHWESTERLY DIRECTION ALONG THE FLAT ROCK MESA ROAD APPROXIMATELY 2.8 MILES TO ITS INTERSECTION WITH THE BLACK KNOLLS ROAD. CONTINUE IN A WESTERLY THEN NORTHWESTERLY DIRECTION ALONG THE FLAT ROCK MESA ROAD APPROXIMATELY 2.9 MILES TO THE NORTH FORK OF THE FLAT ROCK MESA ROAD. EXIT RIGHT AND PROCEED IN A NORTHERLY THEN WESTERLY DIRECTION ALONG THE NORTH FORK OF THE FLAT ROCK MESA ROAD APPROXIMATELY 2.2 MILES TO A SERVICE ROAD TO THE WEST. EXIT RIGHT AND PROCEED ALONG SERVICE ROAD APPROXIMATELY 0.1 MILES TO THE PROPOSED ACCESS ROAD. FOLLOW ROAD FLAGS IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 440 FEET TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 87.2 MILES IN A SOUTHERLY DIRECTION.



PHOTO VIEW: FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: SOUTHERLY

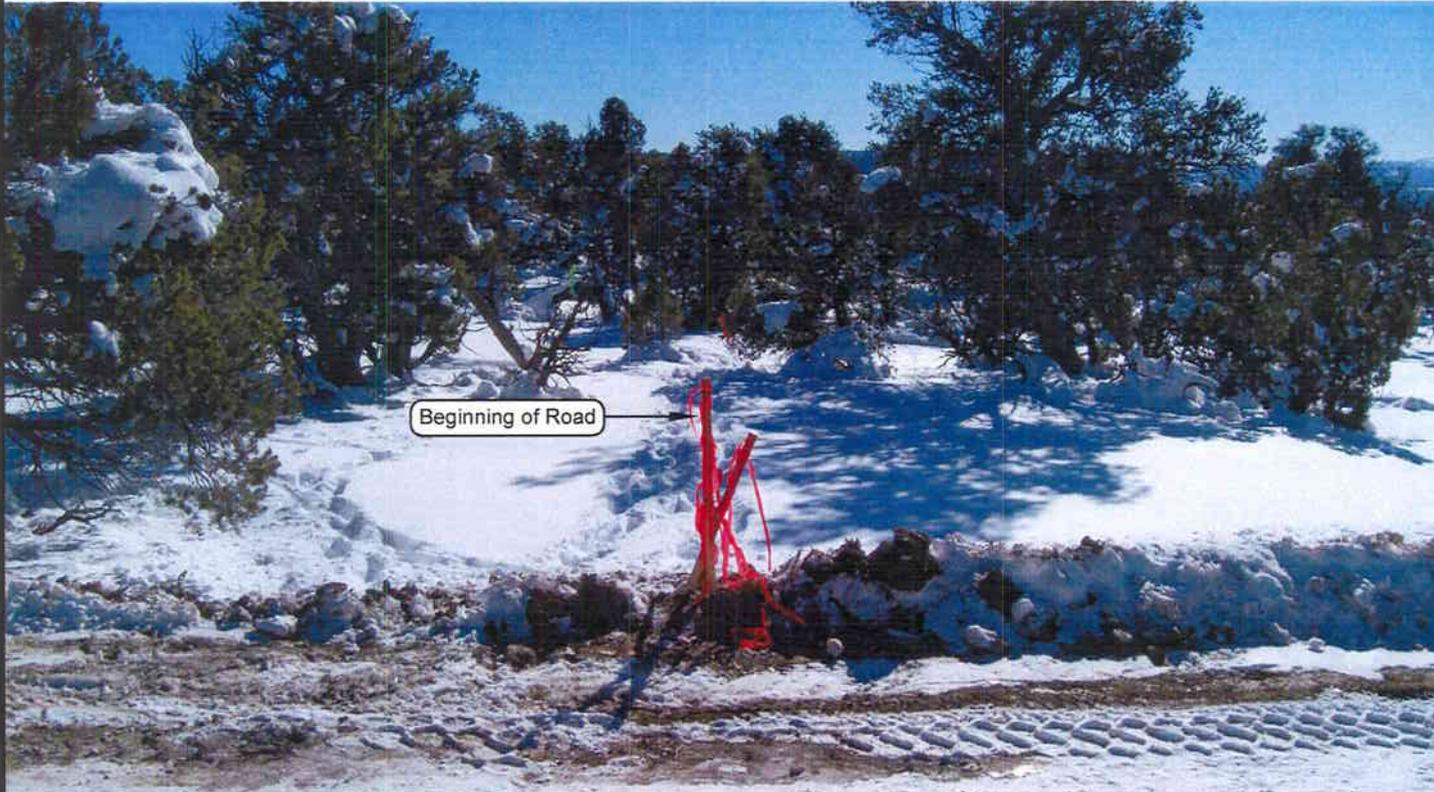


PHOTO VIEW: FROM BEGINNING OF PROPOSED ROAD

CAMERA ANGLE: SOUTHERLY

**MILLER, DYER & CO. LLC**

**Ute Tribal 1-25-14-19**  
**SECTION 30, T14S, R20E, S.L.B.&M.**  
**1594' FNL & 274' FWL (Surface)**

LOCATION PHOTOS		DATE TAKEN: 01-18-07
		DATE DRAWN: 01-25-07
TAKEN BY: A.D.F.	DRAWN BY: M.W.W.	REVISED:

**Timberline Land Surveying, Inc.**  
 38 West 100 North Vernal, Utah 84078  
 (435) 789-1365

**SHEET**  
**1**  
**OF 11**

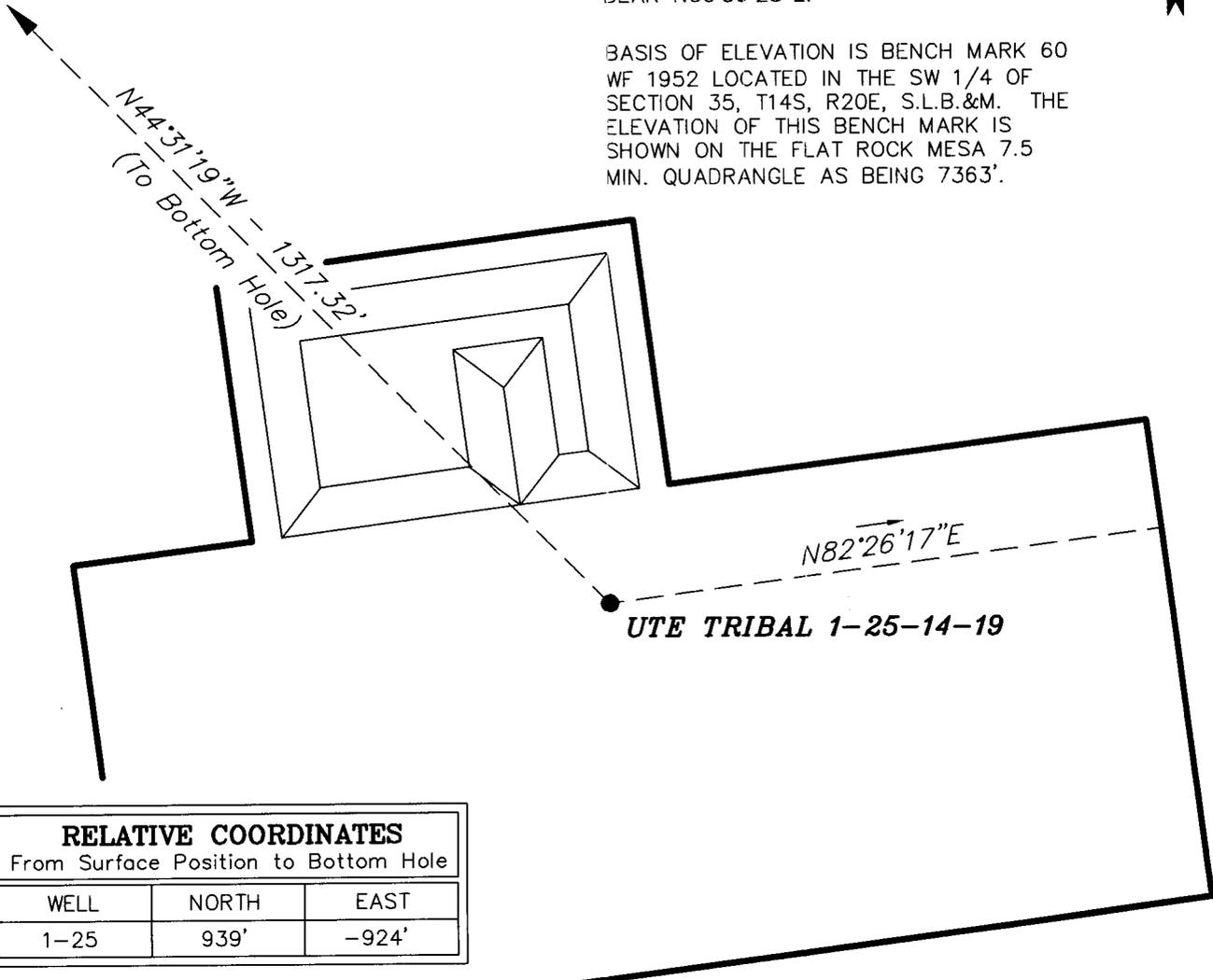
# MILLER, DYER & CO. LLC

## WELL PAD INTERFERENCE PLAT UTE TRIBAL 1-25-14-19



BASIS OF BEARINGS IS THE WEST LINE OF SECTION 30, T14S, R20E, S.L.B.&M. WHICH IS TAKEN FROM GLOBAL POSITIONING SATELITE OBSERVATIONS TO BEAR N00°36'28"E.

BASIS OF ELEVATION IS BENCH MARK 60 WF 1952 LOCATED IN THE SW 1/4 OF SECTION 35, T14S, R20E, S.L.B.&M. THE ELEVATION OF THIS BENCH MARK IS SHOWN ON THE FLAT ROCK MESA 7.5 MIN. QUADRANGLE AS BEING 7363'.



RELATIVE COORDINATES		
From Surface Position to Bottom Hole		
WELL	NORTH	EAST
1-25	939'	-924'

LATITUDE & LONGITUDE		
Surface Position - (NAD 83) Autonomous		
WELL	N. LATITUDE	W. LONGITUDE
1-25	39°34'23.5"	109°43'43.8"

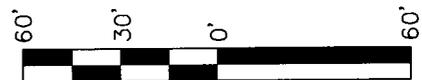
LATITUDE & LONGITUDE		
Bottom Hole - (NAD 83) Autonomous		
WELL	N. LATITUDE	W. LONGITUDE
1-25	39°34'32.8"	109°43'55.6"

**SURFACE POSITION FOOTAGES:**

UTE TRIBAL 1-25-14-19  
1594' FNL & 274' FWL  
Sec. 30, T14S, R20E S.L.B.&M.

**BOTTOM HOLE FOOTAGES**

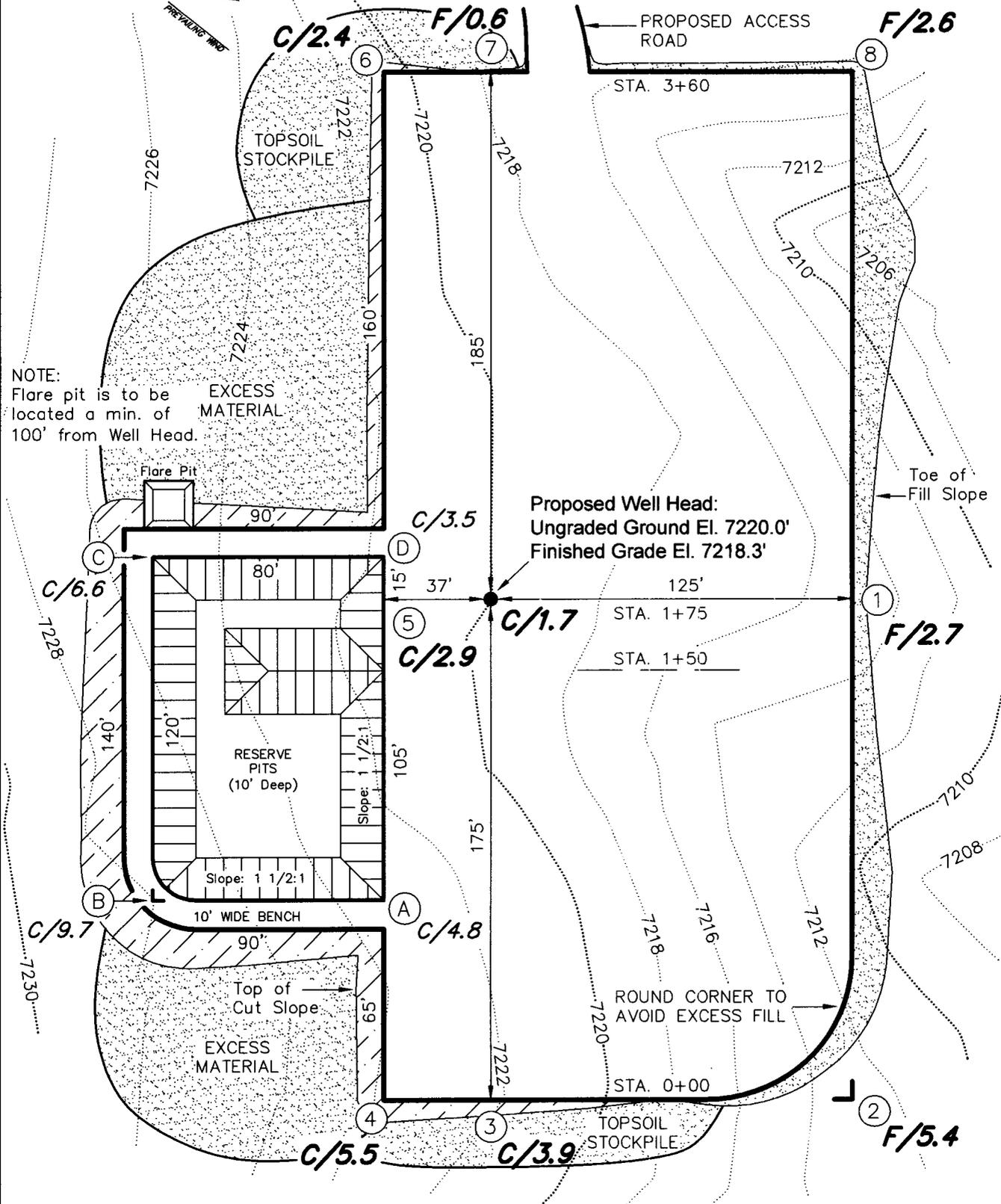
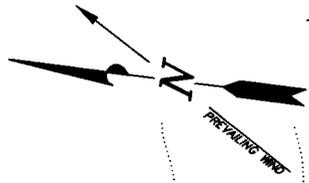
UTE TRIBAL 1-25-14-19  
660' FNL & 660' FEL  
Sec. 25, T14S, R19E S.L.B.&M.



SCALE

# MILLER, DYER & CO. LLC

## CUT SHEET UTE TRIBAL 1-25-14-19

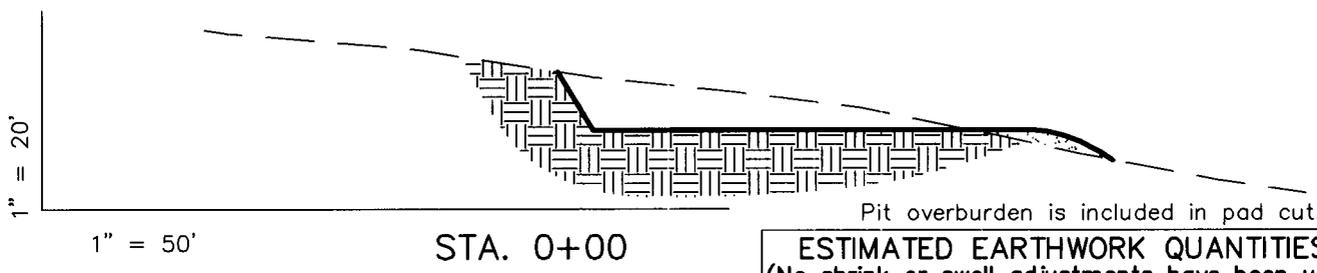
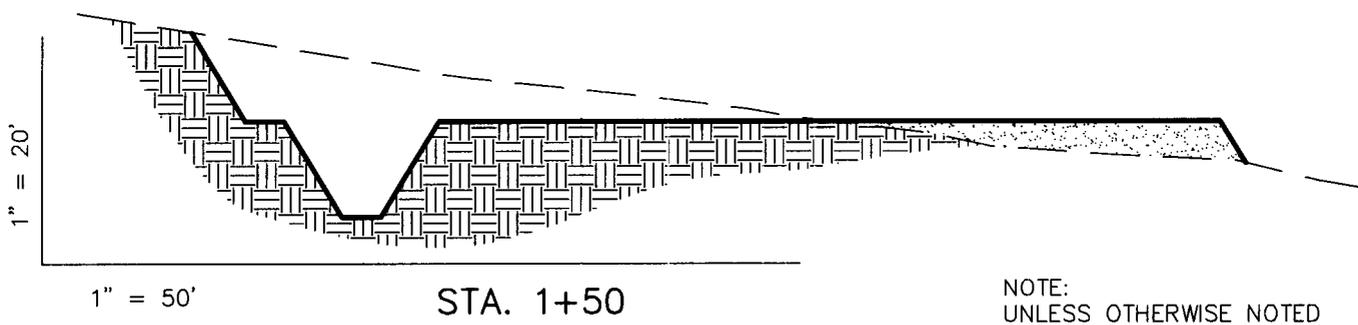
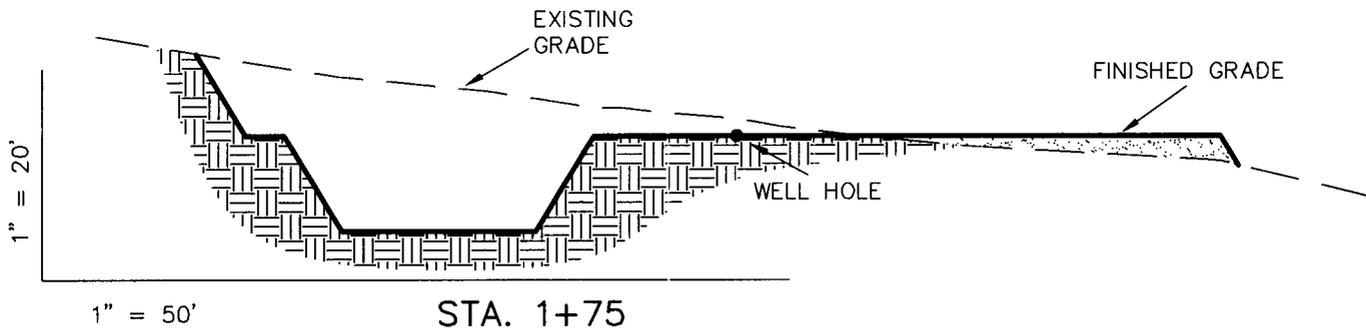
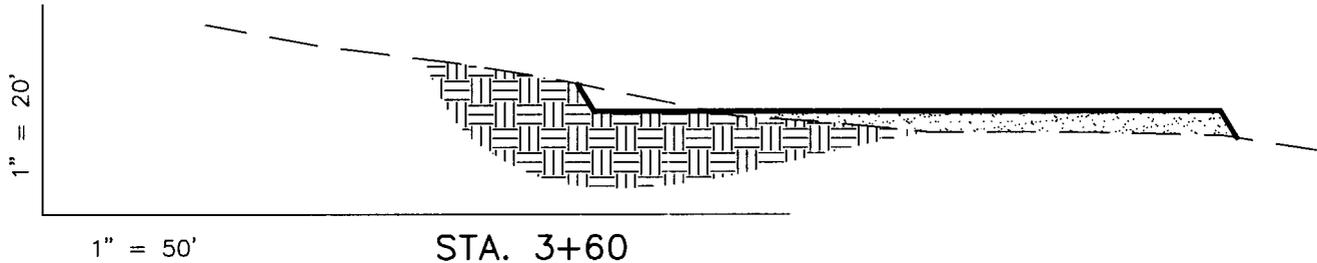


CONTOUR INTERVAL = 2'

Section 30, T14S, R20E, S.L.B.&M. (Surface)			Qtr/Qtr Location: SW NW	
Date Surveyed: 01-18-07	Date Drawn: 01-25-07	Date Last Revision:	<b>Timberline</b> (435) 789-1365 <b>Land Surveying, Inc.</b> 38 WEST 100 NORTH VERNAL, UTAH 84078	
Surveyed By: A.D.F..	Drawn By: M.W.W.	Scale: 1" = 50'		
			<b>SHEET 4 OF 11</b>	

# MILLER, DYER & CO. LLC

## CROSS SECTIONS UTE TRIBAL 1-25-14-19



NOTE:  
UNLESS OTHERWISE NOTED  
ALL CUT/FILL SLOPES ARE  
AT 1.5:1

Pit overburden is included in pad cut.

### REFERENCE POINTS

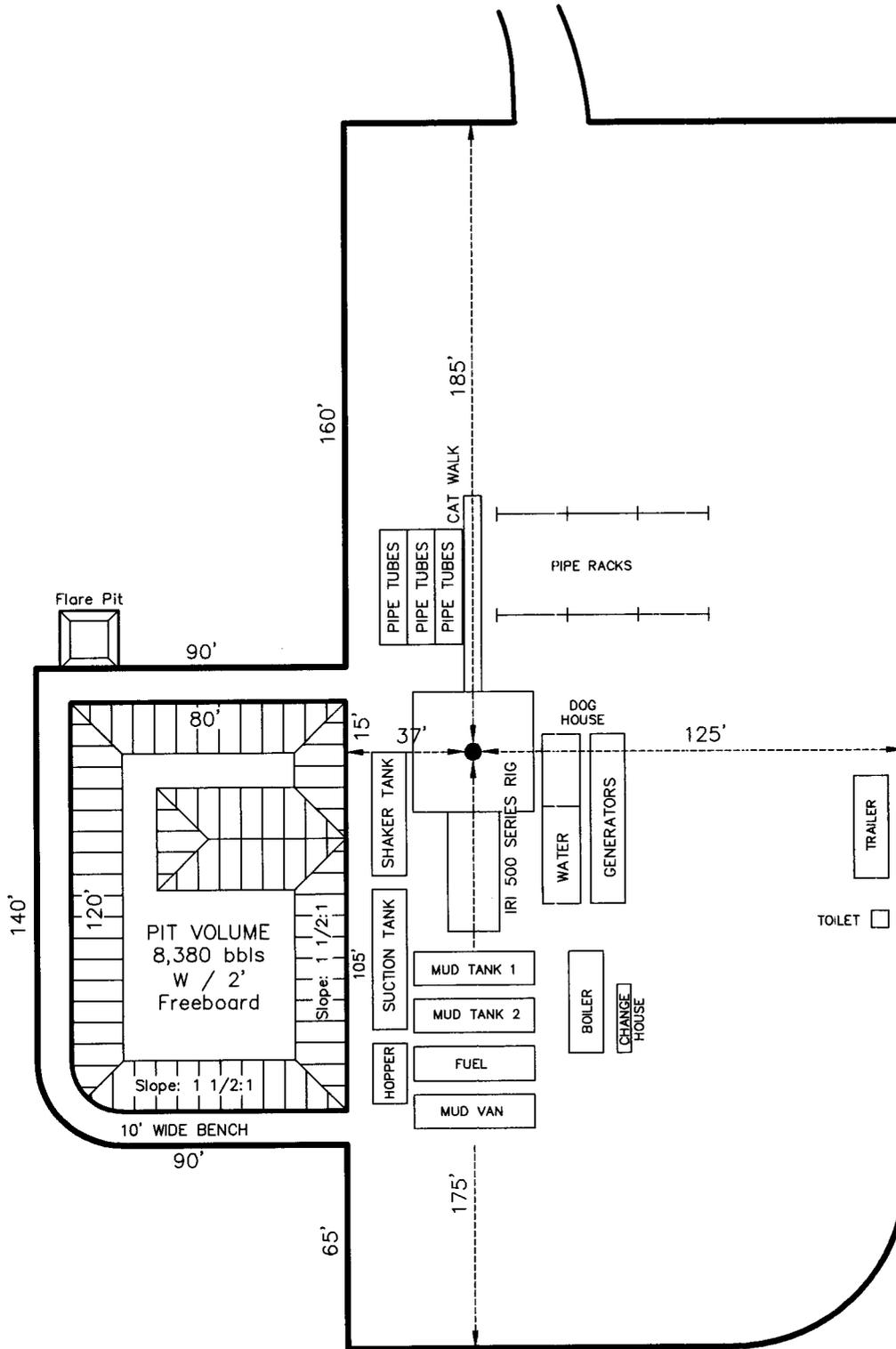
- 175' SOUTHERLY = 7210.7'
- 225' SOUTHERLY = 7202.6'
- 215' WESTERLY = 7221.0'
- 275' WESTERLY = 7217.4'

ESTIMATED EARTHWORK QUANTITIES (No shrink or swell adjustments have been used) (Expressed in Cubic Yards)				
ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	4,780	4,780	Topsail is not included in Pad Cut	0
PIT	2,390	0		2,390
TOTALS	7,170	4,780	1,310	2,390

Excess Material after Pit Rehabilitation = 0 Cu. Yds.

# MILLER, DYER & CO. LLC

## TYPICAL RIG LAYOUT UTE TRIBAL 1-25-14-19



Section 30, T14S, R20E, S.L.B.&M. (Surface)      Qtr/Qtr Location: SW NW

Date Surveyed: 01-18-07	Date Drawn: 01-25-07	Date Last Revision:
Surveyed By: A.D.F..	Drawn By: M.W.W.	Scale: 1" = 50'

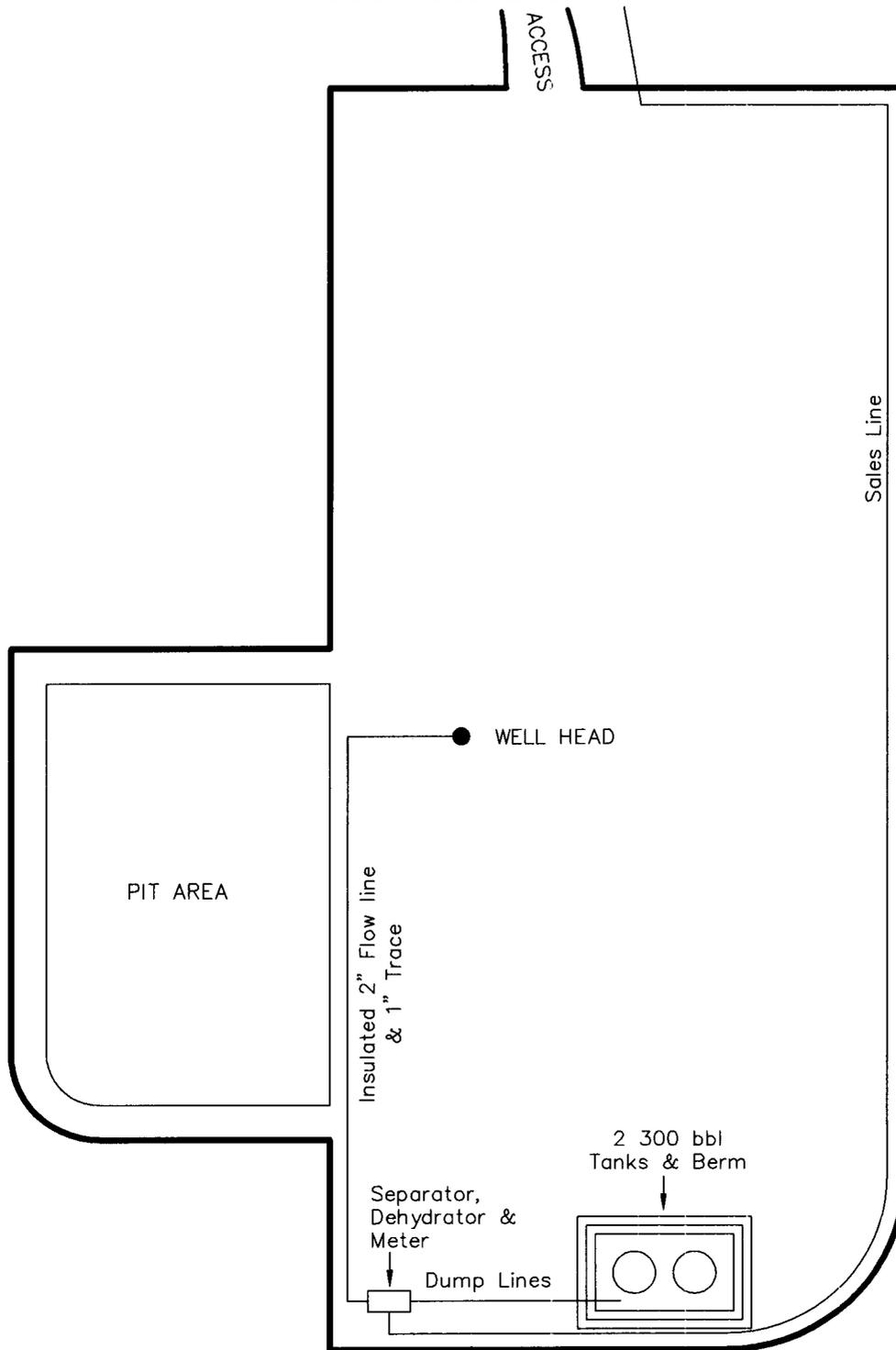
**Timberline** (435) 789-1365  
Land Surveying, Inc.  
38 WEST 100 NORTH VERNAL, UTAH 84078

SHEET  
**6**  
OF 11

MILLER, DYER & CO. LLC

TYPICAL PRODUCTION LAYOUT

UTE TRIBAL 1-25-14-19



Section 30, T14S, R20E, S.L.B.&M. (Surface)

Qtr/Qtr Location: SW NW

Date Surveyed:  
01-18-07

Date Drawn:  
01-25-07

Date Last Revision:

**Timberline** (435) 789-1365  
Land Surveying, Inc.

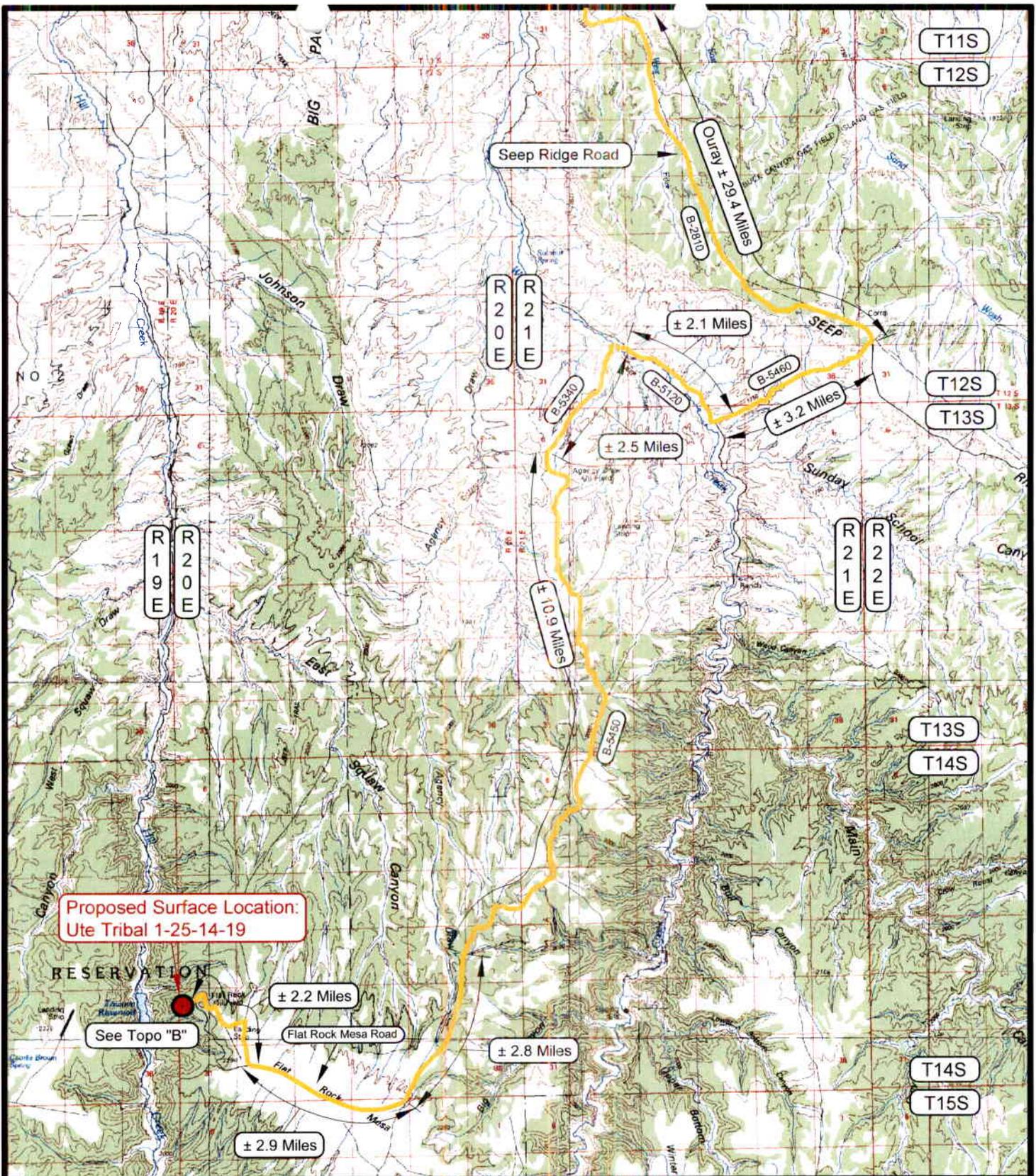
SHEET  
7  
OF 11

Surveyed By: A.D.F..

