

**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: UTU-76580	6. SURFACE: Federal
1A. TYPE OF WORK: DRILL <input checked="" type="checkbox"/> REENTER <input type="checkbox"/> DEEPEN <input type="checkbox"/>				7. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A	
8. TYPE OF WELL: OIL <input checked="" type="checkbox"/> GAS <input type="checkbox"/> OTHER _____ SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>				8. UNIT or CA AGREEMENT NAME: Threemile Unit UTU-84722X	
2. NAME OF OPERATOR: Whiting Oil and Gas Corporation, Attn. Scott Webb				9. WELL NAME and NUMBER: Threemile 12-14D	
3. ADDRESS OF OPERATOR: 1700 Broadway Ste 2300 CITY Denver STATE CO ZIP 80290			PHONE NUMBER: (303) 837-1661	10. FIELD AND POOL, OR WILDCAT: Wildcat	
4. LOCATION OF WELL (FOOTAGES)  AT SURFACE: 1,580' FNL & 1,900' FEL  AT PROPOSED PRODUCING ZONE: 1,580' FNL & 690' FWL				11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNE 14 29S 21E	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: approximately 17 miles SW of LaSal, Utah				12. COUNTY: San Juan	13. STATE: UTAH
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET) 3,300' FWL		16. NUMBER OF ACRES IN LEASE: 3760.61		17. NUMBER OF ACRES ASSIGNED TO THIS WELL: 40 Acres	
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET) 2,600'		19. PROPOSED DEPTH: 8,250		20. BOND DESCRIPTION: UTB000148	
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): 6,313 GR		22. APPROXIMATE DATE WORK WILL START: 10/30/2008		23. ESTIMATED DURATION: 30 days	

24. **PROPOSED CASING AND CEMENTING PROGRAM**

SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT	SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT
17-1/2"	13-3/8" J-55 STC 54.50#	500	**See Attached Well Plan Line # 4
12-1/4"	9-5/8" L-80 LTC 40#	4,900	
8-3/4"	5-1/2" L-80 17#	4,900	
8-3/4"	5-1/2" HCL-80 17#	3,950	

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 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) Glen T. Nebeker TITLE Authorized Agent  
SIGNATURE *Glen T. Nebeker* DATE 9-17-08

(This space for State use only)

API NUMBER ASSIGNED: 43-037-31899

APPROVAL:

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

(11/2001)

(See Instructions on Reverse Side)

**Federal Approval of this  
Action is Necessary**

Date: 09-25-08  
By: *[Signature]*

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NAME (PLEASE PRINT) Glen T. Nebeker TITLE Authorized Agent  
SIGNATURE *Glen T. Nebeker* DATE 9-10-08

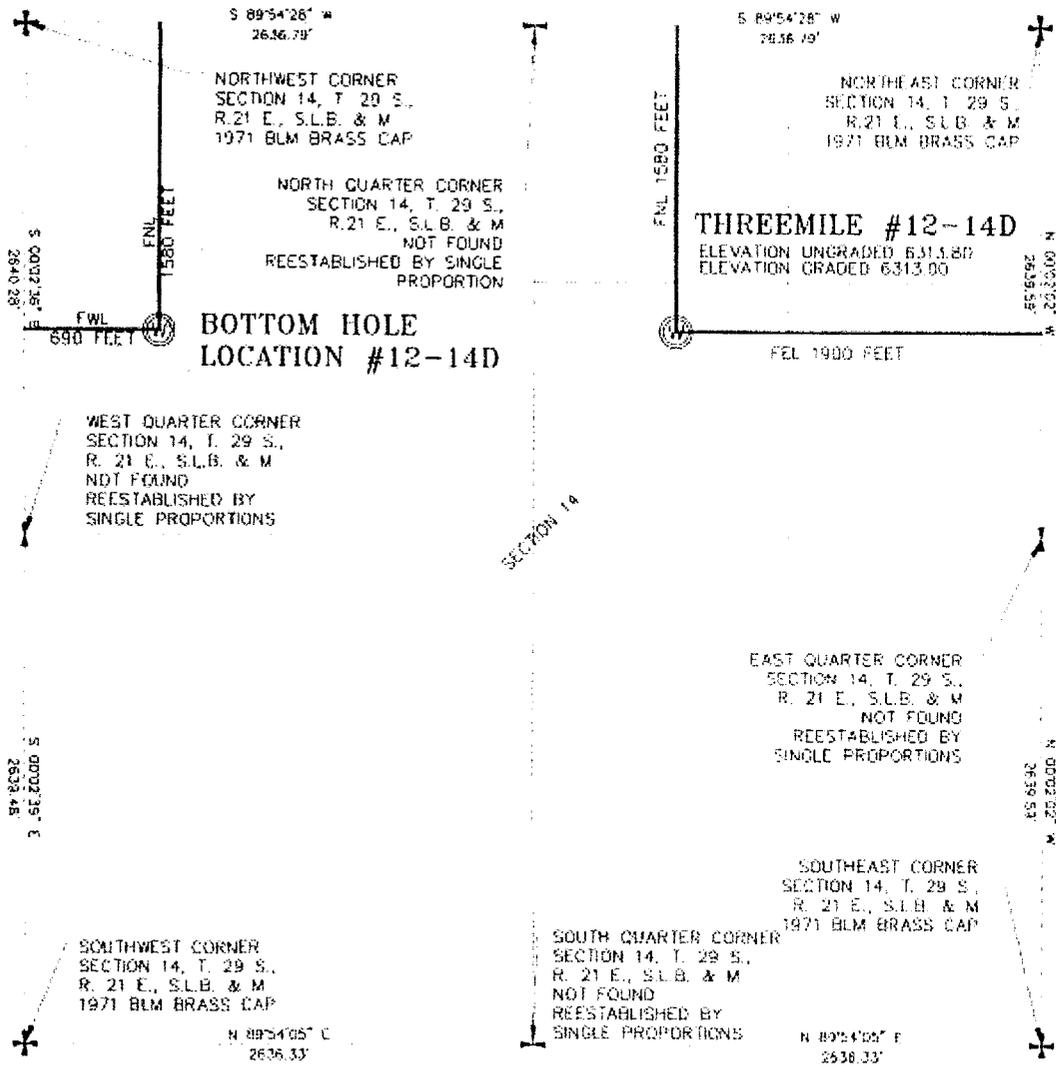
(This space for State use only)

API NUMBER ASSIGNED: 43-037-31899

APPROVAL:

**RECEIVED**  
**SEP 11 2008**  
DIV. OF OIL, GAS & MINING

# SECTION 14, T.29 S., R.21 E., S.L.B. & M.



**PROJECT**

**WHITING OIL & GAS CORPORATION**  
 WELL LOCATION, LOCATED AS SHOWN  
 IN THE SW 1/4 OF THE NE 1/4 OF  
 SECTION 14, T.29 S., R.21 E., S.L.B. & M.  
 SAN JUAN COUNTY, UTAH

**LEGEND**

- SECTION CORNER AS NOTED
- QUARTER CORNER AS NOTED
- PROPOSED WELL LOCATION

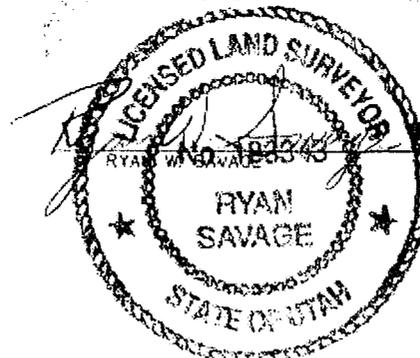
NOTE: THE PURPOSE OF THIS SURVEY WAS TO PLAT  
 WHITING OIL AND GAS THREEMILE 12-14D  
 LOCATED IN THE SE 1/4 OF THE NE 1/4 OF  
 SECTION 14, T.29 S., R.21 E., S.L.B. & M.  
 SAN JUAN COUNTY, UTAH.

**BASIS OF ELEVATION**

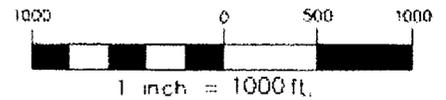
ELEVATION BASED ON TRIANGULATION PINON2  
 LOCATED IN THE SE 1/4 OF SECTION 3, T.29 S.,  
 R.22 E., S.L.B. & M.  
 ELEVATION USED 6326.00

**CERTIFICATE**

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



**GRAPHIC SCALE**



**BASIS OF BEARING**

BASIS OF BEARING USED WAS 589°54'28"W BETWEEN THE NORTHWEST CORNER  
 AND THE NORTHEAST CORNERS OF SECTION 14, T.29 S., R.21 E., S.L.B. & M.  
 WELL LATITUDE: 48°54'21.583"N OR 48.905995  
 WELL LONGITUDE: 109°13'58.756"W OR -109.232988

**Savage Surveying, Inc.**

1925 South Westwood Park Rd  
 Richwood, UT 84303  
 Office: 435-986-8836  
 Fax: 435-986-0200



**WHITING GAS & OIL CORPORATION**

**THREEMILE 12-14D**

DATE	LOCATION	DATE	BY	PROJECT NUMBER	SHEET NUMBER
09-09-2008	E.O.	09-09-2008	R.W.S.	0804-0125	1



## WESTERN LAND SERVICES

September 15, 2008

Utah Division of Oil, Gas & Mining  
Diana Mason  
1594 W. N. Temple Suite 1210  
Salt Lake City, Utah 84114-5801

RE: Whiting Oil and Gas Corporation (Whiting) Requests Permission to Drill the  
Threemile 12-14D well

Diana:

Pursuant to Rule R649-3-11 of the State's Oil & Gas Conservation regulations, Whiting hereby makes application for approval to drill the Threemile #12-14D well situated in Township 29 South – Range 21 East; Section 14: SW/NE (1,580' FNL – 1,900' FEL) on lands administered by the Department of Interior – Bureau of Land Management (BLM). Both the surface and minerals are held by the BLM. The BLM has leased the minerals out to Whiting under lease number UTU – 84722X.

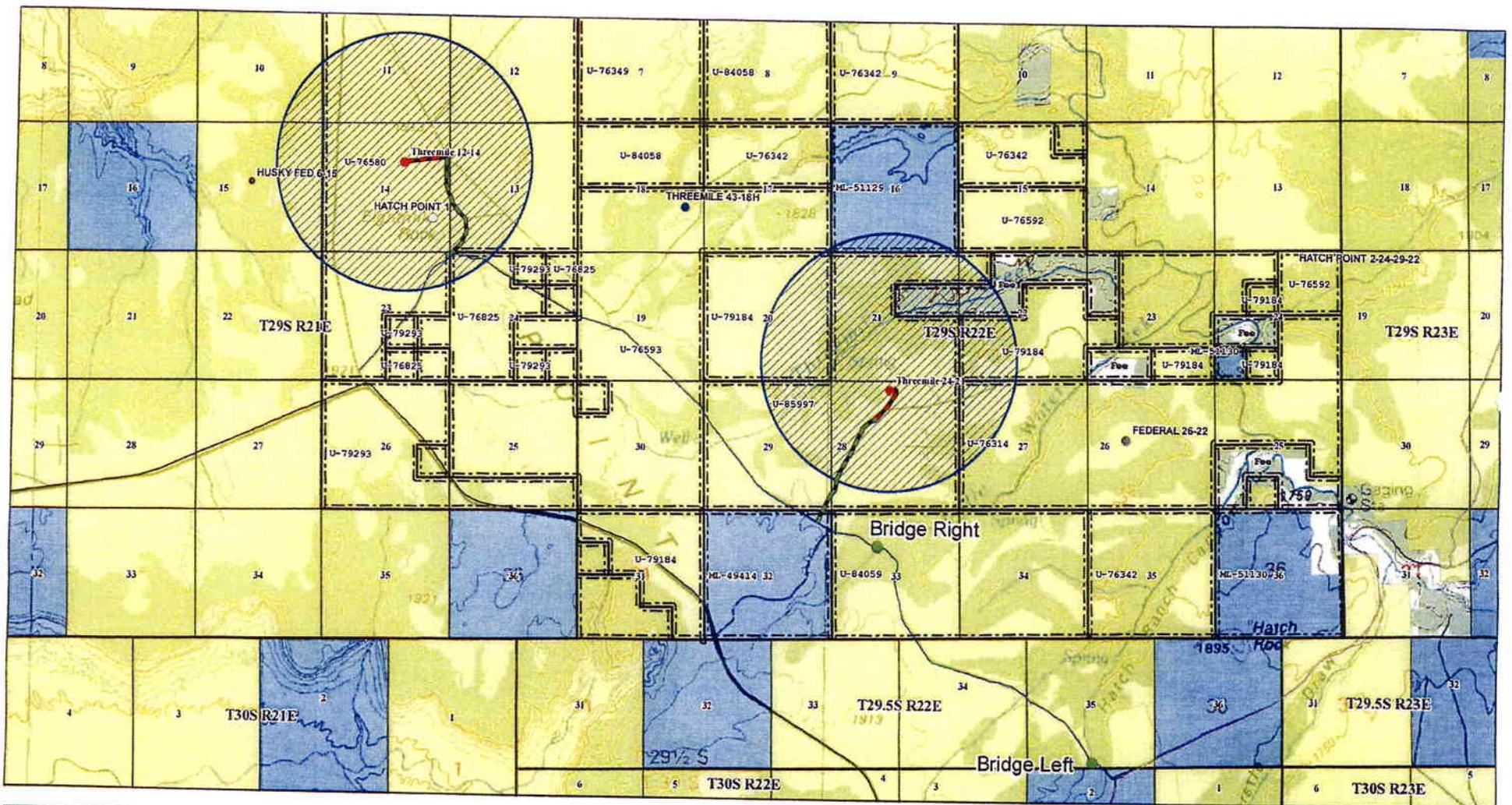
Whiting proposes to drill the Threemile 12-14D well to a total depth of 8,250 feet and is an exception to Rule R649-3-3. Whiting is the only leasehold owner and operator within a 460 foot radius of the bore hole.