Drawn By: M.W.W.

Scale: 1" = 50'

38 WEST 100 NORTH VERNAL, UTAH 84078



Proposed Surface Location:  
Ute Tribal 1-25-14-19

See Topo "B"

LEGEND

- PROPOSED ACCESS ROAD
- = SUBJECT WELL
- = OTHER WELLS
- = EXISTING ROAD
- = EXISTING ROAD (TO BE IMPROVED)
- (B-5460) = COUNTY ROAD CLASS & NUMBER

TOPOGRAPHIC MAP "A"

DATE SURVEYED: 01-18-07

DATE DRAWN: 01-25-07

SCALE: 1:150,000

DRAWN BY: M.W.W.

REVISED:

MILLER, DYER & CO. LLC

Ute Tribal 1-25-14-19  
SECTION 30, T14S, R20E, S.L.B.&M.  
1594' FNL & 274' FWL (Surface)

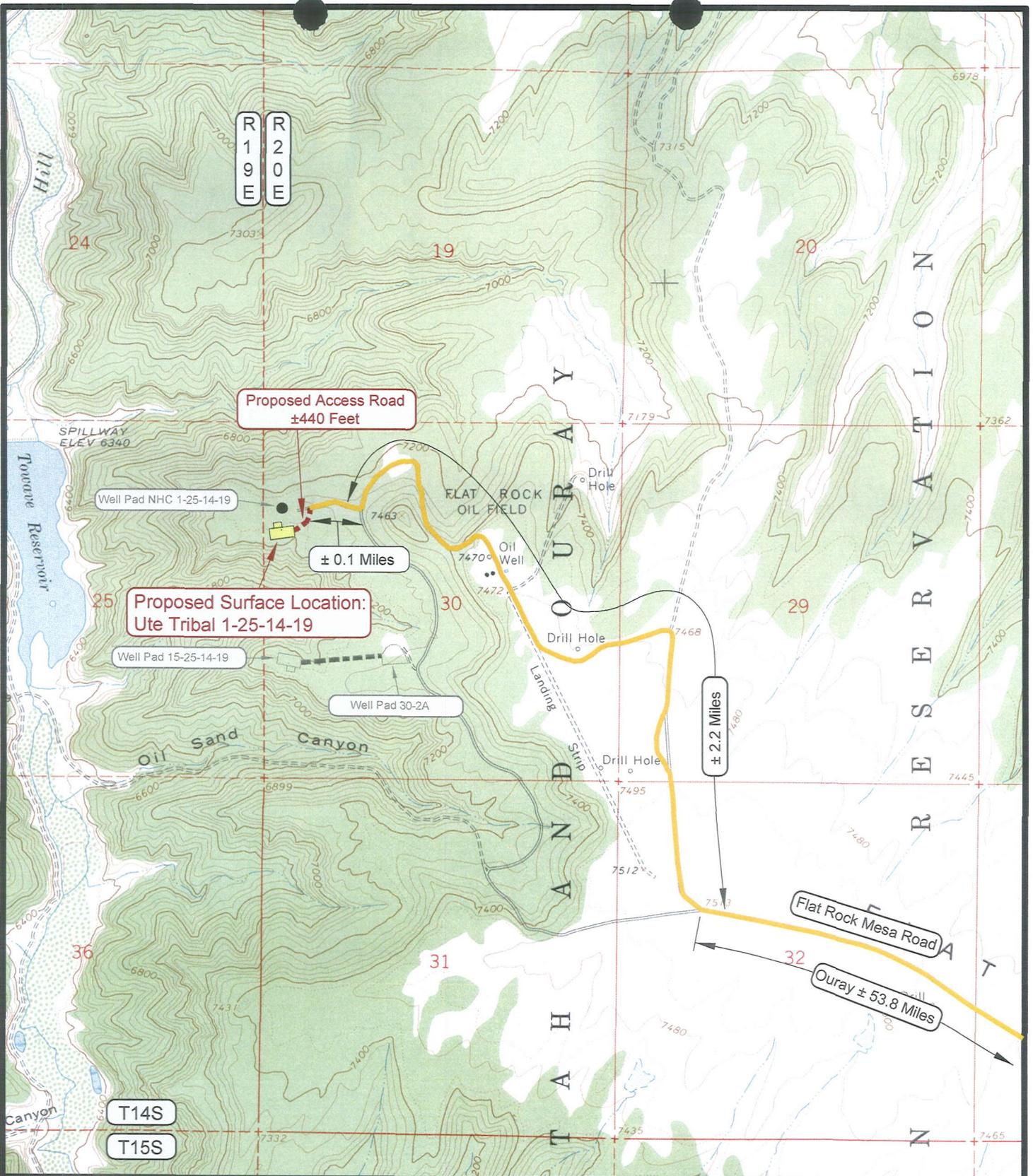
Timberline Land Surveying, Inc.

38 West 100 North Vernal, Utah 84078  
(435) 789-1365

SHEET

8

OF 11



**LEGEND**

- - - = PROPOSED ACCESS ROAD
 — = LEASE LINE AND / OR PROPERTY LINE
- = SUBJECT WELL
 - - - = SHARED ACCESS
- = EXISTING ROAD
 — = EXISTING ROAD (TO BE IMPROVED)
- B-5460 = COUNTY ROAD CLASS & NUMBER

**TOPOGRAPHIC MAP "B"**

DATE SURVEYED: 01-18-07

DATE DRAWN: 01-25-07

SCALE: 1" = 2000'

DRAWN BY: M.W.W.

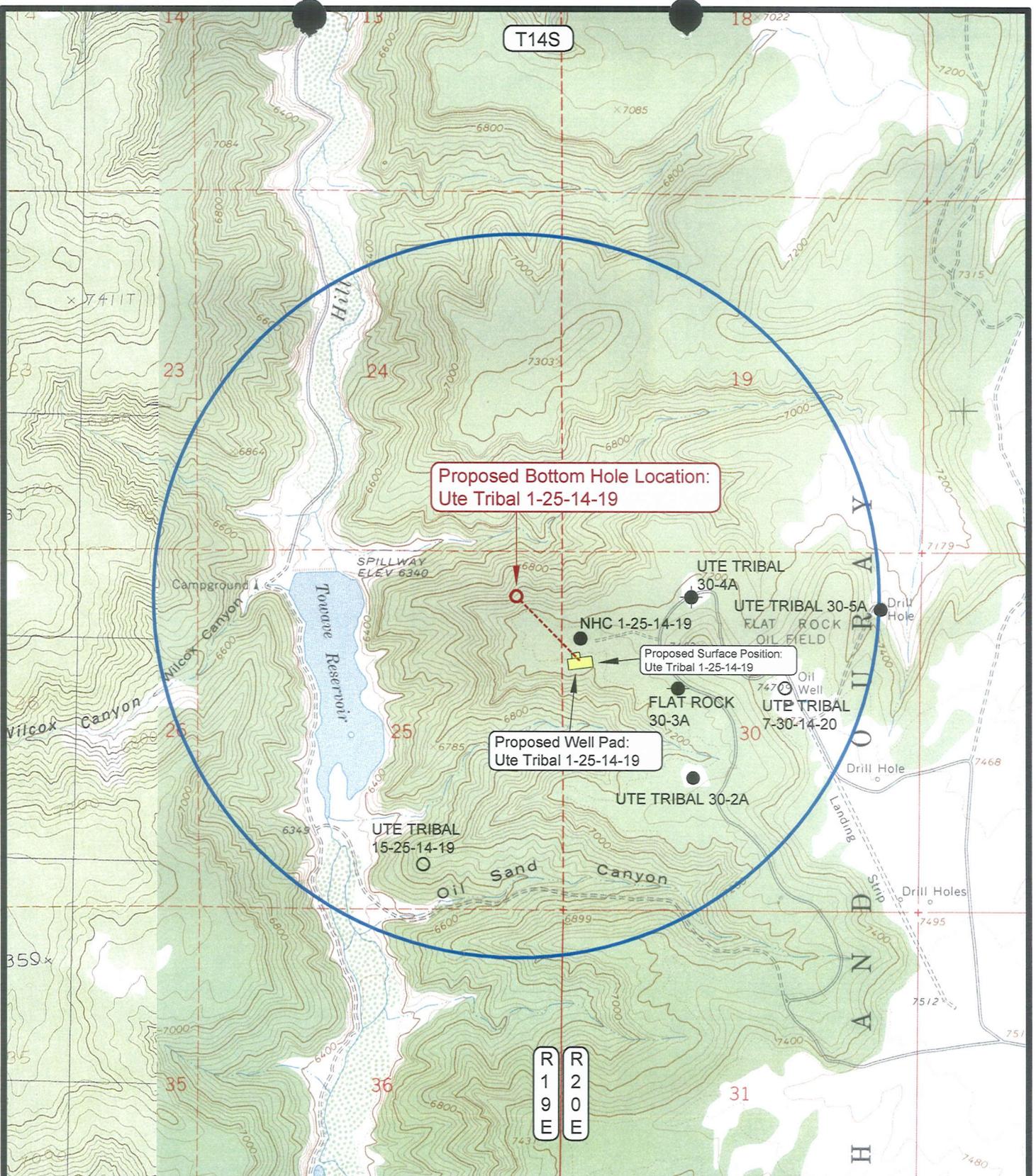
REVISED:

**MILLER, DYER & CO. LLC**

**Ute Tribal 1-25-14-19  
SECTION 30, T14S, R20E, S.L.B.&M.  
1594' FNL & 274' FWL (Surface)**

**Timberline Land Surveying, Inc.**  
38 West 100 North Vernal, Utah 84078  
(435) 789-1365

**SHEET  
9  
OF 11**



Proposed Bottom Hole Location:  
Ute Tribal 1-25-14-19

Proposed Surface Position:  
Ute Tribal 1-25-14-19

Proposed Well Pad:  
Ute Tribal 1-25-14-19

**LEGEND**

- ⊘ = DISPOSAL WELL
- = PRODUCING WELL
- = SHUT IN WELL
- = PROPOSED WELL
- ⊘ = WATER WELL
- = ABANDONED WELL
- = TEMPORARILY ABANDONED WELL
- ⊘ = ABANDONED LOCATION

**MILLER, DYER & CO. LLC**

**Ute Tribal 1-25-14-19**  
**SECTION 25, T14S, R19E, S.L.B.&M.**  
**Bottom Hole: 660' FNL & 660' FEL**

**TOPOGRAPHIC MAP "C"**

DATE SURVEYED: 01-18-07

DATE DRAWN: 01-25-07

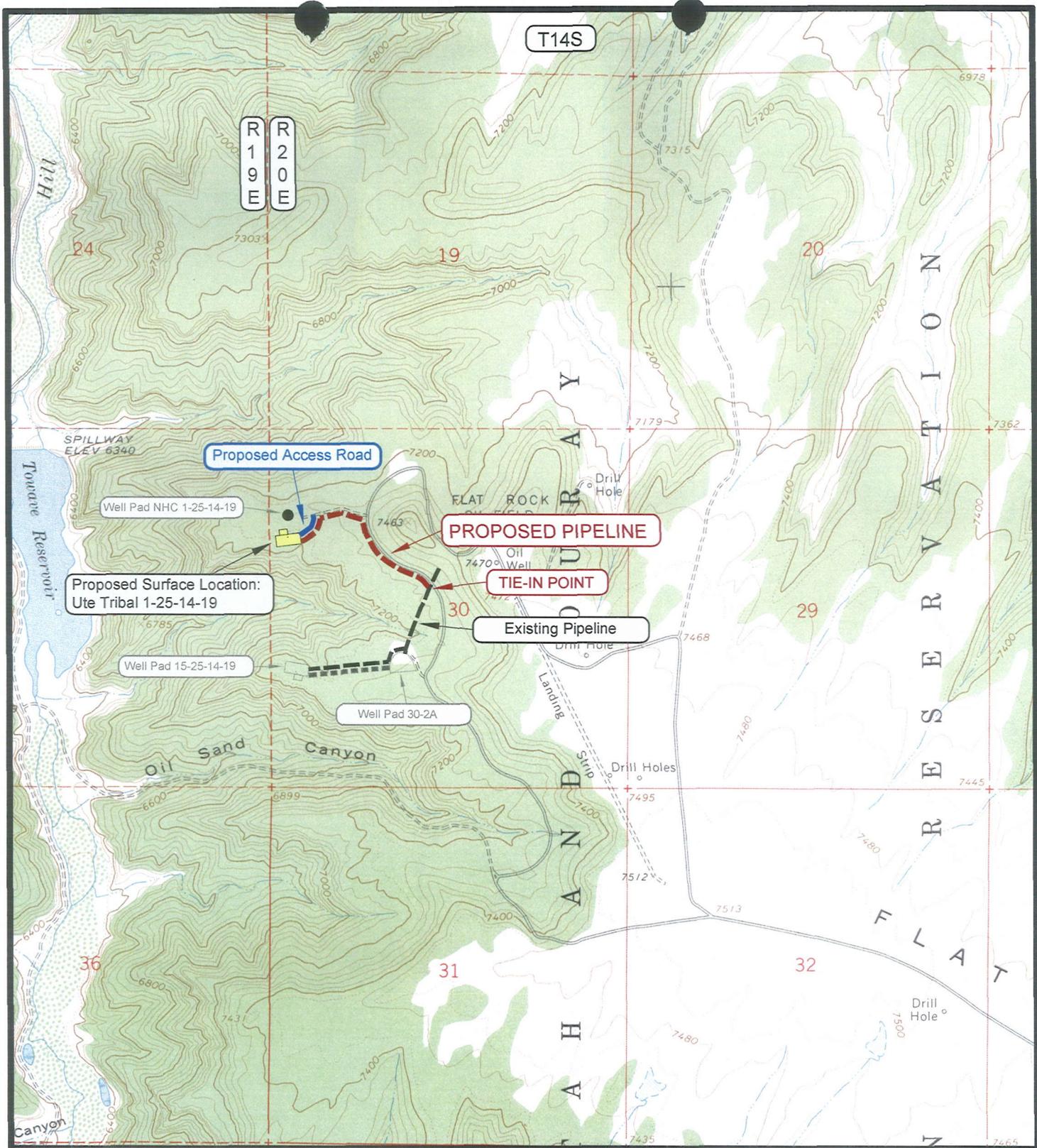
SCALE: 1" = 2000'

DRAWN BY: M.W.W.

REVISED:

**Timberline Land Surveying, Inc.**  
 38 West 100 North Vernal, Utah 84078  
 (435) 789-1365

**SHEET**  
**10**  
**OF 11**



**APPROXIMATE PIPELINE LENGTH = ±2,635 FEET**

**LEGEND**

- - - - - = PROPOSED PIPELINE
- - - - - = OTHER PIPELINE
- - - - - = LEASE LINE AND / OR PROPERTY LINE
- = PROPOSED ACCESS ROAD
- = SUBJECT WELL
- = OTHER WELLS

**TOPOGRAPHIC MAP "D"**

DATE SURVEYED: 01-18-07

DATE DRAWN: 01-25-07

SCALE: 1" = 2000'

DRAWN BY: M.W.W.

REVISED:

**MILLER, DYER & CO. LLC**

**Ute Tribal 1-25-14-19**  
**SECTION 30, T14S, R20E, S.L.B.&M.**  
**1594' FNL & 274' FWL (Surface)**

**Timberline Land Surveying, Inc.**  
 38 West 100 North Vernal, Utah 84078  
 (435) 789-1365

**SHEET**  
**11**  
**OF 11**

**WORKSHEET  
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 02/16/2007

API NO. ASSIGNED: 43-047-39053
--------------------------------

WELL NAME: UTE TRIBAL 1-25-14-19  
 OPERATOR: MILLER, DYER & CO, LLC ( N2580 )  
 CONTACT: JEFF LANG

PHONE NUMBER: 303-292-0949

PROPOSED LOCATION:

*NE NE*  
 SWNW 30 140S 200E  
 SURFACE: 1594 FNL 0274 FWL  
 BOTTOM: 0660 FNL 0660 FEL *R19E*  
 COUNTY: UINTAH  
 LATITUDE: 39.57318 LONGITUDE: -109.7281  
 UTM SURF EASTINGS: 609245 NORTHINGS: 4380949  
 FIELD NAME: FLAT ROCK ( 600 )

INSPECT LOCATN BY: / /		
Tech Review	Initials	Date
Engineering		
Geology		
Surface		

LEASE TYPE: 2 - Indian  
 LEASE NUMBER: 20G0005581  
 SURFACE OWNER: 2 - Indian

PROPOSED FORMATION: WINGT  
 COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

- Plat
- Bond: Fed[] Ind[2] Sta[] Fee[]  
(No. RLB0008085 )
- Potash (Y/N)
- Oil Shale 190-5 (B) or 190-3 or 190-13
- Water Permit  
(No. 14-20-H62- )
- RDCC Review (Y/N)  
(Date: \_\_\_\_\_ )
- Fee Surf Agreement (Y/N)
- Intent to Commingle (Y/N)

LOCATION AND SITING:

- R649-2-3.
- Unit: \_\_\_\_\_
- R649-3-2. General  
Siting: 460 From Qtr/Qtr & 920' Between Wells
- R649-3-3. Exception
- Drilling Unit  
Board Cause No: \_\_\_\_\_  
Eff Date: \_\_\_\_\_  
Siting: \_\_\_\_\_
- R649-3-11. Directional Drill

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

STIPULATIONS: 1- Federal Approval  
2- Spacing Strip



OPERATOR: MILLER, DYER & CO (N2580)

SEC: 30 T.14S R. 20E

FIELD: FLAT ROCK (600)

COUNTY: UINTAH

SPACING: R649-3-11 / DIRECTIONAL DRILLING

**Field Status**

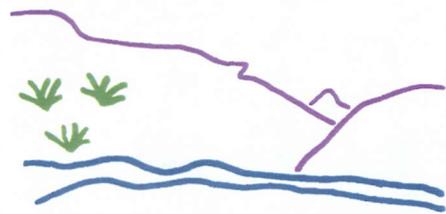
	ABANDONED
	ACTIVE
	COMBINED
	INACTIVE
	PROPOSED
	STORAGE
	TERMINATED

**Unit Status**

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

**Wells Status**

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



Utah Oil Gas and Mining



PREPARED BY: DIANA MASON  
DATE: 20-FEBRUARY-2007

**From:** "David L Allin" <allinpro@bresnan.net>  
**To:** "Bradley Hill" <bradhill@utah.gov>  
**Date:** 3/2/2007 12:13:53 PM  
**Subject:** Miller, Dyer & Co UT 1-25-14-19 & UT 15-25-14-19

Mr. Hill:

Del-Rio Resources, Inc. (Del-Rio) is the owner of 100% of the operating rights beneath the top of the Mesaverde Group sediments in BLM Oil and Gas Lease UTU-019837 encompassing all of Section 30, T14S, R20E, SLM and a total of 627.84 acres. The Ute Tribal 1-25-14-19 and Ute Tribal 15-25-14-19 (proposed wells) are planned to allow completions in zones below the top of the Mesaverde Group at locations within the allowable windows of 40 acre tracts under the vertical well location and siting rule (Rules at R649-3-2-1).

Del-Rio has no objection to the issuance of APD's for the proposed wells. However, Del-Rio requests that Miller, Dyer & Co., LLC furnish to Del-Rio, or the Utah DOGM on Del-Rio's behalf, proof in the form of post-construction, directional surveys and completion data that the wells actually conform to the proposed plans. Depending upon the actual, finished trajectories of the proposed wells they could encroach Del-Rio's rights, or possibly in the case of an extremely deviated well bore, be subject to the 660' setback prescribed for horizontal intervals adjacent to the west boundary line of UTU-019837 per the Rules at R649-3-2-3.

The Flat Rock Field and the area of the proposed wells is not currently subject to any spacing orders. The wells completed in zones below the base of the Morrison Formation have been, at various operators' (including Del-Rio's) discretion spaced on lay-down 80 acre tracts. However, due to the orientations of sedimentary depositional porosity trends and fracture trends the actual drainage areas are likely elongated, not perfectly east-west oriented and could influence the petroleum reserve balance beyond the boundaries of the lay-down 80 acre tracts. This is a concern that the Flat Rock Field operators have not addressed in any rigorous fashion in the past, but has become an issue more recently due to a lease ownership dispute between Del Rio and the employers of Miller, Dyer & Co., LLC.

Del-Rio is concerned that a previously constructed well, the Flat Rock 13-29-14-20 in SWSW Section 29, T14S, R20E, SLM was permitted as a vertical well, but was partially drilled with directional tools in an attempt to keep the well within the allowed vertical window. Del-Rio was not furnished any proof that the east boundary of Del-Rio's rights in UTU-019837 has not been encroached under the Rules as a result of the completion of this well (disregarding its actual area of influence). The situation was duplicated with the Flat Rock 3-29-14-20 well in NENW Section 29, T14S, R20E, SLM and that well may have encroached rights owned by Del-Rio in the northerly adjacent Section 20 under BLM Oil and Gas Lease UTU-10164.

This writing is not intended to be a formal complaint related to drainage and encroachment issues. Del-Rio does not wish to impede the construction of the proposed wells in any fashion. Del-Rio is very concerned with preserving and defending its rights from encroachment since it has been constructively barred from developing its rights in UTU-019837 due to ongoing litigation with the employers of Miller, Dyer & Co., LLC. UTU-019837 should have been completely developed by now under different

circumstances. Del-Rio requests and deserves proof that its rights under the Rules have not been violated once the proposed wells are completed. Del-Rio further deserves proof that its rights elsewhere are preserved under the Rules.

Best regards,

Dave

David L. Allin  
Del-Rio Resources, Inc. Exploration Manager  
AAPG Certified Petroleum Geologist 2934  
Utah Licensed Professional Geologist 5526699-2250  
dba Allin Proprietary  
475 Seasons Drive  
Grand Junction, CO 81503-8749  
Telephone (970) 254-3114  
Telefax (970) 254-3117  
<mailto:allinpro@bresnan.net> allinpro@bresnan.net

**CC:** "Marc T Eckels" <marceckels@windrivercompanies.com>, <jlang@millerdyer.com>



**State of Utah**

**Department of  
Natural Resources**

MICHAEL R. STYLER  
*Executive Director*

**Division of  
Oil, Gas & Mining**

JOHN R. BAZA  
*Division Director*

JON M. HUNTSMAN, JR.  
*Governor*

GARY R. HERBERT  
*Lieutenant Governor*

March 5, 2007

Miller, Dyer & Co., LLC  
475 17th St., Ste. 1200  
Denver, CO 80202

Re: Ute Tribal 1-25-14-19 Well, Surface Location 1594' FNL, 274' FWL, SW NW,  
Sec. 30, T. 14 South, R. 20 East, Bottom Location 660' FNL, 660' FEL,  
NE NE, Sec. 25, T. 14 South, R. 19 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 43-047-39053.

Sincerely,

Gil Hunt  
Associate Director

pab  
Enclosures

cc: Uintah County Assessor (via e-mail)  
Bureau of Land Management, Vernal District Office

Operator: Miller, Dyer & Co., LLC  
Well Name & Number Ute Tribal 1-25-14-19  
API Number: 43-047-39053  
Lease: 20G0005581

Surface Location: SW NW Sec. 30 T. 14 South R. 20 East  
Bottom Location: NE NE Sec. 25 T. 14 South R. 19 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

Notify the Division with 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact 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. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.

#### 5. This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

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

RECEIVED  
VERNAL FIELD OFFICE

2007 FEB 16 PM 3:28

Form 3160-3  
(August 1999)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED  
OMB No. 1004-0136  
Expires November 30, 2000  
DEPT. OF THE INTERIOR  
BUREAU OF LAND MGMT.

5. Lease Serial No.  
20G0005581

6. If Indian, Allottee or Tribe Name  
Ute Indian Tribe

7. If Unit or CA Agreement, Name and No.  
N/A

8. Lease Name and Well No.  
Ute Tribal 1-25-14-19

9. API Well No.  
43,047,39053

10. Field and Pool, or Exploratory  
Flat Rock

11. Sec., T., R., M., or Blk. and Survey or Area  
Sec. 25, T14S, R19E, SLB&M

12. County or Parish  
Uintah

13. State  
Utah

1a. Type of Work:  DRILL  REENTER

1b. Type of Well:  Oil Well  Gas Well  Other  Single Zone  Multiple Zone

2. Name of Operator  
Miller, Dyer & Co., LLC

3a. Address  
475 17th St. Suite 1200 Denver, CO 80202

3b. Phone No. (include area code)  
303-292-0949

4. Location of Well (Report location clearly and in accordance with any State requirements. \*)  
At surface 1594 FNL 274 FWL SWNW (Sec. 30 T14S-R20E)  
At proposed prod. zone 660 FNL 660 FEL NENE (Sec. 25 T14S-R19E)

14. Distance in miles and direction from nearest town or post office\*  
See Topo Map "A" (Attached)

15. Distance from proposed\*  
location to nearest  
property or lease line, ft. 660'  
(Also to nearest drig. unit line, if any)

16. No. of Acres in lease  
640

17. Spacing Unit dedicated to this well  
40

18. Distance from proposed location\*  
to nearest well, drilling, completed,  
applied for, on this lease, ft. 200'

19. Proposed Depth  
13,245'

20. BLM/BIA Bond No. on file  
UTB000058

21. Elevations (Show whether DF, KDB, RT, GL, etc.)  
7220' GL

22. Approximate date work will start\*  
07/01/2007

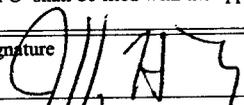
23. Estimated duration  
1-1/2 Month

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

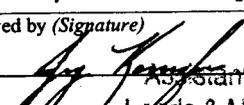
- 1. Well plat certified by a registered surveyor.
- 2. A Drilling Plan.
- 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).

- 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- 5. Operator certification.
- 6. Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature  
  
Title  
Vice President of Operations

Name (Printed/Typed)  
Jeffrey H. Lang

Date  
2/15/07

Approved by (Signature)  
  
Title  
Assistant Field Manager  
Lands & Mineral Resources

Name (Printed/Typed)  
Jerry Kawaka  
Office  
VERNAL FIELD OFFICE

Date  
3-28-2007

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
Conditions of approval, if any, are attached.

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

\*(Instructions on reverse)

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED

RECEIVED

MAR 30 2007

DIV. OF OIL, GAS & MINING

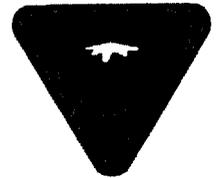


**UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
VERNAL FIELD OFFICE**

170 South 500 East

VERNAL, UT 84078

435-781-4400



**CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL**

**Company:** Miller Dyer & CO., LLC  
**Well No:** Ute Tribal 1-25-14-19  
**API No:** 43-047-39053

**Location:** SWNW, Sec. 25, T14S, R19E  
**Lease No:** 20G0005581  
**Agreement:** N/A

Title	Name	Office Phone Number	Cell Phone Number
Petroleum Engineer:	Matt Baker	435-781-4490	435-828-4470
Petroleum Engineer:	Michael Lee	435-781-4432	435-828-7875
Petroleum Engineer:	James Ashley	435-781-4470	435-828-7874
Petroleum Engineer:	Ryan Angus	435-781-4430	435-828-7368
Supervisory Petroleum Technician:	Jamie Sparger	435-781-4502	435-828-3913
NRS/Enviro Scientist:	Paul Buhler	435-781-4475	435-828-4029
NRS/Enviro Scientist:	Karl Wright	435-781-4484	
NRS/Enviro Scientist:	Holly Villa	435-781-4404	
NRS/Enviro Scientist:	Melissa Hawk	435-781-4476	435-828-7381
NRS/Enviro Scientist:	Chuck MacDonald	435-781-4441	435-828-7481
NRS/Enviro Scientist:	Jannice Cutler	435-781-3400	
NRS/Enviro Scientist:	Michael Cutler	435-781-3401	
NRS/Enviro Scientist:	Anna Figueroa	435-781-3407	
NRS/Enviro Scientist:	Verlyn Pindell	435-781-3402	
NRS/Enviro Scientist:	Darren Williams	435-781-4447	
NRS/Enviro Scientist:	Nathan Packer	435-781-3405	
<b>After Hours Contact Number: 435-781-4513</b>		<b>Fax: 435-781-4410</b>	

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR  
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations 43 CFR Part 3160, and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a one-year period. An additional year extension may be applied for by sundry notice prior to expiration.**

**NOTIFICATION REQUIREMENTS**

Location Construction Notify Environmental Scientist	- Forty-Eight 48 hours prior to construction of location and access roads.
Location Completion Notify Environmental Scientist	- Prior to moving on the drilling rig.
Spud Notice Notify Petroleum Engineer	- Twenty-Four 24 hours prior to spudding the well.
Casing String & Cementing Notify Supv. Petroleum Tech.	- Twenty-Four 24 hours prior to running casing and cementing all casing strings.
BOP & Related Equipment Tests Notify Supv. Petroleum Tech.	- Twenty-Four 24 hours prior to initiating pressure tests.
First Production Notice Notify Petroleum Engineer	- Within Five 5 business days after new well begins or production resumes after well has been off production for more than ninety 90 days.

**SURFACE USE PROGRAM  
CONDITIONS OF APPROVAL COAs**

**General Surface COAs**

- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer AO. A report will be prepared by a BLM permitted paleontologist and submitted to the AO at the completion of surface disturbing activities.

**Specific Surface COAs**

- Paint production equipment Olive Black.
- A 55 foot corridor right-of-way shall be approved. Upon completion of each pipeline in corridor, they shall be identified and filed with the Ute Tribe.
- A qualified Archeologist accompanied by a Tribal Technician will monitor construction of pipelines. If pipelines are buried, Right-of-Way must be modified to reflect that with Agency Superintendent approval.
- The Ute Tribe Energy and Minerals Department is to be notified, in writing 48 hours prior to the construction.
- Construction Notice shall be given to the Ute Tribe Energy and Minerals Department Monday through Thursday. The Company understands that they may be responsible for costs incurred by the Ute Tribe after hours.
- The Company shall inform contractors to maintain construction of pipelines within the approved ROWs.
- The Company shall assure the Ute Tribe that all contractors including subcontractors, leasing contractors, etc. have acquired a current and valid Ute Tribal Business License and have Access Permits prior to construction, and will have these permits in vehicles at all times.
- You are hereby notified that working under the "umbrella" of a company does not allow you to be in the field, and can be subject to those fines of the Ute Tribe Severance Tax Ordinance.
- Any deviation of submitted APDs and ROW applications, the Company will notify the Ute Tribe and the BIA in writing, and will receive written authorization of any such change with appropriate authorization (Agency Superintendent).
- The Company will implement and have available upon request a "Safety and Emergency Plan." The Company's safety director will ensure its compliance.
- All Company Employees and/or authorized personnel (sub-contractors) in the field will have approved applicable APDs and/or ROW permissions/authorizations on their person(s) during all phases of construction.

- All vehicular traffic, personnel movement, construction/restoration operations should be confined to the area examined and approved, and to existing roadways and/or evaluated access routes.
- All personnel shall refrain from collecting artifacts, any paleontological fossils, and disturbing any significant cultural resources in the area.
- Ute Tribe Energy and Minerals Department shall be notified immediately should any cultural remains from sub-surface deposits be exposed or identified during construction. All construction activities will immediately cease.
- All mitigative stipulations contained in the BIA Site Specific Environmental Assessment (EA) will be strictly adhered to.
- Upon completion of Application for Corridor Right-of-Way, the Company will notify the Ute Tribe Energy and Minerals Department so a Tribal technician can verify Affidavit of Completion.
- Secondary containment must be adequate.
- Berm entire location from corner #8 to corner #10 to keep fluids on location.
- Paint all tanks and equipment juniper green or equivalent to blend with the surroundings.
- Use appropriate pipeline crossings to access road.
- Use silt catchment structure where horse trail crosses access road to prevent further erosion.

## **DOWNHOLE CONDITIONS OF APPROVAL**

### **SITE SPECIFIC DOWNHOLE CONDITIONS OF APPROVAL**

- All BOPE shall be 3M, including the choke manifold, and tested to 3M.
- Production casing cement top shall be at a minimum of 200' above the surface casing shoe and a CBL shall be run from TD to the top of cement.
- A complete set of angular deviation and directional surveys of this directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.

**All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to.** The following items are emphasized:

### **DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS**

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- Blowout prevention equipment BOPE shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources such as Gilsonite, tar sands, oil shale, trona, etc. to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth from KB or GL of encounter, vertical footage of the encounter and, the name of the person

making the report along with a telephone number should the BLM need to obtain additional information.

- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- Chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log CBL will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to UT\_VN\_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

## **OPERATING REQUIREMENT REMINDERS:**

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" Oil and Gas Operations Report OGOR starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 303 231-3650 for reporting information.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - Operator name, address, and telephone number.
  - Well name and number.
  - Well location  $\frac{1}{4}$  $\frac{1}{4}$ , Sec., Twn, Rng, and P.M..
  - Date well was placed in a producing status date of first production for which royalty will be paid.
  - The nature of the well's production, i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons.
  - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - Unit agreement and/or participating area name and number, if applicable.
  - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees NTL 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events fires, accidents, blowouts, spills, discharges as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" BLM Form 3160-4 shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data

obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples cuttings, fluid, and/or gas shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" Form BLM 3160-5 must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

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

RECEIVED

FEB 25 2008

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

DIV. OF OIL, GAS & MINING

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

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		6. LEASE DESIGNATION AND SERIAL NUMBER: 20G0005581
2. NAME OF OPERATOR: Miller, Dyer & Co. LLC		8. WELL NAME and NUMBER: Ute Tribal 1-25-14-19
3. ADDRESS OF OPERATOR: 475 17th St. Suite 1200 CITY Denver STATE CO ZIP 80202		9. API NUMBER: 4304739053
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1594 FNL 274 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNW 30 14S 20E S		10. FIELD AND POOL, OR WILDCAT: Flat Rock
		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 (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"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>Permit Extension</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.

Miller, Dyer & Co. LLC requests to extend the Permit to Drill for this well for one year. The original approval date was 3/5/2007 (expiration 3/5/2008)

Approved by the  
Utah Division of  
Oil, Gas and Mining

Date: 02-25-08  
By: [Signature]

COPY SENT TO OPERATOR  
Date: 2-26-2008  
Initials: KS

NAME (PLEASE PRINT) <u>Jeffrey H. Lang</u>	TITLE <u>Vice President of Operations</u>
SIGNATURE <u>[Signature]</u>	DATE <u>1/28/08</u>

(This space for State use only)

RECEIVED

FEB 25 2008

DIV. OF OIL, GAS & MINING

RESET

**Application for Permit to Drill  
Request for Permit Extension  
Validation**

(this form should accompany the Sundry Notice requesting permit extension)

**API:** 43-047-39053  
**Well Name:** Ute Tribal #1-25-14-19  
**Location:** T14S-R20E-Section 30 SWNW, Uintah County, Utah  
**Company Permit Issued to:** Miller, Dyer & Co. LLC  
**Date Original Permit Issued:** 3/5/2007

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.

If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes  No  N/A

Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes  No

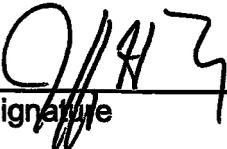
Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes  No

Have there been any changes to the access route including ownership, or right-of-way, which could affect the proposed location? Yes  No

Has the approved source of water for drilling changed? Yes  No

Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes  No

Is bonding still in place, which covers this proposed well? Yes  No

  
\_\_\_\_\_  
Signature

2/4/2008  
\_\_\_\_\_  
Date

Title: Vice President of Operations

Representing: Miller, Dyer & Co. LLC

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

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.*

5. Lease Serial No.  
20G0005581

6. If Indian, Allottee or Tribe Name  
Ute Indian Tribe

**SUBMIT IN TRIPLICATE** – Other instructions on page 2.

7. If Unit of CA/Agreement, Name and/or No.  
N/A

1. Type of Well

Oil Well     Gas Well     Other

8. Well Name and No.  
Ute Tribal 1-25-14-19

2. Name of Operator  
Miller, Dyer & Co. LLC

9. API Well No.  
4304739053

3a. Address  
475 17th St. Suite 1200, Denver, CO 80202

3b. Phone No. (include area code)  
303-292-0949

10. Field and Pool or Exploratory Area  
Flat Rock

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
1594 FNL 274 FWL SWNW Section 30, T14S-R20E SLM

11. Country or Parish, State  
Uintah County, Utah

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <u>Permit Extension</u>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

Miller, Dyer & Co. LLC requests to extend the Permit to Drill for the Ute Tribal 1-25-14-19 well for one year. The original approval date was 03/28/2007 (expiration 03/28/2008).

**CONDITIONS OF APPROVAL ATTACHED**

RECEIVED  
 GENERAL FIELD OFFICE  
 BUREAU OF LAND MANAGEMENT  
 2008 MAR -7 PM 2:04

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)  
Jeffrey H. Lang

Title Vice President of Operations

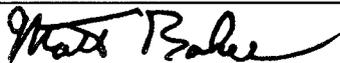
Signature



Date 03/04/2008

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by



**Petroleum Engineer**

MAR 27 2008

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title  
Office

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

**RECEIVED**

(Instructions on page 2)

**UDOGM**

APR 18 2008

DIV. OF OIL, GAS & MINING

# CONDITIONS OF APPROVAL

## Miller, Dyer & Co. LLC

### Notice of Intent APD Extension

**Lease:** 20G0005581  
**Well:** Ute Tribal 1-25-14-19  
**Location:** SWNW Sec 30-T14S-R20E

An extension for the referenced APD is granted with the following conditions:

---

1. The extension and APD shall expire on 03/28/09
2. No other extension shall be granted.

If you have any other questions concerning this matter, please contact Matt Baker of this office at (435) 781-4490

Division of Oil, Gas and Mining  
**OPERATOR CHANGE WORKSHEET**

<b>ROUTING</b>
1. DJJ
2. CDW

**X - Change of Operator (Well Sold)**

Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective:

**6/1/2008**

<b>FROM:</b> (Old Operator): N2580-Miller, Dyer & Co, LLC 475 17th St, Suite 1200 Denver, CO 80202  Phone: 1 (303) 292-0949	<b>TO:</b> ( New Operator): N2680-Whiting Oil & Gas Company 1700 Broadway, Suite 2300 Denver, CO 80290  Phone: 1 (303) 837-1661
--	--

CA No.		Unit:						
WELL NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
SEE ATTACHED LIST								

**OPERATOR CHANGES DOCUMENTATION**

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 6/5/2008
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 6/5/2008
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 7/16/2008
- a. Is the new operator registered in the State of Utah: Business Number: 5890476-0143
- b. If **NO**, the operator was contacted on: \_\_\_\_\_
- a. (R649-9-2)Waste Management Plan has been received on: REQUESTED 7/16/2008
- b. Inspections of LA PA state/fee well sites complete on: done
- c. Reports current for Production/Disposition & Sundries on: ok
- Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM not yet BIA not yet
- Federal and Indian Units:**  
The BLM or BIA has approved the successor of unit operator for wells listed on: n/a
- Federal and Indian Communization Agreements ("CA"):**  
The BLM or BIA has approved the operator for all wells listed within a CA on: n/a
- Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: n/a

**DATA ENTRY:**

- Changes entered in the **Oil and Gas Database** on: 7/16/2008
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 7/16/2008
- Bond information entered in RBDMS on: 7/16/2008
- Fee/State wells attached to bond in RBDMS on: 7/16/2008
- Injection Projects to new operator in RBDMS on: n/a
- Receipt of Acceptance of Drilling Procedures for APD/New on: 7/16/2008

**BOND VERIFICATION:**

- Federal well(s) covered by Bond Number: UTB000148
- Indian well(s) covered by Bond Number: RLB0011681
- a. (R649-3-1) The **NEW** operator of any state/fee well(s) listed covered by Bond Number RLB0004585
- b. The **FORMER** operator has requested a release of liability from their bond on: not yet

**LEASE INTEREST OWNER NOTIFICATION:**

- (R649-2-10) The **NEW** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

**COMMENTS:**

**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.

<b>1. TYPE OF WELL</b> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: <b>See Attached List</b>
<b>2. NAME OF OPERATOR:</b> Whiting Oil And Gas Company <i>N21680</i>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
<b>3. ADDRESS OF OPERATOR:</b> 1700 Broadway, Ste 2300 CITY Denver STATE CO ZIP 80290		7. UNIT or CA AGREEMENT NAME:
PHONE NUMBER: (303) 837-1661		8. WELL NAME and NUMBER: <b>See Attached List</b>
<b>4. LOCATION OF WELL</b> FOOTAGES AT SURFACE: COUNTY:  QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: STATE: <b>UTAH</b>		9. API NUMBER:  10. FIELD AND POOL, OR WILDCAT:

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

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

Effective 6/1/2008, please change the Operator of record from Miller, Dyer & Co., LLC to Whiting Oil and Gas Corporation. Whiting Oil and Gas Corporation Utah State bond is #RLB0004585 or Utah BLM Bond #UTB-000148. See attached well list.

*RLB0004585*  
*BIA RLB0011681*

Whiting Oil and Gas Corporation  
1700 Broadway, Suite 2300  
Denver, CO 80290  
(303) 837-1661

Miller, Dyer & Co., LLC  
475 17th Street, Suite 1200 *N2580*  
Denver, CO 80202

Miller, Dyer & Co., LLC

**RECEIVED**  
**JUN 05 2008**  
DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT) JEFFREY H. LANG TITLE VP OPERATIONS  
SIGNATURE *JHL* DATE 6/3/08

Whiting Oil and Gas Corporation

NAME (PLEASE PRINT) Rick Ross TITLE VP OPERATIONS  
SIGNATURE *R Ross* DATE 6/3/08

(This space for State use only)

**APPROVED** 7/16/2008  
*Earlene Russell*  
Division of Oil, Gas and Mining  
Earlene Russell, Engineering Technician

well_name	sec	twp	rng	api	entity	lease	well	stat 2	flag
UTE TRIBAL 32-5A	32	140S	200E	4304710577	12655	State	GW	S	
UTE TRIBAL 30-3A	30	140S	200E	4304710913	12395	Federal	OW	P	
UTE TRIBAL 30-5A	30	140S	200E	4304720502	12654	Federal	GW	S	
UTE TRIBAL 30-2A	30	140S	200E	4304730641	8112	Federal	GW	P	
UTE TRIBAL 29-1A	29	140S	200E	4304730981	8118	Federal	GW	P	
UTE TRIBAL 32-1A	32	140S	200E	4304732758	12064	State	OW	P	
UTE TRIBAL 29-2A	29	140S	200E	4304732945	8118	Federal	OW	P	
UTE TRIBAL 32-2A	32	140S	200E	4304733333	12658	State	GW	P	
UTE TRIBAL 32-3A	32	140S	200E	4304733334	12657	State	GW	S	
UTE TRIBAL 32-4A	32	140S	200E	4304733335	12656	State	GW	P	
UTE TRIBAL 32-6A	32	140S	200E	4304733337	12662	State	GW	P	
CHIMNEY ROCK 32-11	32	130S	210E	4304733445	12984	State	GW	S	
CHIMNEY ROCK 32-13	32	130S	210E	4304733447	12985	State	GW	P	
CHIMNEY ROCK 32-14	32	130S	210E	4304733448	12983	State	GW	P	
UTE TRIBAL 32-8A	32	140S	200E	4304733557	13066	State	GW	P	
UTE TRIBAL 32-12A	32	140S	200E	4304733558	13064	State	GW	P	
UTE TRIBAL 28-1A	28	140S	200E	4304733595	13059	Federal	GW	S	
UTE TRIBAL 30-6A	30	140S	200E	4304733596	13062	Federal	GW	P	
UTE TRIBAL 29-4A	29	140S	200E	4304733616	13060	Federal	GW	P	
UTE TRIBAL 29-5A	29	140S	200E	4304733617	13061	Federal	GW	P	
UTE TRIBAL 32-7A	32	140S	200E	4304733618	13065	State	GW	S	
UTE TRIBAL 32-9A	32	140S	200E	4304733619	13067	State	GW	P	
UTE TRIBAL 32-10A	32	140S	200E	4304733620	13054	State	GW	P	
UTE TRIBAL 32-11A	32	140S	200E	4304733621	13058	State	GW	S	
UTE TRIBAL 32-16A	32	140S	200E	4304734098	13449	State	GW	P	
UTE TRIBAL 29-6A	29	140S	200E	4304734102	13443	Federal	GW	P	
UTE TRIBAL 29-7A	29	140S	200E	4304734103	13444	Federal	GW	P	
UTE TRIBAL 10-2-15-20	02	150S	200E	4304735625	14167	State	GW	P	
FLAT ROCK 13-29-14-20	29	140S	200E	4304736778	15065	Federal	GW	P	
FLAT ROCK 3-29-14-20	29	140S	200E	4304736795	15099	Federal	GW	P	
UTE TRIBAL 6-16-14-20	16	140S	200E	4304738506	16320	State	GW	P	
UTE TRIBAL 15-25-14-19	30	140S	200E	4304739052	16169	Indian	GW	P	C
UTE TRIBAL 1-25-14-19	30	140S	200E	4304739053		Indian	GW	APD	
UTE TRIBAL 1-30-14-20	30	140S	200E	4304739665		Federal	GW	APD	
UTE TRIBAL 9-30-14-20	30	140S	200E	4304739666		Federal	GW	APD	
UTE TRIBAL 7-30-14-20	30	140S	200E	4304739667		Federal	GW	APD	
UTE TRIBAL 7-29-14-20	29	140S	200E	4304739668		Federal	GW	APD	
UTE TRIBAL 9-29-14-20	29	140S	200E	4304739669		Federal	GW	APD	
UTE TRIBAL 12-28-14-20	28	140S	200E	4304739736		Federal	GW	APD	
UTE TRIBAL 1-29-14-20	29	140S	200E	4304739737		Federal	GW	APD	
UTE TRIBAL 15-29-14-20	29	140S	200E	4304739738		Federal	GW	APD	
UTE TRIBAL 3-30-14-20	30	140S	200E	4304739739		Federal	GW	APD	
UTE TRIBAL 11-30-14-20	30	140S	200E	4304739740		Federal	GW	APD	
UTE TRIBAL 3-32-14-20	32	140S	200E	4304739741		State	GW	APD	
UTE TRIBAL 15-30-14-20	30	140S	200E	4304739942		Federal	GW	APD	

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

**Request to Transfer Application or Permit to Drill**

(This form should accompany a Sundry Notice, Form 9, requesting APD transfer)

<b>Well name:</b>	UTE TRIBAL 1-25-14-19
<b>API number:</b>	4304739053
<b>Location:</b>	Qtr-Qtr: SWNW Section: 30 Township: 14S Range: 20E
<b>Company that filed original application:</b>	MILLER, DYER & CO., LLC
<b>Date original permit was issued:</b>	03/05/2007
<b>Company that permit was issued to:</b>	MILLER, DYER & CO., LLC

Check one	Desired Action:
<input type="checkbox"/>	<b>Transfer pending (unapproved) Application for Permit to Drill to new operator</b>
<input type="checkbox"/>	The undersigned as owner with legal rights to drill on the property, hereby verifies that the information as submitted in the pending Application for Permit to Drill, remains valid and does not require revision. The new owner of the application accepts and agrees to the information and procedures as stated in the application.
<input checked="" type="checkbox"/>	<b>Transfer approved Application for Permit to Drill to new operator</b>
<input type="checkbox"/>	The undersigned as owner with legal rights to drill on the property as permitted, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.	Yes	No
If located on private land, has the ownership changed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> If so, has the surface agreement been updated?	<input type="checkbox"/>	<input type="checkbox"/>
Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Have there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Have there been any changes to the access route including ownership or right-of-way, which could affect the proposed location?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Has the approved source of water for drilling changed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Is bonding still in place, which covers this proposed well? Bond No. <u>RLB0011676</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Any desired or necessary changes to either a pending or approved Application for Permit to Drill that is being transferred, should be filed on a Sundry Notice, Form 9, or amended Application for Permit to Drill, Form 3, as appropriate, with necessary supporting information as required.

Name (please print) Rick Ross Title V P OPERATIONS  
 Signature [Signature] Date 6/1/08  
 Representing (company name) WHITING OIL AND GAS CORPORATION

The person signing this form must have legal authority to represent the company or individual(s) to be listed as the new operator on the Application for Permit to Drill.

**RECEIVED**  
**JUN 02 2008**  
DIV. OF OIL, GAS & MINING

**WORKSHEET  
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 02/16/2007

API NO. ASSIGNED: 43-047-39053

WELL NAME: UTE TRIBAL 8-25-14-19  
 OPERATOR: WHITING OIL & GAS ( N2680 )  
 CONTACT: JEFF LANG

PHONE NUMBER: 303-292-0949

PROPOSED LOCATION:

SWNW 30 140S 200E  
 SURFACE: 1594 FNL 0274 FWL  
 BOTTOM: 1980 FNL 0660 FEL  
 COUNTY: UINTAH  
 LATITUDE: 39.57318 LONGITUDE: -109.7281  
 UTM SURF EASTINGS: 609245 NORTHINGS: 4380949  
 FIELD NAME: FLAT ROCK ( 600 )

INSPECT LOCATN BY: / /		
Tech Review	Initials	Date
Engineering		
Geology		
Surface		

LEASE TYPE: 2 - Indian  
 LEASE NUMBER: 20G0005581  
 SURFACE OWNER: 2 - Indian

PROPOSED FORMATION: WINGT  
 COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

- Plat
- Bond: Fed[] Ind[2] Sta[] Fee[]  
(No. RLB0011681 )
- Potash (Y/N)
- Oil Shale 190-5 (B) or 190-3 or 190-13
- Water Permit  
(No. 14-20-H62- )
- RDCC Review (Y/N)  
(Date: \_\_\_\_\_ )
- Fee Surf Agreement (Y/N)
- Intent to Commingle (Y/N)

LOCATION AND SITING:

- R649-2-3.  
Unit: \_\_\_\_\_
- R649-3-2. General  
Siting: 460 From Qtr/Qtr & 920' Between Wells
- R649-3-3. Exception
- Drilling Unit  
Board Cause No: \_\_\_\_\_  
Eff Date: \_\_\_\_\_  
Siting: \_\_\_\_\_
- R649-3-11. Directional Drill

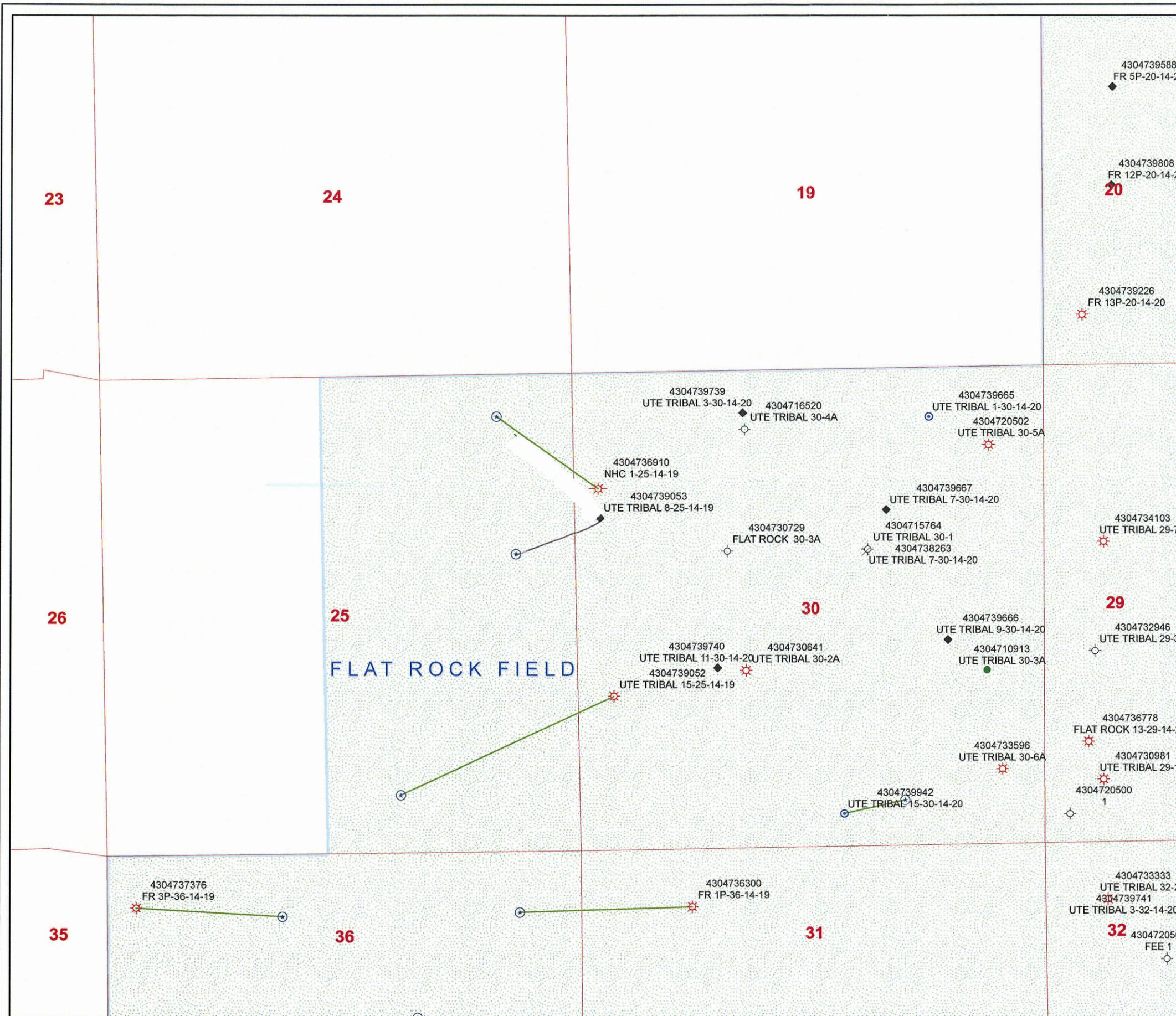
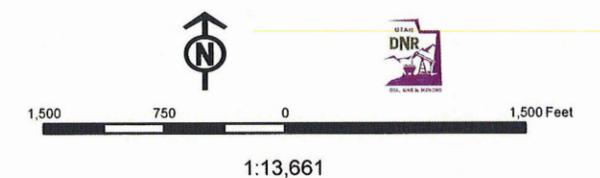
COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

STIPULATIONS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**API Number: 4304739053**  
**Well Name: UTE TRIBAL 8-25-14-19**  
**Township 14.0 S Range 20.0 E Section 30**  
**Meridian: SLBM**  
**Operator: WHITING OIL & GAS CORPORATION**

Map Prepared:  
 Map Produced by Diana Mason

Units	Wells Query Events
STATUS	✕ <all other values>
ACTIVE	GIS_STAT_TYPE
EXPLORATORY	<Null>
GAS STORAGE	APD
NF PP OIL	DRL
NF SECONDARY	GI
PI OIL	GS
PP GAS	LA
PP GEOTHERML	NEW
PP OIL	OPS
SECONDARY	PA
TERMINATED	PGW
Fields	POW
STATUS	RET
ACTIVE	SGW
COMBINED	SOW
Sections	TA
	TW
	WD
	WI
	WS



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

FORM 3

AMENDED REPORT   
(highlight changes)

<b>APPLICATION FOR PERMIT TO DRILL</b>			5. MINERAL LEASE NO: 20G0005581	6. SURFACE: Indian
1A. TYPE OF WORK: DRILL <input checked="" type="checkbox"/> REENTER <input type="checkbox"/> DEEPEN <input type="checkbox"/>			7. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Indian Tribe	
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: N/A	
2. NAME OF OPERATOR: Whiting Oil and Gas Corporation			9. WELL NAME and NUMBER: Ute Tribal 8-25-14-19	
3. ADDRESS OF OPERATOR: 1700 Brdy Suite 2300 CITY Denver STATE CO ZIP 80290-2300			PHONE NUMBER: (303) 390-4095	
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: 1594 FNL 274 FWL SWNW (Section 30-T14S-R20E) AT PROPOSED PRODUCING ZONE: 1980' FNL 660 FEL SENE (Section 25-T14S-R19E) <i>608962X 43808274 39.572112 -109.731432</i>			10. FIELD AND POOL, OR WILDCAT: Flat Rock	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: See Topo Map "A" (Attached)			12. COUNTY: Uintah	13. STATE: UTAH
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET) 660	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) 200	19. PROPOSED DEPTH: 12441' MD & 12439' TVD	20. BOND DESCRIPTION: RLB-4585		
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): 7405 GR	22. APPROXIMATE DATE WORK WILL START: 1/15/2008	23. ESTIMATED DURATION: 1-1/2 Month		

**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		
14-3/4"	10-3/4" J-55 40.5#	500	Hi-fill & Class G	325 sacks	1.80 13.5
9-1/2"	7-5/8" J-55 26.4#	5,000	Light & Prem	472 sacks	4.52& 1.05 10.8, 15.8
6-1/2"	4-1/2" HPC-110 11.6#	12,441	Halliburton Elasiséal	580 sacks	1.47 14.30

**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) Scott M. Webb TITLE Regulatory Coordinator

SIGNATURE *[Signature]* DATE 12/23/08

(This space for State use only)

API NUMBER ASSIGNED: 43-047-39053

**COPY SENT TO OPERATOR**

Date: 1-5-2009

Initials: KS

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

APPROVAL:

Date: 12-30-08

By: *[Signature]*

**RECEIVED**  
**DEC 29 2008**

DIV. OF OIL, GAS & MINING

# T14S, S.L.B.&M.

# WHITING OIL AND GAS CORPORATION

S89°50'W - 80.30 (G.L.O.)  
N89°33'31"W (Computed)

Found Set Stone.  
There are 5 notches on  
north side & 1 notch  
on south side of stone. N89°54'E - 78.46 (G.L.O.)  
N89°57'10"E - 5219.34' (Meas.)

WELL LOCATION, UTE TRIBAL  
8-25-14-19, LOCATED AS SHOWN IN  
THE SE 1/4 NE 1/4 OF SECTION 25,  
T14S, R19E, S.L.B.&M. UINTAH COUNTY,  
UTAH.

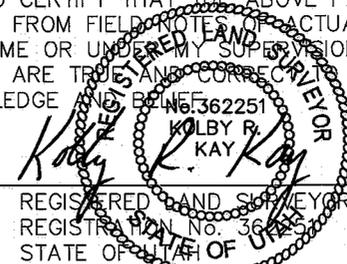


SCALE

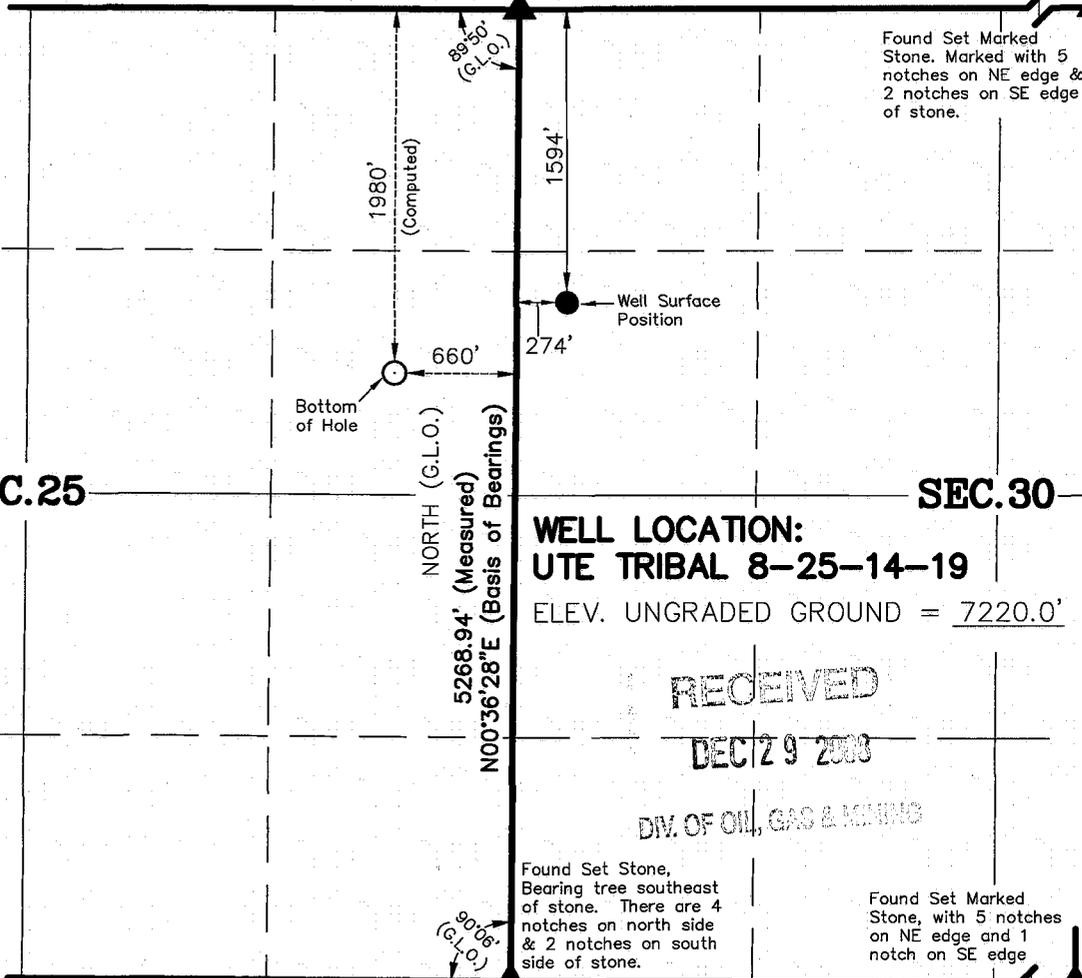
**NOTES:**

1. Well footages are measured at right angles to the Section Lines.
2. The Bottom of hole bears S67°54'10"W 1012.02' from the Surface Position.
3. The Bottom of hole bears S19°01'34"W 2088.93' from the Northeast corner of Section 25, T14S, R19E, S.L.B.&M.
4. Bearings are based on Global Positioning Satellite observations.
5. BASIS OF ELEVATION IS BENCH MARK 60 WF 1952 LOCATED IN THE SW 1/4 OF SECTION 35, T14S, R20E, S.L.B.&M. THE ELEVATION OF THIS BENCH MARK IS SHOWN ON THE FLAT ROCK MESA 7.5 MIN. QUADRANGLE AS BEING 7363'.

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



REGISTERED AND LICENSED SURVEYOR  
REGISTRATION No. 362251  
STATE OF UTAH



**WELL LOCATION:  
UTE TRIBAL 8-25-14-19**

ELEV. UNGRADED GROUND = 7220.0'

RECEIVED

DEC 29 2008

DIV. OF OIL, GAS & MINING

Found Set Stone,  
Bearing tree southeast  
of stone. There are 4  
notches on north side  
& 2 notches on south  
side of stone.

Found Set Marked  
Stone, with 5 notches  
on NE edge and 1  
notch on SE edge

N89°29'31"W (Computed)  
S89°54'W - 80.20 (G.L.O.)

N89°44'20"W - 5235.63' (Meas.)  
N89°54'E - 78.50 (G.L.O.)

**TIMBERLINE** (435) 789-1365  
**ENGINEERING & LAND SURVEYING, INC.**  
38 WEST 100 NORTH - VERNAL, UTAH 84078

▲ = SECTION CORNERS LOCATED

UTE TRIBAL 8-25-14-19  
(Bottom Hole) NAD 83 Autonomous  
LATITUDE = 39° 34' 19.8"  
LONGITUDE = 109° 43' 55.8"

UTE TRIBAL 8-25-14-19  
(Surface Position) NAD 83 Autonomous  
LATITUDE = 39° 34' 23.5"  
LONGITUDE = 109° 43' 43.8"

DATE SURVEYED: 01-18-07	SURVEYED BY: A.D.F.	<b>SHEET</b> <b>2</b> <b>OF 11</b>
DATE DRAWN: 01-24-07	DRAWN BY: M.W.W.	
SCALE: 1" = 1000'	Date Last Revised: 11-06-08	



December 23, 2008

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

**RE: Application for Permit to Drill  
Ute Tribal #8-25-14-19 (Directional) API#43-047-39053  
SWNW Section 30-T14S-R20E (Surface Location)  
SENE Section 25-T14S-R19E (Proposed Producing Zones)  
Uintah County, Utah**

Dear Ms. Mason:

Enclosed please find two copies of the Form 3, a revised location plat, directional and drill plans for the Ute Tribal #8-25-14-19 on Ute Tribal Lands. This well will be drilled on Lease #20G0005581. We are requesting to change the well number to match the field well numbering system.

Due to extreme topography, the Ute Tribal #8-25-14-19 will be directionally drilled from a surface location in the SWNW of Section 30, T14S-R20E and penetrate the proposed producing intervals (Dakota and deeper) with a vertical hole located at a legal location within the SENE of Section 25 T14S-R19E. Please note that Whiting Oil and Gas Corporation controls all the mineral rights within a 460' radius of all points along the projected well path. The well must be directionally drilled because of a "No Surface Occupancy" clause in the existing E&D Agreement with the Ute Indian Tribe. The entire proposal is included in the APD.

Please do not hesitate to call me if you have any questions or need additional information.

Sincerely,

Scott M. Webb  
Regulatory Coordinator  
Whiting Oil and Gas Corporation

RECEIVED  
DEC 29 2008  
DIV. OF OIL, GAS & MINING

*Whiting Petroleum Corporation  
and its wholly owned subsidiary  
Whiting Oil and Gas Corporation*

UTE INDIAN TRIBE OF THE  
UINTAH AND OURAY RESERVATION

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF INDIAN AFFAIRS  
UINTAH AND OURAY AGENCY  
Fort Duchesne, Utah 84026

BIA No. 14-20-H62- 5069

**PERMIT FOR THE USE AND/OR DRILLING OF WATER SUPPLY WELL**

It is expressly understood that the interests of the parties to this Agreement are subject to the terms and conditions of that certain Surface Use and Access Agreement by and between **The Ute Indian Tribe** ("Tribe" or "Permitter"), and **Miller, Dyer & Co. LLC** ("Permittee") dated **January 1, 2004** ("SUA"). In the event there is a conflict between the provisions of this permit and the provisions of the Surface Use and Access Agreement, the Surface Use and Access Agreement shall control.