Whiting proposes to use a directional drilling program for the Threemile 12-14D well with a bottom hole location of Township 29 South-Range 21 East; Section 14: SW/NW (1,580' FNL – 690' FWL). This well is situated outside of the legal drilling window due to a request by the Bureau of Land Management to add a visual buffer for the Needles Overlook Scenic Byway. Other alternatives were identified but the proposed access route and well location provides the most environmentally sensitive options. Attached hereto is a plat as required by the Commissions rules and regulations.

If no objections are filed, the applicant requests that this application be approved. If objections are filed, applicant requests the matter be set for hearing and that it be advised of the hearing date.

Respectfully submitted,

Shawn Burd, Western Land Services  
Designated Agent for Whiting Oil and Gas Corporation



**Legend**

<b>UDOGM Well Status</b>	Bridges	Wells	New Road
Approved permit (APD); not yet spudded	BIG INDIAN	Upgrade Road	Wells_Buffer1
Location Abandoned	LOOKING GLASS	Leases	BLM
Plugged and Abandoned	NEEDLES OVERLOOK	Private	State
Producing	US HWY		
Returned APD (Unapproved)			

1:45,000  
 Datum NAD 83  
 Zone 12

**Whiting Oil and Gas**  
Threemile Wells

WESTERN LAND SERVICES  
 Richfield, UT 84701 (435) 896-5501

Prepared By: DTJ      Date: Sept 9, 2008

No warranty is made for data usage purposes other than those intended by Western Land Services. Maps are created as part of a GIS that compiles records, information, and data from various sources. This data experiences frequent updates and accordingly, WLS shall not be liable for any errors or omissions herein.



May 27, 2008

United States Department of Interior  
Bureau of Land Management  
State of Utah

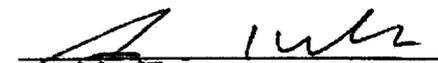
RE: Designated Agent

To Whom It May Concern:

By this letter, Whiting Oil and Gas Corporation. hereby authorizes Western Land Services, Inc. to receive direct communication for and from certain environmental contractors, Federal, State and local agencies within the State of Utah. Western Land Services, as receiving and delivery agent may be provided with proprietary information for the benefit of and delivery to Scott M. Webb.

If you have any questions or concerns, please feel free to contact me at (303) 390-4095, or via e-mail at [scottw@whiting.com](mailto:scottw@whiting.com). I thank you in advance for your cooperation.

Sincerely,

  
\_\_\_\_\_  
(Scott M. Webb)

Whiting Oil and Gas Corporation  
1700 Broadway, Suite 2300  
Denver, Colorado 80290-2300

*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

## Operator Certification

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I, or someone under my direct supervision, have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

Executed this 10 day of Sept, 2008.

Signature Glen Nebeker

Name (print or type) Glen Nebeker.

Position Title NEPA Specialist/Project Manager.

Address Western Land Services.

195 N. 100 E., Richfield, UT 84701.

Telephone 435-896-5501.

Field representative (if not above signatory)

\_\_\_\_\_.

Address (if different from above)

Telephone (if different from above)

E-mail (optional) Glen.Nebeker@westernls.com.

**Agents not directly employed by the operator must submit a letter from the operator authorizing that agent to act or file this application on their behalf.**

Bureau of Land Management  
Moab Field Office  
Moab, Utah  
Application for Permit to Drill

TIGHT HOLE STATUS

Company: Whiting Oil & Gas Corporation      Well No. Threemile 12-14D

Location: Sec 14 T29S R21E

Lease No. UTU-76580

On-Site Inspection Date: 06/03/08

All operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR § 3100 & 43 CFR § 3160), Onshore Oil and Gas Orders, the approved plan of operations and the conditions of approval. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished to the field representative to ensure compliance.

THIRTEEN POINT SURFACE USE PLAN

The dirt contractor will be provided with an approved copy of the surface use plan of operations before initiating construction.

1. Existing Roads:

- a. Proposed route to location (submit a map depicting access and well location, 1:100,000 scale). See attached Overview and APD maps.
- b. Location of proposed well in relation to town or other reference point:  
The well location is approximately 18 miles southwest of LaSal, Utah.
- c. Plans for improvement and/or maintenance of existing roads: Existing county roads will be upgraded and maintained as necessary. When necessary, roads will be re-graded to establish a running surface of 12 feet. Where soil conditions dictate the use of stabilizing material, 6 inches of 4 inch minus granular borrow will be used.
- d. Other: NA

2. Planned Access Roads (1:24,000 scale: 12 inch surveyor stakes):

- a. Location (centerline): Refer to construction diagrams, Sheets RD-1 through RD-5, and APD Map.
- b. Length of new access to be constructed: 0.29 miles
- c. Length of existing roads to be upgraded: 0.85 miles
- d. Maximum total disturbed width: approximately 31 feet (Sheet RD-5)
- e. Maximum travel surface width: 12 foot travel lanes, 22 foot turnouts
- f. Maximum grades: 4%

- g. Turnouts: 7
- h. Surface materials: 4 inch minus granular barrow
- i. Drainage (crowning, ditching, culverts, etc): none
- j. Cattleguards: none
- k. Length of new and/or existing roads which lie outside the lease or unit boundary for which a BLM right-of-way is required: 0 mile
- l. Other:

Surface disturbance and vehicular travel will be limited to the approved location and access road. Any additional area needed must be approved by BLM in advance.

If a right-of-way is necessary, no surface disturbing activities shall take place on the subject right-of-way until the associated APD is approved. The holder will adhere to conditions of approval in the Surface Use Program of the approved APD, relevant to any right-of-way facilities.

If a right-of-way is secured, boundary adjustments in the lease or unit shall automatically amend this right-of-way to include that portion of the facility no longer contained within the lease or unit. In the event of an automatic amendment to this right-of-way grant, the prior on-lease/unit conditions of approval of this facility will not be affected even though they would now apply to facilities outside of the lease/unit as a result of a boundary adjustment. Rental fees, if appropriate shall be recalculated based on the conditions of this grant and the regulations in effect at the time of an automatic amendment.

If at any time the facilities located on public lands authorized by the terms of the lease are no longer included in the lease (due to a contraction in the unit or other lease or unit boundary change) the BLM will process a change in authorization to the appropriate statute. The authorization will be subject to appropriate rental fees, or other financial obligations determined by the BLM.

If the well is productive, the access road will be brought to Resource (Class III) Road Standards within 60 days of dismantling the rig. If upgraded, the access road must be maintained at these standards until the well is properly abandoned. If this time frame cannot be met, the Field Office Manager will be notified so that temporary drainage control can be installed along the access road.

- 3. Location of Existing Wells: On a map (1:24,000 scale), show the location of all water, injection, disposal, producing and drilling wells within a one mile radius of the proposed well, and describe the status of each.

The Hatch Point 1 Well is a producing well that is 2,600' from proposed well.

- 4. Location of Production Facilities:

- a. On-site facilities: If the well is a producer on-site facilities will be applied for and installed. All or part of this equipment could be on a location:

There will be two (2) 400 BBL oil tanks and two (2) 400 BBL salt water tanks.  
One (1) high pressure 36" x 10' 3 phase separator

One (1) low pressure 30" x 10' 3 phase separator  
One (1) 6' x 20' heater treater  
One (1) 3 phase high pressure gas production unit  
One (1) gas dehydrator  
One (1) gas compressor  
Two (2) transfer pumps for handling produced fluids  
One (1) large beam pumping unit and engine

- b. Off-site facilities: None
- c. Other: All permanent (in place for six months or longer) structures constructed or installed (including oil well pump jacks) will be painted a flat, non-reflective color to match the standard environmental colors, as determined by the Authorized Officer. All facilities will be painted within six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) may be excluded. Colors will be as follows: Colors will match the surrounding soils and vegetation.

All site security guidelines identified in 43 CFR § 3162.7-5 and Onshore Oil and Gas Order No. 3 shall be followed.

If a gas meter run is constructed, it will be located on lease within 500 feet of the wellhead. The gas flowline will be buried from the wellhead to the meter and will be buried downstream of the meter until it leaves the pad. Meter runs will be housed and/or fenced. The gas meter shall be calibrated prior to first sales and shall be calibrated quarterly thereafter. All gas production and measurement shall comply with the provisions of 43 CFR § 3162.7, Onshore Oil and Gas Order No. 5, and American Gas Association (AGA) Report No. 3.

If a tank battery is constructed on this lease, it will be surrounded by a berm of sufficient capacity to contain 1½ times the storage capacity of the largest tank. All loading lines and valves will be placed inside the berm surrounding the tank battery. All oil production and measurement shall conform to the provisions of 43 CFR § 3162.7 and Onshore Oil and Gas Order No. 4. If water is produced from the well; steel coated water tanks will be used.

5. Location and Type of Water Supply:  
All water needed for drilling purposes will be obtained from (describe location and/or show on a map): Municipal water will be purchased from the town of Moab, Utah.
6. Source of Construction Material:  
Pad construction material will be obtained from (if the source is Federally owned, show location on a map).

Materials needed will be obtained from a private source.

The use of materials under BLM jurisdiction will conform to 43 CFR § 3610.2-3.

7. Methods of Handling Waste Disposal:

Describe the methods and locations proposed for safe containment and disposal of waste material, e.g. cuttings, produced water, garbage, sewage, chemicals, etc.

The reserve pit will be lined with (native material, bentonite, synthetic material): The pit will be lined with 12 mil, or greater (depending on the pit substrate), thick polyethylene

nylon reinforced liner material.

The reserve pit will be located: See construction diagrams, Sheet PAD. The pit walls will be sloped at no greater than 2 to 1.

The reserve pit shall be located in cut material, with at least 50% of the pit volume being below original ground level. Three sides of the reserve pit will be fenced before drilling starts. The fourth side will be fenced as soon as drilling is completed, and shall remain until the pit is dry. As soon as the reserve pit has dried, all areas not needed for production will be rehabilitated.

The reserve pit will be used for the disposal of waste mud and drill cuttings. All borehole fluids will be contained in the reserve pit. All appropriate measures will be taken to prevent leakage into the substratum or onto the surface. All appropriate measures will be taken to prevent overflow, and a minimum of 2 feet of freeboard will be maintained in the reserve pit. It will be constructed on the well pad. See construction diagrams, Sheet PAD.

Wastewater will not be discharged on the surface at this site and the drilling of the well will not require a wastewater management plan.

All rubbish and debris will be kept in containers on the well site, and will be hauled to an approved disposal site upon completion of drilling and completion operations and as needed during such operations. There will be no chemical disposal of any type. Self-contained, portable toilets will be used for human waste, and the waste will be disposed at an approved landfill. Sanitation will comply with local and state regulations for the disposal of human waste.

8. Ancillary Facilities: Trailers, garbage containers and portable toilets.
9. Well Site Layout: Depict the pit, rig, cut and fill, topsoil, etc. on a plat with a scale of at least 1"=50'. See construction diagrams, Sheet PAD.

All wells, whether drilling, producing, suspended, or abandoned, will be identified in accordance with 43 CFR § 3162.6.

Access to the well pad will be from: See construction diagrams, Sheet PAD.

The blooie line will be located: At least 100 feet from the well head.

To minimize the amount of fugitive dust and spray escaping from the blooie pit, the following blooie line deflection method will be employed: water injection

10. Plans for Restoration of the Surface:  
The top 2 to 3 inches of topsoil material will be removed from the location and stockpiled separately on: adjacent to the pad

Topsoil along the access road will be reserved in place adjacent to the road.

Immediately upon completion of drilling, all equipment that is not necessary for production shall be removed.

The reserve pit and that portion of the location not needed for production will be reclaimed.

Before any dirt work to restore the location takes place, the reserve pit must be completely dry.

All road surfacing will be removed prior to the rehabilitation of roads.

Reclaimed roads will have the berms and cuts reduced and will be closed to vehicle use.

All disturbed areas will be recontoured to replicate the natural slope.

The stockpiled topsoil will be evenly distributed over the disturbed area.

The abandonment marker will be one of the following, as specified by BLM:

- 1) At least four feet above ground level,
- 2) At restored ground level, or
- 3) Below ground level.

In any case the marker shall be inscribed with the following: operator name, lease number, well name and surveyed description (township, range, section and either quarter-quarter or footages).

Reclamation of the surface will commence as soon after construction, drilling and well completion are concluded, as is practicable. In the event of a dry hole, the drill site and roadways will be restored to their original condition within 180 days after plugging date of the well, depending on weather and other extenuating circumstances.

All junk, debris, or other foreign material must be removed before initiating any dirt work to restore the location. The fence around the reserve pit will be maintained in good repair during the drilling operations and will be completed by constructing the fourth side while the pit is drying. It will remain in place until the pit is completely dry and the site restoration begins. All fences will be four-strand barbed wire.

The reserve pit and that portion of the location and access road not needed for production or production facilities will be reclaimed. All stockpiled topsoil, in proportion to the area being reclaimed, will be used in reclaiming areas without an on-going operation.

Site reclamation will include:

- Removing the road base material from the access road and any other surface that may be covered by such material;
- Recontouring the location to approximate natural contours, to the extent practicable; evenly redistributing stockpiled topsoil over the recontoured areas;
- Scarifying recontoured areas, including the access road, by use of a disk or harrow prior to seeding; and
- Drilling or broadcasting seeds.

The seed mix and rate used will be that recommended by the Authorized Officer. Seed will be drilled where-ever possible. If the seed is broadcast, then a harrow or some other implement will be dragged over the seeded area to assure seed coverage. The seed will be certified, pure live seed, and the seed tags will be available if requested by the Authorized Officer. Certified weed free seed will be used to rehabilitate reclaimed land.