1. Permission is granted to Miller, Dyer & Co. LLC hereinafter referred to as Permittee, by the Ute Indian Tribe, hereinafter referred to as Permitter, to enter upon Indian owned trust lands to use an existing water well or to drill a well to draw water for the purpose of oil and/or gas well drilling operations, said water well to be located in the NE/4NW/4 of section 30, Township 14 South, Range 20 East, S.L.B.& M., Uintah County, Utah.

2. In consideration of the water claimed by the Ute Indian Tribe, the Permittee will pay the sum of \$ none, see SUA by check, payable to the Bureau of Indian Affairs.

3. The Permittee agrees:

a. The Permitter can make no guarantee as to amount of or time of year that such water will be available. It is understood that availability is totally dependent on the natural supply of water.

b. All facilities including, but not limited to pipe and pumps, installed by the Permittee must be of such nature and design so as not to in any way interfere with the Tribe's current use of the surface.

RECEIVED

DEC 29 2008

DEPT. OF OIL, GAS & MINING

- c. It is agreed the Permitter will have access and use of the water well.
- d. The Permittee acknowledges and verifies there is no economic behind pipe reserves potential in the well.
- e. Once a year the Permittee will send a current water analysis of the water well to the Tribe's Energy and Minerals Department.
- f. The Permittee agrees the water will not be used for secondary water recovery operations.
- g. Upon completion or apparent abandonment of the oil and/or gas operations for which this drilling permit is granted, the Permittee will repair any damages and remove or be responsible for the cost of removal of any facilities installed by the Permittee. Notwithstanding the foregoing, the Permittee shall give 30 days notice to the Tribe prior to abandonment to allow the Tribe to take over the well and facilities for the Tribe's use and relieve ~~the Permittee of said removal and abandonment responsibility.~~

h. **LIABILITY:** Permittee is liable for all damages that result from its operations, or for injury to the Permitter or its property, including livestock, to lessees, licensees and surface owners. The Permittee agrees to save and hold harmless the Permitter and the United States and its officers, representatives and employees, and the surface owners or their tenants from all suits for injury or claims for damage to persons and property from the Permittee's operations under this permit.

BOND: To guarantee performance under this permit, a bond is to be furnished as follows: see Permittee's existing bond for oil & gas operations on file with the Bureau of Indian Affairs, Uintah & Ouray Agency office in Fort Duchesne, Utah.

i. TERM: Permittee is granted use of the water well subject to conditions hereinabove stated for a period beginning with the date of approval of this permit, and for ten years thereafter.

j. All conditions of this permit are thoroughly understood and only those specifically stated herein are intended to be granted.

k. Issue copy of permit to each water hauler using the well for permittee's oil and gas operations, being limited to operations only on lands described as the Contract Premises in the Surface Use and Access Agreement.

l. Remind company personnel that carrying firearms while on the Uintah and Ouray Reservation is prohibited.

m. Notwithstanding anything to the contrary herein, this permit and the rights granted hereunder are limited to the Permittee and its oil and gas operations contemplated under the Surface Use and Access Agreement and may not be transferred to another party.

PERMITTEE:

MILLER, DYER & CO. LLC

By: John E. Dyer  
John E. Dyer, Manager

ATTEST:

Dawn West  
Secretary, Uintah and Ouray Tribal  
Business Committee

PERMITTER: THE UTE INDIAN TRIBE

By: Dorine Utascher  
Chairperson, Uintah and Ouray Tribal  
Business Committee

APPROVED: 09/30/04  
(date)

EXPIRES: 08/31/2024  
(date)

Robert D. Hill  
SUPERINTENDENT, Uintah and Ouray Agency

RECEIVED  
DEC 29 2003

DIV. OF OIL, GAS & MINING

**Whiting Oil & Gas Corp.  
 Ute Tribal 8-25-14-19D Adjusted Well Plan  
 Directional Entrada test**

Surface Location: SWNW 30-T14S-R20E SLB&M  
 1594' FNL & 274' FEL  
 Uintah County, Utah

**SUMMARY:**

Whiting is requesting a change in BHL for this well from the NENE to the SENE forty. The adjusted well plan has been done to reflex the change in BHL and change in casing design. This change was done to moving the BHL up structure in the Entrada formation. The casing design has changed from the original APD, to use a slimhole type design.

**DRILLING PROGRAM**

**1. ESTIMATED TOPS OF GEOLOGICAL MARKERS:**

Ground Level 7,405' Estimated KB 7,418' (12')

<u>Formation</u>	<u>TVD</u>	<u>SS</u>	<u>Core</u>	<u>Lithology</u>	<u>Hazard</u>
GreenRiver	0	7,753'		Oil Shale	Oil/Gas
Wasatch	4,400'	3,353'		SS-SH	Oil/Gas
Mesaverde	5,016'	2,737'		SS-SH	Oil
Castlegate SS	6,873'	880'		Sandstone	Gas
Mancos	7,145'	608'		SS-SH	Gas
Dakota	11,022'	(3,269')		Sandstone	Gas
Cedar Mtn	11,241'	(3,488')		Sandstone	Gas
Morrison	11,422'	(3,669')		SS-SH	Gas
Curtis	11,966'	(4,213')		SS-SH	Gas
Entrada	12,078'	(4,325')	Possible	Sandstone	Gas
Carmel	12,389'	(4,636')		LS-SH	Gas
Total Depth	12,439'	(4,686')			

Bottom Hole Location: SENE 25-T14S-R19E  
 1980' FNL & 660' FEL  
 Uintah County, Utah

\*See Attached Directional Well Plan

**2. PRESSURE CONTROL EQUIPMENT**

- A. Type:**
- 11" 5000 psi annular preventer
  - 11" 5000 psi double ram hydraulic BOP
    - 1 - Blind Ram
    - 1 - Pipe Ram
  - Kill lines will be 2" x 5,000 psi working pressure
  - Choke lines will be 3" x 5,000 psi working pressure

RECEIVED

DEC 29 2008

DIV. OF OIL, GAS & MINING

## 5,000 psi Casinghead

### B. Testing Procedure:

The annular preventer will be pressure tested to 50% of stack rated working pressure for ten (10) minutes or until provisions of test are met, whichever is longer. The BOP, choke manifold, and related equipment will be pressure tested to approved BOP stack working pressure (if isolated from surface casing by a test plug) or to 70% of surface casing internal yield strength (if BOP is not isolated by a test plug). Pressure will be maintained for ten (10) minutes or until the requirements of the test are met, whichever is longer. At a minimum, the Annular and Blow-Out Preventer pressure tests will be performed:

1. When the BOPE is initially installed;
2. Whenever any seal subject to test pressure is broken;
3. Following related repairs; and
4. At thirty (30) day intervals.

Annular will be function tested weekly, and pipe & blind rams activated each trip, but not more than once per day. All BOP drills & tests will be recorded in IADC driller's log.

### C. Choke Manifold Equipment:

All choke lines will be straight lines whenever possible at turns, tee blocks will be used or will be targeted with running tees, and will be anchored to prevent whip and vibration.

### D. Accumulator:

Accumulator will have sufficient capacity to open hydraulically-controlled choke line valve (if so equipped), close all rams plus annular preventer, and retain a minimum of 200 psi above precharge on the closing manifold without the use of closing unit pumps. The fluid reservoir capacity will be double accumulator capacity and the fluid level will be maintained at manufacturer's recommendations. Accumulator precharge pressure test will be conducted prior to connecting the closing unit to the BOP stack.

### E. Miscellaneous Information:

Choke manifold and BOP extension rods with hand wheels will be located outside rig sub-structure. Hydraulic BOP closing unit will be located at least twenty-five (25) feet from the wellhead but readily accessible to the driller. Exact locations and configurations of the hydraulic BOP closing unit will depend upon the particular rig contracted to drill this hole. A flare line will be installed after the choke manifold with the discharge point of the flare line to a separate pit located at least 125 feet away from the wellbore and any existing production facilities.

## 3. PROPOSED CASING PROGRAM

<u>Hole Size</u>	<u>Setting Depth (MD)</u>	<u>Casing Size</u>	<u>Wt./Ft.</u>	<u>Grade</u>	<u>Thread</u>
14-3/4"	500'	10-3/4"	40.50	J-55	STC
9-1/2"	5,000'	7-5/8"	26.40	J-55	LTC
6-1/2"	12,441'	4-1/2"	11.60	HCP-110	LTC

\*10-3/4" surface preset when conductor was drilled.

#### 4. PROPOSED CEMENTING PROGRAM

SURFACE: TOC Surface (100% Excess)

Lead: 556 cu-ft; 325 sacks Lead Cement Rockies LT

<u>Cement Properties</u>	<u>Lead Slurry</u>
Slurry Weight (ppg)	13.5
Slurry Yield (cf/sack)	1.80

INTERMEDIATE: TOC Surface (75% Excess, TOT: 4500' MD, TOL: Surface)

Lead: 1337 cu-ft; 330 sacks Halliburton Tuned Light RS1 System

Tail: 163 cu-ft; 142 sacks Halliburton Premium Cement

<u>Cement Properties</u>	<u>Lead Slurry</u>	<u>Tail Slurry</u>
Slurry Weight (ppg)	10.8	15.8
Slurry Yield (cf/sack)	4.052	1.052

PRODUCTION: TOC Surface (40% Excess, TOT: 11,901' MD, TOL: 4000' MD)

Lead: 1062 cu-ft; 530 sacks Halliburton Foamed Lead Cement Elastiseal System

Tail: 69 cu-ft; 50 sacks Halliburton Elastiseal System

<u>Cement Properties</u>	<u>Lead Slurry</u>	<u>Tail Slurry</u>
Slurry Weight (ppg)	14.30	14.30
Slurry Yield (cf/sack)	1.47	1.47

\* See Attached cement program.

#### 5. MUD PROGRAM

<u>Depth (MD)</u>	<u>Mud System</u>	<u>MW</u>	<u>PV</u>	<u>YP</u>	<u>FL</u>
0 - 500	Air Drilled	N/A	N/A	N/A	N/A
500' - 5,000'	Spud Mud	8.4 - 8.6	0 - 15	0 - 10	N/C
5,000' - TD	3% KCL / Polymer	8.6 - 9.5	5 - 10	5 - 15	>8

#### 6. Testing, Logging and Core Programs

Cores: Possible Core in Entrada

DST: None planned

Surveys: Per Directional Plan

Mud Logger: Surface

Samples: 30' samples from surface to Entrada

10' samples to TD

Open Hole Logging Program:

Triple Combo

TD to Surface Casing

**7. ANTICIPATED ABNORMAL PRESSURES OR TEMPERATURES:**

No abnormal pressures are anticipated. No H<sub>2</sub>S gas is anticipated.

Anticipated bottomhole pressure is 5,386 psi (0.433 psi/ft) at 12,439' TVD (8.33 ppg equivalent).

**8. ANTICIPATED STARTING DATE AND DURATION:**

Dirt work startup: Location is built

Spud: November 2008

Duration: 25 – 30 days

RECEIVED

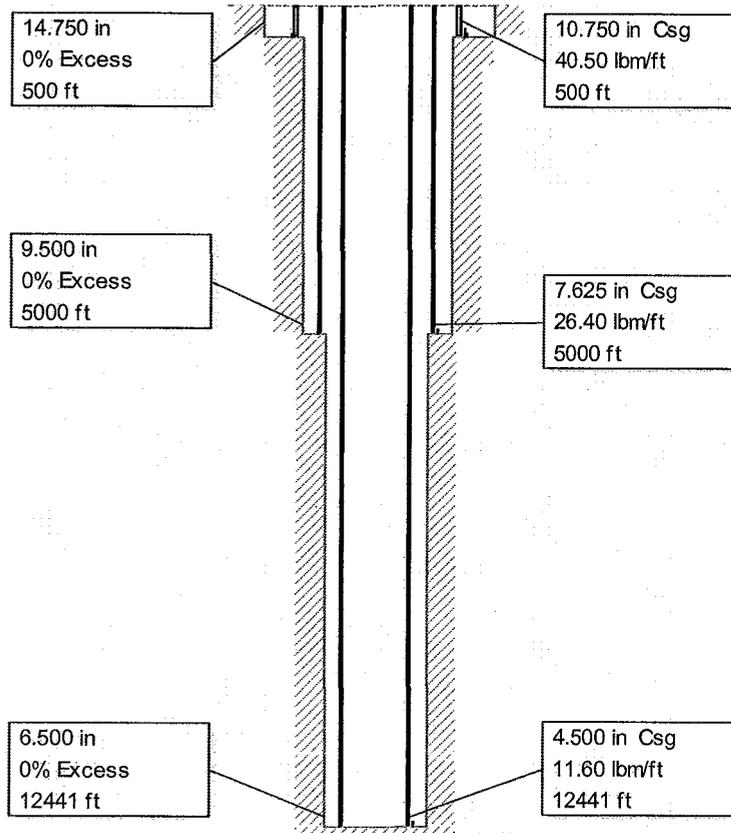
DEC 29 2008

DIV. OF OIL, GAS & MINING

## WELLBORE DESIGN

Ute Tribal 8-25-14-19D  
Entrada Directional Well  
Flat Rock Field

SENE 25-14S-19E  
Unitah County, Utah



**i-Handbook\*** - \*a mark of Schlumberger

### Casing Design

10-3/4" 40.5# H-40 STC  
7-5/8" 26.40# J-55 LTC  
4-1/2" 11.60# HCP-110 LTC

RECEIVED

DEC 29 2008

DIV. OF OIL, GAS & MINING



# **Whiting Petroleum**

**Uintah County, UT  
UTE Tribal 8-25-14-19  
UTE Tribal 8-25-14-19D  
Wellbore #1**

**Plan: Plan #2**

## **Standard Planning Report**

**07 November, 2008**

**RECEIVED**

**DEC 29 2008**

**DIV. OF OIL, GAS & MINING**



**Whiting Petroleum Corporation**



**Whiting Petroleum**  
**UTE Tribal 8-25-14-19D**  
**Uintah County, UT**



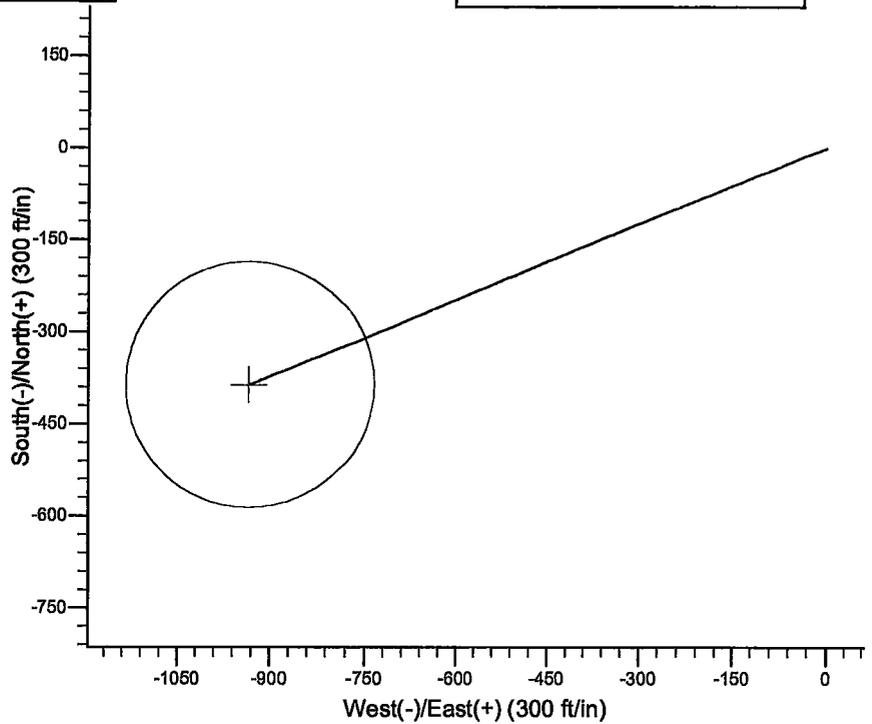
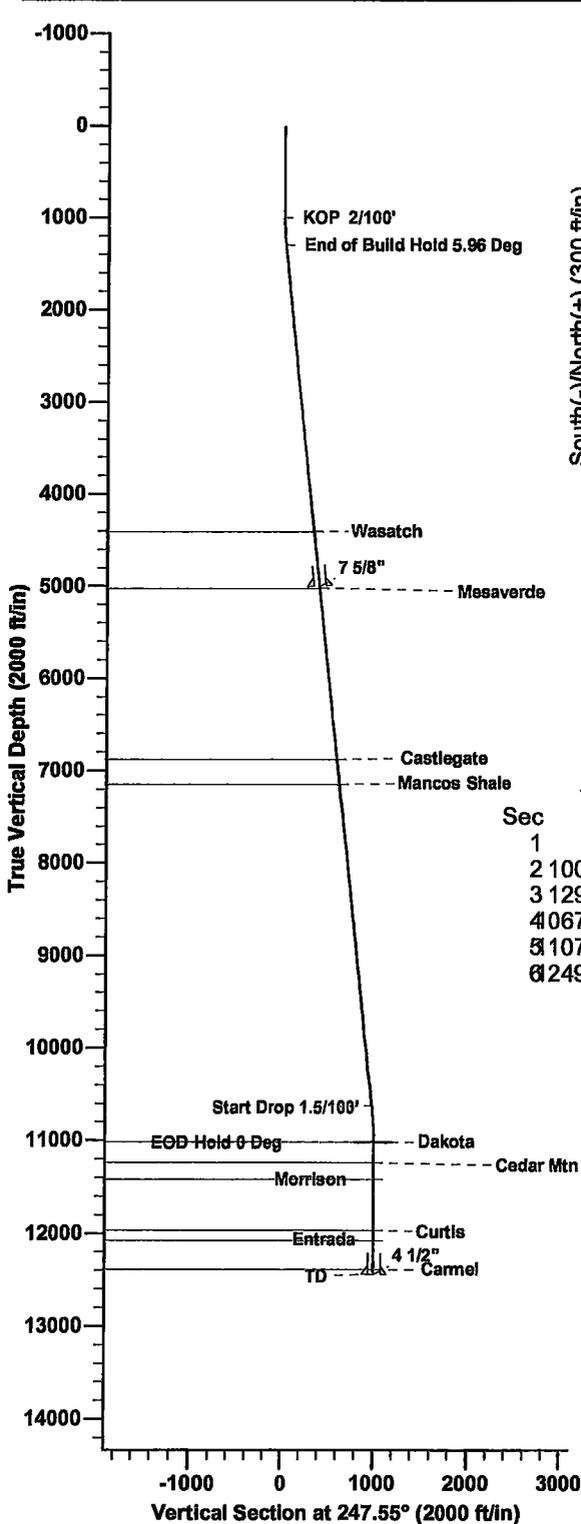
Whiting Petroleum Corporation

<b>PROJECT DETAILS: Uintah County, UT</b>
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: Utah Central Zone



**T M** Azimuths to True North  
 Magnetic North: 11.41°

Magnetic Field  
 Strength: 52269.6snT  
 Dip Angle: 65.54°  
 Date: 11/10/2008  
 Model: IGRF200510



**SECTION DETAILS**

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1000.0	0.00	0.00	1000.0	0.0	0.0	0.00	0.00	0.0	
3	1298.2	5.96	247.55	1297.7	-5.9	-14.3	2.00	247.55	15.5	
4	0676.4	5.96	247.55	10625.1	-378.1	-914.9	0.00	0.00	989.9	
5	1074.0	0.00	0.00	11022.0	-386.0	-934.0	1.50	180.00	1010.6	
6	2491.0	0.00	0.00	12439.0	-386.0	-934.0	0.00	0.00	1010.6	

**FORMATION TOP DETAILS**

TVDPPath	MDPath	Formation
4400.0	4417.4	Wasatch
5016.0	5036.8	Mesaverde
6873.0	6903.9	Castlegate
7145.0	7177.4	Mancos Shale
11022.0	11074.0	Dakota
11241.0	11293.0	Cedar Mtn
11422.0	11474.0	Morrison
11966.0	12018.0	Curtis
12078.0	12130.0	Entrada
12389.0	12441.0	Carmel

RECEIVED

DEC 29 2008



# Crescent Directional Drilling L.P.

## Planning Report



Whiting Petroleum Corporation

**Database:** EDM 2003.16 Single User Db  
**Company:** Whiting Petroleum  
**Project:** Uintah County, UT  
**Site:** UTE Tribal 8-25-14-19  
**Well:** UTE Tribal 8-25-14-19D  
**Wellbore:** Wellbore #1  
**Design:** Plan #2

**Local Co-ordinate Reference:** Well UTE Tribal 8-25-14-19D  
**TVD Reference:** WELL @ 7220.0ft (Original Well Elev)  
**MD Reference:** WELL @ 7220.0ft (Original Well Elev)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature

<b>Project</b>	Uintah County, UT		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Ground Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Utah Central Zone		

**Site** UTE Tribal 8-25-14-19

**Site Position:**  
**From:** Lat/Long      **Northing:** 2,139,154.15 m      **Latitude:** 39° 34' 23.500 N  
**Position Uncertainty:** 0.0 ft      **Easting:** 652,160.42 m      **Longitude:** 109° 43' 43.800 W  
**Slot Radius:** in      **Grid Convergence:** 1.13 °

**Well** UTE Tribal 8-25-14-19D

**Well Position**      **+N/-S** 0.0 ft      **Northing:** 2,139,154.15 m      **Latitude:** 39° 34' 23.500 N  
**+E/-W** 0.0 ft      **Easting:** 652,160.42 m      **Longitude:** 109° 43' 43.800 W  
**Position Uncertainty** 0.0 ft      **Wellhead Elevation:** ft      **Ground Level:** 0.0 ft

**Wellbore** Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	11/10/2008	11.41	65.54	52,270

**Design** Plan #2

**Audit Notes:**

**Version:**      **Phase:** PROTOTYPE      **Tie On Depth:** 0.0

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	247.55

### 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
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,298.2	5.96	247.55	1,297.7	-5.9	-14.3	2.00	2.00	0.00	247.55	
10,676.4	5.96	247.55	10,625.1	-378.1	-914.9	0.00	0.00	0.00	0.00	
11,074.0	0.00	0.00	11,022.0	-386.0	-934.0	1.50	-1.50	0.00	180.00	UTE 8-25-14-19
12,491.0	0.00	0.00	12,439.0	-386.0	-934.0	0.00	0.00	0.00	0.00	

DEC 29 2008



# Crescent Directional Drilling L.P.

## Planning Report



Whiting Petroleum Corporation

**Database:** EDM 2003.16 Single User Db  
**Company:** Whiting Petroleum  
**Project:** Uintah County, UT  
**Site:** UTE Tribal 8-25-14-19  
**Well:** UTE Tribal 8-25-14-19D  
**Wellbore:** Wellbore #1  
**Design:** Plan #2

**Local Co-ordinate Reference:** Well UTE Tribal 8-25-14-19D  
**TVD Reference:** WELL @ 7220.0ft (Original Well Elev)  
**MD Reference:** WELL @ 7220.0ft (Original Well Elev)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature

**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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>KOP 2'/100'</b>									
1,100.0	2.00	247.55	1,100.0	-0.7	-1.6	1.7	2.00	2.00	0.00
1,200.0	4.00	247.55	1,199.8	-2.7	-6.4	7.0	2.00	2.00	0.00
1,298.2	5.96	247.55	1,297.7	-5.9	-14.3	15.5	2.00	2.00	0.00
<b>End of Build Hold 5.96 Deg</b>									
1,300.0	5.96	247.55	1,299.5	-6.0	-14.5	15.7	0.00	0.00	0.00
1,400.0	5.96	247.55	1,398.9	-10.0	-24.1	26.1	0.00	0.00	0.00
1,500.0	5.96	247.55	1,498.4	-13.9	-33.7	36.5	0.00	0.00	0.00
1,600.0	5.96	247.55	1,597.8	-17.9	-43.3	46.9	0.00	0.00	0.00
1,700.0	5.96	247.55	1,697.3	-21.9	-52.9	57.3	0.00	0.00	0.00
1,800.0	5.96	247.55	1,796.7	-25.8	-62.5	67.6	0.00	0.00	0.00
1,900.0	5.96	247.55	1,896.2	-29.8	-72.1	78.0	0.00	0.00	0.00
2,000.0	5.96	247.55	1,995.7	-33.8	-81.7	88.4	0.00	0.00	0.00
2,100.0	5.96	247.55	2,095.1	-37.7	-91.3	98.8	0.00	0.00	0.00
2,200.0	5.96	247.55	2,194.6	-41.7	-100.9	109.2	0.00	0.00	0.00
2,300.0	5.96	247.55	2,294.0	-45.7	-110.5	119.6	0.00	0.00	0.00
2,400.0	5.96	247.55	2,393.5	-49.6	-120.1	130.0	0.00	0.00	0.00
2,500.0	5.96	247.55	2,493.0	-53.6	-129.7	140.4	0.00	0.00	0.00
2,600.0	5.96	247.55	2,592.4	-57.6	-139.3	150.8	0.00	0.00	0.00
2,700.0	5.96	247.55	2,691.9	-61.6	-148.9	161.2	0.00	0.00	0.00
2,800.0	5.96	247.55	2,791.3	-65.5	-158.5	171.5	0.00	0.00	0.00
2,900.0	5.96	247.55	2,890.8	-69.5	-168.1	181.9	0.00	0.00	0.00
3,000.0	5.96	247.55	2,990.3	-73.5	-177.7	192.3	0.00	0.00	0.00
3,100.0	5.96	247.55	3,089.7	-77.4	-187.4	202.7	0.00	0.00	0.00
3,200.0	5.96	247.55	3,189.2	-81.4	-197.0	213.1	0.00	0.00	0.00
3,300.0	5.96	247.55	3,288.6	-85.4	-206.6	223.5	0.00	0.00	0.00
3,400.0	5.96	247.55	3,388.1	-89.3	-216.2	233.9	0.00	0.00	0.00
3,500.0	5.96	247.55	3,487.5	-93.3	-225.8	244.3	0.00	0.00	0.00
3,600.0	5.96	247.55	3,587.0	-97.3	-235.4	254.7	0.00	0.00	0.00
3,700.0	5.96	247.55	3,686.5	-101.2	-245.0	265.1	0.00	0.00	0.00
3,800.0	5.96	247.55	3,785.9	-105.2	-254.6	275.5	0.00	0.00	0.00
3,900.0	5.96	247.55	3,885.4	-109.2	-264.2	285.8	0.00	0.00	0.00
4,000.0	5.96	247.55	3,984.8	-113.1	-273.8	296.2	0.00	0.00	0.00
4,100.0	5.96	247.55	4,084.3	-117.1	-283.4	306.6	0.00	0.00	0.00
4,200.0	5.96	247.55	4,183.8	-121.1	-293.0	317.0	0.00	0.00	0.00
4,300.0	5.96	247.55	4,283.2	-125.1	-302.6	327.4	0.00	0.00	0.00
4,400.0	5.96	247.55	4,382.7	-129.0	-312.2	337.8	0.00	0.00	0.00
4,417.4	5.96	247.55	4,400.0	-129.7	-313.9	339.6	0.00	0.00	0.00
<b>Wasatch</b>									
4,500.0	5.96	247.55	4,482.1	-133.0	-321.8	348.2	0.00	0.00	0.00
4,600.0	5.96	247.55	4,581.6	-137.0	-331.4	358.6	0.00	0.00	0.00
4,700.0	5.96	247.55	4,681.0	-140.9	-341.0	369.0	0.00	0.00	0.00

DEC 10 2008



# Crescent Directional Drilling L.P.

## Planning Report



Whiting Petroleum Corporation

**Database:** EDM 2003.16 Single User Db  
**Company:** Whiting Petroleum  
**Project:** Uintah County, UT  
**Site:** UTE Tribal 8-25-14-19  
**Well:** UTE Tribal 8-25-14-19D  
**Wellbore:** Wellbore #1  
**Design:** Plan #2

**Local Co-ordinate Reference:** Well UTE Tribal 8-25-14-19D  
**TVD Reference:** WELL @ 7220.0ft (Original Well Elev)  
**MD Reference:** WELL @ 7220.0ft (Original Well Elev)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature

### 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)
4,800.0	5.96	247.55	4,780.5	-144.9	-350.6	379.4	0.00	0.00	0.00
4,900.0	5.96	247.55	4,880.0	-148.9	-360.2	389.7	0.00	0.00	0.00
5,000.0	5.96	247.55	4,979.4	-152.8	-369.8	400.1	0.00	0.00	0.00
5,016.0	5.96	247.55	4,995.3	-153.5	-371.3	401.8	0.00	0.00	0.00
<b>7 5/8"</b>									
5,036.8	5.96	247.55	5,016.0	-154.3	-373.3	404.0	0.00	0.00	0.00
<b>Mesaverde</b>									
5,100.0	5.96	247.55	5,078.9	-156.8	-379.4	410.5	0.00	0.00	0.00
5,200.0	5.96	247.55	5,178.3	-160.8	-389.0	420.9	0.00	0.00	0.00
5,300.0	5.96	247.55	5,277.8	-164.7	-398.6	431.3	0.00	0.00	0.00
5,400.0	5.96	247.55	5,377.3	-168.7	-408.2	441.7	0.00	0.00	0.00
5,500.0	5.96	247.55	5,476.7	-172.7	-417.8	452.1	0.00	0.00	0.00
5,600.0	5.96	247.55	5,576.2	-176.6	-427.4	462.5	0.00	0.00	0.00
5,700.0	5.96	247.55	5,675.6	-180.6	-437.0	472.9	0.00	0.00	0.00
5,800.0	5.96	247.55	5,775.1	-184.6	-446.6	483.3	0.00	0.00	0.00
5,900.0	5.96	247.55	5,874.6	-188.5	-456.2	493.7	0.00	0.00	0.00
6,000.0	5.96	247.55	5,974.0	-192.5	-465.8	504.0	0.00	0.00	0.00
6,100.0	5.96	247.55	6,073.5	-196.5	-475.4	514.4	0.00	0.00	0.00
6,200.0	5.96	247.55	6,172.9	-200.5	-485.0	524.8	0.00	0.00	0.00
6,300.0	5.96	247.55	6,272.4	-204.4	-494.6	535.2	0.00	0.00	0.00
6,400.0	5.96	247.55	6,371.8	-208.4	-504.2	545.6	0.00	0.00	0.00
6,500.0	5.96	247.55	6,471.3	-212.4	-513.8	556.0	0.00	0.00	0.00
6,600.0	5.96	247.55	6,570.8	-216.3	-523.4	566.4	0.00	0.00	0.00
6,700.0	5.96	247.55	6,670.2	-220.3	-533.0	576.8	0.00	0.00	0.00
6,800.0	5.96	247.55	6,769.7	-224.3	-542.7	587.2	0.00	0.00	0.00
6,900.0	5.96	247.55	6,869.1	-228.2	-552.3	597.6	0.00	0.00	0.00
6,903.9	5.96	247.55	6,873.0	-228.4	-552.6	598.0	0.00	0.00	0.00
<b>Castlegate</b>									
7,000.0	5.96	247.55	6,968.6	-232.2	-561.9	607.9	0.00	0.00	0.00
7,100.0	5.96	247.55	7,068.1	-236.2	-571.5	618.3	0.00	0.00	0.00
7,177.4	5.96	247.55	7,145.0	-239.2	-578.9	626.4	0.00	0.00	0.00
<b>Mancos Shale</b>									
7,200.0	5.96	247.55	7,167.5	-240.1	-581.1	628.7	0.00	0.00	0.00
7,300.0	5.96	247.55	7,267.0	-244.1	-590.7	639.1	0.00	0.00	0.00
7,400.0	5.96	247.55	7,366.4	-248.1	-600.3	649.5	0.00	0.00	0.00
7,500.0	5.96	247.55	7,465.9	-252.0	-609.9	659.9	0.00	0.00	0.00
7,600.0	5.96	247.55	7,565.4	-256.0	-619.5	670.3	0.00	0.00	0.00
7,700.0	5.96	247.55	7,664.8	-260.0	-629.1	680.7	0.00	0.00	0.00
7,800.0	5.96	247.55	7,764.3	-264.0	-638.7	691.1	0.00	0.00	0.00
7,900.0	5.96	247.55	7,863.7	-267.9	-648.3	701.5	0.00	0.00	0.00
8,000.0	5.96	247.55	7,963.2	-271.9	-657.9	711.9	0.00	0.00	0.00
8,100.0	5.96	247.55	8,062.6	-275.9	-667.5	722.2	0.00	0.00	0.00
8,200.0	5.96	247.55	8,162.1	-279.8	-677.1	732.6	0.00	0.00	0.00
8,300.0	5.96	247.55	8,261.6	-283.8	-686.7	743.0	0.00	0.00	0.00
8,400.0	5.96	247.55	8,361.0	-287.8	-696.3	753.4	0.00	0.00	0.00
8,500.0	5.96	247.55	8,460.5	-291.7	-705.9	763.8	0.00	0.00	0.00
8,600.0	5.96	247.55	8,559.9	-295.7	-715.5	774.2	0.00	0.00	0.00
8,700.0	5.96	247.55	8,659.4	-299.7	-725.1	784.6	0.00	0.00	0.00
8,800.0	5.96	247.55	8,758.9	-303.6	-734.7	795.0	0.00	0.00	0.00
8,900.0	5.96	247.55	8,858.3	-307.6	-744.3	805.4	0.00	0.00	0.00
9,000.0	5.96	247.55	8,957.8	-311.6	-753.9	815.8	0.00	0.00	0.00
9,100.0	5.96	247.55	9,057.2	-315.5	-763.5	826.1	0.00	0.00	0.00
9,200.0	5.96	247.55	9,156.7	-319.5	-773.1	836.5	0.00	0.00	0.00

DEC 29 2008



# Crescent Directional Drilling L.P.

## Planning Report



**Database:** EDM 2003.16 Single User Db  
**Company:** Whiting Petroleum  
**Project:** Uintah County, UT  
**Site:** UTE Tribal 8-25-14-19  
**Well:** UTE Tribal 8-25-14-19D  
**Wellbore:** Wellbore #1  
**Design:** Plan #2

**Local Co-ordinate Reference:** Well UTE Tribal 8-25-14-19D  
**TVD Reference:** WELL @ 7220.0ft (Original Well Elev)  
**MD Reference:** WELL @ 7220.0ft (Original Well Elev)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature

### 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)
9,300.0	5.96	247.55	9,256.2	-323.5	-782.7	846.9	0.00	0.00	0.00
9,400.0	5.96	247.55	9,355.6	-327.4	-792.3	857.3	0.00	0.00	0.00
9,500.0	5.96	247.55	9,455.1	-331.4	-801.9	867.7	0.00	0.00	0.00
9,600.0	5.96	247.55	9,554.5	-335.4	-811.5	878.1	0.00	0.00	0.00
9,700.0	5.96	247.55	9,654.0	-339.4	-821.1	888.5	0.00	0.00	0.00
9,800.0	5.96	247.55	9,753.4	-343.3	-830.7	898.9	0.00	0.00	0.00
9,900.0	5.96	247.55	9,852.9	-347.3	-840.3	909.3	0.00	0.00	0.00
10,000.0	5.96	247.55	9,952.4	-351.3	-849.9	919.7	0.00	0.00	0.00
10,100.0	5.96	247.55	10,051.8	-355.2	-859.5	930.1	0.00	0.00	0.00
10,200.0	5.96	247.55	10,151.3	-359.2	-869.1	940.4	0.00	0.00	0.00
10,300.0	5.96	247.55	10,250.7	-363.2	-878.7	950.8	0.00	0.00	0.00
10,400.0	5.96	247.55	10,350.2	-367.1	-888.3	961.2	0.00	0.00	0.00
10,500.0	5.96	247.55	10,449.7	-371.1	-898.0	971.6	0.00	0.00	0.00
10,600.0	5.96	247.55	10,549.1	-375.1	-907.6	982.0	0.00	0.00	0.00
10,676.4	5.96	247.55	10,625.1	-378.1	-914.9	989.9	0.00	0.00	0.00
<b>Start Drop 1.5/100'</b>									
10,700.0	5.61	247.55	10,648.6	-379.0	-917.1	992.3	1.50	-1.50	0.00
10,800.0	4.11	247.55	10,748.2	-382.2	-924.9	1,000.8	1.50	-1.50	0.00
10,900.0	2.61	247.55	10,848.0	-384.5	-930.3	1,006.7	1.50	-1.50	0.00
11,000.0	1.11	247.55	10,948.0	-385.7	-933.3	1,009.9	1.50	-1.50	0.00
11,074.0	0.00	0.00	11,022.0	-386.0	-934.0	1,010.6	1.50	-1.50	151.93
<b>EOD Hold 0 Deg - Dakota - UTE 8-25-14-19</b>									
11,100.0	0.00	0.00	11,048.0	-386.0	-934.0	1,010.6	0.00	0.00	0.00
11,200.0	0.00	0.00	11,148.0	-386.0	-934.0	1,010.6	0.00	0.00	0.00
11,293.0	0.00	0.00	11,241.0	-386.0	-934.0	1,010.6	0.00	0.00	0.00
<b>Cedar Mtn</b>									
11,300.0	0.00	0.00	11,248.0	-386.0	-934.0	1,010.6	0.00	0.00	0.00
11,400.0	0.00	0.00	11,348.0	-386.0	-934.0	1,010.6	0.00	0.00	0.00
11,474.0	0.00	0.00	11,422.0	-386.0	-934.0	1,010.6	0.00	0.00	0.00
<b>Morrison</b>									
11,500.0	0.00	0.00	11,448.0	-386.0	-934.0	1,010.6	0.00	0.00	0.00
11,600.0	0.00	0.00	11,548.0	-386.0	-934.0	1,010.6	0.00	0.00	0.00
11,700.0	0.00	0.00	11,648.0	-386.0	-934.0	1,010.6	0.00	0.00	0.00
11,800.0	0.00	0.00	11,748.0	-386.0	-934.0	1,010.6	0.00	0.00	0.00
11,900.0	0.00	0.00	11,848.0	-386.0	-934.0	1,010.6	0.00	0.00	0.00
12,000.0	0.00	0.00	11,948.0	-386.0	-934.0	1,010.6	0.00	0.00	0.00
12,018.0	0.00	0.00	11,966.0	-386.0	-934.0	1,010.6	0.00	0.00	0.00
<b>Curtis</b>									
12,100.0	0.00	0.00	12,048.0	-386.0	-934.0	1,010.6	0.00	0.00	0.00
12,130.0	0.00	0.00	12,078.0	-386.0	-934.0	1,010.6	0.00	0.00	0.00
<b>Entrada</b>									
12,200.0	0.00	0.00	12,148.0	-386.0	-934.0	1,010.6	0.00	0.00	0.00
12,300.0	0.00	0.00	12,248.0	-386.0	-934.0	1,010.6	0.00	0.00	0.00
12,400.0	0.00	0.00	12,348.0	-386.0	-934.0	1,010.6	0.00	0.00	0.00
12,441.0	0.00	0.00	12,389.0	-386.0	-934.0	1,010.6	0.00	0.00	0.00
<b>Carmel</b>									
12,491.0	0.00	0.00	12,439.0	-386.0	-934.0	1,010.6	0.00	0.00	0.00
<b>TD - 4 1/2"</b>									



# Crescent Directional Drilling L.P.

## Planning Report



**Database:** EDM 2003.16 Single User Db  
**Company:** Whiting Petroleum  
**Project:** Uintah County, UT  
**Site:** UTE Tribal 8-25-14-19  
**Well:** UTE Tribal 8-25-14-19D  
**Wellbore:** Wellbore #1  
**Design:** Plan #2

**Local Co-ordinate Reference:** Well UTE Tribal 8-25-14-19D  
**TVD Reference:** WELL @ 7220.0ft (Original Well Elev)  
**MD Reference:** WELL @ 7220.0ft (Original Well Elev)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature

### Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (m)	Easting (m)	Latitude	Longitude
UTE 8-25-14-19 - plan hits target - Circle (radius 200.0)	0.00	0.00	11,022.0	-386.0	-934.0	2,139,030.88	651,878.13	39° 34' 19.684 N	109° 43' 55.729 W

### Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
5,016.0	4,995.3	7 5/8"	7.000	7.000
12,491.0	12,439.0	4 1/2"	4.500	6.000

### Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
11,293.0	11,241.0	Cedar Mtn		0.00	
4,417.4	4,400.0	Wasatch		0.00	
11,074.0	11,022.0	Dakota		0.00	
6,903.9	6,873.0	Castlegate		0.00	
5,036.8	5,016.0	Mesaverde		0.00	
12,018.0	11,966.0	Curtis		0.00	
12,441.0	12,389.0	Carmel		0.00	
11,474.0	11,422.0	Morrison		0.00	
7,177.4	7,145.0	Mancos Shale		0.00	
12,130.0	12,078.0	Entrada		0.00	

### Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
1,000.0	1,000.0	0.0	0.0	KOP 2/100'
1,298.2	1,297.7	-5.9	-14.3	End of Build Hold 5.96 Deg
10,676.4	10,625.1	-378.1	-914.9	Start Drop 1.5/100'
11,074.0	11,022.0	-386.0	-934.0	EOD Hold 0 Deg
12,491.0	12,439.0	-386.0	-934.0	TD

DEC 29 2013

<b>RECOMMENDED BY</b>			
Central Rockies		 <b>WHITING PETROLEUM CORP.</b> 1700 BROADWAY Suite 2300 Denver, CO 80290 303-837-1661	
<b>REVISIONS:</b>			
1	John Forster/John Dyer		
2		DATE:	

WELL INFORMATION			
API:	43-047-39053-00	AFE:	
WELL NAME:	UTE TRIBAL 8-25-14-19D	ACQUISITION:	CEA
PROSPECT:	FLAT ROCK	RESERVE CATEGORY:	
SURFACE LOCATION:	SWNW 30 14S 20E	SURFACE LONG, LAT:	-109.7149800, 39.5761000
SURFACE FOOTAGE:	1594 FNL 274 FWL	BOTTOM HOLE LONG, LAT:	-109.7314506, 39.5721522
BOTTOM HOLE LOCATION:	SENE 25 14S 19E	SURVEYED ELEVATION (GR):	7,720
BOTTOM HOLE FOOTAGE:	1980 FNL 660 FEL	HEIGHT TO KB:	32
COUNTY:	Uintah	ACTUAL ELEV. (KB):	7,753
STATE:	UT	TVD (if horizontal well):	ft.
LOCATION MAY BE MOVED:		TMD (if horizontal well):	ft.
PROPOSED TOTAL DEPTH (TVD):	12,439	FORMATION AT TD:	Carmel

FORMATION	TOP - TVD	TOP - TVDSS	INTVL	CORE	LITHOLOGY	GEOLOGIC HAZARDS
Green River Fm	0	7,753	4,400		Oil Shale	oil and/or gas anticipated
Wasatch Fm	4,400	3,353	616		SS-SH	oil and/or gas anticipated
Mesaverde	5,016	2,737	1,857		SS-SH	
Castlegate SS	6,873	880	272		Sandstone	gas
Mancos	7,145	608	3,877		SS-SH	gas
Dakota Gp	11,022	(3,269)	944		Sandstone	gas
Cedar Mtn Fm	11,241	(3,488)	725		Sandstone	gas
Morrison Fm	11,422	(3,669)	544		SS-SH	gas
Curtis Fm	11,966	(4,213)	112		SS-SH	gas
Entrada SS	12,078	(4,325)	311	Possible	Sandstone	
Carmel	12,389	(4,636)	50		LS-SH	gas
TD	12,439	(4,686)				

WIRELINE LOGS	CORING & CUTTINGS
LOGGING COMPANY:	CORING TOOL CO:
TRIPLE COMBO	CORE ANALYSIS CO:
YES	
FROM: TD to surf	
	30' SAMPLES: Surf Csg TO: 11,200
	10' SAMPLES: 11,200 TO: TD
	SHIP CUTTINGS TO: Whiting

WELLSITE GEOLOGIST	MUD LOGGER
NAME:	NAME: GeoLink
PHONE:	PHONE:
STARTING DEPTH:	STARTING DEPTH: Surface

NOTIFICATIONS	OFFICE PHONE	HOME PHONE	CELLULAR PHONE
1st Larry Rasmussen - Geologist	303-390-4093	303-561-0788	720-272-5978
2nd John Forster - Regional Geol Manager	303-390-4117	303-850-0346	303-324-7690
3rd Dana Greathouse - Sr. Drilling Engineer	303-390-4247	303-730-1204	303-808-3687
4th Tom Smith - Sr. Operations Engineer	303-390-4124		720-283-3272

**SPECIAL INSTRUCTIONS:** Anticipate continuous gas from Wasatch through the Entrada, possibly Wingate.  
 Expect underpressured reservoirs, 0.35 psi/ft, Bottom Hole Temperature of ~230F  
 Surface casing to be set to 3300'

DEC 29 2008

**HALLIBURTON**

**Whiting Oil & Gas Corp Ebusiness  
Do Not Mail - 1700 Broadway Ste2300  
Denver, Colorado 80290**

Ute Tribal 8-25-14-19D  
Flat Rock Field  
Uintah County, Utah  
United States of America  
S:25 T:14S R:19E

## **Multiple String Cement Recommendation**

Prepared for: Mr. Dana Greathouse  
November 10, 2008  
Version: 1

Submitted by:  
Matt Collins  
Halliburton  
1125 17th Street #1900  
Denver, Colorado 80202  
303.899.4702

**HALLIBURTON**

RECEIVED

DEC 29 2008

DIV. OF OIL, GAS & MINING

# HALLIBURTON

---

## Job Information

## Surface Casing

---

Well Name: Ute Tribal

Well #: 8-25-14-19D

14 3/4" Open Hole  
Inner Diameter  
Job Excess

0 - 500 ft (MD)  
14.750 in  
100 %

10 3/4" Surface Casing  
Outer Diameter  
Inner Diameter  
Linear Weight

0 - 500 ft (MD)  
10.750 in  
9.950 in  
40.500 lbm/ft

RECEIVED

DEC 29 2000

UTAH STATE OIL & GAS COMMISSION

## Calculations

## Surface Casing

---

Spacer:

$$\begin{aligned} \text{Total Spacer} &= 112.29 \text{ ft}^3 \\ &= 20.00 \text{ bbl} \end{aligned}$$

Cement : (500.00 ft fill)

$$\begin{aligned} 500.00 \text{ ft} * 0.5563 \text{ ft}^3/\text{ft} * 100 \% &= 556.32 \text{ ft}^3 \\ \text{Lead Cement} &= 556.32 \text{ ft}^3 \\ &= 99.09 \text{ bbl} \end{aligned}$$

Shoe Joint Volume: (40.00 ft fill)

$$\begin{aligned} 40.00 \text{ ft} * 0.54 \text{ ft}^3/\text{ft} &= 21.60 \text{ ft}^3 \\ &= 3.85 \text{ bbl} \\ \text{Tail plus shoe joint} &= 577.92 \text{ ft}^3 \\ &= 102.93 \text{ bbl} \\ \text{Total Tail} &= 321 \text{ sks} \end{aligned}$$

Total Pipe Capacity:

$$\begin{aligned} 500.00 \text{ ft} * 0.54 \text{ ft}^3/\text{ft} &= 269.99 \text{ ft}^3 \\ &= 48.09 \text{ bbl} \end{aligned}$$

Displacement Volume to Shoe Joint:

$$\begin{aligned} \text{Capacity of Pipe - Shoe Joint} &= 48.09 \text{ bbl} - 3.85 \text{ bbl} \\ &= 44.24 \text{ bbl} \end{aligned}$$

RECEIVED

DEC 29 2010

UTRI, OIL & GAS

## Job Recommendation

## Surface Casing

---

### Fluid Instructions

Fluid 1: Water Spacer  
Gel Water

Fluid Density: 8.340 lbm/gal  
Fluid Volume: 20 bbl

Fluid 2: Lead Cement  
Rockies LT

0.25 lbm/sk Kwik Seal (Lost Circulation Additive)  
0.125 lbm/sk Poly-E-Flake (Lost Circulation Additive)

Fluid Weight 13.500 lbm/gal  
Slurry Yield: 1.800 ft<sup>3</sup>/sk  
Total Mixing Fluid: 9.333 Gal/sk  
Top of Fluid: 0 ft  
Calculated Fill: 500 ft  
Volume: 102.932 bbl  
Calculated Sacks: 321.068 sks  
Proposed Sacks: 325 sks

Fluid 3: Water Spacer  
Water Displacement

Fluid Density: 8.340 lbm/gal  
Fluid Volume: 44.240 bbl

Fluid 4: Top Out Cement  
Premium Plus - Type III

94 lbm/sk Premium Plus - Type III (Cement-non-api)  
2 % Calcium Chloride (Accelerator)

Fluid Weight 14.500 lbm/gal  
Slurry Yield: 1.410 ft<sup>3</sup>/sk  
Total Mixing Fluid: 6.855 Gal/sk  
Proposed Sacks: 200 sks

RECEIVED

DEC 29 2003

DIV. OF OIL, GAS & MINING

**Detailed Pumping Schedule**

Fluid #	Fluid Type	Fluid Name	Surface Density lbm/gal	Estimated Avg Rate bbl/min	Downhole Volume
1	Spacer	Gel Water	8.3		20 bbl
2	Cement	Primary Cement	13.5		325 sks
3	Spacer	Water Displacement	8.3		44.240 bbl
4	Cement	Top Out Cement	14.5		200 sks

RECEIVED

DEC 29 2003

OFFICE OF OIL, GAS &amp; REVENUE

## Job Information

## Intermediate Casing

---

Well Name: Ute Tribal

Well #: 8-25-14-19D

10 3/4" Surface Casing  
Outer Diameter  
Inner Diameter  
Linear Weight

0 - 500 ft (MD)  
10.750 in  
9.950 in  
40.500 lbm/ft

9 1/2" Open Hole  
Inner Diameter  
Job Excess

500 - 5000 ft (MD)  
9.500 in  
75 %

7 5/8" Intermediate Casing  
Outer Diameter  
Inner Diameter  
Linear Weight

0 - 5000 ft (MD)  
7.625 in  
6.875 in  
26.400 lbm/ft

Mud Weight  
BHCT

8.400 lbm/gal  
95 degF

RECEIVED

DEC 29 2000

OFFICE OF OIL, GAS & MINING

**Calculations****Intermediate Casing**

Spacer:		
Total Spacer	= 112.29 ft <sup>3</sup>	
	= 20.00 bbl	
Spacer:		
Total Spacer	= 224.58 ft <sup>3</sup>	
	= 40.00 bbl	
Spacer:		
Total Spacer	= 112.29 ft <sup>3</sup>	
	= 20.00 bbl	
Cement : (4500.00 ft fill)		
500.00 ft * 0.2229 ft <sup>3</sup> /ft * 0 %	= 111.43 ft <sup>3</sup>	
4000.00 ft * 0.1751 ft <sup>3</sup> /ft * 75 %	= 1225.91 ft <sup>3</sup>	
Total Lead Cement	= 1337.34 ft <sup>3</sup>	
	= 238.19 bbl	
Sacks of Cement	= 330 sks	
Cement : (500.00 ft fill)		
500.00 ft * 0.1751 ft <sup>3</sup> /ft * 75 %	= 153.24 ft <sup>3</sup>	
Tail Cement	= 153.24 ft <sup>3</sup>	
	= 27.29 bbl	
Shoe Joint Volume: (40.00 ft fill)		
40.00 ft * 0.2578 ft <sup>3</sup> /ft	= 10.31 ft <sup>3</sup>	
	= 1.84 bbl	
Tail plus shoe joint	= 163.55 ft <sup>3</sup>	
	= 29.13 bbl	
Total Tail	= 142 sks	
Total Pipe Capacity:		
5000.00 ft * 0.2578 ft <sup>3</sup> /ft	= 1288.97 ft <sup>3</sup>	
	= 229.57 bbl	
Displacement Volume to Shoe Joint:		
Capacity of Pipe - Shoe Joint	= 229.57 bbl - 1.84 bbl	
	= 227.74 bbl	

RECEIVED

DEC 29 2010

DIV. OF OIL, GAS &amp; MINING

## Job Recommendation

## Intermediate Casing

### Fluid Instructions

Fluid 1: Water Spacer  
Fresh Water

Fluid Density: 8.340 lbm/gal  
Fluid Volume: 20 bbl

Fluid 2: Reactive Spacer  
Super Flush

68 lbm/bbl Halliburton Super Flush (Accelerator)

Fluid Density: 9.200 lbm/gal  
Fluid Volume: 40 bbl

Fluid 3: Water Spacer  
Fresh Water

Fluid Density: 8.340 lbm/gal  
Fluid Volume: 20 bbl

Fluid 4: Lead Cement

TUNED LIGHT RS1 SYSTEM

0.125 lbm/sk Poly-E-Flake (Lost Circulation Additive)

Fluid Weight 10.800 lbm/gal  
Slurry Yield: 4.052 ft<sup>3</sup>/sk  
Total Mixing Fluid: 25.004 Gal/sk  
Top of Fluid: 0 ft  
Calculated Fill: 4500 ft  
Volume: 238.190 bbl  
Calculated Sacks: 330.044 sks  
Proposed Sacks: 335 sks

Fluid 5: Tail Cement

Premium Cement

94 lbm/sk Premium Cement (Cement)  
0.3 % Halad(R)-344 (Low Fluid Loss Control)  
0.25 % CFR-3 (Dispersant)  
0.35 % HR-5 (Retarder)  
0.2 % Super CBL (Gas Migration Control)

Fluid Weight 15.800 lbm/gal  
Slurry Yield: 1.152 ft<sup>3</sup>/sk  
Total Mixing Fluid: 4.944 Gal/sk  
Top of Fluid: 4500 ft  
Calculated Fill: 500 ft  
Volume: 29.129 bbl  
Calculated Sacks: 141.970 sks  
Proposed Sacks: 145 sks

Fluid 6: Mud

Mud Displacement

Fluid Density: 10 lbm/gal  
Fluid Volume: 227.738 bbl

RECEIVED

DEC 29 2008

DIV. OF OIL, GAS & MINING

### Detailed Pumping Schedule

Fluid #	Fluid Type	Fluid Name	Surface Density lbm/gal	Estimated Avg Rate bbl/min	Downhole Volume
1	Spacer	Fresh Water	8.3		20 bbl
2	Spacer	Super Flush	9.2		40 bbl
3	Spacer	Fresh Water	8.3		20 bbl
4	Cement	Tuned Light RS1	10.8		335 sks
5	Cement	Premium Cement	15.8		145 sks
6	Mud	Mud Displacement	10.0		227.738 bbl

RECEIVED

DEC 29 2008

AS OF CL, 215 410/110

## Job Information

## Production Casing

---

Well Name: Ute Tribal

Well #: 8-25-14-19D

7 5/8" Intermediate Casing

0 - 5000 ft (MD)

Outer Diameter

7.625 in

Inner Diameter

6.875 in

Linear Weight

26.400 lbm/ft

6 1/2" Open Hole

5000 - 12441 ft (MD)

Inner Diameter

6.125 in

Job Excess

40 %

4 1/2" Production Casing

0 - 12441 ft (MD)

Outer Diameter

4.500 in

Inner Diameter

4.000 in

Linear Weight

11.600 lbm/ft

Mud Weight

9.500 lbm/gal

BHCT

180 degF

RECEIVED

DEC 29 2008

DIV. OF OIL, GAS & MINING

# HALLIBURTON

## Calculations

## Production Casing

Spacer:

$$\begin{aligned} 381.00 \text{ ft} * 0.1473 \text{ ft}^3/\text{ft} * 0 \% &= 56.14 \text{ ft}^3 \\ \text{Total Spacer} &= 56.15 \text{ ft}^3 \\ &= 10.00 \text{ bbl} \end{aligned}$$

Spacer:

$$\begin{aligned} 762.00 \text{ ft} * 0.1473 \text{ ft}^3/\text{ft} * 0 \% &= 112.28 \text{ ft}^3 \\ \text{Total Spacer} &= 112.29 \text{ ft}^3 \\ &= 20.00 \text{ bbl} \end{aligned}$$

Spacer:

$$\begin{aligned} 381.00 \text{ ft} * 0.1473 \text{ ft}^3/\text{ft} * 0 \% &= 56.14 \text{ ft}^3 \\ \text{Total Spacer} &= 56.15 \text{ ft}^3 \\ &= 10.00 \text{ bbl} \end{aligned}$$

Cement : (7941.00 ft fill)

$$\begin{aligned} 1000.00 \text{ ft} * 0.1473 \text{ ft}^3/\text{ft} * 0 \% &= 147.35 \text{ ft}^3 \\ 6941.00 \text{ ft} * 0.0942 \text{ ft}^3/\text{ft} * 40 \% &= 915.08 \text{ ft}^3 \\ \text{Total Foamed Lead Cement} &= 1062.43 \text{ ft}^3 \\ &= 189.23 \text{ bbl} \\ \text{Sacks of Cement} &= 527 \text{ sks} \end{aligned}$$

Cement : (500.00 ft fill)

$$\begin{aligned} 500.00 \text{ ft} * 0.0942 \text{ ft}^3/\text{ft} * 40 \% &= 65.92 \text{ ft}^3 \\ \text{Tail Cement} &= 65.92 \text{ ft}^3 \\ &= 11.74 \text{ bbl} \end{aligned}$$

Shoe Joint Volume: (40.00 ft fill)

$$\begin{aligned} 40.00 \text{ ft} * 0.0873 \text{ ft}^3/\text{ft} &= 3.49 \text{ ft}^3 \\ &= 0.62 \text{ bbl} \\ \text{Tail plus shoe joint} &= 69.41 \text{ ft}^3 \\ &= 12.36 \text{ bbl} \\ \text{Total Tail} &= 47 \text{ sks} \end{aligned}$$

Total Pipe Capacity:

$$\begin{aligned} 12441.00 \text{ ft} * 0.0873 \text{ ft}^3/\text{ft} &= 1085.68 \text{ ft}^3 \\ &= 193.37 \text{ bbl} \end{aligned}$$

Displacement Volume to Shoe Joint:

$$\begin{aligned} \text{Capacity of Pipe - Shoe Joint} &= 193.37 \text{ bbl} - 0.62 \text{ bbl} \\ &= 192.75 \text{ bbl} \end{aligned}$$

RECEIVED

DEC 29 2008

U. S. GEOLOGICAL SURVEY

## Job Recommendation

## Production Casing

---

### Fluid Instructions

Fluid 1: Water Spacer

Fresh Water

Fluid Density: 8.340 lbm/gal

Fluid Volume: 10 bbl

Fluid 2: Reactive Spacer

SUPER FLUSH

Fluid Density: 10 lbm/gal

Fluid Volume: 20 bbl

Fluid 3: Water Spacer

Fresh Water

Fluid Density: 8.340 lbm/gal

Fluid Volume: 10 bbl

Fluid 4: Foamed Lead Cement

ELASTISEAL SYSTEM

1.5 % FDP-C760-04 (Foamer)

Fluid Weight 14.300 lbm/gal

Slurry Yield: 1.470 ft<sup>3</sup>/sk

Total Mixing Fluid: 6.408 Gal/sk

Top of Fluid: 4000 ft

Calculated Fill: 7941 ft

Volume: 189.226 bbl

Calculated Sacks: 526.601 sks

Proposed Sacks: 530 sks

Fluid 5: Tail Cement

ELASTISEAL SYSTEM

Fluid Weight 14.300 lbm/gal

Slurry Yield: 1.469 ft<sup>3</sup>/sk

Total Mixing Fluid: 6.400 Gal/sk

Top of Fluid: 11941 ft

Calculated Fill: 500 ft

Volume: 12.362 bbl

Calculated Sacks: 47.249 sks

Proposed Sacks: 50 sks

Fluid 6: Water Spacer

Displacement

Fluid Density: 8.340 lbm/gal

Fluid Volume: 192.746 bbl

RECEIVED

DEC 29 2008

DIV. OF OIL, GAS & MINING

**Detailed Pumping Schedule**

Fluid #	Fluid Type	Fluid Name	Surface Density lbm/gal	Estimated Avg Rate bbl/min	Downhole Volume
1	Spacer	Fresh Water	8.3		10 bbl
2	Spacer	SUPER FLUSH	10.0		20 bbl
3	Spacer	Fresh Water	8.3		10 bbl
4	Cement	ELASTISEAL SYSTEM	14.3		530 sks
5	Cement	ELASTISEAL SYSTEM	14.3		50 sks
6	Spacer	Displacement	8.3		192.746 bbl

**Foam Output Parameter Summary:**

Fluid #	Fluid Name	Unfoamed Liquid Volume	Beginning Density lbm/gal	Ending Density lbm/gal	Beginning Rate scf/bbl	Ending Rate scf/bbl
<b>Stage 1</b>						
4	ELASTISEAL SYSTEM	137.87bb 1	11.0	11.0	223.1	675.1

**Foam Design Specifications:**

Foam Calculation Method: Constant Density  
 Backpressure: 75 psig  
 Bottom Hole Circulating Temp: 180 degF  
 Mud Outlet Temperature: 120 degF

Calculated Gas = 62670.7 scf  
 Additional Gas = 40000 scf  
 Total Gas = 102670.7 scf

RECEIVED

DEC 29 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: <b>20G0005581</b>
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: <b>Ute Indian Tribe</b>
		7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL <b>OIL WELL</b> <input type="checkbox"/> <b>GAS WELL</b> <input checked="" type="checkbox"/> <b>OTHER</b> _____		8. WELL NAME and NUMBER: <b>Ute Tribal 8-25-14-19</b>
2. NAME OF OPERATOR: <b>Whiting Oil and Gas Corporation</b>		9. API NUMBER: <b>047-39053</b>
3. ADDRESS OF OPERATOR: <b>1700 Bdwy, STE 2300</b> CITY <b>Denver</b> STATE <b>CO</b> ZIP <b>80290-2300</b>		PHONE NUMBER: <b>(303) 390-4095</b>
4. LOCATION OF WELL FOOTAGES AT SURFACE: <b>1594' FNL &amp; 274' FWL</b>		10. FIELD AND POOL, OR WILDCAT: <b>Flat Rock</b>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>SWNW 30 14S 10E</b> <sup>20E</sup>		COUNTY: <b>Uintah</b>
		STATE: <b>UTAH</b>

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> (Submit in Duplicate) Approximate date work will start: <u>3/15/2009</u>	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input checked="" type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>Adjust Casing Design and Drill Angle</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.

Whiting Oil and Gas Corporation is requesting to adjust the casing design and drill angle on the subject well. In order to effectively drain the Entrada zone we are adjusting the casing design and the angle of the well-bore through that zone. The well will be completed as open hole from 12,250' to 12,608' MD.

We are adjusting the casing as follows:  
Surface String: 13-3/8" set at 500'; Intermediate String: 9-5/8" set at 5,000'; Production String: 7" set at 12,250'. TD of the adjusted well-bore will be changed to 12,608' MD and 12,389' TVD.  
The Bottom-hole location will remain at 1880' FNL and 660' FEL in the drilling window as required by R649-3-2

Attached are the following revised documents:  
Drilling Plan  
Directional Plan  
Cementing Outline  
Air Drilling Layout and Compressor Equipment Detail  
Drilling Fluids Outline

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

Date: 02-23-09  
By: [Signature]

---

NAME (PLEASE PRINT) Scott M. Webb      TITLE Regulatory Coordinator  
SIGNATURE [Signature]      DATE 2/9/2009

(This space for State use only)

**COPY SENT TO OPERATOR**  
Date: 3.4.2009  
Initials: KS

**RECEIVED**  
**FEB 10 2009**  
**DIV. OF OIL, GAS & MINING**

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

**Whiting Oil & Gas Corp.  
Ute Tribal 8-25-14-19 Adjusted Well Plan  
Directional Entrada test**

Surface Location: SWNW 30-T14S-R20E SLB&M  
1594' FNL & 274' FEL  
Uintah County, Utah

**SUMMARY:**

Whiting Oil & Gas Corp. is requesting a change in BHL for this well from the NENE to the SENE forty. The adjusted well plan has been done to reflex the change in BHL and change in casing design. This change was done to moving the BHL up structure in the Entrada formation. The casing design will be changed from the original APD, to use a top set type casing design above the Entrada. The Entrada will be drilled with a 6-1/8" bit. The Entrada will be left as an open hole completion. This directional plan calls for an extended reach type well, with the well bore cutting the fractures on a south to north well bore.

**DRILLING PROGRAM**

**1. ESTIMATED TOPS OF GEOLOGICAL MARKERS:**

Ground Level 7,720'      Estimated KB 7,750' (30')

<b><u>Formation</u></b>	<b><u>TVD</u></b>	<b><u>SS</u></b>	<b><u>Core</u></b>	<b><u>Lithology</u></b>	<b><u>Hazard</u></b>
Green River	0	7,750'		Oil Shale	Oil/Gas
Wasatch	4,400'	3,350'		SS-SH	Oil/Gas
Mesaverde	5,016'	2,734'		SS-SH	Oil
Castlegate SS	6,873'	877'		Sandstone	Gas
Mancos	7,145'	605'		SS-SH	Gas
Dakota	11,022'	(3,272')		Sandstone	Gas
Cedar Mtn	11,241'	(3,491')		Sandstone	Gas
Morrison	11,422'	(3,672')		SS-SH	Gas
Curtis	11,966'	(4,216')		SS-SH	Gas
Entrada	12,078'	(4,328')	Possible	Sandstone	Gas
Total Depth	12,389'	(4,639')			

Bottom Hole Location: SENE 25-T14S-R19E  
1980' FNL & 660' FEL  
Uintah County, Utah

\*See Attached Directional Well Plan

**2. PRESSURE CONTROL EQUIPMENT**

- A. Type:** 11" 5000 psi annular preventer  
11" 5000 psi double ram hydraulic BOP  
1 - Blind Ram  
1 - Pipe Ram  
Drilling Spool  
Kill lines will be 2" x 5,000 psi working pressure  
Choke lines will be 3" x 5,000 psi working pressure  
5,000 psi Casing head

**B. Testing Procedure:**

The annular preventer will be pressure tested to 50% of stack rated working pressure for ten (10) minutes or until provisions of test are met, whichever is longer. The BOP, choke manifold, and related equipment will be pressure tested to approved BOP stack working pressure (if isolated from surface casing by a test plug) or to 70% of surface casing internal yield strength (if BOP is not isolated by a test plug). Pressure will be maintained for ten (10) minutes or until the requirements of the test are met, whichever is longer. At a minimum, the Annular and Blow-Out Preventer pressure tests will be performed:

1. When the BOPE is initially installed;
2. Whenever any seal subject to test pressure is broken;
3. Following related repairs; and
4. At thirty (30) day intervals.

Annular will be function tested weekly, and pipe & blind rams activated each trip, but not more than once per day. All BOP drills & tests will be recorded in IADC driller's log.

**C. Choke Manifold Equipment:**

All choke lines will be straight lines whenever possible at turns, tee blocks will be used or will be targeted with running tees, and will be anchored to prevent whip and vibration.