All hillsides and other places where the contractor has moved earthen materials to facilitate operations will be restored to as near original condition as practical. The surface

of the re-contoured land will be left in a slightly roughened condition to collect precipitation and to promote seed germination. The site will be fenced with four-strand barbed wire until vegetation is reestablished.

Road base material, used in the construction of the access road and pad, will be removed from the site and disposed in a proper manner. If the reserve pit has adequate capacity, then some or all of the gravel will be buried in the reserve pit, provided that the gravel is not contaminated by oil or other waste materials. The access road will be recontoured using of an excavator or similar equipment, rather than simply ripping the surface.

Culverts will be removed from the site and disposed in an approved landfill. The concrete cellar will be removed from the site and similarly disposed in a landfill, or with the approval of the Authorized Officer may be broken down into small pieces and buried during the Recontouring on the site.

During the life of the project and until the site is released from liability for reclamation, the project will be inspected at least annually for noxious weeds. If invasive noxious weeds are found, the weeds will be treated to eliminate further reproduction (spread), and treatment shall continue until the weeds have been eradicated. If noxious weeds are found, the BLM will be notified of their occurrence.

11. Surface and Mineral Ownership:

The surface of the proposed well site is federally owned and is administered by the Bureau of Land Management, United States Department of Interior.

12. Other Information:

- a. Archeological Concerns: A cultural survey was completed by Western Land Services and no sites were identified.

The operator is responsible for informing 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 is to immediately stop work that might further disturb such materials, and contact the BLM Field Office. Within five (5) working days, the BLM will inform the operator as to:

- Whether the materials appear eligible for the National Register of Historic Places;
- The mitigation measures the operator will likely have to undertake before the site can be used (assuming in situ preservation is not necessary); and
- A time frame for the BLM to complete an expedited review under 36 CFR § 800.11 to confirm, through the State Historic Preservation Officer, that the findings of the BLM are correct and that mitigation is appropriate.

If the operator wishes, at any time, to relocate activities to avoid the expense of mitigation and/or the delays associated with this process, the BLM 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 BLM will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the BLM that the required mitigation has been completed, the

operator will then be allowed to resume construction.

b. Other:

Heavy equipment, used to construct and rehabilitate the well pad and access road, will be cleaned and/or sprayed to remove any noxious or invasive weeds and seeds, prior to being moved to the project site. Any other equipment and vehicles, that have been used in other locations, where noxious weeds or seeds could have attached to the equipment, will also be sprayed and/or cleaned.

Any accumulation of hydrocarbons in the reserve pit will be removed and recovered for sale unless it is determined by the Authorized Officer to be waste oil. All waste oil will be disposed of properly at approved facilities.

For reclamation, the pit liner, which is exposed above the cuttings, will be cut and removed from the site and disposed in an authorized landfill. The reserve pit will be backfilled to slightly above grade to allow for settling of the unconsolidated fill material.

All equipment and vehicles will be confined to the access roads and well pad.

Any facilities in an existing right of way that are damaged as a result of the oil and gas operations will be repaired or replaced.

Fire suppression equipment will be available to suppress any wildfires caused by construction or related activities. In the event of a wildfire, the Moab Fire Center will be notified (435)259-1850.

# Whiting Oil & Gas Corporation

## Thremile 12-14D Directional Leadville Well Plan

**Surface Location:** 1,580' FNL & 1,900' FEL SWNE of Section 14-T29S-R21E  
San Juan County, Utah

### 1. ESTIMATED TOPS OF GEOLOGICAL MARKERS: Elevation 6,313' (6,329' KB)

FORMATION	TOP-TVD	SS-TVD	INTERVAL	LITHOLOGY	HAZARDS
Wingate	528	5,808	317	Sandstone	
Chinle	845	5,491	488	Red Beds:SS,SI,SH	
Moenkopi	1,333	5,003	332	Red Beds:SS,SI,SH	
Organ Rock	1,665	4,671	424	Red Beds:SS,SI,SH	
Elephant Canyon	2,089	4,247	969	SS,SH,LS	
Honaker Trail	3,058	3,278	1,062	SS,SH,LS	
La Sal LS	4,120	2,216	460	Limestone	
Ismay (Paradox)	4,580	1,756	440	LS,SH,DO, ANHY	
Akah (Paradox)	5,020	1,316	763	HA, ANHY,SH	
Barker Creek (Paradox)	5,783	553	1,044	HA, ANHY,SH	
Alkali Gulch (Paradox)	6,827	(491)	299	HA, ANHY,SH	
Cane Creek Zn	7,126	(790)	223	ANHY,SH,SS	High Pressure
Pinkerton Trail	7,349	(1,013)	187	LS,SH,DO	
Leadville	7,536	(1,200)	557	LS,DO	
Ouray	8,093	(1,757)		LS,DO	
TD	8,250				

**Bottom Hole Location:** 1,580' FNL & 690' FWL SWNW of Section 14-T29S-R21E

\*See Attached Directional Well Plan

### 2. PRESSURE CONTROL EQUIPMENT

#### A. Type: **BOPE**

Thirteen and five eights (13-5/8") inch 10,000 psi double ram hydraulic BOP with Blind and Pipe rams.

Thirteen and five eights (13-5/8") inch 10,000 psi single ram hydraulic BOP with Pipe rams.

Thirteen and five eights (13-5/8") inch 10,000 psi annular preventer

\*See attached drawing

Rotating Head  
13-3/8", 2,500 psi

Wellhead  
13-3/8" casing, 5,000 psi Casing head, (A Section)  
9-5/8" casing, 10,000 psi Casing spool, (B Section)

After the 13-3/8" casing is landed at 500', the 5,000 psi casing head will be welded on and the 10,000 psi casing spool (B Section) will be bolted up to the casing head. The 10,000 psi BOP stack will be bolted up to the upper 10,000 psi flange on the B Section. Once the 9-5/8" casing is landed at 4,900' MD, the pack-off will be placed around the 9-5/8" casing in the B Section. This will give a full 10,000 psi working pressure through the B Section and the BOP. \*See attached drawings.

**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. \*See attached drawing.

**D. Accumulator:**

Accumulator will have sufficient capacity to open a hydraulically-controlled choke line valve; close all rams plus annular preventer, and retain a minimum of 200 psi above pre-charge 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 pre-charge 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 well bore and any existing production facilities.

**2. PROPOSED CASING DESIGN PROGRAM**

**A. Casing Program: All New**

Section	Interval (MD)	Hole Size	Footage	Description
Surface	0' – 500'	17-1/2"	500'	13-3/8" 54.50# J-55 STC
Intermediate	0' – 4900'	12-1/4"	4,900'	9-5/8" 40# L-80 LTC
Production	0' – 4900'	8-3/4"	4,900'	5-1/2" 17# L-80
	4,900'-8,850'	8-3/4"	3,950	5-1/2" 17# HCL-80

13-3/8" surface casing will have five (5) centralizers as follows: Centralizer #1 set on middle of joint #1 by stop ring, and Centralizers #2-#5 set across collars of joints #2, #4, #6 and one centralizer set in the conductor.

5-1/2" production casing will have thirty seven (37) centralizers.

- a) Twelve (12) centralizers every other joint 8,850' to 7,850'.
- b) Twenty five (25) centralizers every third (3<sup>rd</sup>) joint 7,850' to 4,700'.

Casing string(s) will be pressure tested to 0.22 psi/foot of casing string length or 1500 psi, whichever is greater (not to exceed 70% of the internal yield strength of the casing), after cementing and prior to drilling out from under the casing shoe.

**B. Casing Design Parameters:**

**Surface Casing**

<u>Interval</u>	<u>Description</u>	<u>Burst (psi)<sup>a</sup></u>	<u>Collapse (psi)<sup>b</sup></u>	<u>Tension (klb)<sup>c</sup></u>
0' – 500'	13-3/8" 54.50# J-55 STC	2,730/1.52	1,130/4.39	514/12.09

- a. based on Methane gas kick to surface, 0.0427 psi/ft
- b. based on full evacuation with 9.0 ppg fluid on backside
- c. based on casing string weight in 9 ppg mud  
String Weight in 9.0 ppg mud ≈ 23,500 lbs

**Intermediate Casing**

<u>Interval</u>	<u>Description</u>	<u>Burst (psi)<sup>a</sup></u>	<u>Collapse (psi)<sup>b</sup></u>	<u>Tension (klb)<sup>c</sup></u>
0' – 4,900'	9-5/8" 40# L-80 LTC	5,750/1.15	3,090/1.35	727/2.71

- a. based on BLM Burst Rules, 0.22 psi/ft.
- b. based on full evacuation with 9.0 ppg fluid on backside
- c. based on casing string weight in 9.0 ppg mud.  
String Weight in 9.0 ppg mud ≈ 169,000 lbs.

**Production Casing**

<u>Interval</u>	<u>Description</u>	<u>Burst (psi)<sup>a</sup></u>	<u>Collapse (psi)<sup>b</sup></u>	<u>Tension (klb)<sup>c</sup></u>
0' – 4,900'	5-1/2" 17# L-80 LTC	7,740/2.33	6,290/1.51	338/2.99
4,900'-8,850'	5-1/2" 17# HCL-80 LTC	7,740/2.33	8,580/1.13	338/2.99

- a. based on BLM Burst Rules, 0.22 psi/ft.
- b. based on full evacuation with 16.4 ppg fluid on backside
- c. based on casing string weight in 16.4 ppg mud.  
String Weight in 16.4 ppg mud ≈ 113,000 lbs.

**4. PROPOSED CEMENTING PROGRAM**

All slurries tested for compatibility, compression strengths, and pumping times based on actual job conditions.

Surface: TOC Surface, (100% Excess)  
Tail: 695 cu-ft; 500 sx Premium Plus – Type III cement 2% Calcium Chloride

Intermediate: TOT 3,240' TVD, TOL Surface, 40% excess

Lead: 1535 cu-ft; 862 sacks Premium Lite Cement + 0.25 lbs/sack Cello Flake + 3 lbs/sack Kol Seal + 0.3% bwoc FL-52 + 0.5% bwoc Sodium Metasilicate + 89.8% Fresh water.

Tail: 438 cu-ft; 312 sacks Type III Cement + 0.25 lbs/sack Cello Flake + 0.2% bwoc CD-32 + 0.3% bwoc FL-52 + 0.3% bwoc Sodium Metasilicate + 60.2% Fresh Water

Displacement: 380 bbls Fresh Water @ 8.34 ppg

Cement Properties	Slurry No. 1	Slurry No. 2
Slurry Weight (ppg)	12.70	14.50
Slurry Yield (cf/sack)	1.78	1.40
Amount of Mix water (gps)	9.37	6.79

Production: TOT 6,500' TVD, TOL 4,800' TVD, (40% Excess)

Lead: 812 cu-ft; 456 sacks Premium Lite Cement + 0.25 lbs/sack Cello Flake + 3 lbs/sack Kol Seal + 0.3% bwoc FL-52 + 0.5% bwoc Sodium Metasilicate + 89.8% Fresh water.

Tail: 443 cu-ft; 399 sacks Class G Cement + 3% bwow Potassium Chloride + 0.25 lbs/sack Cello Flake + 0.2% bwoc CD-32 + 0.3% bwoc FL-52 + 0.3% bwoc Sodium Metasilicate + 0.3% bwoc BA-59 + 0.3% bwoc R-3 + 40.5% Fresh Water

Displacement: 251 bbls Water @ 8.34 ppg

Cement Properties	Slurry No. 1	Slurry No. 2
Slurry Weight (ppg)	12.00	16.2
Slurry Yield (cf/sack)	1.78	1.11
Amount of Mix water (gps)	9.37	4.56

## 5. MUD PROGRAM

Depth MD	Mud System	MW (ppg)	PV (cp)	YP (lb/100ft <sup>2</sup> )	FL (ml/30min)
0 -500'	Air	NA	NA	NA	NA
500'-4,900'	Air	NA	NA	NA	NA
4,900' – 8,854'	Oil Based	8.6 – 10.2	32 - 45	10 - 25	8-10

Surface hole (0' – 500') will be drilled by the surface rig which will also set the conductor and drill mouse hole. Surface rig will use air to drill 500' and set casing.

Intermediate hole (500' – 4,900') 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 pumpint 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 wellbore 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 wellbore

**6. TESTING, LOGGING AND CORE PROGRAMS**

Cores: None planned  
DST: None planned

Surveys: Deviation surveys every 500' to TD in both surface and production hole.

Mud Logger: From 4,600' to TD.

Samples: 30' samples 4,600' to TD

Open Hole Logging Program: Induction w/GR Log TD to Surface Casing  
Density Compensated Neutron TD to 4,600'

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

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

If overpressure is present in the Cane Creek zone at 7,126' TVD, maximum anticipated bottom hole pressure equals approximately 6,600 psi (calculated at 0.85 psi/foot) in the Cane Creek zone at TD Depth of 8,250' TVD. Maximum anticipated surface pressure equals approximately 5,197 psi (anticipated bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot of hole).

If overpressure is not present in the Cane Creek zone, maximum anticipated bottom hole pressure equals approximately 3,572 psi (calculated at 0.433 psi/foot) in the Cane Creek zone at TD Depth of 8,250'. Maximum anticipated surface pressure equals approximately 1,757 psi (anticipated bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot of hole).