**D. Accumulator:**

Accumulator will have sufficient capacity to open hydraulically-controlled choke line valve (if so equipped), close all rams plus annular preventer, and retain a minimum of 200 psi above precharge on the closing manifold without the use of closing unit pumps. The fluid reservoir capacity will be double accumulator capacity and the fluid level will be maintained at manufacturer's recommendations. Accumulator precharge pressure test will be conducted prior to connecting the closing unit to the BOP stack.

**E. Miscellaneous Information:**

Choke manifold and BOP extension rods with hand wheels will be located outside rig sub-structure. Hydraulic BOP closing unit will be located at least twenty-five (25) feet from the wellhead but readily accessible to the driller. Exact locations and configurations of the hydraulic BOP closing unit will depend upon the particular rig contracted to drill this hole. A flare line will be installed after the choke manifold with the discharge point of the flare line to a separate pit located at least 125 feet away from the wellbore and any existing production facilities.

**3. PROPOSED CASING PROGRAM**

<u>Hole Size</u>	<u>Setting Depth (MD)</u>	<u>Casing Size</u>	<u>Wt./Ft.</u>	<u>Grade</u>	<u>Thread</u>
17-1/2"	500'	13-3/8"	48.00	H-40	STC
12-1/4"	5,000'	9-5/8"	36.00	J-55	LTC
8-3/4"	12,250'	7"	29.00	P-110	VAM TOP
6-1/8"	12,608'	Open Hole			

#### 4. PROPOSED CEMENTING PROGRAM

SURFACE: TOC Surface (100% Excess)

Single Stage (Includes Top Out): 390 sacks, Rockies LT

<u>Cement Properties</u>	<u>Slurry</u>
Slurry Weight (ppg)	13.5
Slurry Yield (cf/sack)	1.80

INTERMEDIATE: TOC Surface (75% Excess, TOT: 4500' MD, TOL: Surface)

Lead: 580 sacks Halliburton Tuned Light System

Tail: 255 sacks Halliburton Premium Cement

<u>Cement Properties</u>	<u>Lead Slurry</u>	<u>Tail Slurry</u>
Slurry Weight (ppg)	10.8	15.8
Slurry Yield (cf/sack)	4.052	1.052

PRODUCTION: TOC Surface (40% Excess, TOT: 11,750' MD, TOL: 4000' MD)

Lead: 785 sacks Halliburton Foamed Lead Cement Elastiseal System

Tail: 80 sacks Halliburton Elastiseal System

<u>Cement Properties</u>	<u>Lead Slurry</u>	<u>Tail Slurry</u>
Slurry Weight (ppg)	14.30	14.30
Slurry Yield (cf/sack)	1.47	1.47

\* See Attached cement program.

#### 5. MUD PROGRAM

<u>Depth (MD)</u>	<u>Mud System</u>	<u>MW</u>	<u>PV</u>	<u>YP</u>	<u>FL</u>
0 - 500	Air	N/A	N/A	N/A	N/A
500' - 5,000'	Spud Mud	8.4 - 8.6	0 - 15	0 - 10	N/C
5,000' - 12,250'	3% KCL / Polymer	8.6 - 9.5	5 - 10	5 - 15	>8
12,250' - TD	3% KCL / Polymer Aerated	7.0 - 7.3	5 - 10	5 - 15	>8

Surface hole (0' - 500') will be drilled with the drilling rig using an air/foam package. Air/foam package will consist of compressors, booster, and foam unit. (See attached drawing and data). Package will compress 3200 SCFM of air and a fluid package capable of pumping 60 gpm nominal, of fluid to 600 psig. This same package will move 2100 SCFM two staged @ 1500 psig.

### Special Drilling Operations

- Rotating Head
- Blooie line discharge 100 feet from well bore and securely anchored
- Straight run on blooie line
- Compressors located in the opposite direction from the blooie line
- Compressors located a minimum of 100 feet the well bore

Entrada Open hole Section 12,250' – TD will be drilled with an Aerated 3% KCL / Polymer mud system to minimize formation damage due to low BHP. An air package will consist of compressors and booster. Package should provide 2500 SCFM @ 1500 psig.

### 6. Testing, Logging and Core Programs

Cores: None planned

DST: None planned

Surveys: Per Directional Plan

Mud Logger: Surface

Samples: 30' samples from surface to Entrada  
10' samples to TD

Open Hole Logging Program: Triple Combo TD to Surface Casing

### 7. ANTICIPATED ABNORMAL PRESSURES OR TEMPERATURES:

No abnormal pressures are anticipated. No H<sub>2</sub>S gas is anticipated.

Anticipated bottomhole pressure is 4,668 psi (0.375 psi/ft) at 12,448' TVD (7.21 ppg equivalent).

### 8. ANTICIPATED STARTING DATE AND DURATION:

Dirt work startup: Location is built

Spud: March 2009

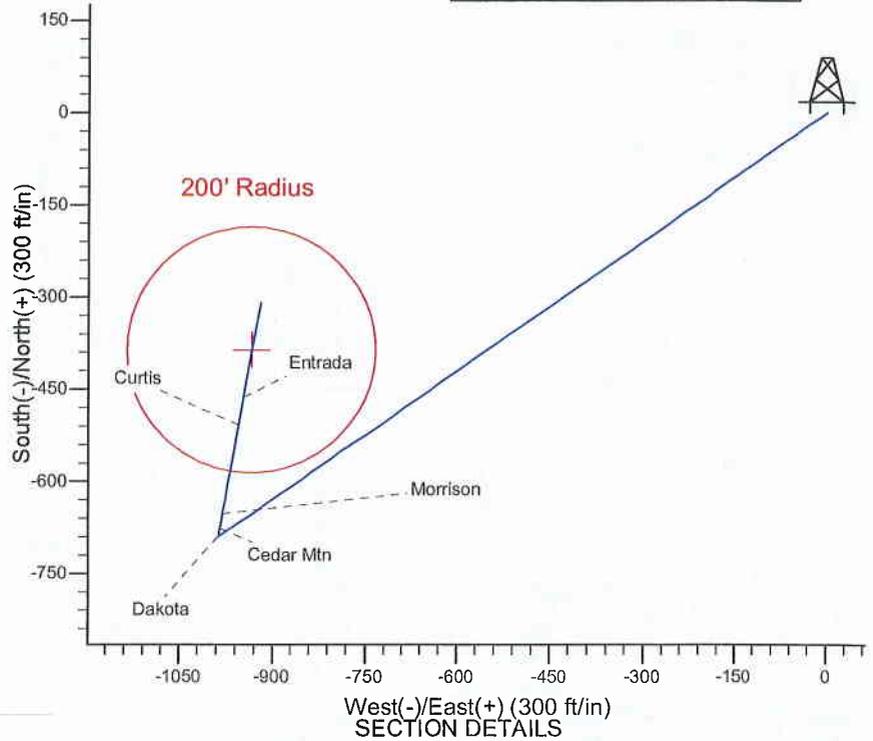
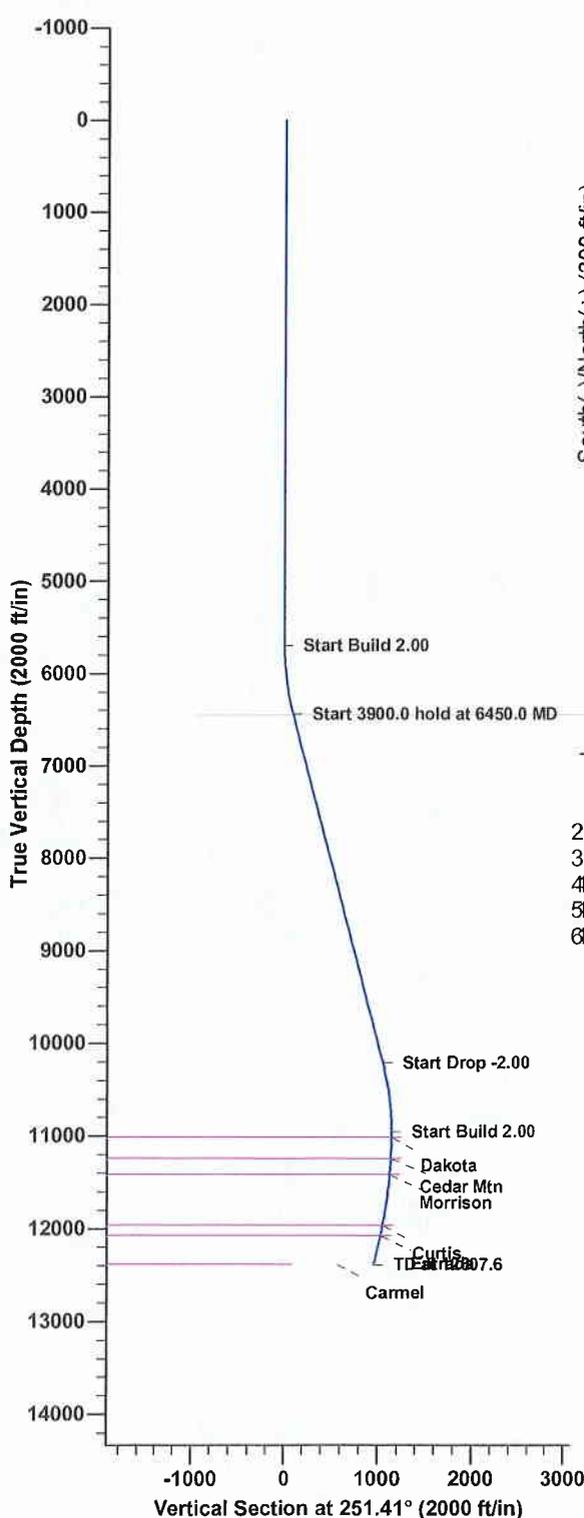
Duration: 35 - 40 days

PROJECT DETAILS: Uintah County, UT	
Geodetic System:	US State Plane 1983
Datum:	North American Datum 1983
Ellipsoid:	GRS 1980
Zone:	Utah Central Zone



Azimuths to True North  
Magnetic North: 11.38°

Magnetic Field  
Strength: 52247.6snT  
Dip Angle: 65.54°  
Date: 2/3/2009  
Model: IGRF200510



MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2 5700.0	0.00	0.00	5700.0	0.0	0.0	0.00	0.00	0.0	
3 6450.0	15.00	235.00	6441.5	-56.0	-80.0	2.00	235.00	93.6	
4 10350.0	15.00	235.00	10208.6	-635.0	-906.8	0.00	0.00	1061.9	
5 11100.0	0.00	0.00	10950.0	-690.9	-986.8	2.00	180.00	1155.5	
6 12607.6	30.15	10.00	12389.0	-309.2	-919.5	2.00	10.00	970.1	

TVDPath	MDPath	Formation
		Carmel
11022.0	11172.0	Dakota
11247.0	11397.5	Cedar Mtn
11422.0	11574.1	Morrison
11966.0	12138.6	Curtis
12078.0	12259.4	Entrada



# Crescent Directional Drilling L.P.

## Planning Report



Whiting Petroleum Corporation

<b>Database:</b>	EDM 2003.16 Single User Db	<b>Local Co-ordinate Reference:</b>	Well UTE Tribal 8-25-14-19D
<b>Company:</b>	Whiting Petroleum	<b>TVD Reference:</b>	WELL @ 7220.0ft (Original Well Elev)
<b>Project:</b>	Uintah County, UT	<b>MD Reference:</b>	WELL @ 7220.0ft (Original Well Elev)
<b>Site:</b>	UTE Tribal 8-25-14-19	<b>North Reference:</b>	True
<b>Well:</b>	UTE Tribal 8-25-14-19D	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Build/Hold/Drop		

<b>Project</b>	Uintah County, UT		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Ground Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Utah Central Zone		

**Site** UTE Tribal 8-25-14-19

<b>Site Position:</b>		<b>Northing:</b>	2,139,154.15 m	<b>Latitude:</b>	39° 34' 23.500 N
<b>From:</b>	Lat/Long	<b>Easting:</b>	652,160.42 m	<b>Longitude:</b>	109° 43' 43.800 W
<b>Position Uncertainty:</b>	0.0 ft	<b>Slot Radius:</b>	in	<b>Grid Convergence:</b>	1.13 °

**Well** UTE Tribal 8-25-14-19D

<b>Well Position</b>	<b>+N/-S</b>	0.0 ft	<b>Northing:</b>	2,139,154.15 m	<b>Latitude:</b>	39° 34' 23.500 N
	<b>+E/-W</b>	0.0 ft	<b>Easting:</b>	652,160.42 m	<b>Longitude:</b>	109° 43' 43.800 W
<b>Position Uncertainty</b>		0.0 ft	<b>Wellhead Elevation:</b>	ft	<b>Ground Level:</b>	0.0 ft

**Wellbore** Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	2/3/2009	11.38	65.54	52,248

**Design** Build/Hold/Drop

**Audit Notes:**

**Version:** Phase: PROTOTYPE Tie On Depth: 0.0

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	251.41

**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
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
5,700.0	0.00	0.00	5,700.0	0.0	0.0	0.00	0.00	0.00	0.00	
6,450.0	15.00	235.00	6,441.5	-56.0	-80.0	2.00	2.00	0.00	235.00	
10,350.0	15.00	235.00	10,208.6	-635.0	-906.8	0.00	0.00	0.00	0.00	
11,100.0	0.00	0.00	10,950.0	-690.9	-986.8	2.00	-2.00	0.00	180.00	
12,607.6	30.15	10.00	12,389.0	-309.2	-919.5	2.00	2.00	0.00	10.00	



# Crescent Directional Drilling L.P.

## Planning Report



Whiting Petroleum Corporation

**Database:** EDM 2003.16 Single User Db  
**Company:** Whiting Petroleum  
**Project:** Uintah County, UT  
**Site:** UTE Tribal 8-25-14-19  
**Well:** UTE Tribal 8-25-14-19D  
**Wellbore:** Wellbore #1  
**Design:** Build/Hold/Drop

**Local Co-ordinate Reference:** Well UTE Tribal 8-25-14-19D  
**TVD Reference:** WELL @ 7220.0ft (Original Well Elev)  
**MD Reference:** WELL @ 7220.0ft (Original Well Elev)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature

### 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)
5,800.0	2.00	235.00	5,800.0	-1.0	-1.4	1.7	2.00	2.00	0.00
5,900.0	4.00	235.00	5,899.8	-4.0	-5.7	6.7	2.00	2.00	0.00
6,000.0	6.00	235.00	5,999.5	-9.0	-12.9	15.1	2.00	2.00	0.00
6,100.0	8.00	235.00	6,098.7	-16.0	-22.8	26.7	2.00	2.00	0.00
6,200.0	10.00	235.00	6,197.5	-25.0	-35.7	41.7	2.00	2.00	0.00
6,300.0	12.00	235.00	6,295.6	-35.9	-51.3	60.1	2.00	2.00	0.00
6,400.0	14.00	235.00	6,393.1	-48.8	-69.7	81.6	2.00	2.00	0.00
6,450.0	15.00	235.00	6,441.5	-56.0	-80.0	93.6	2.00	2.00	0.00
6,500.0	15.00	235.00	6,489.8	-63.4	-90.6	106.1	0.00	0.00	0.00
6,600.0	15.00	235.00	6,586.4	-78.3	-111.8	130.9	0.00	0.00	0.00
6,700.0	15.00	235.00	6,682.9	-93.1	-133.0	155.7	0.00	0.00	0.00
6,800.0	15.00	235.00	6,779.5	-107.9	-154.2	180.5	0.00	0.00	0.00
6,900.0	15.00	235.00	6,876.1	-122.8	-175.4	205.4	0.00	0.00	0.00
7,000.0	15.00	235.00	6,972.7	-137.6	-196.6	230.2	0.00	0.00	0.00
7,100.0	15.00	235.00	7,069.3	-152.5	-217.8	255.0	0.00	0.00	0.00
7,200.0	15.00	235.00	7,165.9	-167.3	-239.0	279.8	0.00	0.00	0.00
7,300.0	15.00	235.00	7,262.5	-182.2	-260.2	304.7	0.00	0.00	0.00
7,400.0	15.00	235.00	7,359.1	-197.0	-281.4	329.5	0.00	0.00	0.00
7,500.0	15.00	235.00	7,455.7	-211.9	-302.6	354.3	0.00	0.00	0.00
7,600.0	15.00	235.00	7,552.3	-226.7	-323.8	379.2	0.00	0.00	0.00
7,700.0	15.00	235.00	7,648.9	-241.6	-345.0	404.0	0.00	0.00	0.00
7,800.0	15.00	235.00	7,745.5	-256.4	-366.2	428.8	0.00	0.00	0.00
7,900.0	15.00	235.00	7,842.1	-271.2	-387.4	453.6	0.00	0.00	0.00
8,000.0	15.00	235.00	7,938.6	-286.1	-408.6	478.5	0.00	0.00	0.00
8,100.0	15.00	235.00	8,035.2	-300.9	-429.8	503.3	0.00	0.00	0.00
8,200.0	15.00	235.00	8,131.8	-315.8	-451.0	528.1	0.00	0.00	0.00
8,300.0	15.00	235.00	8,228.4	-330.6	-472.2	552.9	0.00	0.00	0.00
8,400.0	15.00	235.00	8,325.0	-345.5	-493.4	577.8	0.00	0.00	0.00
8,500.0	15.00	235.00	8,421.6	-360.3	-514.6	602.6	0.00	0.00	0.00
8,600.0	15.00	235.00	8,518.2	-375.2	-535.8	627.4	0.00	0.00	0.00
8,700.0	15.00	235.00	8,614.8	-390.0	-557.0	652.3	0.00	0.00	0.00
8,800.0	15.00	235.00	8,711.4	-404.9	-578.2	677.1	0.00	0.00	0.00
8,900.0	15.00	235.00	8,808.0	-419.7	-599.4	701.9	0.00	0.00	0.00
9,000.0	15.00	235.00	8,904.6	-434.5	-620.6	726.7	0.00	0.00	0.00
9,100.0	15.00	235.00	9,001.2	-449.4	-641.8	751.6	0.00	0.00	0.00
9,200.0	15.00	235.00	9,097.8	-464.2	-663.0	776.4	0.00	0.00	0.00
9,300.0	15.00	235.00	9,194.4	-479.1	-684.2	801.2	0.00	0.00	0.00
9,400.0	15.00	235.00	9,290.9	-493.9	-705.4	826.0	0.00	0.00	0.00
9,500.0	15.00	235.00	9,387.5	-508.8	-726.6	850.9	0.00	0.00	0.00
9,600.0	15.00	235.00	9,484.1	-523.6	-747.8	875.7	0.00	0.00	0.00
9,700.0	15.00	235.00	9,580.7	-538.5	-769.0	900.5	0.00	0.00	0.00
9,800.0	15.00	235.00	9,677.3	-553.3	-790.2	925.4	0.00	0.00	0.00
9,900.0	15.00	235.00	9,773.9	-568.2	-811.4	950.2	0.00	0.00	0.00
10,000.0	15.00	235.00	9,870.5	-583.0	-832.6	975.0	0.00	0.00	0.00
10,100.0	15.00	235.00	9,967.1	-597.8	-853.8	999.8	0.00	0.00	0.00
10,200.0	15.00	235.00	10,063.7	-612.7	-875.0	1,024.7	0.00	0.00	0.00
10,300.0	15.00	235.00	10,160.3	-627.5	-896.2	1,049.5	0.00	0.00	0.00
10,350.0	15.00	235.00	10,208.6	-635.0	-906.8	1,061.9	0.00	0.00	0.00
10,400.0	14.00	235.00	10,257.0	-642.1	-917.1	1,073.9	2.00	-2.00	0.00
10,500.0	12.00	235.00	10,354.4	-655.0	-935.5	1,095.5	2.00	-2.00	0.00
10,600.0	10.00	235.00	10,452.6	-666.0	-951.1	1,113.8	2.00	-2.00	0.00
10,700.0	8.00	235.00	10,551.3	-675.0	-963.9	1,128.8	2.00	-2.00	0.00
10,800.0	6.00	235.00	10,650.6	-681.9	-973.9	1,140.5	2.00	-2.00	0.00



# Crescent Directional Drilling L.P.

## Planning Report



Whiting Petroleum Corporation

**Database:** EDM 2003.16 Single User Db  
**Company:** Whiting Petroleum  
**Project:** Uintah County, UT  
**Site:** UTE Tribal 8-25-14-19  
**Well:** UTE Tribal 8-25-14-19D  
**Wellbore:** Wellbore #1  
**Design:** Build/Hold/Drop

**Local Co-ordinate Reference:** Well UTE Tribal 8-25-14-19D  
**TVD Reference:** WELL @ 7220.0ft (Original Well Elev)  
**MD Reference:** WELL @ 7220.0ft (Original Well Elev)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature

### 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)
10,900.0	4.00	235.00	10,750.2	-686.9	-981.1	1,148.8	2.00	-2.00	0.00
11,000.0	2.00	235.00	10,850.1	-689.9	-985.3	1,153.9	2.00	-2.00	0.00
11,100.0	0.00	0.00	10,950.0	-690.9	-986.8	1,155.5	2.00	-2.00	0.00
11,172.0	1.44	10.00	11,022.0	-690.1	-986.6	1,155.1	2.00	2.00	0.00
<b>Dakota</b>									
11,200.0	2.00	10.00	11,050.0	-689.2	-986.5	1,154.7	2.00	2.00	0.00
11,300.0	4.00	10.00	11,149.9	-684.1	-985.6	1,152.2	2.00	2.00	0.00
11,397.5	5.95	10.00	11,247.0	-675.7	-984.1	1,148.2	2.00	2.00	0.00
<b>Cedar Mtn</b>									
11,400.0	6.00	10.00	11,249.5	-675.5	-984.0	1,148.0	2.00	2.00	0.00
11,500.0	8.00	10.00	11,348.7	-663.5	-981.9	1,142.2	2.00	2.00	0.00
11,574.1	9.48	10.00	11,422.0	-652.4	-980.0	1,136.8	2.00	2.00	0.00
<b>Morrison</b>									
11,600.0	10.00	10.00	11,447.5	-648.1	-979.2	1,134.7	2.00	2.00	0.00
11,700.0	12.00	10.00	11,545.7	-629.3	-975.9	1,125.6	2.00	2.00	0.00
11,800.0	14.00	10.00	11,643.1	-607.1	-972.0	1,114.8	2.00	2.00	0.00
11,900.0	16.00	10.00	11,739.7	-581.7	-967.5	1,102.4	2.00	2.00	0.00
12,000.0	18.00	10.00	11,835.3	-552.9	-962.4	1,088.4	2.00	2.00	0.00
12,100.0	20.00	10.00	11,929.9	-520.8	-956.8	1,072.9	2.00	2.00	0.00
12,138.6	20.77	10.00	11,966.0	-507.6	-954.4	1,066.4	2.00	2.00	0.00
<b>Curtis</b>									
12,200.0	22.00	10.00	12,023.2	-485.5	-950.5	1,055.7	2.00	2.00	0.00
12,259.4	23.19	10.00	12,078.0	-463.1	-946.6	1,044.8	2.00	2.00	0.00
<b>Entrada</b>									
12,300.0	24.00	10.00	12,115.2	-447.0	-943.8	1,037.0	2.00	2.00	0.00
12,400.0	26.00	10.00	12,205.9	-405.4	-936.4	1,016.8	2.00	2.00	0.00
12,500.0	28.00	10.00	12,295.0	-360.7	-928.5	995.1	2.00	2.00	0.00
12,607.6	30.15	10.00	12,389.0	-309.2	-919.5	970.1	2.00	2.00	0.00

### Targets

#### Target Name

- hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (m)	Easting (m)	Latitude	Longitude
UTE 9-25-14-19 Build - plan misses by 15.9ft at 12474.9ft MD (12272.8 TVD, -372.2 N, -930.6 E) - Circle (radius 200.0)	0.00	0.00	12,280.0	-386.0	-934.0	2,139,030.88	651,878.13	39° 34' 19.684 N	109° 43' 55.729 W
UTE 8-25-14-19 - plan misses by 15.9ft at 12474.9ft MD (12272.8 TVD, -372.2 N, -930.6 E) - Circle (radius 200.0)	0.00	0.00	12,280.0	-386.0	-934.0	2,139,030.88	651,878.13	39° 34' 19.684 N	109° 43' 55.729 W



# Crescent Directional Drilling L.P.

## Planning Report



**Database:** EDM 2003.16 Single User Db  
**Company:** Whiting Petroleum  
**Project:** Uintah County, UT  
**Site:** UTE Tribal 8-25-14-19  
**Well:** UTE Tribal 8-25-14-19D  
**Wellbore:** Wellbore #1  
**Design:** Build/Hold/Drop

**Local Co-ordinate Reference:** Well UTE Tribal 8-25-14-19D  
**TVD Reference:** WELL @ 7220.0ft (Original Well Elev)  
**MD Reference:** WELL @ 7220.0ft (Original Well Elev)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature

### Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
11,574.1	11,422.0	Morrison		0.00	
	12,389.0	Camel		0.00	
12,138.6	11,966.0	Curtis		0.00	
11,397.5	11,247.0	Cedar Mtn		0.00	
12,259.4	12,078.0	Entrada		0.00	
11,172.0	11,022.0	Dakota		0.00	

HALLIBURTON

**Whiting Oil & Gas Corp Ebusiness  
Do Not Mail - 1700 Broadway Ste2300  
Denver, Colorado 80290**

Ute Tribal 8-25-14-19D  
Flat Rock Field  
Uintah County, Utah  
United States of America  
S:25 T:14S R:19E

## **Multiple String Cement Recommendation**

Prepared for: Mr. Dana Greathouse  
November 10, 2008  
Version: 1

Submitted by:  
Matt Collins  
Halliburton  
1125 17th Street #1900  
Denver, Colorado 80202  
303.899.4702

HALLIBURTON

*Halliburton appreciates the opportunity to present this proposal and looks forward to being of service to you.*

## **Foreword**

---

Enclosed is our recommended procedure for cementing the casing strings in the referenced well. The information in this proposal includes well data, calculations, materials requirements, and cost estimates. This proposal is based on information from our field personnel and previous cementing services in the area.

Halliburton Energy Services recognizes the importance of meeting society's needs for health, safety, and protection of the environment. It is our intention to proactively work with employees, customers, the public, governments, and others to use natural resources in an environmentally sound manner while protecting the health, safety, and environmental processes while supplying high quality products and services to our customers.

We appreciate the opportunity to present this proposal for your consideration and we look forward to being of service to you. Our Services for your well will be coordinated through the Service Center listed below. If you require any additional information or additional designs, please feel free to contact myself or our field representative listed below.

Prepared by: \_\_\_\_\_  
Sally Hourigan  
Proposal Specialist

Submitted by: \_\_\_\_\_  
Matt Collins  
Technical Advisor

SERVICE CENTER:  
SERVICE COORDINATOR:  
PSL DISTRICT MANAGER:  
CEMENT ENGINEERS:

Vernal, UT  
Corey Reynolds  
David Poole  
Tyler Anderson  
Chris Cicirello  
Sean Jones  
Ted Groff  
Shawn Farote  
435-789-2550

PHONE NUMBER:

## Cementing Best Practices

1. **Cement quality and weight:** You must choose a cement slurry that is designed to solve the problems specific to each casing string.
2. **Waiting time:** You must hold the cement slurry in place and under pressure until it reaches its' initial set without disturbing it. A cement slurry is a time-dependent liquid and must be allowed to undergo a hydration reaction to produce a competent cement sheath. A fresh cement slurry can be worked (thickening or pump time) as long as it is in a plastic state and before going through its' transition phase. If the cement slurry is not allowed to transition without being disturbed, it may be subjected to changes in density, dilution, settling, water separation, and gas cutting that may lead to a lack of zonal isolation and possible bridging in the annulus.
3. **Pipe movement:** Pipe movement may be one of the single most influential factors in mud removal. Reciprocation and/or rotation mechanically breaks up gelled mud and changes the flow patterns in the annulus to improve displacement efficiency.
4. **Mud properties (for cementing):**  
**Rheology:**  
Plastic Viscosity (PV) < 15 centipoise (cp)  
Yield Point (YP) < 10 lb/100 ft<sup>2</sup>  
These properties should be reviewed with the Mud Engineer, Drilling Engineer, and Company Representative(s) to ensure no hole problems are created.  
**Gel Strength:**  
The 10-second/10-minute gel strength values should be such that the 10-second and 10-minute readings are close together or flat (i.e., 5/6). The 30-minute reading should be less than 20 lb/100 ft<sup>2</sup>. Sufficient shear stress may not be achieved on a primary cement job to remove mud left in the hole if the mud were to develop more than 25 lb/100 ft<sup>2</sup> of gel strength.  
**Fluid Loss:**  
Decreasing the filtrate loss into a permeable zone enhances the creation of a thin, competent filter cake. A thin, competent filter cake created by a low fluid loss mud system is desirable over a thick, partially gelled filter cake. A mud system created with a low fluid loss will be more easily displaced. The fluid loss value should be < 15 cc's (ideal would be 5 cc's).
5. **Circulation:** Prior to cementing circulate full hole volume twice, or until well conditioned mud is being returned to the surface. There should be no cutting in the mud returns. An annular velocity of 260 feet per minute is optimum (SPE/IADC 18617), if possible.
6. **Flow rate:** Turbulent flow is the most desirable flow regime for mud removal. If turbulence cannot be achieved pump at as high a flow rate that can practically and safely be used to create the maximum flow energy. The highest mud removal is achieved when the maximum flow energy is obtained.
7. **Pipe Centralization:** The Cement will take the path of least resistance, therefore proper centralization is important to help prevent the casing from contacting the borehole wall. A minimum standoff of 70% should be targeted for optimum displacement efficiency.
8. **Rat hole:** A weighted viscous pill placed in the rat hole prior to cementing will minimize the risk of higher density cement mixing with lower density mud when the well is static.
9. **Top and Bottom plugs:** A top and bottom plug are recommended to be run on all primary casing jobs. The bottom plug should be run after the spacer and ahead of the first cement slurry.
10. **Spacers and flushes:** Spacers and/or flushes should be used to prevent contamination between the cement slurry and the drilling fluid. They are also used to clean the wellbore and aid with bonding. To determine the volume, either a minimum of 10 minutes contact time or 1000 ft. of annular fill, whichever is greater, is recommended.