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

Dirt work startup: Upon Approval  
Spud: Upon Approval  
Duration: 30 - 35 days



# **Whiting Petroleum**

**San Juan, UT  
Hatch Point  
Threemile 12-14D  
Wellbore #1**

**Plan: Plan #1**

## **Standard Planning Report**

**06 August, 2008**



**Whiting Petroleum Corporation**



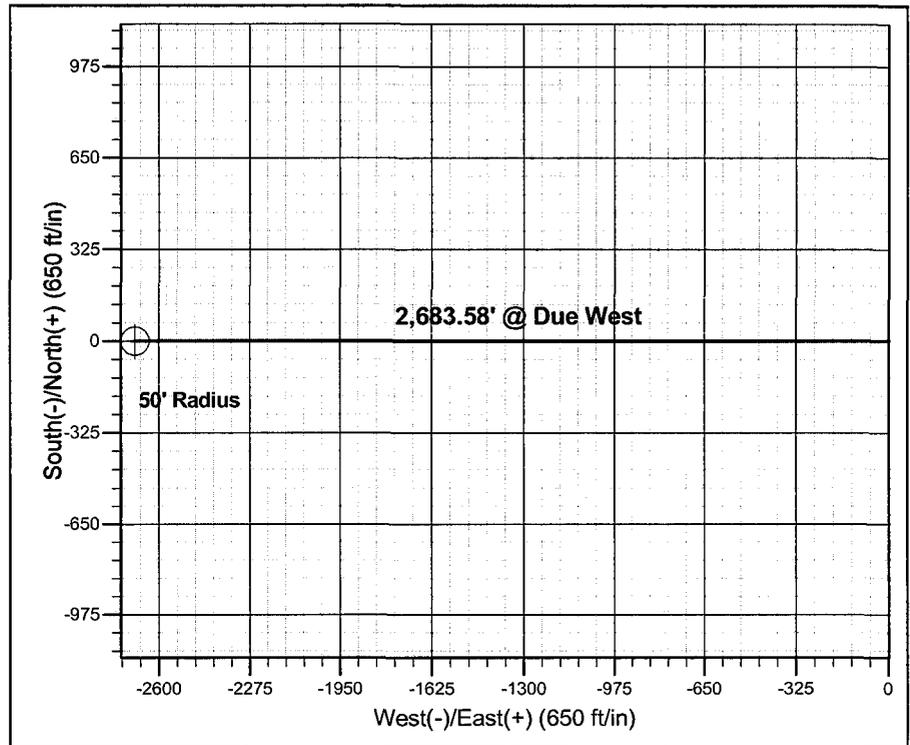
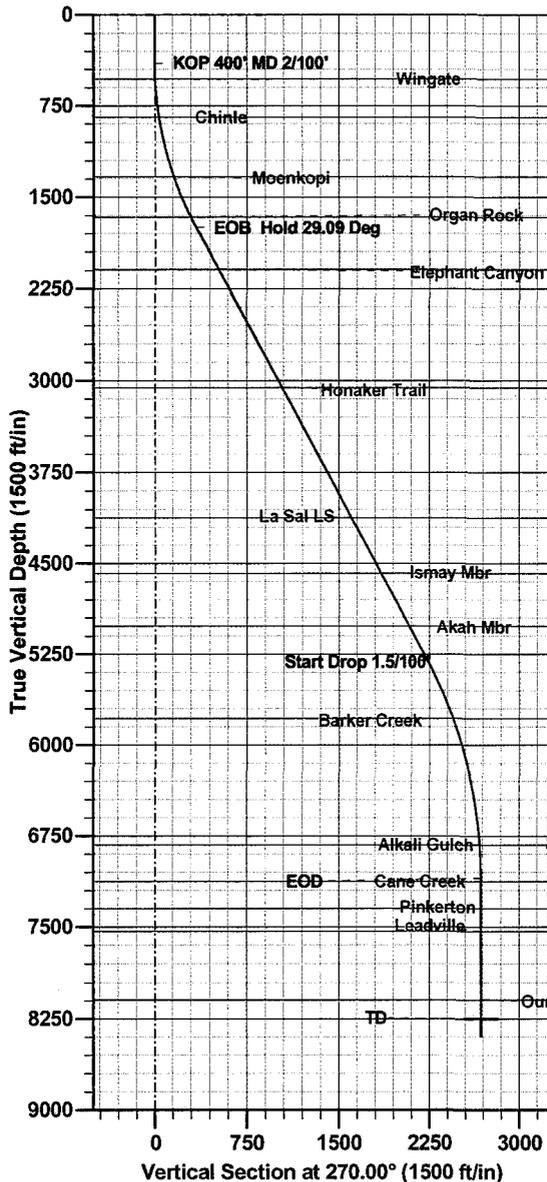
**Whiting Petroleum  
Threemile 12-14D  
San Juan, UT  
Plan #1**



Whiting Petroleum Corporation

PROJECT DETAILS: San Juan, UT
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: Utah South 4303

Azimuths to True North  
 Magnetic North: 12.79°  
 Magnetic Field  
 Strength: 56916.7snT  
 Dip Angle: 72.96°  
 Date: 7/16/2008  
 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	400.0	0.00	0.00	400.0	0.0	0.0	0.00	0.00	0.0	
3	1804.6	28.09	270.00	1749.0	0.0	-337.5	2.00	270.00	337.5	
4	5831.3	28.09	270.00	5301.4	0.0	-2233.6	0.00	0.00	2233.6	
5	7704.1	0.00	0.00	7100.0	0.0	-2683.6	1.50	180.00	2683.6	
6	8854.1	0.00	0.00	8250.0	0.0	-2683.6	0.00	0.00	2683.6	

**FORMATION TOP DETAILS**

TVDPPath	MDPath	Formation
528.0	528.0	Wingate
845.0	846.8	Chinle
1333.0	1350.3	Moenkopi
1665.0	1710.2	Organ Rock
2089.0	2190.0	Elephant Canyon
3058.0	3288.4	Honaker Trail
4120.0	4492.2	La Sal LS
4580.0	5013.6	Ismay Mbr
5020.0	5512.4	Akah Mbr
5783.0	6359.5	Barker Creek
6827.0	7430.9	Alkali Gulch
7126.0	7730.1	Cane Creek
7349.0	7953.1	Pinkerton
7536.0	8140.1	Leadville
8093.0	8697.1	Ouray



# Crescent Directional Drilling L.P.

## Planning Report



**Database:** EDM 2003.16 Single User Db  
**Company:** Whiting Petroleum  
**Project:** San Juan, UT  
**Site:** Hatch Point  
**Well:** Threemile 12-14D  
**Wellbore:** Wellbore #1  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well Threemile 12-14D  
**TVD Reference:** WELL @ 0.0ft (Original Well Elev)  
**MD Reference:** WELL @ 0.0ft (Original Well Elev)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature

<b>Project</b>	San Juan, UT		
<b>Map System:</b>	US State Plane 1927 (Exact solution)	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	NAD 1927 (NADCON CONUS)		
<b>Map Zone:</b>	Utah South 4303		

<b>Site</b>	Hatch Point				
<b>Site Position:</b>		<b>Northing:</b>	180,638.92 m	<b>Latitude:</b>	38° 16' 40.866 N
<b>From:</b>	Lat/Long	<b>Easting:</b>	781,454.74 m	<b>Longitude:</b>	109° 32' 9.018 W
<b>Position Uncertainty:</b>	0.0 ft	<b>Slot Radius:</b>	in	<b>Grid Convergence:</b>	1.20 °

<b>Well</b>	Threemile 12-14D					
<b>Well Position</b>	<b>+N/-S</b>	0.0 ft	<b>Northing:</b>	1,369,772.09 m	<b>Latitude:</b>	48° 54' 21.582 N
	<b>+E/-W</b>	0.0 ft	<b>Easting:</b>	779,129.46 m	<b>Longitude:</b>	109° 13' 58.757 W
<b>Position Uncertainty</b>		0.0 ft	<b>Wellhead Elevation:</b>	ft	<b>Ground Level:</b>	0.0 ft

<b>Wellbore</b>	Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF200510	7/16/2008	12.79	72.96	56,917

<b>Design</b>	Plan #1				
<b>Audit Notes:</b>					
<b>Version:</b>	<b>Phase:</b>	PROTOTYPE	<b>Tie On Depth:</b>	0.0	
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>	
	0.0	0.0	0.0	270.00	

<b>Plan Sections</b>										
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	
400.0	0.00	0.00	400.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,804.6	28.09	270.00	1,749.0	0.0	-337.5	2.00	2.00	0.00	270.00	
5,831.3	28.09	270.00	5,301.4	0.0	-2,233.6	0.00	0.00	0.00	0.00	
7,704.1	0.00	0.00	7,100.0	0.0	-2,683.6	1.50	-1.50	0.00	180.00	
8,854.1	0.00	0.00	8,250.0	0.0	-2,683.6	0.00	0.00	0.00	0.00	



# Crescent Directional Drilling L.P.

## Planning Report



Whiting Petroleum Corporation

**Database:** EDM 2003.16 Single User Db  
**Company:** Whiting Petroleum  
**Project:** San Juan, UT  
**Site:** Hatch Point  
**Well:** Threemile 12-14D  
**Wellbore:** Wellbore #1  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well Threemile 12-14D  
**TVD Reference:** WELL @ 0.0ft (Original Well Elev)  
**MD Reference:** WELL @ 0.0ft (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
<b>KOP 400' MD 2/100'</b>									
500.0	2.00	270.00	500.0	0.0	-1.7	1.7	2.00	2.00	0.00
528.0	2.56	270.00	528.0	0.0	-2.9	2.9	2.00	2.00	0.00
<b>Wingate</b>									
600.0	4.00	270.00	599.8	0.0	-7.0	7.0	2.00	2.00	0.00
700.0	6.00	270.00	699.5	0.0	-15.7	15.7	2.00	2.00	0.00
800.0	8.00	270.00	798.7	0.0	-27.9	27.9	2.00	2.00	0.00
846.8	8.94	270.00	845.0	0.0	-34.8	34.8	2.00	2.00	0.00
<b>Chinle</b>									
900.0	10.00	270.00	897.5	0.0	-43.5	43.5	2.00	2.00	0.00
1,000.0	12.00	270.00	995.6	0.0	-62.6	62.6	2.00	2.00	0.00
1,100.0	14.00	270.00	1,093.1	0.0	-85.1	85.1	2.00	2.00	0.00
1,200.0	16.00	270.00	1,189.6	0.0	-111.0	111.0	2.00	2.00	0.00
1,300.0	18.00	270.00	1,285.3	0.0	-140.2	140.2	2.00	2.00	0.00
1,350.3	19.01	270.00	1,333.0	0.0	-156.2	156.2	2.00	2.00	0.00
<b>Moenkopi</b>									
1,400.0	20.00	270.00	1,379.8	0.0	-172.8	172.8	2.00	2.00	0.00
1,500.0	22.00	270.00	1,473.2	0.0	-208.6	208.6	2.00	2.00	0.00
1,600.0	24.00	270.00	1,565.2	0.0	-247.7	247.7	2.00	2.00	0.00
1,700.0	26.00	270.00	1,655.8	0.0	-289.9	289.9	2.00	2.00	0.00
1,710.2	26.20	270.00	1,665.0	0.0	-294.4	294.4	2.00	2.00	0.00
<b>Organ Rock</b>									
1,800.0	28.00	270.00	1,744.9	0.0	-335.3	335.3	2.00	2.00	0.00
1,804.6	28.09	270.00	1,749.0	0.0	-337.5	337.5	1.99	1.99	0.00
<b>EOB Hold 29.09 Deg</b>									
1,900.0	28.09	270.00	1,833.2	0.0	-382.4	382.4	0.00	0.00	0.00
2,000.0	28.09	270.00	1,921.4	0.0	-429.5	429.5	0.00	0.00	0.00
2,100.0	28.09	270.00	2,009.6	0.0	-476.6	476.6	0.00	0.00	0.00
2,190.0	28.09	270.00	2,089.0	0.0	-519.0	519.0	0.00	0.00	0.00
<b>Elephant Canyon</b>									
2,200.0	28.09	270.00	2,097.8	0.0	-523.7	523.7	0.00	0.00	0.00
2,300.0	28.09	270.00	2,186.0	0.0	-570.8	570.8	0.00	0.00	0.00
2,400.0	28.09	270.00	2,274.3	0.0	-617.9	617.9	0.00	0.00	0.00
2,500.0	28.09	270.00	2,362.5	0.0	-664.9	664.9	0.00	0.00	0.00
2,600.0	28.09	270.00	2,450.7	0.0	-712.0	712.0	0.00	0.00	0.00
2,700.0	28.09	270.00	2,538.9	0.0	-759.1	759.1	0.00	0.00	0.00
2,800.0	28.09	270.00	2,627.1	0.0	-806.2	806.2	0.00	0.00	0.00
2,900.0	28.09	270.00	2,715.4	0.0	-853.3	853.3	0.00	0.00	0.00
3,000.0	28.09	270.00	2,803.6	0.0	-900.4	900.4	0.00	0.00	0.00
3,100.0	28.09	270.00	2,891.8	0.0	-947.5	947.5	0.00	0.00	0.00
3,200.0	28.09	270.00	2,980.0	0.0	-994.6	994.6	0.00	0.00	0.00
3,288.4	28.09	270.00	3,058.0	0.0	-1,036.2	1,036.2	0.00	0.00	0.00
<b>Honaker Trail</b>									
3,300.0	28.09	270.00	3,068.2	0.0	-1,041.6	1,041.6	0.00	0.00	0.00
3,400.0	28.09	270.00	3,156.5	0.0	-1,088.7	1,088.7	0.00	0.00	0.00
3,500.0	28.09	270.00	3,244.7	0.0	-1,135.8	1,135.8	0.00	0.00	0.00
3,600.0	28.09	270.00	3,332.9	0.0	-1,182.9	1,182.9	0.00	0.00	0.00
3,700.0	28.09	270.00	3,421.1	0.0	-1,230.0	1,230.0	0.00	0.00	0.00