# HALLIBURTON

---

## *Job Information*

## *Surface Casing*

---

Well Name: Ute Tribal

Well #: 8-25-14-19D

14 3/4" Open Hole

0 - 500 ft (MD)

Inner Diameter

14.750 in

Job Excess

100 %

10 3/4" Surface Casing

0 - 500 ft (MD)

Outer Diameter

10.750 in

Inner Diameter

9.950 in

Linear Weight

40.500 lbm/ft

## Calculations

## Surface Casing

---

Spacer:

$$\begin{aligned} \text{Total Spacer} &= 112.29 \text{ ft}^3 \\ &= 20.00 \text{ bbl} \end{aligned}$$

Cement : (500.00 ft fill)

$$\begin{aligned} 500.00 \text{ ft} * 0.5563 \text{ ft}^3/\text{ft} * 100 \% &= 556.32 \text{ ft}^3 \\ \text{Lead Cement} &= 556.32 \text{ ft}^3 \\ &= 99.09 \text{ bbl} \end{aligned}$$

Shoe Joint Volume: (40.00 ft fill)

$$\begin{aligned} 40.00 \text{ ft} * 0.54 \text{ ft}^3/\text{ft} &= 21.60 \text{ ft}^3 \\ &= 3.85 \text{ bbl} \\ \text{Tail plus shoe joint} &= 577.92 \text{ ft}^3 \\ &= 102.93 \text{ bbl} \\ \text{Total Tail} &= 321 \text{ sks} \end{aligned}$$

Total Pipe Capacity:

$$\begin{aligned} 500.00 \text{ ft} * 0.54 \text{ ft}^3/\text{ft} &= 269.99 \text{ ft}^3 \\ &= 48.09 \text{ bbl} \end{aligned}$$

Displacement Volume to Shoe Joint:

$$\begin{aligned} \text{Capacity of Pipe - Shoe Joint} &= 48.09 \text{ bbl} - 3.85 \text{ bbl} \\ &= 44.24 \text{ bbl} \end{aligned}$$

## Job Recommendation

## Surface Casing

---

### Fluid Instructions

Fluid 1: Water Spacer  
Gel Water

Fluid Density: 8.340 lbm/gal  
Fluid Volume: 20 bbl

Fluid 2: Lead Cement  
Rockies LT

0.25 lbm/sk Kwik Seal (Lost Circulation Additive)  
0.125 lbm/sk Poly-E-Flake (Lost Circulation Additive)

Fluid Weight 13.500 lbm/gal  
Slurry Yield: 1.800 ft<sup>3</sup>/sk  
Total Mixing Fluid: 9.333 Gal/sk  
Top of Fluid: 0 ft  
Calculated Fill: 500 ft  
Volume: 102.932 bbl  
Calculated Sacks: 321.068 sks  
Proposed Sacks: 325 sks

Fluid 3: Water Spacer  
Water Displacement

Fluid Density: 8.340 lbm/gal  
Fluid Volume: 44.240 bbl

Fluid 4: Top Out Cement  
Premium Plus - Type III

94 lbm/sk Premium Plus - Type III (Cement-non-api)  
2 % Calcium Chloride (Accelerator)

Fluid Weight 14.500 lbm/gal  
Slurry Yield: 1.410 ft<sup>3</sup>/sk  
Total Mixing Fluid: 6.855 Gal/sk  
Proposed Sacks: 200 sks

**Detailed Pumping Schedule**

Fluid #	Fluid Type	Fluid Name	Surface Density lbm/gal	Estimated Avg Rate bbl/min	Downhole Volume
1	Spacer	Gel Water	8.3		20 bbl
2	Cement	Primary Cement	13.5		325 sks
3	Spacer	Water Displacement	8.3		44.240 bbl
4	Cement	Top Out Cement	14.5		200 sks

## Job Information

## Intermediate Casing

---

Well Name: Ute Tribal

Well #: 8-25-14-19D

10 3/4" Surface Casing	0 - 500 ft (MD)
Outer Diameter	10.750 in
Inner Diameter	9.950 in
Linear Weight	40.500 lbm/ft

9 1/2" Open Hole	500 - 5000 ft (MD)
Inner Diameter	9.500 in
Job Excess	75 %

7 5/8" Intermediate Casing	0 - 5000 ft (MD)
Outer Diameter	7.625 in
Inner Diameter	6.875 in
Linear Weight	26.400 lbm/ft

Mud Weight	8.400 lbm/gal
BHCT	95 degF

## Calculations

## Intermediate Casing

---

Spacer:

$$\begin{aligned} \text{Total Spacer} &= 112.29 \text{ ft}^3 \\ &= 20.00 \text{ bbl} \end{aligned}$$

Spacer:

$$\begin{aligned} \text{Total Spacer} &= 224.58 \text{ ft}^3 \\ &= 40.00 \text{ bbl} \end{aligned}$$

Spacer:

$$\begin{aligned} \text{Total Spacer} &= 112.29 \text{ ft}^3 \\ &= 20.00 \text{ bbl} \end{aligned}$$

Cement : (4500.00 ft fill)

$$\begin{aligned} 500.00 \text{ ft} * 0.2229 \text{ ft}^3/\text{ft} * 0 \% &= 111.43 \text{ ft}^3 \\ 4000.00 \text{ ft} * 0.1751 \text{ ft}^3/\text{ft} * 75 \% &= 1225.91 \text{ ft}^3 \\ \text{Total Lead Cement} &= 1337.34 \text{ ft}^3 \\ &= 238.19 \text{ bbl} \\ \text{Sacks of Cement} &= 330 \text{ sks} \end{aligned}$$

Cement : (500.00 ft fill)

$$\begin{aligned} 500.00 \text{ ft} * 0.1751 \text{ ft}^3/\text{ft} * 75 \% &= 153.24 \text{ ft}^3 \\ \text{Tail Cement} &= 153.24 \text{ ft}^3 \\ &= 27.29 \text{ bbl} \end{aligned}$$

Shoe Joint Volume: (40.00 ft fill)

$$\begin{aligned} 40.00 \text{ ft} * 0.2578 \text{ ft}^3/\text{ft} &= 10.31 \text{ ft}^3 \\ &= 1.84 \text{ bbl} \\ \text{Tail plus shoe joint} &= 163.55 \text{ ft}^3 \\ &= 29.13 \text{ bbl} \\ \text{Total Tail} &= 142 \text{ sks} \end{aligned}$$

Total Pipe Capacity:

$$\begin{aligned} 5000.00 \text{ ft} * 0.2578 \text{ ft}^3/\text{ft} &= 1288.97 \text{ ft}^3 \\ &= 229.57 \text{ bbl} \end{aligned}$$

Displacement Volume to Shoe Joint:

$$\begin{aligned} \text{Capacity of Pipe - Shoe Joint} &= 229.57 \text{ bbl} - 1.84 \text{ bbl} \\ &= 227.74 \text{ bbl} \end{aligned}$$

## Job Recommendation

## Intermediate Casing

---

### Fluid Instructions

Fluid 1: Water Spacer  
Fresh Water

Fluid Density: 8.340 lbm/gal  
Fluid Volume: 20 bbl

Fluid 2: Reactive Spacer  
Super Flush

68 lbm/bbl Halliburton Super Flush (Accelerator)

Fluid Density: 9.200 lbm/gal  
Fluid Volume: 40 bbl

Fluid 3: Water Spacer  
Fresh Water

Fluid Density: 8.340 lbm/gal  
Fluid Volume: 20 bbl

Fluid 4: Lead Cement

TUNED LIGHT RS1 SYSTEM

0.125 lbm/sk Poly-E-Flake (Lost Circulation Additive)

Fluid Weight 10.800 lbm/gal  
Slurry Yield: 4.052 ft<sup>3</sup>/sk  
Total Mixing Fluid: 25.004 Gal/sk  
Top of Fluid: 0 ft  
Calculated Fill: 4500 ft  
Volume: 238.190 bbl  
Calculated Sacks: 330.044 sks  
Proposed Sacks: 335 sks

Fluid 5: Tail Cement

Premium Cement

94 lbm/sk Premium Cement (Cement)

0.3 % Halad(R)-344 (Low Fluid Loss Control)

0.25 % CFR-3 (Dispersant)

0.35 % HR-5 (Retarder)

0.2 % Super CBL (Gas Migration Control)

Fluid Weight 15.800 lbm/gal  
Slurry Yield: 1.152 ft<sup>3</sup>/sk  
Total Mixing Fluid: 4.944 Gal/sk  
Top of Fluid: 4500 ft  
Calculated Fill: 500 ft  
Volume: 29.129 bbl  
Calculated Sacks: 141.970 sks  
Proposed Sacks: 145 sks

Fluid 6: Mud

Mud Displacement

Fluid Density: 10 lbm/gal  
Fluid Volume: 227.738 bbl

**Detailed Pumping Schedule**

Fluid #	Fluid Type	Fluid Name	Surface Density lbm/gal	Estimated Avg Rate bbl/min	Downhole Volume
1	Spacer	Fresh Water	8.3		20 bbl
2	Spacer	Super Flush	9.2		40 bbl
3	Spacer	Fresh Water	8.3		20 bbl
4	Cement	Tuned Light RS1	10.8		335 sks
5	Cement	Premium Cement	15.8		145 sks
6	Mud	Mud Displacement	10.0		227.738 bbl

## *Job Information*

## *Production Casing*

---

Well Name: Ute Tribal

Well #: 8-25-14-19D

7 5/8" Intermediate Casing  
Outer Diameter  
Inner Diameter  
Linear Weight

0 - 5000 ft (MD)  
7.625 in  
6.875 in  
26.400 lbm/ft

6 1/2" Open Hole  
Inner Diameter  
Job Excess

5000 - 12441 ft (MD)  
6.125 in  
40 %

4 1/2" Production Casing  
Outer Diameter  
Inner Diameter  
Linear Weight

0 - 12441 ft (MD)  
4.500 in  
4.000 in  
11.600 lbm/ft

Mud Weight  
BHCT

9.500 lbm/gal  
180 degF

## Calculations

## Production Casing

---

Spacer:

$$\begin{aligned} 381.00 \text{ ft} * 0.1473 \text{ ft}^3/\text{ft} * 0 \% &= 56.14 \text{ ft}^3 \\ \text{Total Spacer} &= 56.15 \text{ ft}^3 \\ &= 10.00 \text{ bbl} \end{aligned}$$

Spacer:

$$\begin{aligned} 762.00 \text{ ft} * 0.1473 \text{ ft}^3/\text{ft} * 0 \% &= 112.28 \text{ ft}^3 \\ \text{Total Spacer} &= 112.29 \text{ ft}^3 \\ &= 20.00 \text{ bbl} \end{aligned}$$

Spacer:

$$\begin{aligned} 381.00 \text{ ft} * 0.1473 \text{ ft}^3/\text{ft} * 0 \% &= 56.14 \text{ ft}^3 \\ \text{Total Spacer} &= 56.15 \text{ ft}^3 \\ &= 10.00 \text{ bbl} \end{aligned}$$

Cement : (7941.00 ft fill)

$$\begin{aligned} 1000.00 \text{ ft} * 0.1473 \text{ ft}^3/\text{ft} * 0 \% &= 147.35 \text{ ft}^3 \\ 6941.00 \text{ ft} * 0.0942 \text{ ft}^3/\text{ft} * 40 \% &= 915.08 \text{ ft}^3 \\ \text{Total Foamed Lead Cement} &= 1062.43 \text{ ft}^3 \\ &= 189.23 \text{ bbl} \\ \text{Sacks of Cement} &= 527 \text{ sks} \end{aligned}$$

Cement : (500.00 ft fill)

$$\begin{aligned} 500.00 \text{ ft} * 0.0942 \text{ ft}^3/\text{ft} * 40 \% &= 65.92 \text{ ft}^3 \\ \text{Tail Cement} &= 65.92 \text{ ft}^3 \\ &= 11.74 \text{ bbl} \end{aligned}$$

Shoe Joint Volume: (40.00 ft fill)

$$\begin{aligned} 40.00 \text{ ft} * 0.0873 \text{ ft}^3/\text{ft} &= 3.49 \text{ ft}^3 \\ &= 0.62 \text{ bbl} \\ \text{Tail plus shoe joint} &= 69.41 \text{ ft}^3 \\ &= 12.36 \text{ bbl} \\ \text{Total Tail} &= 47 \text{ sks} \end{aligned}$$

Total Pipe Capacity:

$$\begin{aligned} 12441.00 \text{ ft} * 0.0873 \text{ ft}^3/\text{ft} &= 1085.68 \text{ ft}^3 \\ &= 193.37 \text{ bbl} \end{aligned}$$

Displacement Volume to Shoe Joint:

$$\begin{aligned} \text{Capacity of Pipe - Shoe Joint} &= 193.37 \text{ bbl} - 0.62 \text{ bbl} \\ &= 192.75 \text{ bbl} \end{aligned}$$

## Job Recommendation

## Production Casing

---

### Fluid Instructions

Fluid 1: Water Spacer  
Fresh Water

Fluid Density: 8.340 lbm/gal  
Fluid Volume: 10 bbl

Fluid 2: Reactive Spacer  
SUPER FLUSH

Fluid Density: 10 lbm/gal  
Fluid Volume: 20 bbl

Fluid 3: Water Spacer  
Fresh Water

Fluid Density: 8.340 lbm/gal  
Fluid Volume: 10 bbl

Fluid 4: Foamed Lead Cement  
ELASTISEAL SYSTEM  
1.5 % FDP-C760-04 (Foamer)

Fluid Weight 14.300 lbm/gal  
Slurry Yield: 1.470 ft<sup>3</sup>/sk  
Total Mixing Fluid: 6.408 Gal/sk  
Top of Fluid: 4000 ft  
Calculated Fill: 7941 ft  
Volume: 189.226 bbl  
Calculated Sacks: 526.601 sks  
Proposed Sacks: 530 sks

Fluid 5: Tail Cement  
ELASTISEAL SYSTEM

Fluid Weight 14.300 lbm/gal  
Slurry Yield: 1.469 ft<sup>3</sup>/sk  
Total Mixing Fluid: 6.400 Gal/sk  
Top of Fluid: 11941 ft  
Calculated Fill: 500 ft  
Volume: 12.362 bbl  
Calculated Sacks: 47.249 sks  
Proposed Sacks: 50 sks

Fluid 6: Water Spacer  
Displacement

Fluid Density: 8.340 lbm/gal  
Fluid Volume: 192.746 bbl

**Detailed Pumping Schedule**

Fluid #	Fluid Type	Fluid Name	Surface Density lbm/gal	Estimated Avg Rate bbl/min	Downhole Volume
1	Spacer	Fresh Water	8.3		10 bbl
2	Spacer	SUPER FLUSH	10.0		20 bbl
3	Spacer	Fresh Water	8.3		10 bbl
4	Cement	ELASTISEAL SYSTEM	14.3		530 sks
5	Cement	ELASTISEAL SYSTEM	14.3		50 sks
6	Spacer	Displacement	8.3		192.746 bbl

**Foam Output Parameter Summary:**

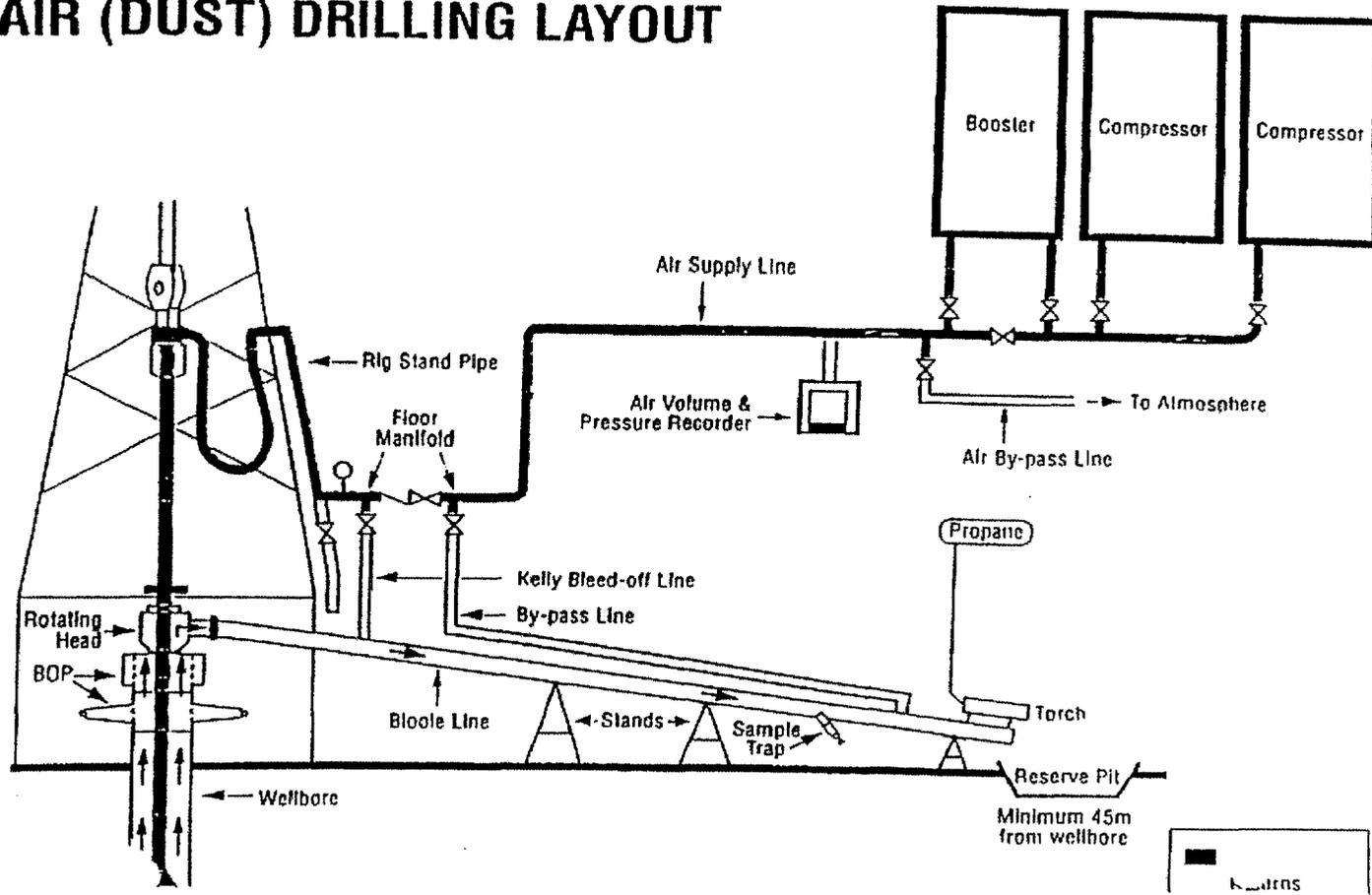
Fluid #	Fluid Name	Unfoamed Liquid Volume	Beginning Density lbm/gal	Ending Density lbm/gal	Beginning Rate scf/bbl	Ending Rate scf/bbl
<b>Stage 1</b>						
4	ELASTISEAL SYSTEM	137.87bb 1	11.0	11.0	223.1	675.1

**Foam Design Specifications:**

Foam Calculation Method: Constant Density  
 Backpressure: 75 psig  
 Bottom Hole Circulating Temp: 180 degF  
 Mud Outlet Temperature: 120 degF

Calculated Gas = 62670.7 scf  
 Additional Gas = 40000 scf  
 Total Gas = 102670.7 scf

# AIR (DUST) DRILLING LAYOUT



LAYOUT # 1

## Air Compressors



### Product Description

- 4 Stage Design
- High Volume, High Pressure
- Dust, Mist, Foam and aerated Mud Drilling
- Trailer Mounted
- Sufficient annular velocities for hole cleaning

### Product Specifications

Compressor	4 - Stage Reciprocating
Driver	Caterpillar D398TA V-12, Turbocharged Diesel Engine
Driver Rating	Rated 750 HP @ 900 RPM
Volume Output	1250 SCFM @ 1150 PSIG discharge w/ booster; 1200 SCFM @ 2100 PSIG discharge w/ booster
Cylinders	Cylinder 1: 21" bore Cylinder 2: 13 ½" bore Cylinder 3: 8 ¼" bore Cylinder 4: 4 ¾" bore
Compressor Dimensions / Weight	39' L x 13'11" H / Weight = 84,000 lbs.
Booster Dimensions / Weight	39' L x 10'W x 13'11" H / Weight = 84,000 lbs.±

Engineered Fluid Solutions Customized to Maximize Wellbore Value

# **Drilling Fluids Proposal (KCl / Polymer)**

**Whiting**

**1700 Broadway, Suite 2300  
Denver, CO 80209**

**Field: FLAT ROCK  
Geological Basin: UINTA-PICEANCE  
Well Name: Ute Tribal 8-25-14-19  
Well Location: S25 - T14S - R19E, UINTAH, UT  
Latitude: Longitude:  
API#: 43-047-39053-00**

**Prepared For: Dana Greathouse  
1/30/2009**

Submitted By: **Cooper Harrelson, Technical Professional  
303-899-4767  
cooper.harrelson@halliburton.com**

# HALLIBURTON

Whiting  
S25-T14S-R19E, UINTAH, UT

Ute Tribal 8-25-14-19  
API# 43-047-39053-00

---

## **BAROID UINTA-PICEANCE OPERATIONAL PERSONNEL**

Operations Leader: John Khoury - Vernal, UT 435-789-1668

## **BAROID WAREHOUSE PERSONNEL**

Vernal Warehouse Warehouse Phone No.: (435) 789-1668

Warehouse Supervisor: Mr. Tom Karren - Cell Phone (435) 828-1501

**SUMMARY**

The following drilling fluid systems are proposed for the Ute Tribal 8-25-14-19 well.

HOLE SIZE (in.)	DRILLING FLUID SYSTEM	FLUID DENSITY (ppg)	INTERVAL LENGTH (FROM - TO)
17 1/2	Air	N/A	0' - 500'
12 1/8	Spud Mud	8.4 - 8.6	500' - 5000'
8 3/4	3% KCl / Polymer	8.6 - 9.5	5000' - 12205'
6 1/8	Aerated 3% KCl / Polymer	7.0-7.3	12205' - 12448'

**17 1/2" Hole Section(0' to 500')**

Drilling Depth (ft)	Fluid Density (lb/gal)
0' - 500'	N/A
13 3/8" 48 #	

Air drill the 17 1/2 surface hole to approximately 500' TMD.

If hole problems occur and a fluid is necessary:

Use a fresh water with AQUAGEL sweeps for drilling surface, circulating the reserve pit. Mix EZ MUD down the drill pipe for shale inhibition, bit ball reduction and solids removal allowing for maximum well bore stability and drilling performance. When total depth (TD) is reached a string of 13 3/8" casing will then be set and cemented back to surface.

**12 1/8" Hole Section(500' to 5000')**

Drilling Depth (ft)	Fluid Density (lb/gal)	Funnel Viscosity (sec/qt)	API Filtrate (ml)	pH	PV (cP)	YP (lbs / 100ft <sup>2</sup> )	Solids (% by Vol)
500' - 5000'	8.4 - 8.6	28 - 38	N/C	7.0 - 8.5	0 - 15	0 - 10	< 3
9 5/8" 36 #							

- Mix 12.0-ppb AQUAGEL (as needed) for viscosity.
- Mix 1-2 gallons of EZ MUD down the drill pipe every 3-4 connections for additional shale stability.
- Sawdust / BAROSEAL / BARACARB (sized) as needed for losses

For drilling the 12 1/8" intermediate hole to approximately 5000' TMD use a AQUAGEL spud mud circulating the reserve pit. Rubble, unconsolidated formations, deviation, water flows and lost circulation have been problems in this interval on off-set wells in this area. There are large accumulations of native bentonite clays, coals and sands in this section of the well. Regularly run EZ-MUD sweeps to ensure well bore cleaning and to maximize drilling performance. Expect minor to severe lost circulation in this interval. Pump sweeps of saw dust/ BARACARB at 5-10 ppb for minor seepage and sweeps of N-SEAL 5 ppb and saw dust at 10 ppb for more severe losses. When total depth (TD) is reached make a wiper trip to the shoe to "clean up" the well bore, a string of 9 5/8" casing will then be set and cemented back to surface.

*The above recommendations are statements of opinion only, and are made without any warranty of any kind as to performance and without assumption of any liability by Baroid Drilling Fluids, or its agents.*

## 8 3/4" Hole Section(5000' to 12205')

Drilling Depth (ft)	Fluid Density (lb/gal)	Funnel Viscosity (sec/qt)	API Filtrate (ml)	pH	PV (cP)	YP (lbs / 100ft <sup>2</sup> )	Solids (% by Vol)
5000' - 12205'	8.6 - 9.5	35 - 45	> 8	8.0 - 9.0	5 - 10	5 - 15	> 4
7" 29 #							

- EZ-MUD 1 ppb excess
- KCl - as needed for 3%
- PAC-R 1 - 1.5 ppb
- BARAZAN D as required for rheology
- Sawdust / BAROSEAL / BARACARB (sized) as needed for losses

Drill out surface casing, mud up KCl system to a viscosity of 34 - 36 sec with BARAZAN D and PAC-R. Yield point should be 10 - 12. (If additional viscosity is necessary during mud up use prehydrated AGUAGEL < 2ppb)

Maintain pH between 8.0 - 9.0 (neutral as possible) to minimize reaction of pH sensitive clays.

Maintain Fluid Loss below 8 cc/30min with PAC-R.

For losses use sized BARACARB(acid soluble) in the this section to protect formation. If severe losses persist use higher concentrations of sized BARACARB and N-SEAL along with Mica until losses are controlled.

The Mancos, Mancos B, Dakota Silt, Dakota, Cedar Mountain, Morrison, Curtis, Entrada, Carmel, Wingate and Chinle formations will be drilled in this interval. Increasing formation pressure may encountered in the area. Expect mud weights up to 9.5 ppg at TD however 10 - 11 ppg are possible.

Adjust the drilling fluid weight to control gas pressures and water flows. Expect gas kicks and possible water flows in this interval. Increases in fluid density will result in increased lost circulation. Maintain good API filtration and fluid rheological properties. Follow product additions and concentrations as specified in this fluid program.

For torque and drag issues use NXS-LUBE .25 - .5 bbl/bbl

For mud-up and fluid property maintenance mix the following products listed in order of addition:

- 1.) Freshwater-1.0-bbl
- 2.) BARAZAN -2 - 4-ppb
- 3.) PAC-R-1.5-ppb
- 4.) KCL-10.0 - 12.0 (as needed for 3%) ppb
- 5.) BAROID-as needed for fluid density

**6 1/8" Hole Section(12205' to 12448')**

Drilling Depth (ft)	Fluid Density (lb/gal)	Funnel Viscosity (sec/qt)	API Filtrate (ml)	pH	PV (cP)	YP (lbs / 100ft <sup>2</sup> )	Solids (% by Vol)
12205' - 12448'	7.0-7.3	35 - 45	> 8	8.0 - 9.0	5 - 10	5 - 15	> 4
Open Hole							

It is very critical to drill this interval slightly underbalanced or at the formation pressure to minimize damage. The pressure gradient is expected to be 0.375 psi/ft. This gradient translates to an equivalent mud weight of 7.2 ppg. To achieve this low density fluid, an aerated KCl Polymer fluid will be utilized. This fluid will be engineered in the same fashion as the previous interval.

Since an air injection unit will be utilized, closely monitor wellbore conditions for possible signs of an influx. To be prepared, keep sufficient quantities of barite on location.

Treat Calcium contamination with Bicarbonate as needed.

Since Whiting will have an investment made into this mud system, it is desirable to reuse this fluid from well to well. Upon reaching TD, shake out any LCM and clean up the fluid as much as possible prior to storage. A light treatment of biocide, such as ALDACIDE G, may also be warranted to prevent degradation.

## Geological Strata

Formation(s)	Vertical Depth (ft)
Green River	0
Wasatch	2,340
MESAVERDE	5,016
CASTLEGATE SAND	6,873
MANCOS SHALE	7,145
DAKOTA SANDSTONE	11,022
CEDAR MOUNTAIN	11,241
MORRISON	11,422
CURTIS	11,966
ENTRADA	12,078
CARMEL	12,439
<b>Total Depth</b>	<b>12,448' TVD</b>

**SUMMARY ESTIMATED PRODUCTION USAGE**

<b>PRODUCT</b>	<b>Container Size</b>	<b>Number of Containers</b>	<b>Total Volume</b>
BARO-TROL	50		55 Sacks
POTASSIUM CHLORIDE	50		1500 Sacks
BAROID 41	100		500 Sacks
BARAZAN D	25		150 Sacks
ALDACIDE G	5		20 CAN
EZ-MUD	5		150 CAN
X-CIDE 207	5		10 CAN
AQUAGEL	100		230 Sacks
PAC-R	50		125 Sacks
BARO-SEAL CLASSIC	50		250 Sacks
SAW DUST	20		300 Sacks

- **Estimated drilling fluid cost is \$165000 dependant on lost circulation and drilling fluid density. This estimated cost includes transportation of all materials to and from the well location and Vernal**
- **Estimated drilling time is 35 days**



February 9, 2009

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

RE: Casing and Drill Angle Adjustment  
Ute Tribal #8-25-14-19 (Directional)  
API#43-047-39053  
SWNW Section 30-T14S-R20E (Surface Location)  
SENE Section 25-T14S-R19E (Proposed Producing Zones)  
Uintah County, Utah

Dear Ms. Mason:

Enclosed please find the following items for the request to adjust the casing configuration and the angle of the well-bore:

Form 9  
Revised Drilling Plan  
Revised Directional Plan  
Cementing Outline Detail  
Drilling Fluids Outline  
Air Drilling Layout Diagram and Compressor Equipment Detail

We adjusted the casing to allow for a partial open hole completion in the Entrada Zone and adjusted the well-bore angle to intercept natural fractures in that target zone. Please do not hesitate to call me at (303) 390-4095 if you have any questions or need additional information.

Sincerely,

Scott M. Webb  
Regulatory Coordinator  
Whiting Oil and Gas Corporation

RECEIVED  
FEB 10 2009  
DIV. OF OIL, GAS & MINING

*Whiting Petroleum Corporation*  
and its wholly owned subsidiary  
*Whiting Oil and Gas Corporation*



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

May 14, 2009

Whiting Oil & Gas Corporation  
1700 Broadway, Suite 2300  
Denver, CO 80290-2300

Re: APD Rescinded – Ute Tribal <sup>8</sup> 7-25-14-19, Sec.30, T.14S, R.20E  
Uintah County, Utah API No. 43-047-39053

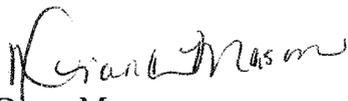
Ladies and Gentlemen:

The Application for Permit to Drill (APD) for the subject well was approved by the Division of Oil, Gas and Mining (Division) on March 5, 2007. On February 25, 2008, the Division granted a one-year APD extension. No drilling activity at this location has been reported to the division. Therefore, approval to drill the well is hereby rescinded, effective May 14, 2009.

A new APD must be filed with this office for approval prior to the commencement of any future work on the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division immediately.

Sincerely,

  
Diana Mason  
Environmental Scientist

cc: Well File  
Bureau of Land Management, Vernal



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 20G0005581
---	---

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> UTE  <b>7. UNIT or CA AGREEMENT NAME:</b>
--	---

<b>1. TYPE OF WELL</b> Gas Well	<b>8. WELL NAME and NUMBER:</b> UTE TRIBAL 8-25-14-19
------------------------------------	--

<b>2. NAME OF OPERATOR:</b> WHITING OIL & GAS CORPORATION	<b>9. API NUMBER:</b> 43047390530000
--	---

<b>3. ADDRESS OF OPERATOR:</b> 1700 Broadway, Suite 2300 , Denver, CO, 80290 2300	<b>PHONE NUMBER:</b> 303 390-4095 Ext
--	--

<b>4. LOCATION OF WELL FOOTAGES AT SURFACE:</b> 1594 FNL 0274 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNW Section: 30 Township: 14.0S Range: 20.0E Meridian: S	<b>9. FIELD and POOL or WILDCAT:</b> FLAT ROCK  <b>COUNTY:</b> UINTAH  <b>STATE:</b> UTAH
---	--

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input checked="" type="checkbox"/> <b>SPUD REPORT</b> Date of Spud: 6/1/2008	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: _____

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

This well was acquired from Miller Dyer in June of 2008. Miller Dyer had spudded this well sometime before then with a 20" conductor driven to 80' and a 10-3/4" steel surface casing string set to 500' cemented to the surface.

Accepted by the  
 Utah Division of  
 Oil, Gas and Mining  
**FOR RECORD ONLY**  
 July 30, 2009

<b>NAME (PLEASE PRINT)</b> Terri Hartle	<b>PHONE NUMBER</b> 435 896-5501	<b>TITLE</b> Admin/Regulatory (Western Land Services)
<b>SIGNATURE</b> N/A		<b>DATE</b> 7/29/2009

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 20G0005581
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> UTE  <b>7. UNIT or CA AGREEMENT NAME:</b>
<b>1. TYPE OF WELL</b> Gas Well	<b>8. WELL NAME and NUMBER:</b> UTE TRIBAL 8-25-14-19
<b>2. NAME OF OPERATOR:</b> WHITING OIL & GAS CORPORATION	<b>9. API NUMBER:</b> 43047390530000
<b>3. ADDRESS OF OPERATOR:</b> 1700 Broadway, Suite 2300 , Denver, CO, 80290 2300	<b>PHONE NUMBER:</b> 303 390-4095 Ext
<b>4. LOCATION OF WELL FOOTAGES AT SURFACE:</b> 1594 FNL 0274 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNW Section: 30 Township: 14.0S Range: 20.0E Meridian: S	<b>9. FIELD and POOL or WILDCAT:</b> FLAT ROCK  <b>COUNTY:</b> UINTAH  <b>STATE:</b> UTAH

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

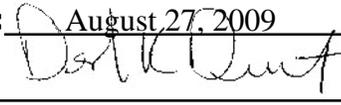
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 9/1/2009	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input checked="" type="checkbox"/> <b>PLUG AND ABANDON</b>	<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.**

Whiting Oil and Gas Corporation is requesting to plug and abandon the Ute Tribal 8-25-14-19 well. The location was constructed and the well was spudded on 10/30/08. Conductor was set to 80' and the well was air drilled to 500' with a 14-3/4" bit and had 500' of 10-3/4" 40.5#, J-55, STC casing set at 500'. The casing was cemented with 325sx (556 cuft) of Rockies LT cement. Weight was 13.5 ppg and yeild was 1.80 cj/sx, 100% excess, criculated to surf. No completion work was done. PA procedure: 1. MIRU prep well to be plugged. 2. TIH with tubing and circulate casing string clean. 3. cementers and pump 560sx, 12.4ppg, 1.83 cf/sx (10% excess) Class G cement. 4. Circulate cement to surface. 5. Cut off conductor 3' below grade. 6. Cut off 10-3/4" surface string 3' below grade weld on steel cap and back-fill cellar. 7. Clean up pad.

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

**Date:** August 27, 2009

**By:** 

<b>NAME (PLEASE PRINT)</b> Terri Hartle	<b>PHONE NUMBER</b> 435 896-5501	<b>TITLE</b> Admin/Regulatory (Western Land Services)
<b>SIGNATURE</b> N/A		<b>DATE</b> 8/27/2009

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 20G0005581
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> UTE  <b>7. UNIT or CA AGREEMENT NAME:</b>
<b>1. TYPE OF WELL</b> Gas Well	<b>8. WELL NAME and NUMBER:</b> UTE TRIBAL 8-25-14-19
<b>2. NAME OF OPERATOR:</b> WHITING OIL & GAS CORPORATION	<b>9. API NUMBER:</b> 43047390530000
<b>3. ADDRESS OF OPERATOR:</b> 1700 Broadway, Suite 2300 , Denver, CO, 80290 2300	<b>PHONE NUMBER:</b> 303 390-4095 Ext
<b>4. LOCATION OF WELL FOOTAGES AT SURFACE:</b> 1594 FNL 0274 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNW Section: 30 Township: 14.0S Range: 20.0E Meridian: S	<b>9. FIELD and POOL or WILDCAT:</b> FLAT ROCK  <b>COUNTY:</b> UINTAH  <b>STATE:</b> UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion: 12/3/2009	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input checked="" type="checkbox"/> <b>PLUG AND ABANDON</b>	<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.**

Whiting Oil and Gas Corporation is reporting the plugging and abandonment of this well. The plugging Company was Superior Well Services, Inc. PO Box 1094, Vernal, UT 84078 (435) 781-0266 and the well was plugged as follows:

1. Rig up Superior Well Services, 2. Dig out cellar and cellar ring, 3. Run 500' of fast line 1" in 10 3/4" casing, 4. Pump 27 bbl of Class "G" cement 15.02 ppg Yield 1.17 cuft/sk Water to mix 4.97gps/230sks, 5. Lay cement plug f/500' back to surface and returned 1 bbl of cement to surface, 6. Remove well head & cap well with a dry hole well cap, 7. Back filled, leveled and cleaned up location. This plugging was witnessed by Stoney Anderton, Petroleum Engineer Tech, BLM Vernal Field Office (435-781-4487) (stoney\_anderton@blm.gov) Contact for Whiting Oil and Gas is Archie Fuller Rig# 303-353-5382 or Cell# 307-262-3692.