# Crescent Directional Drilling L.P.

## Planning Report



Whiting Petroleum Corporation

**Database:** EDM 2003.16 Single User Db  
**Company:** Whiting Petroleum  
**Project:** San Juan, UT  
**Site:** Hatch Point  
**Well:** Threemile 12-14D  
**Wellbore:** Wellbore #1  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well Threemile 12-14D  
**TVD Reference:** WELL @ 0.0ft (Original Well Elev)  
**MD Reference:** WELL @ 0.0ft (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)
3,800.0	28.09	270.00	3,509.3	0.0	-1,277.1	1,277.1	0.00	0.00	0.00
3,900.0	28.09	270.00	3,597.6	0.0	-1,324.2	1,324.2	0.00	0.00	0.00
4,000.0	28.09	270.00	3,685.8	0.0	-1,371.3	1,371.3	0.00	0.00	0.00
4,100.0	28.09	270.00	3,774.0	0.0	-1,418.4	1,418.4	0.00	0.00	0.00
4,200.0	28.09	270.00	3,862.2	0.0	-1,465.4	1,465.4	0.00	0.00	0.00
4,300.0	28.09	270.00	3,950.4	0.0	-1,512.5	1,512.5	0.00	0.00	0.00
4,400.0	28.09	270.00	4,038.7	0.0	-1,559.6	1,559.6	0.00	0.00	0.00
4,492.2	28.09	270.00	4,120.0	0.0	-1,603.0	1,603.0	0.00	0.00	0.00
<b>La Sal LS</b>									
4,500.0	28.09	270.00	4,126.9	0.0	-1,606.7	1,606.7	0.00	0.00	0.00
4,600.0	28.09	270.00	4,215.1	0.0	-1,653.8	1,653.8	0.00	0.00	0.00
4,700.0	28.09	270.00	4,303.3	0.0	-1,700.9	1,700.9	0.00	0.00	0.00
4,800.0	28.09	270.00	4,391.5	0.0	-1,748.0	1,748.0	0.00	0.00	0.00
4,900.0	28.09	270.00	4,479.7	0.0	-1,795.1	1,795.1	0.00	0.00	0.00
5,000.0	28.09	270.00	4,568.0	0.0	-1,842.1	1,842.1	0.00	0.00	0.00
5,013.6	28.09	270.00	4,580.0	0.0	-1,848.6	1,848.6	0.00	0.00	0.00
<b>Ismay Mbr</b>									
5,100.0	28.09	270.00	4,656.2	0.0	-1,889.2	1,889.2	0.00	0.00	0.00
5,200.0	28.09	270.00	4,744.4	0.0	-1,936.3	1,936.3	0.00	0.00	0.00
5,300.0	28.09	270.00	4,832.6	0.0	-1,983.4	1,983.4	0.00	0.00	0.00
5,400.0	28.09	270.00	4,920.8	0.0	-2,030.5	2,030.5	0.00	0.00	0.00
5,500.0	28.09	270.00	5,009.1	0.0	-2,077.6	2,077.6	0.00	0.00	0.00
5,512.4	28.09	270.00	5,020.0	0.0	-2,083.4	2,083.4	0.00	0.00	0.00
<b>Akah Mbr</b>									
5,600.0	28.09	270.00	5,097.3	0.0	-2,124.7	2,124.7	0.00	0.00	0.00
5,700.0	28.09	270.00	5,185.5	0.0	-2,171.8	2,171.8	0.00	0.00	0.00
5,800.0	28.09	270.00	5,273.7	0.0	-2,218.9	2,218.9	0.00	0.00	0.00
5,831.3	28.09	270.00	5,301.3	0.0	-2,233.6	2,233.6	0.00	0.00	0.00
<b>Start Drop 1.5/100'</b>									
5,900.0	27.06	270.00	5,362.2	0.0	-2,265.4	2,265.4	1.50	-1.50	0.00
6,000.0	25.56	270.00	5,451.9	0.0	-2,309.7	2,309.7	1.50	-1.50	0.00
6,100.0	24.06	270.00	5,542.6	0.0	-2,351.7	2,351.7	1.50	-1.50	0.00
6,200.0	22.56	270.00	5,634.5	0.0	-2,391.3	2,391.3	1.50	-1.50	0.00
6,300.0	21.06	270.00	5,727.3	0.0	-2,428.4	2,428.4	1.50	-1.50	0.00
6,359.5	20.17	270.00	5,783.0	0.0	-2,449.4	2,449.4	1.50	-1.50	0.00
<b>Barker Creek</b>									
6,400.0	19.56	270.00	5,821.1	0.0	-2,463.1	2,463.1	1.50	-1.50	0.00
6,500.0	18.06	270.00	5,915.7	0.0	-2,495.4	2,495.4	1.50	-1.50	0.00
6,600.0	16.56	270.00	6,011.2	0.0	-2,525.1	2,525.1	1.50	-1.50	0.00
6,700.0	15.06	270.00	6,107.4	0.0	-2,552.4	2,552.4	1.50	-1.50	0.00
6,800.0	13.56	270.00	6,204.3	0.0	-2,577.1	2,577.1	1.50	-1.50	0.00
6,900.0	12.06	270.00	6,301.8	0.0	-2,599.3	2,599.3	1.50	-1.50	0.00
7,000.0	10.56	270.00	6,399.9	0.0	-2,618.9	2,618.9	1.50	-1.50	0.00
7,100.0	9.06	270.00	6,498.4	0.0	-2,635.9	2,635.9	1.50	-1.50	0.00
7,200.0	7.56	270.00	6,597.4	0.0	-2,650.4	2,650.4	1.50	-1.50	0.00
7,300.0	6.06	270.00	6,696.7	0.0	-2,662.2	2,662.2	1.50	-1.50	0.00
7,400.0	4.56	270.00	6,796.2	0.0	-2,671.5	2,671.5	1.50	-1.50	0.00
7,430.9	4.10	270.00	6,827.0	0.0	-2,673.8	2,673.8	1.50	-1.50	0.00
<b>Alkali Gulch</b>									
7,500.0	3.06	270.00	6,896.0	0.0	-2,678.1	2,678.1	1.50	-1.50	0.00
7,600.0	1.56	270.00	6,995.9	0.0	-2,682.2	2,682.2	1.50	-1.50	0.00
7,700.0	0.06	270.00	7,095.9	0.0	-2,683.6	2,683.6	1.50	-1.50	0.00



# Crescent Directional Drilling L.P.

## Planning Report



Whiting Petroleum Corporation

**Database:** EDM 2003.16 Single User Db  
**Company:** Whiting Petroleum  
**Project:** San Juan, UT  
**Site:** Hatch Point  
**Well:** Threemile 12-14D  
**Wellbore:** Wellbore #1  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well Threemile 12-14D  
**TVD Reference:** WELL @ 0.0ft (Original Well Elev)  
**MD Reference:** WELL @ 0.0ft (Original Well Elev)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature

### Planned Survey

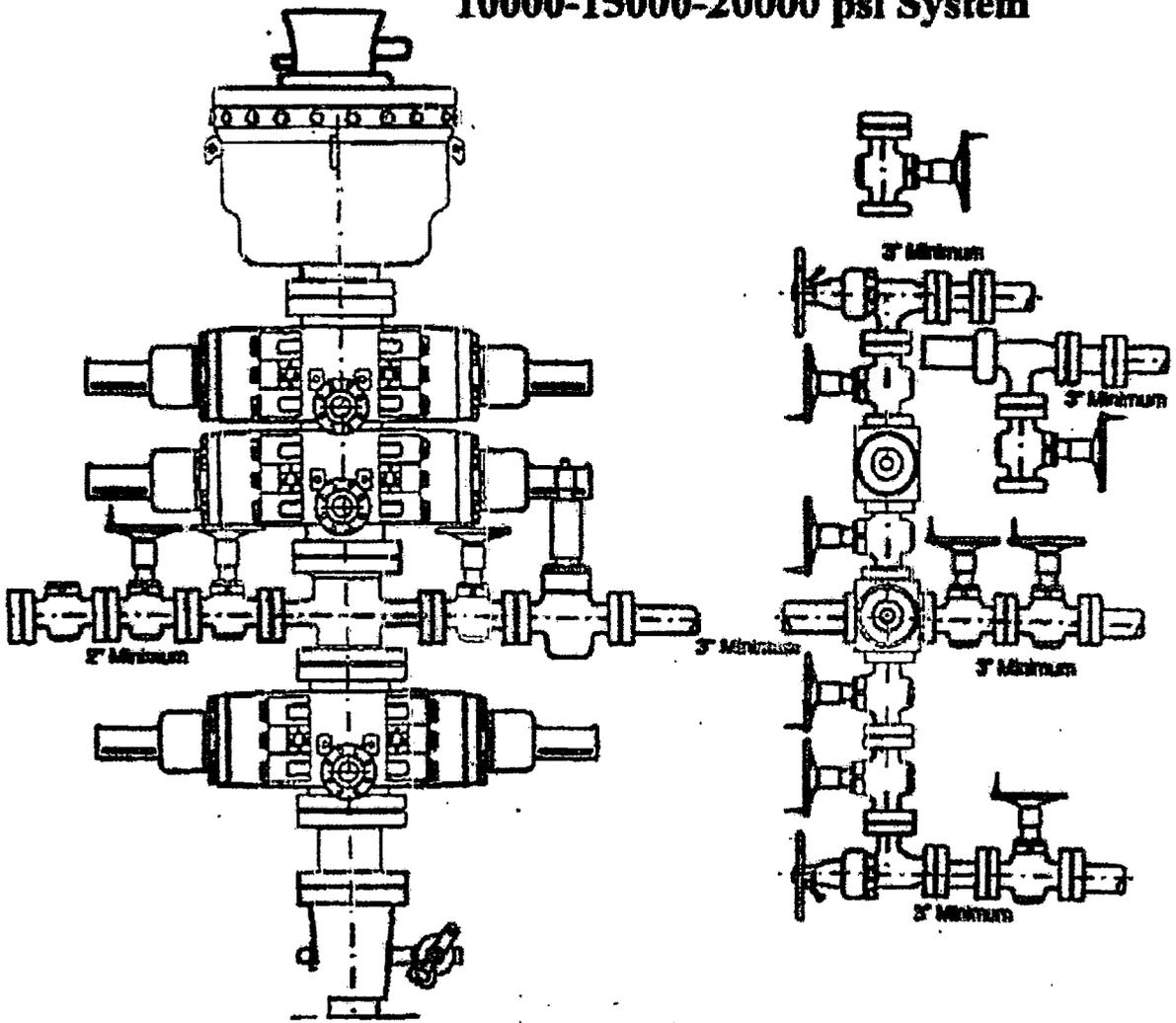
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
7,704.1	0.00	0.00	7,100.0	0.0	-2,683.6	2,683.6	1.50	-1.50	0.00
<b>EOD</b>									
7,730.1	0.00	0.00	7,126.0	0.0	-2,683.6	2,683.6	0.00	0.00	0.00
<b>Cane Creek</b>									
7,800.0	0.00	0.00	7,195.9	0.0	-2,683.6	2,683.6	0.00	0.00	0.00
7,900.0	0.00	0.00	7,295.9	0.0	-2,683.6	2,683.6	0.00	0.00	0.00
7,953.1	0.00	0.00	7,349.0	0.0	-2,683.6	2,683.6	0.00	0.00	0.00
<b>Pinkerton</b>									
8,000.0	0.00	0.00	7,395.9	0.0	-2,683.6	2,683.6	0.00	0.00	0.00
8,100.0	0.00	0.00	7,495.9	0.0	-2,683.6	2,683.6	0.00	0.00	0.00
8,140.1	0.00	0.00	7,536.0	0.0	-2,683.6	2,683.6	0.00	0.00	0.00
<b>Leadville</b>									
8,200.0	0.00	0.00	7,595.9	0.0	-2,683.6	2,683.6	0.00	0.00	0.00
8,300.0	0.00	0.00	7,695.9	0.0	-2,683.6	2,683.6	0.00	0.00	0.00
8,400.0	0.00	0.00	7,795.9	0.0	-2,683.6	2,683.6	0.00	0.00	0.00
8,500.0	0.00	0.00	7,895.9	0.0	-2,683.6	2,683.6	0.00	0.00	0.00
8,600.0	0.00	0.00	7,995.9	0.0	-2,683.6	2,683.6	0.00	0.00	0.00
8,697.1	0.00	0.00	8,093.0	0.0	-2,683.6	2,683.6	0.00	0.00	0.00
<b>Ouray</b>									
8,700.0	0.00	0.00	8,095.9	0.0	-2,683.6	2,683.6	0.00	0.00	0.00
8,800.0	0.00	0.00	8,195.9	0.0	-2,683.6	2,683.6	0.00	0.00	0.00
8,854.1	0.00	0.00	8,250.0	0.0	-2,683.6	2,683.6	0.00	0.00	0.00
<b>TD - Threemile 12-14</b>									