Accepted by the  
 Utah Division of  
 Oil, Gas and Mining  
**FOR RECORD ONLY**  
 December 08, 2009

<b>NAME (PLEASE PRINT)</b> Terri Hartle	<b>PHONE NUMBER</b> 435 896-5501	<b>TITLE</b> Admin/Regulatory (Western Land Services)
<b>SIGNATURE</b> N/A	<b>DATE</b> 12/4/2009	

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 20G0005581
---	---

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> UTE  <b>7. UNIT or CA AGREEMENT NAME:</b>
--	---

<b>1. TYPE OF WELL</b> Gas Well	<b>8. WELL NAME and NUMBER:</b> UTE TRIBAL 8-25-14-19
------------------------------------	--

<b>2. NAME OF OPERATOR:</b> WHITING OIL & GAS CORPORATION	<b>9. API NUMBER:</b> 43047390530000
--	---

<b>3. ADDRESS OF OPERATOR:</b> 1700 Broadway, Suite 2300 , Denver, CO, 80290 2300	<b>PHONE NUMBER:</b> 303 390-4095 Ext	<b>9. FIELD and POOL or WILDCAT:</b> FLAT ROCK
--	--	---

<b>4. LOCATION OF WELL FOOTAGES AT SURFACE:</b> 1594 FNL 0274 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNW Section: 30 Township: 14.0S Range: 20.0E Meridian: S	<b>COUNTY:</b> UINTAH  <b>STATE:</b> UTAH
---	---

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 12/4/2009  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: _____

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

Whiting Oil and Gas Corporation would like to make notification that the well pad will not be reclaimed at this time. Whiting wishes to utilize the pad location to drill a re-permitted Ute Tribal 1-25-14-19 and other subsequent directional wells.

Accepted by the  
 Utah Division of  
 Oil, Gas and Mining  
**FOR RECORD ONLY**  
 December 15, 2009

<b>NAME (PLEASE PRINT)</b> Terri Hartle	<b>PHONE NUMBER</b> 435 896-5501	<b>TITLE</b> Admin/Regulatory (Western Land Services)
<b>SIGNATURE</b> N/A		<b>DATE</b> 12/4/2009

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

JUL 21 2015

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

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or re-enter an abandoned well. Use Form 3160-3 (AND) for such proposals.*

5. Lease Serial No.  
See attached exhibit

6. If Indian, Allottee or Tribe Name

**SUBMIT IN TRIPLICATE** - Other Instructions on page 2.

1. Type of Well  
 Oil Well     Gas Well     Other See attached exhibit

7. If Unit of CA/Agreement, Name and/or No.  
See attached exhibit

8. Well Name and No.  
See attached exhibit

2. Name of Operator  
COBRA OIL & GAS CORPORATION

9. API Well No.  
See attached exhibit

3a. Address  
PO BOX 8206, WICHITA FALLS, TX 76307-8206

3b. Phone No. (include area code)  
(940) 716-5100

10. Field and Pool or Exploratory Area  
See attached exhibit

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
See attached exhibit

11. County or Parish, State  
See attached exhibit

**12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <b>CHANGE OF OPERATOR</b>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleation in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

Effective August 1, 2015, Whiting Oil & Gas Corporation resigned as Operator of the wells listed on the attached Exhibit, and Cobra Oil & Gas Corporation has been designated as successor Operator.

Cobra Oil & Gas Corporation  
PO Box 8206  
Witchita Falls, TX 76307-8206  
Phone: (940) 716-5100

Whiting Oil & Gas Corporation  
1700 Broadway, Suite 2300  
Denver, CO 80290  
Phone: (303) 837-1661

RECEIVED

AUG 03 2015

DIV. OF OIL, GAS & MINING

**COPY**

*Rick Ross*

Rick Ross, Senior Vice President - Operations

Bonds through U.S. Specialty Insurance Company  
BLM Nationwide Bond: B009425  
Utah State Bond: B009455

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

Robert W. Osborne

Title Vice President

Signature *Robert W. Osborne*

Date 7/14/15

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by *John P. Green* **ACTING**

Title Assistant Field Manager  
Lands & Mineral Resources Date **JUL 30 2015**

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office **VERNAL FIELD OFFICE**

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

(Instructions on page 2)

**UDOGM**

# Well Exhibit for BLM-Vernal (I)

<b>LEASE/UNIT</b>	<b>Lease #</b>	<b>Case #</b>	<b>API #</b>	<b>FIELD</b>	<b>COUNTY</b>	<b>STATE</b>	<b>RESERVOIR</b>	<b>LOCATION: SEC - TWP - RNG</b>
UTE TRIBAL 1-25-14-19	1420H625581	1420H625581	4304750654	FLAT ROCK	UINTAH	UT	ENTRADA	30-T14S-R20E
UTE TRIBAL 13-25-14-19	1420H625581	1420H625581	4304750689	FLAT ROCK	UINTAH	UT	ENTRADA	26-T14S-R19E
UTE TRIBAL 15-25-14-19	1420H625581	1420H625581	4304739052	FLAT ROCK	UINTAH	UT	ENTRADA	30-T14S-R20E
UTE TRIBAL 3-25-14-19	1420H625581	1420H625581	4304751030	FLAT ROCK	UINTAH	UT	ENTRADA	30-T14S-R20E
UTE TRIBAL 5-25-14-19	1420H625581	1420H625581	4304750690	FLAT ROCK	UINTAH	UT	ENTRADA	26-T14S-R19E
UTE TRIBAL 8-25-14-19	1420H625581	1420H625581	4304739053	FLAT ROCK	UINTAH	UT	N/A	30-T14S-R20E

Division of Oil, Gas and Mining

Operator Change/Name Change Worksheet-for State use only

Effective Date: 8/1/2015

<b>FORMER OPERATOR:</b>	<b>NEW OPERATOR:</b>
WHITING OIL & GAS CORPORATION N2680 1700 BROADWAY SUITE 2300 DENVER CO 80290	COBRA OIL & GAS CORPORATION N4270 PO BOX 8206 WICHITA FALS TX 76307-8206
CA Number(s):	Unit Name: None

**WELL INFORMATION:**

Well Name	Sec	TWN	RNG	API	Entity	Mineral	Surface	Type	Status
See Attached List									

**OPERATOR CHANGES DOCUMENTATION:**

1. Sundry or legal documentation was received from the **FORMER** operator on: 8/4/2015
2. Sundry or legal documentation was received from the **NEW** operator on: 8/4/2015
3. New operator Division of Corporations Business Number: 9442951-0143

**REVIEW:**

1. Surface Agreement Sundry from **NEW** operator on Fee Surface wells received on: N/A
2. Receipt of Acceptance of Drilling Procedures for APD on: N/A
3. Reports current for Production/Disposition & Sundries: 10/5/2015
4. OPS/SI/TA well(s) reviewed for full cost bonding: 10/2/2015
5. UIC5 on all disposal/injection/storage well(s) approved on: N/A
6. Surface Facility(s) included in operator change: Chimney Rock Compressor  
Flat Rock Compressor
7. Inspections of PA state/fee well sites complete on (only upon operators request): 10/15/2015

**NEW OPERATOR BOND VERIFICATION:**

1. Federal well(s) covered by Bond Number: B009425
2. Indian well(s) covered by Bond Number: B009425
3. State/fee well(s) covered by Bond Number(s): B009455  
B009568-FCB  
B009567-FCB  
B009566-FCB

**DATA ENTRY:**

1. Well(s) update in the **OGIS** on: 10/14/2015
2. Entity Number(s) updated in **OGIS** on: 10/14/2015
3. Unit(s) operator number update in **OGIS** on: N/A
4. Surface Facilities update in **OGIS** on: N/A
5. State/Fee well(s) attached to bond(s) in **RBDMS** on: 10/14/2015
6. Surface Facilities update in **RBDMS** on: 10/14/2015

**LEASE INTEREST OWNER NOTIFICATION:**

1. The **NEW** operator of the Fee (Mineral) wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: N/A

**COMMENTS:**

From: Whiting Oil Gas Corporation

To: Cobra Oil Gas Corporation

Effective: 8/1/2015

Well Name	Section	TWN	RNG	API Number	Entity	Mineral	Surface	Type	Status
UTE TRIBAL 32-5A	32	140S	200E	4304710577	12655	State	Indian	GW	P
UTE TRIBAL 30-3A	30	140S	200E	4304710913	12395	Federal	Indian	OW	P
UTE TRIBAL 29-1A	29	140S	200E	4304730981	8118	Federal	Indian	GW	P
UTE TRIBAL 32-2A	32	140S	200E	4304733333	12658	State	Indian	GW	P
UTE TRIBAL 32-6A	32	140S	200E	4304733337	12662	State	Indian	GW	P
CHIMNEY ROCK 32-13	32	130S	210E	4304733447	12985	State	State	GW	P
CHIMNEY ROCK 32-14	32	130S	210E	4304733448	12983	State	State	GW	P
UTE TRIBAL 32-8A	32	140S	200E	4304733557	13066	State	Indian	GW	P
UTE TRIBAL 32-12A	32	140S	200E	4304733558	13064	State	Indian	GW	P
UTE TRIBAL 30-6A	30	140S	200E	4304733596	13062	Federal	Indian	GW	P
UTE TRIBAL 29-5A	29	140S	200E	4304733617	13061	Federal	Indian	GW	P
UTE TRIBAL 32-7A	32	140S	200E	4304733618	13065	State	Indian	GW	P
UTE TRIBAL 32-9A	32	140S	200E	4304733619	13067	State	Indian	GW	P
UTE TRIBAL 32-10A	32	140S	200E	4304733620	13054	State	Indian	GW	P
UTE TRIBAL 32-16A	32	140S	200E	4304734098	13449	State	Indian	GW	P
UTE TRIBAL 29-6A	29	140S	200E	4304734102	13443	Federal	Indian	GW	P
UTE TRIBAL 29-7A	29	140S	200E	4304734103	13444	Federal	Indian	GW	P
UTE TRIBAL 10-2-15-20	2	150S	200E	4304735625	14167	State	Indian	GW	P
FLAT ROCK 13-29-14-20	29	140S	200E	4304736778	15065	Federal	Indian	GW	P
FLAT ROCK 3-29-14-20	29	140S	200E	4304736795	15099	Federal	Indian	GW	P
UTE TRIBAL 6-16-14-20	16	140S	200E	4304738506	16320	State	Indian	GW	P
UTE TRIBAL 15-25-14-19	30	140S	200E	4304739052	16169	Indian	Indian	GW	P
UTE TRIBAL 1-30-14-20	30	140S	200E	4304739665	16997	Federal	Indian	GW	P
UTE TRIBAL 3-30-14-20	30	140S	200E	4304739739	17526	Federal	Indian	GW	P
UTE TRIBAL 11-30-14-20	30	140S	200E	4304739740	17358	Federal	Indian	GW	P
UTE TRIBAL 5-32-14-20	32	140S	200E	4304739741	17406	State	Indian	GW	P
UTE TRIBAL 15-30-14-20	30	140S	200E	4304739942	17237	Federal	Indian	GW	P
UTE TRIBAL 1-25-14-19	30	140S	200E	4304750654	17454	Indian	Indian	GW	P
UTE TRIBAL 13-25-14-19	26	140S	190E	4304750689	17808	Indian	Indian	GW	P
UTE TRIBAL 5-25-14-19	26	140S	190E	4304750690	17760	Indian	Indian	GW	P
UTE TRIBAL 3-25-14-19	30	140S	200E	4304751030	17759	Indian	Indian	GW	P
CHIMNEY ROCK 32-11	32	130S	210E	4304733445	12984	State	State	GW	PA
UTE TRIBAL 32-11A	32	140S	200E	4304733621	13058	State	Indian	GW	PA
FLAT ROCK 13-32-14-20	32	140S	200E	4304736992	17354	State	Indian	D	PA
FLAT ROCK 14-32-14-20	32	140S	200E	4304736993	17355	State	Indian	D	PA
FLAT ROCK 15-32-14-20	32	140S	200E	4304736994	17356	State	Indian	D	PA
UTE TRIBAL 8-25-14-19	30	140S	200E	4304739053	17353	Indian	Indian	D	PA
UTE TRIBAL 30-5A	30	140S	200E	4304720502	12654	Federal	Indian	GW	S
UTE TRIBAL 30-2A	30	140S	200E	4304730641	8112	Federal	Indian	GW	S
UTE TRIBAL 32-1A	32	140S	200E	4304732758	12064	State	Indian	OW	S
UTE TRIBAL 29-2A	29	140S	200E	4304732945	8118	Federal	Indian	OW	S
UTE TRIBAL 32-3A	32	140S	200E	4304733334	12657	State	Indian	GW	S
UTE TRIBAL 32-4A	32	140S	200E	4304733335	12656	State	Indian	GW	S
UTE TRIBAL 28-1A	28	140S	200E	4304733595	13059	Federal	Indian	GW	S
UTE TRIBAL 29-4A	29	140S	200E	4304733616	13060	Federal	Indian	GW	S

**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:  
See attached exhibit

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:  
See attached exhibit

7. UNIT or CA AGREEMENT NAME:  
See attached exhibit

8. WELL NAME and NUMBER:  
See attached exhibit

9. API NUMBER:  
See attach

10. FIELD AND POOL, OR WILDCAT:  
See attached exhibit

1. TYPE OF WELL OIL WELL  GAS WELL  OTHER See attached exhibit

2. NAME OF OPERATOR:  
COBRA OIL & GAS CORPORATION N4270

3. ADDRESS OF OPERATOR: PO Box 8206 Wichita Falls TX 76307-8206 PHONE NUMBER: (940) 716-5100

4. LOCATION OF WELL  
FOOTAGES AT SURFACE: See attached exhibit COUNTY: Uintah  
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: 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 checked="" 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: <u>8/1/2015</u>	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

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

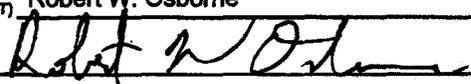
Effective August 1, 2015, Whiting Oil & Gas Corporation resigned as Operator of the wells listed on the attached Exhibit, and Cobra Oil & Gas Corporation has been designated as successor Operator.

Cobra Oil & Gas Corporation  
PO Box 8206  
Wichita Falls, TX 76307-8206  
Phone: (940) 716-5100

Whiting Oil & Gas Corporation N2680  
1700 Broadway, Suite 2300  
Denver, CO 80290  
Phone: (303) 837-1661

  
Rick Ross, Senior Vice President - Operations

Bonds through U.S. Specialty Insurance Company  
Utah State Bond: B009455  
BLM Nationwide Bond: B009425

NAME (PLEASE PRINT) Robert W. Osborne TITLE Vice President  
SIGNATURE  DATE 7/14/15

(This space for State use only)

**APPROVED**

(5/2000)

(See Instructions on Reverse Side)

OCT 14 2015

DIV. OIL GAS & MINING  
BY: Rachel Medina

# Well Exhibit for Utah DOGM

LEASE/UNIT	Lease #	Tribe Name	API #	FIELD	COUNTY	STATE	RESERVOIR	LOCATION: SEC - TWP - RNG
CHIMNEY ROCK 32-11	ML-47437		4304733445	SEEP RIDGE B	UINTAH	UT	DAKOTA	32-T13S-R21E
CHIMNEY ROCK 32-13	ML-47437		4304733447	SEEP RIDGE B	UINTAH	UT	DAKOTA-CEDAR MOUNTAIN	32-T13S-R21E
CHIMNEY ROCK 32-14	ML-47437		4304733448	SEEP RIDGE B	UINTAH	UT	DAKOTA-CEDAR MOUNTAIN	32-T13S-R21E
FLAT ROCK 13-29-14-20	UTU10166		4304736778	FLAT ROCK	UINTAH	UT	ENTRADA	29-T14S-R20E
FLAT ROCK 13-32-14-20	ML-44317		4304736992	FLAT ROCK	UINTAH	UT	WINGT	32-T14S-R20E
FLAT ROCK 14-32-14-20	ML-44317		4304736993	FLAT ROCK	UINTAH	UT	MESA VERDE	32-T14S-R20E
FLAT ROCK 15-32-14-20	ML-44317		4304736994	FLAT ROCK	UINTAH	UT	MESA VERDE	32-T14S-R20E
FLAT ROCK 30-3A	UTU019837		<del>4304730729</del>	FLAT ROCK	UINTAH	UT	N/A	30-T14S-R20E
FLAT ROCK 3-29-14-20	UTU10166		4304736795	FLAT ROCK	UINTAH	UT	ENTRADA	29-T14S-R20E
UTE TRIBAL 10-2-15-20	ML-46842		4304735625	FLAT ROCK	UINTAH	UT	WASATCH	2-T15S-R20E
UTE TRIBAL 11-30-14-20	UTU019837		4304739740	FLAT ROCK	UINTAH	UT	DAKOTA-BUCKHORN	30-T14S-R20E
UTE TRIBAL 1-25-14-19	1420H625581	Ute Tribe	4304750654	FLAT ROCK	UINTAH	UT	ENTRADA	30-T14S-R20E
UTE TRIBAL 1-30-14-20	UTU019837		4304739665	FLAT ROCK	UINTAH	UT	ENTRADA	30-T14S-R20E
UTE TRIBAL 13-25-14-19	1420H625581	Ute Tribe	4304750689	FLAT ROCK	UINTAH	UT	ENTRADA	26-T14S-R19E
UTE TRIBAL 15-25-14-19	1420H625581	Ute Tribe	4304739052	FLAT ROCK	UINTAH	UT	ENTRADA	30-T14S-R20E
UTE TRIBAL 15-30-14-20	UTU019837		4304739942	FLAT ROCK	UINTAH	UT	ENTRADA	30-T14S-R20E
UTE TRIBAL 28-1A	UTU10166		4304733595	FLAT ROCK	UINTAH	UT	DAKOTA	28-T14S-R20E
UTE TRIBAL 29-1A	UTU10166		4304730981	FLAT ROCK	UINTAH	UT	WASATCH	29-T14S-R20E
UTE TRIBAL 29-2A	UTU10166		4304732945	FLAT ROCK	UINTAH	UT	WASATCH	29-T14S-R20E
UTE TRIBAL 29-3A	UTU10166		4304732946	FLAT ROCK	UINTAH	UT	WASATCH	29-T14S-R20E
UTE TRIBAL 29-4A	UTU10166		4304733616	FLAT ROCK	UINTAH	UT	DAKOTA	29-T14S-R20E
UTE TRIBAL 29-5A	UTU10166		4304733617	FLAT ROCK	UINTAH	UT	CEDAR MOUNTAIN	29-T14S-R20E
UTE TRIBAL 29-6A	UTU10166		4304734102	FLAT ROCK	UINTAH	UT	CURTIS-ENTRADA	29-T14S-R20E
UTE TRIBAL 29-7A	UTU10166		4304734103	FLAT ROCK	UINTAH	UT	CURTIS-ENTRADA	29-T14S-R20E
UTE TRIBAL 30-1	UTU019837		<del>4304715764</del>	FLAT ROCK	UINTAH	UT	WASATCH	30-T14S-R20E
UTE TRIBAL 30-2A	UTU019837		4304730641	FLAT ROCK	UINTAH	UT	WASATCH	30-T14S-R20E
UTE TRIBAL 30-3A	UTU019837		4304710913	FLAT ROCK	UINTAH	UT	WASATCH	30-T14S-R20E
UTE TRIBAL 30-4A	UTU019837		4304716520	FLAT ROCK	UINTAH	UT	TW	30-T14S-R20E
UTE TRIBAL 30-5A	UTU019837		4304720502	FLAT ROCK	UINTAH	UT	WASATCH	30-T14S-R20E
UTE TRIBAL 30-6A	UTU019837		4304733596	FLAT ROCK	UINTAH	UT	DAKOTA	30-T14S-R20E
UTE TRIBAL 32-10A	ML-44317		<del>4304753620</del>	FLAT ROCK	UINTAH	UT	WASATCH	32-T14S-R20E
UTE TRIBAL 32-11A	ML-44317		4304733621	FLAT ROCK	UINTAH	UT	WASATCH	32-T14S-R20E
UTE TRIBAL 32-12A	ML-44317		4304733558	FLAT ROCK	UINTAH	UT	CEDAR MOUNTAIN	32-T14S-R20E
UTE TRIBAL 32-16A	ML-44317		4304734098	FLAT ROCK	UINTAH	UT	DAKOTA-CEDAR MOUNTAIN	32-T14S-R20E
UTE TRIBAL 32-1A	ML-44317		4304732758	FLAT ROCK	UINTAH	UT	WASATCH	32-T14S-R20E
UTE TRIBAL 32-2A	ML-44317		4304733333	FLAT ROCK	UINTAH	UT	WASATCH	32-T14S-R20E
UTE TRIBAL 32-3A	ML-44317		4304733334	FLAT ROCK	UINTAH	UT	WASATCH-MESAVERDE	32-T14S-R20E
UTE TRIBAL 32-4A	ML-44317		4304733335	FLAT ROCK	UINTAH	UT	WASATCH	32-T14S-R20E
UTE TRIBAL 3-25-14-19	1420H625581	Ute Tribe	4304751030	FLAT ROCK	UINTAH	UT	ENTRADA	30-T14S-R20E

# Well Exhibit for Utah DOGM

LEASE/UNIT	Lease #	Tribe Name	API #	FIELD	COUNTY	STATE	RESERVOIR	LOCATION: SEC - TWP - RNG
UTE TRIBAL 32-5A	ML-44317		4304710577	FLAT ROCK	UINTAH	UT	WASATCH	32-T14S-R20E
UTE TRIBAL 32-6A	ML-44317		4304733337	FLAT ROCK	UINTAH	UT	WASATCH	32-T14S-R20E
UTE TRIBAL 32-7A	ML-44317		4304733618	FLAT ROCK	UINTAH	UT	WASATCH	32-T14S-R20E
UTE TRIBAL 32-8A	ML-44317		4304733557	FLAT ROCK	UINTAH	UT	DAKOTA	32-T14S-R20E
UTE TRIBAL 32-9A	ML-44317		4304733619	FLAT ROCK	UINTAH	UT	DAKOTA-CEDAR MOUNTAIN	32-T14S-R20E
UTE TRIBAL 3-30-14-20	UTU019837		4304739739	FLAT ROCK	UINTAH	UT	ENTRADA	30-T14S-R20E
UTE TRIBAL 5-25-14-19	1420H625581	Ute Tribe	4304750690	FLAT ROCK	UINTAH	UT	ENTRADA	26-T14S-R19E
UTE TRIBAL 5-32-14-20	ML-44317		4304739741	FLAT ROCK	UINTAH	UT	DAKOTA ENTRADA	32-T14S-R20E
UTE TRIBAL 6-16-14-20	ML-47502		4304738506	FLAT ROCK	UINTAH	UT	ENTRADA	16-T14S-R20E
UTE TRIBAL 8-25-14-19	1420H625581	Ute Tribe	4304739053	FLAT ROCK	UINTAH	UT	N/A	30-T14S-R20E



RECEIVED

AUG 04 2015

DIV. OF OIL, GAS & MINING

July 16, 2015

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

Re: Change of Operator

Whiting Oil and Gas Corporation respectfully submits change of operator  
sundries for Flat Rock field in Uintah County, UT.

The new operator is  
Cobra Oil and Gas Corporation  
PO Box 8206  
Witchita Falls, TX 76307-8206  
Phone: (940) 716-5100

Regulatory Admin for Cobra:  
Barbara Pappas  
940-716-5103  
Barbara@cobraogc.com

Please contact Barbara Pappas or myself if you should have questions or need  
additional information.

Best Regards,

Cara Mezydlo,  
Engineering Technician III – Central Rockies Asset Group  
(303) 876-7091  
Cara.mezydlo@whiting.com

*Whiting Petroleum Corporation  
and its wholly owned subsidiary  
Whiting Oil and Gas Corporation*

1700 Broadway, Suite 2300, Denver, Colorado 80290-2300 Office: 303.837.1661 Fax: 303.861.4023



RECEIVED  
AUG 04 2015  
DIV. OF OIL, GAS & MINING

July 16, 2015

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

Re: Change of Operator

Whiting Oil and Gas Corporation respectfully submits change of operator  
sundries for Flat Rock field in Uintah County, UT.

The new operator is  
Cobra Oil and Gas Corporation  
PO Box 8206  
Witchita Falls, TX 76307-8206  
Phone: (940) 716-5100

Regulatory Admin for Cobra:  
Barbara Pappas  
940-716-5103  
Barbara@cobraogc.com

Please contact Barbara Pappas or myself if you should have questions or need  
additional information.

Best Regards,

Cara Mezydlo,  
Engineering Technician III – Central Rockies Asset Group  
(303) 876-7091  
Cara.mezydlo@whiting.com

*Whiting Petroleum Corporation  
and its wholly owned subsidiary  
Whiting Oil and Gas Corporation*



Rachel Medina &lt;rachelmedina@utah.gov&gt;

## Plugged Wells

8 messages

**Rachel Medina** <rachelmedina@utah.gov>  
To: Barbara Pappas <barbara@cobraogc.com>

Thu, Aug 6, 2015 at 11:05 AM

Hi Barbara,

The following Whiting wells are listed on the request for the Cobra operator change, but are currently plugged. Our Division does not usually move plugged well unless the new operator has plans to reenter the wells. Will this be the case for Cobra?

CHIMNEY ROCK 32-11	32	130S	210E	4304733445
UTE TRIBAL 32-11A	32	140S	200E	4304733621
FLAT ROCK 13-32-14-20	32	140S	200E	4304736992
FLAT ROCK 14-32-14-20	32	140S	200E	4304736993
FLAT ROCK 15-32-14-20	32	140S	200E	4304736994
UTE TRIBAL 8-25-14-19	30	140S	200E	4304739053

Also, the following wells were listed on the exhibit but are not currently operated by Whiting. They will not move in the operator change.

Flat Rock 30-3A 4304730729  
Ute Tribal 30-1 4304715764  
Ute Tribal 30-4A 4304716520

Thanks!

—  
Rachel Medina  
Division of Oil, Gas & Mining  
Bonding Technician  
801-538-5260

**Rachel Medina** <rachelmedina@utah.gov>  
To: Barbara Pappas <barbara@cobraogc.com>

Thu, Aug 6, 2015 at 2:36 PM

Hi Barbara,

Cobra is also taking over 3 State/Fee wells that have been shut in for over a year. Because of this our Petroleum Engineer is requesting a shut in plan and full cost bonding. For the shut in plan you will need to submit an outline and time frame of the plans for each well. To determine full cost bonding you will need to submit a plugging estimate, our engineer will evaluate the cost and set the bond for each well at the estimate or depth bonding (as outline in the rules), whichever is greater.

Please let me know if you have any questions.

Thanks!

[Quoted text hidden]

**Barbara Pappas** <barbara@cobraogc.com>  
To: Rachel Medina <rachelmedina@utah.gov>

Thu, Aug 6, 2015 at 3:10 PM

Rachel:

I have forwarded to my managers and hopefully will have an answer for you soon.

Thanks,

Barbara

**From:** Rachel Medina [mailto:rachelmedina@utah.gov]  
**Sent:** Thursday, August 06, 2015 3:37 PM  
**To:** Barbara Pappas <barbara@cobraogc.com>  
**Subject:** Re: Plugged Wells

[Quoted text hidden]

---

**Rachel Medina** <rachelmedina@utah.gov>  
To: Barbara Pappas <barbara@cobraogc.com>

Fri, Aug 14, 2015 at 8:58 AM

Hi Barbara,

The Division received confirmation that the plugged wells need to be moved to Cobra. At this point we are waiting for shut in plans and plugging estimates on the following wells.

UTE TRIBAL 32-1A  
UTE TRIBAL 32-3A  
UTE TRIBAL 32-4A

Thanks!

[Quoted text hidden]

---

**Charlie Gibson** <charlie@cobraogc.com>  
To: "rachelmedina@utah.gov" <rachelmedina@utah.gov>  
Cc: Rory Edwards <rory@cobraogc.com>, Bobby Hess <bhess@cobraogc.com>, Kyle Gardner <kgardner@cobraogc.com>, Barbara Pappas <barbara@cobraogc.com>

Wed, Aug 19, 2015 at 8:40 AM

Rachel,

We have studied the wells listed below and our estimate to plug the wells is \$20,000/well. We also believe that the wells still have economic potential and plan on working on the wells by 10-1-2015 to attempt to re-establish production. Let me know if you have any questions.

**Charlie Gibson**

Operations Manager

**Cobra Oil & Gas**

**(940)716-5100 (o)**

**(940)781-6260 (c)**

**From:** Rachel Medina [mailto:rachelmedina@utah.gov]  
**Sent:** Friday, August 14, 2015 9:59 AM  
**To:** Barbara Pappas <barbara@cobraogc.com>  
**Subject:** Re: Plugged Wells

Hi Barbara,

[Quoted text hidden]

[Quoted text hidden]

---

**Rachel Medina** <rachelmedina@utah.gov>  
To: Dustin Doucet <dustindoucet@utah.gov>

Wed, Aug 19, 2015 at 4:46 PM

What are you thoughts on the full cost bonding and the shut in plan?  
[Quoted text hidden]

---

**Dustin Doucet** <dustindoucet@utah.gov>  
To: Rachel Medina <rachelmedina@utah.gov>

Wed, Aug 19, 2015 at 6:16 PM

Without more supporting evidence of their P&A cost estimate, I don't feel comfortable with the estimate provided. It appears several plugs may need to be drilled out to properly isolate formations with open perfs with cement as required by rule. I doubt this was taken into consideration in their estimates. Since they are proposing to work the wells over by October 1, 2015, I would be willing to accept the \$30,000 depth bond per well to get these transferred and let them get the work done with the caveat that we will require more information on P&A costs and would require full cost bonds if found to be more than \$30K per well if the work is not done by October 1, 2015.

[Quoted text hidden]

—  
Dustin K. Doucet  
Petroleum Engineer  
Division of Oil, Gas and Mining  
1594 West North Temple, Ste 1210  
Salt Lake City, Utah 84116  
801.538.5281 (ofc)  
801.359.3940 (fax)

web: www.ogm.utah.gov

---

**Rachel Medina** <rachelmedina@utah.gov>  
To: Charlie Gibson <charlie@cobraogc.com>  
Cc: Rory Edwards <rory@cobraogc.com>, Bobby Hess <bhess@cobraogc.com>, Kyle Gardner <kgardner@cobraogc.com>, Barbara Pappas <barbara@cobraogc.com>

Thu, Aug 20, 2015 at 9:09 AM

Hi Charlie,

The following is our Petroleum Engineer's review;

-Ute Tribal 32-1A, Ute Tribal 32-3A and Ute Tribal 32-4A are each required to have a \$30,000.00 individual bond.  
-Cobra's plan to put the wells on production by October 1, 2015 is accepted, however a condition has been placed that if the wells are not producing by October 1st the Division **will require** a new P&A estimate be

submitted and reviewed for full cost bonding.

Please submit bonding for each well, if Cobra needs the new bonding forms again please let me know. As soon as the bond is received we can begin to process the operator change.

Thanks!

[Quoted text hidden]



Rachel Medina &lt;rachelmedina@utah.gov&gt;

## Utah Change of Operator from Whiting to Cobra

1 message

**Charlie Gibson** <charlie@cobraogc.com>

Thu, Aug 13, 2015 at 2:17 PM

To: "rachelmedina@utah.gov" <rachelmedina@utah.gov>

Cc: Jeff Dillard <jeff@cobraogc.com>, Bob Osborne <bob@cobraogc.com>, Stephen Howard <Showard@basinoilandgas.com>, Caven Crosnoe <ccrosnoe@scglaw.com>, Rory Edwards <rory@cobraogc.com>, Phil Rugeley <phil@cobraogc.com>, Rick Haskin <rick@cobraogc.com>, Barbara Pappas <barbara@cobraogc.com>

Dear Rachel,

We have been informed by Whiting Oil and Gas Corporation that you have requested an email from Cobra Oil & Gas Corporation acknowledging that we have agreed to assume all plugging, abandoning and reclamation obligations for the wells described below. In accordance with the terms and conditions of the Purchase and Sale Agreement (Agreement) between Whiting Oil and Gas Corporation (Seller) and Cobra Oil & Gas Corporation, et al (Buyer), please be advised the Buyer assumed the obligation to plug and abandon all wells located on the Lands and reclaim all well sites located on the Lands regardless of when the obligations arose. Accordingly Cobra Oil and Gas Corporation, as Operator, assumes those obligations and liabilities associated with the wells described below:

CHIMNEY ROCK 32-11 32130S 210E4304733445

UTE TRIBAL 32-11A 32140S 200E4304733621

FLAT ROCK 13-32-14-20 32140S 200E4304736992

FLAT ROCK 14-32-14-20 32140S 200E4304736993

FLAT ROCK 15- 32140S 200E4304736994  
32-14-20

UTE TRIBAL 8- 30140S 200E4304739053  
25-14-19

Flat Rock 30-3A 4304730729

Ute Tribal 30-1 4304715764

Ute Tribal 30-4A 4304716520

Sincerely,

**Charlie Gibson**

Operations Manager

**Cobra Oil & Gas**

**(940)716-5100 (o)**

**(940)781-6260 (c)**