### Targets

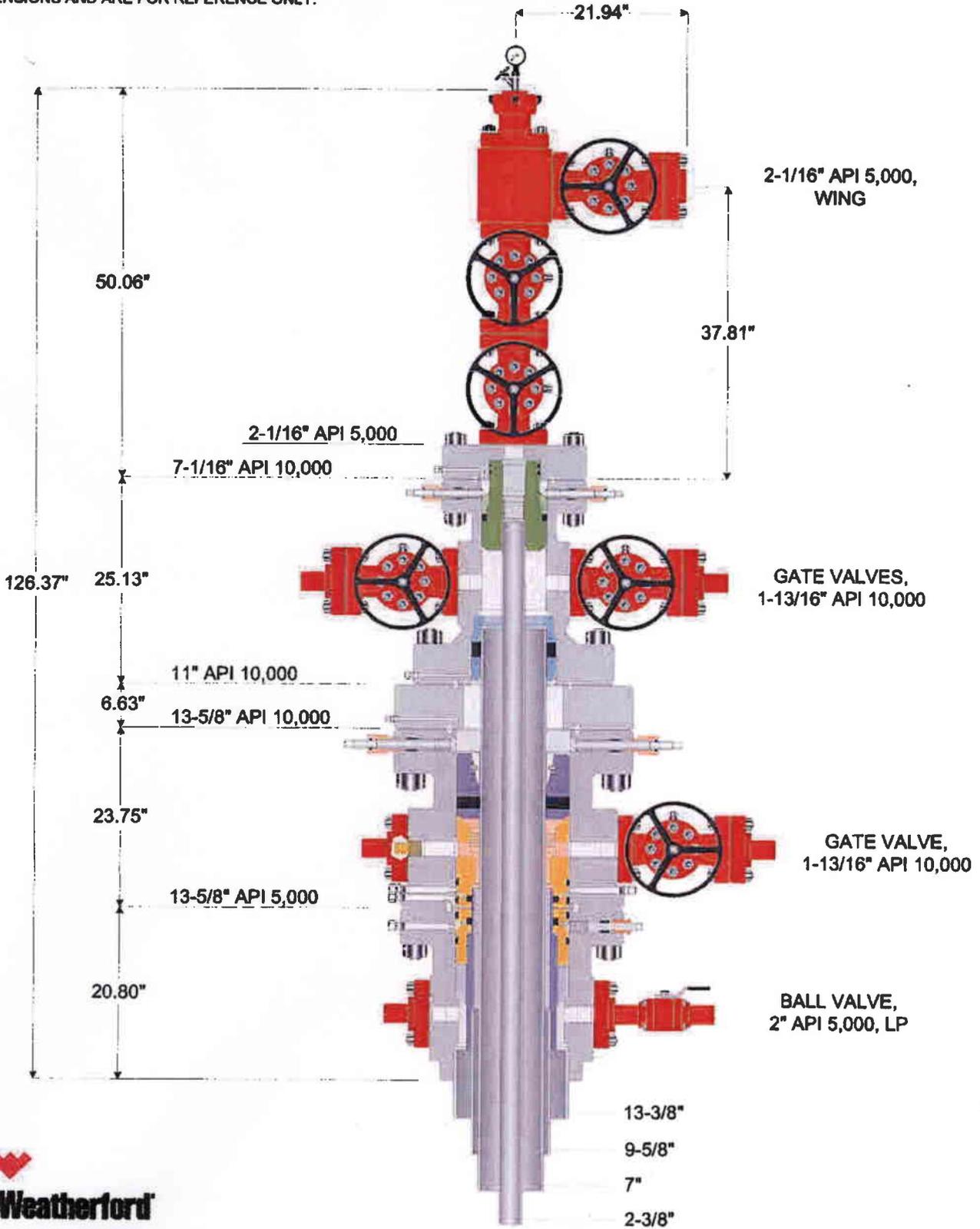
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (m)	Easting (m)	Latitude	Longitude
Threemile 12-14	0.00	0.00	8,250.0	0.0	-2,683.6	1,369,752.26	778,311.75	48° 54' 21.580 N	109° 14' 38.130 W
- hit/miss target - Shape - plan hits target - Circle (radius 50.0)									

**Standard Triple Choke-Triple Ram BOP Assembly**

**10000-15000-20000 psi System**



THIS DRAWING IS NOT TO SCALE. THE DIMENSIONS REFLECTED ON THIS DRAWING ARE ESTIMATED DIMENSIONS AND ARE FOR REFERENCE ONLY.



**DRAWING A**

Customer: WHITING PETROLEUM CORP.

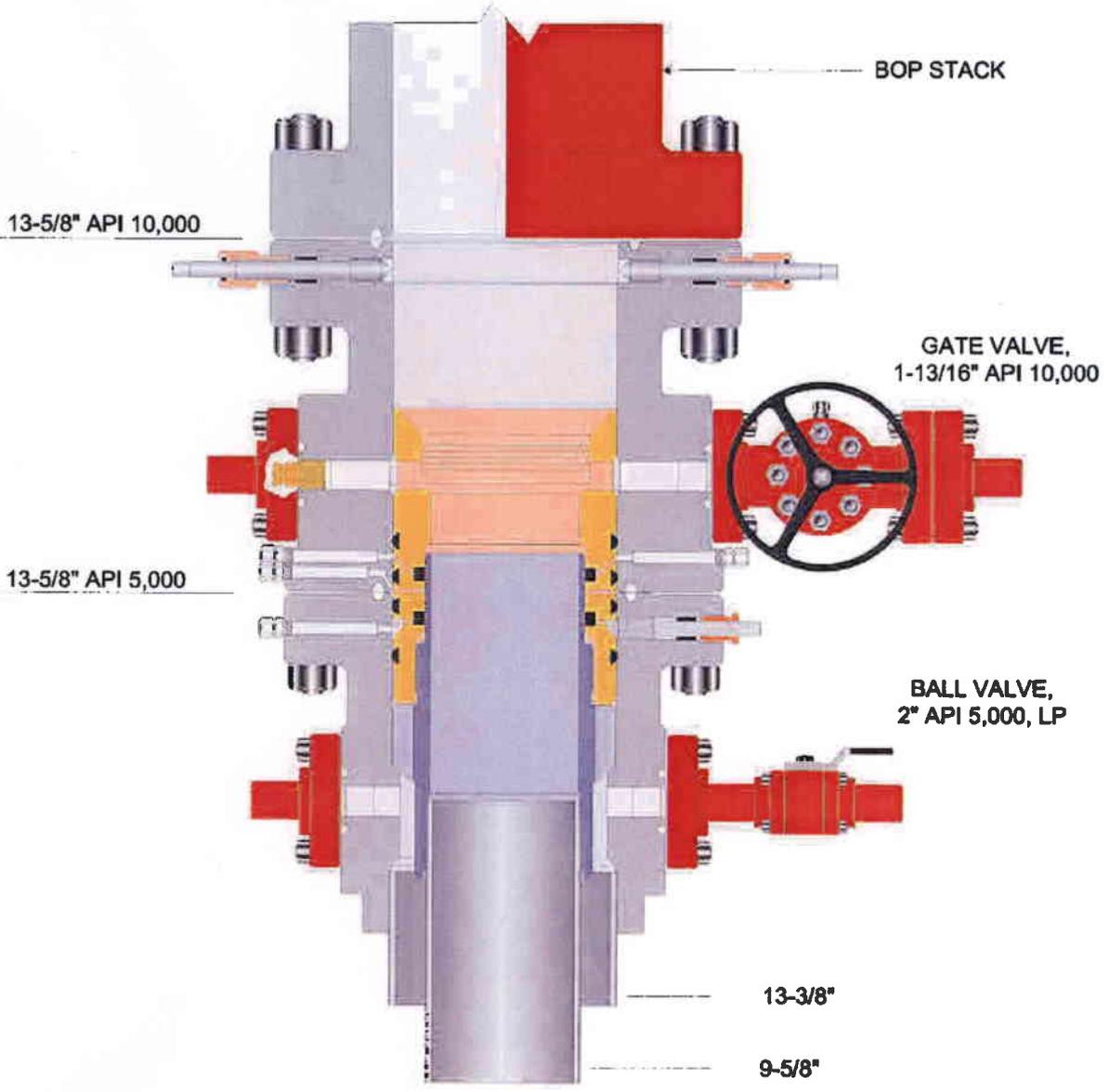
Tender, Project or Well: MILE #43-18H  
HATCH POINT PROJECT

Date: 7-21-2008

Quote: 20555  
Project: 9470

Drawn By: BD

THIS DRAWING IS NOT TO SCALE. THE DIMENSIONS REFLECTED ON THIS DRAWING ARE ESTIMATED DIMENSIONS AND ARE FOR REFERENCE ONLY.



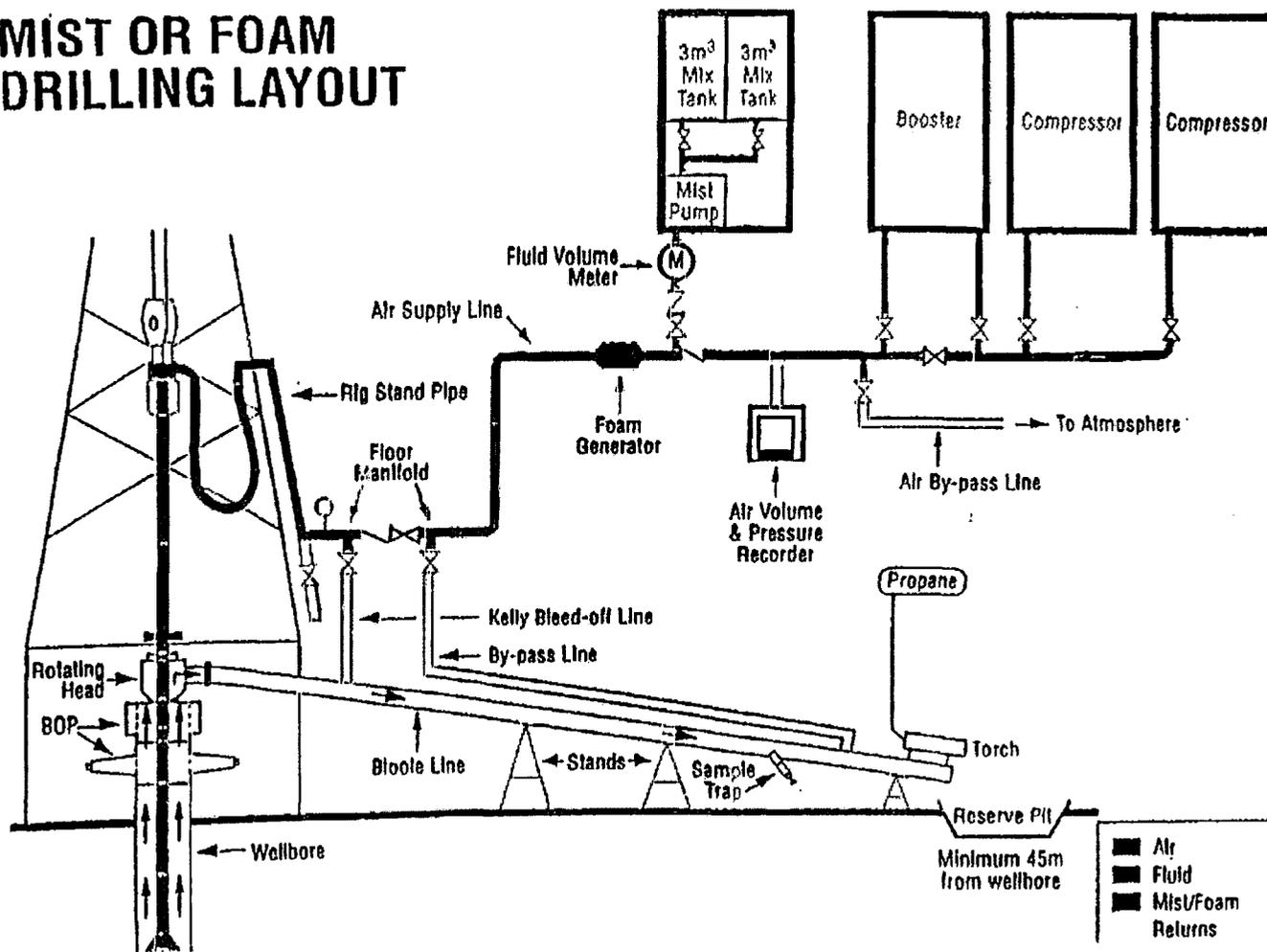
▲



<b>Customer:</b> WHITING PETROLEUM CORP.	<b>Tender, Project or Well:</b> MILE #43-18H HATCH POINT PROJECT	<b>Date:</b> 8-11-2008	<b>Quote:</b> 20555 <b>Project:</b> 9470	<b>Drawn By:</b> BD
---	--	---------------------------	---	------------------------

# MIST OR FOAM DRILLING LAYOUT

LAYOUT # 2



## 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 1/2" bore Cylinder 3: 8 1/4" bore Cylinder 4: 4 3/4" 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.±

WHITING OIL & GAS CORPORATION  
 THREEMILE #12-14D  
 SECTION 14, T.29 S., R.21 E., S.L.B. & M.

ELEV. UNGRADED GROUND AT WELL = 6313.80  
 ELEV. GRADED GROUND AT WELL = 6313.00

LENGTH OF NEW ACCESS ROAD TO BE  
 CONSTRUCTED: 1531.2 FEET

LENGTH OF EXISTING ROADS TO BE  
 UPGRADED: 4482.76 FEET

MAXIMUM TOTAL DISTURBED: 31'

MAXIMUM TRAVEL SURFACE WIDTH: 12'  
 TRAVEL LANE, 22' AT TRUCK TURNOUTS.

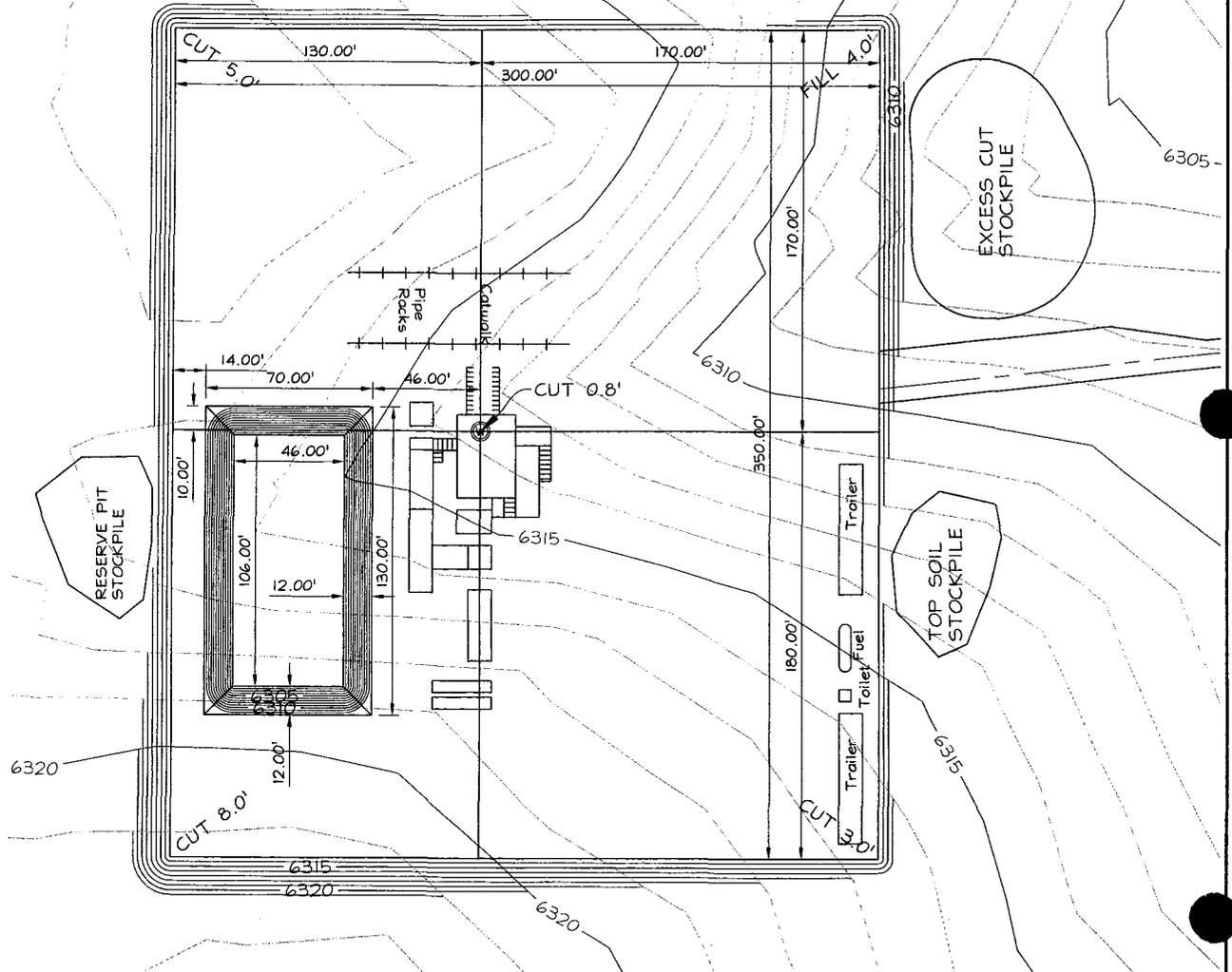
MAXIMUM GRADES: 4%

NUMBER OF TRUCK TURNOUTS: 7 TOTAL

**APPROXIMATE YARDAGE**

(6") TOPSOIL STRIPPING = 1,945 CU. YDS.  
 REMAINING LOCATION = 14,054 CU. TDS.  
 TOTAL CUT = 15,999 CU. YDS.  
 TOTAL FILL = 1,911 CU. TDS.  
 \*FILL IS UNADJUSTED

TOTAL PIT CAPACITY WITH 2' FREEBOARD = 14,628 bbls  
 TOTAL PIT VOLUME = 3,042 CU. YDS.



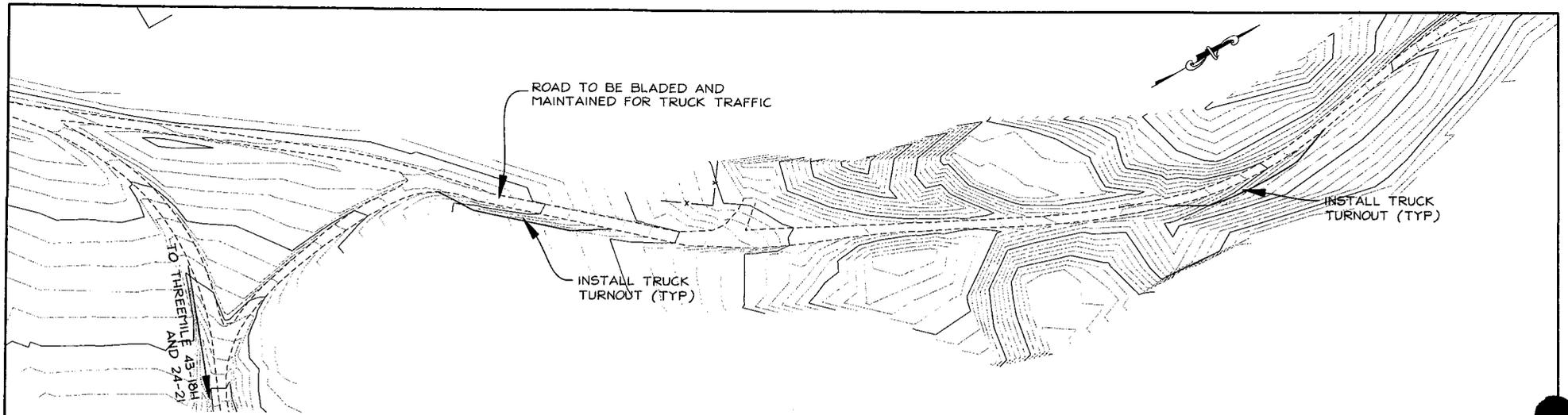
RIG LAYOUT/  
 CONSTRUCTION  
 DIAGRAM EXHIBIT

Savage Surveying, Inc.



THREEMILE #12-14D  
 WHITING OIL & GAS CORPORATION

ENGINEER ---	SCALE 1" = 50'	SHEET NO.
CHECKED R.W.S.	PROJN: 0804-012S DWG.NM: 0804-012s	PAD
DRAWN A.S.A.	DATE 06-01-08	



ROAD DESIGN  
EXHIBIT

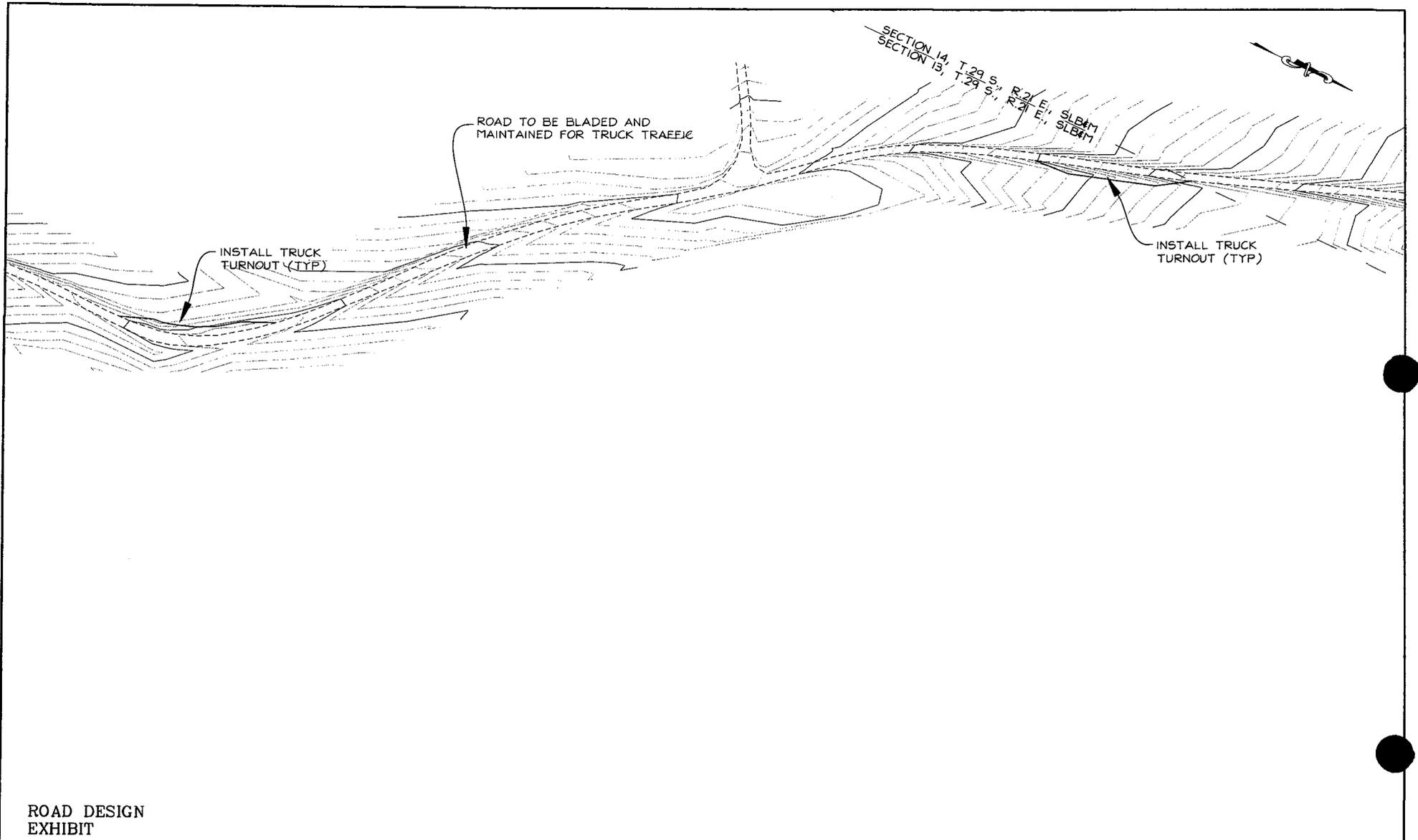
Savage Surveying, Inc.

1925 Sutter Industrial park Rd.  
Richfield, UT 84701  
Office: 801-644-6335  
Fax: 801-644-0230



THREEMILE #12-14D  
WHITING OIL & GAS CORPORATION

ENGINEER ---	SCALE 1" = 100'	SHEET NO.
CHECKED R.W.S.	PROJ# 0804-012S DWG.#M: 0804-012s	RD-1
DRAWN A.S.A.	DATE 06-02-08	



ROAD DESIGN  
EXHIBIT

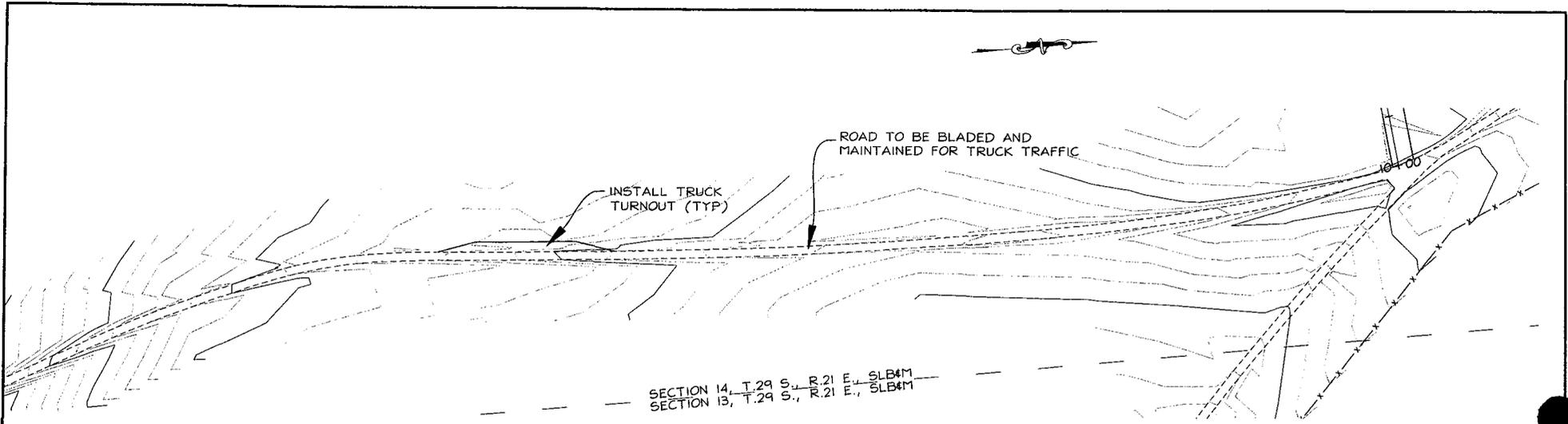
Savage Surveying, Inc.

1925 South Industrial Park Rd.  
Richfield, UT 84701  
Office: 801-884-6335  
Fax: 801-884-0200



THREEMILE #12-14D  
WHITING OIL & GAS CORPORATION

ENGINEER ---	SCALE 1" = 100'	SHEET NO.
CHECKED R.W.S.	PROJ#: 0804-012S DWG.NM#: 0804-012s	RD-2
DRAWN A.S.A.	DATE 06-02-08	



ROAD DESIGN  
EXHIBIT

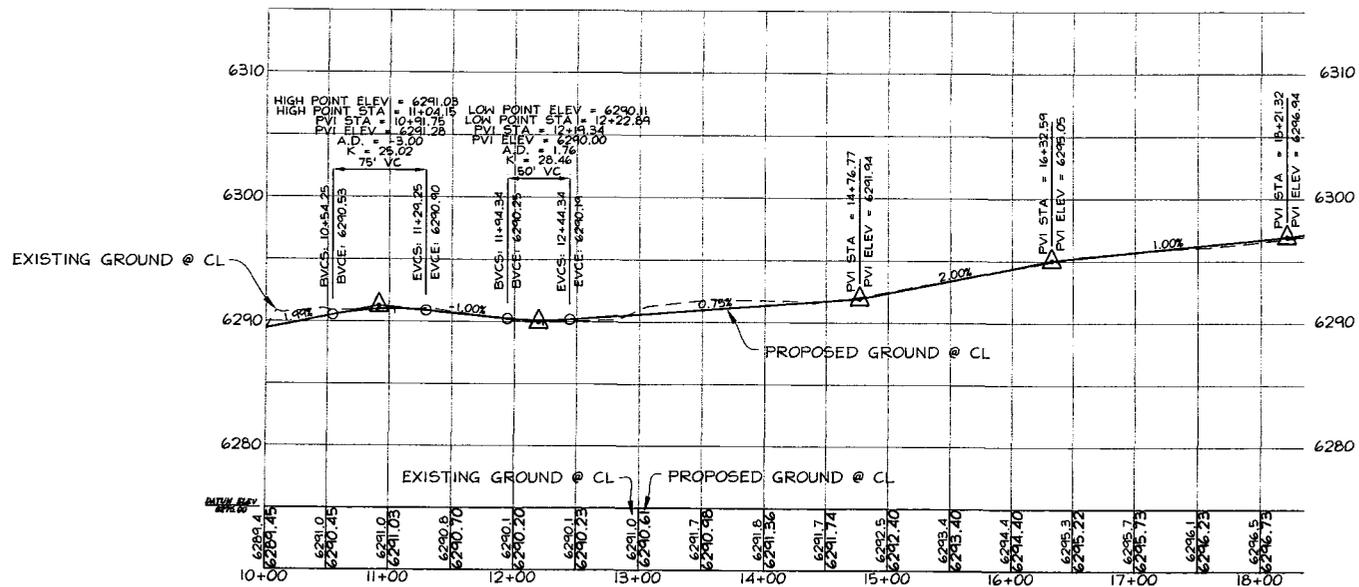
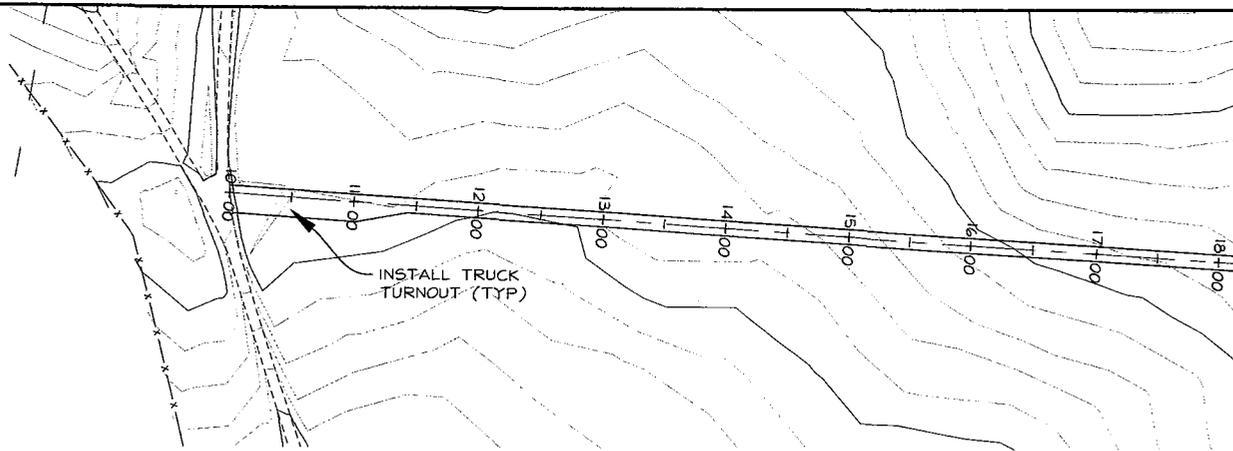
Savage Surveying, Inc.

1925 South Industrial park Rd.  
Richfield, UT 84701  
Office: 801-884-6335  
Fax: 801-884-0500



THREEMILE #12-14D  
WHITING OIL & GAS CORPORATION

ENGINEER ---	SCALE 1" = 100'	SHEET NO.
CHECKED R.W.S.	PROJ#: 0804-012S DWG.NM: 0804-012s	RD-3
DRAWN A.S.A.	DATE 06-02-08	



ROAD DESIGN  
EXHIBIT

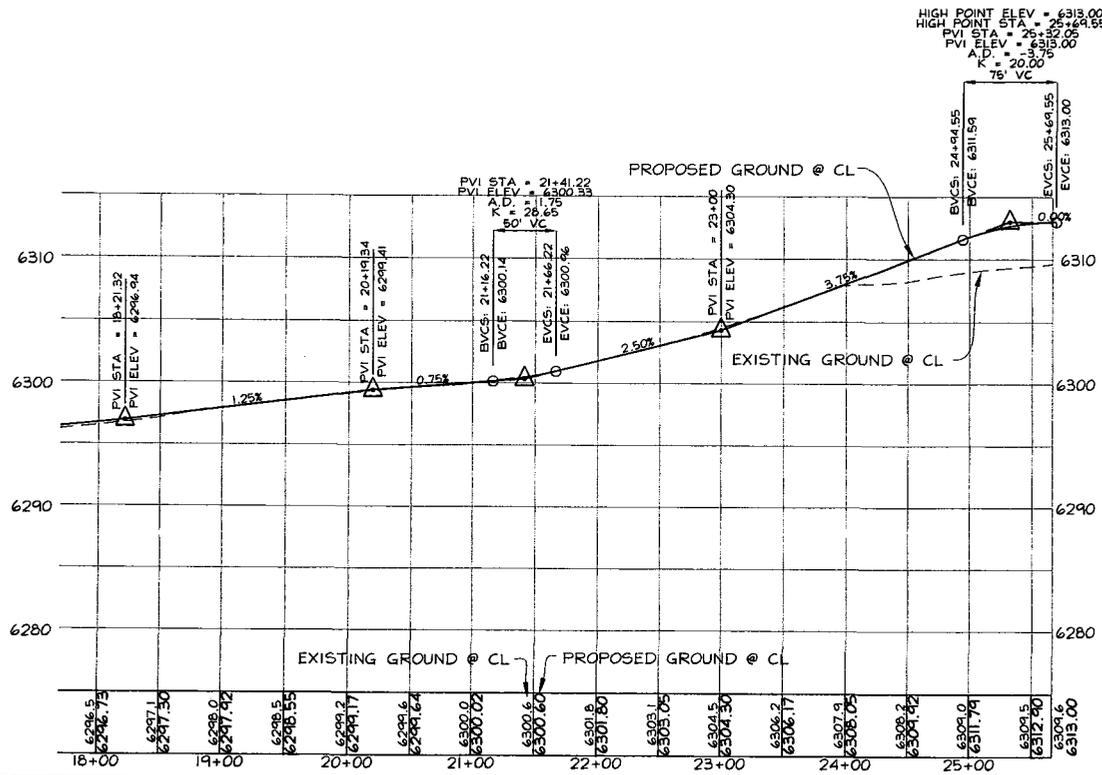
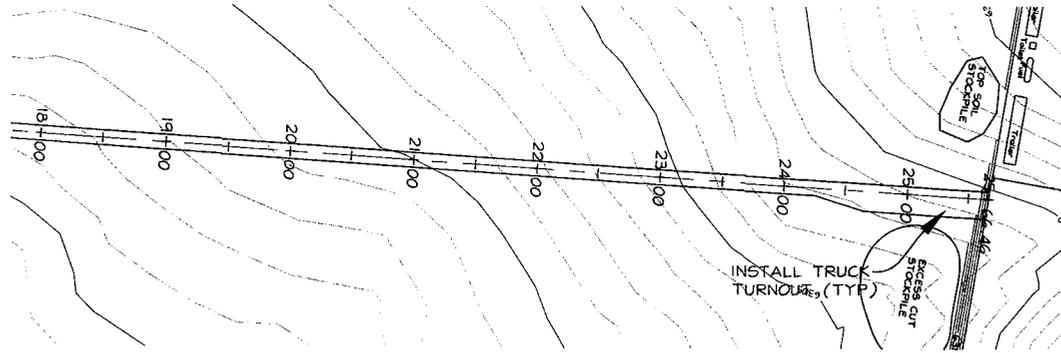
Savage Surveying, Inc.

1925 South Industrial Park Rd.  
Richfield, UT 84701  
Office: 801-633-6335  
Fax: 801-633-0320



THREEMILE #12-14D  
WHITING OIL & GAS CORPORATION

ENGINEER	SCALE	SHEET NO.
---	1" = 100'	
CHECKED	PROJ#:	RD-4
R.W.S.	0804-012S	
DRAWN	DWG.#:	
A.S.A.	DATE	06-02-08



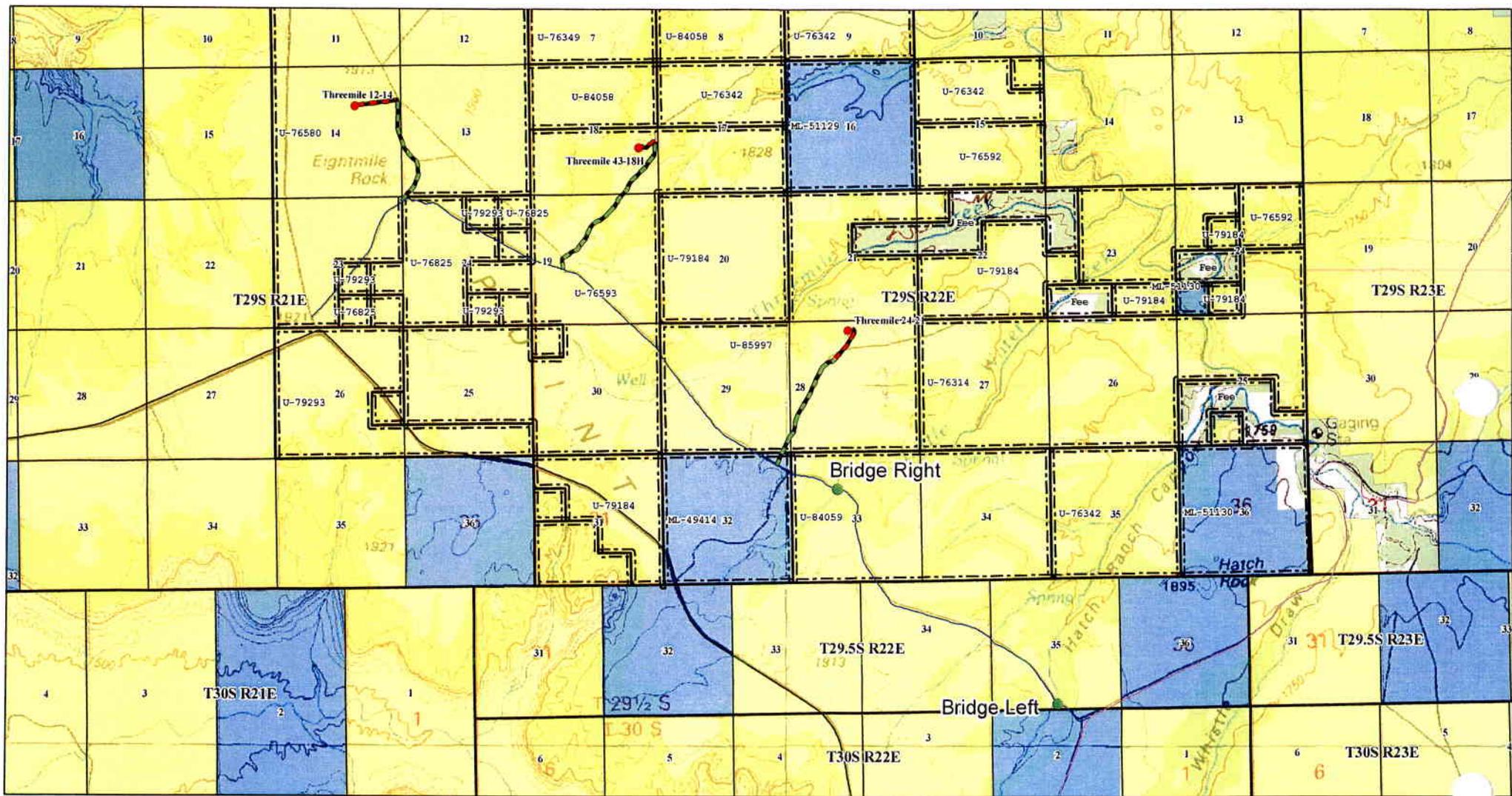
ROAD DESIGN  
EXHIBIT

Savags Surveying, Inc.



THREEMILE #12-14D  
WHITING OIL & GAS CORPORATION

ENGINEER	SCALE	SHEET NO.
---	1" = 100'	RD-5
CHECKED	PROJ: 0804-012S	
R.W.S.	DWG. NO. 0804-012S	
DRAWN	DATE	
A.S.A.	06-02-08	



**Legend**

Bridges	New Road
Wells	Upgrade Road
BIG INDIAN	Leases
LOOKING GLASS	BLM
NEEDLES OVERLOOK	Private
US HWY	State

1:45,000  
 Datum NAD 83  
 Zone 12

**Whiting Oil and Gas**

Three Mile Wells

**WESTERN LAND SERVICES**  
 Richfield, UT 84701 (435) 896-5501

Prepared By: DTJ      Date: Sept 9, 2008

No warranty is made for data usage purposes other than those intended by Western Land Services. Maps are created as part of a GIS that compiles records, information, and data from various sources. This data experiences frequent updates and accordingly, WLS shall not be liable for any errors or omissions herein.

**WORKSHEET  
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 09/11/2008

API NO. ASSIGNED: 43-037-31899
--------------------------------

WELL NAME: THREEMILE 12-14D  
 OPERATOR: WHITING OIL & GAS ( N2680 )  
 CONTACT: GLEN NEBEKER

PHONE NUMBER: 303-837-1661

PROPOSED LOCATION:

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

*Swau*

SWNE 14 290S 210E  
 SURFACE: 1580 FNL 1900 FEL  
 BOTTOM: 1580 FNL 0690 FWL  
 COUNTY: SAN JUAN  
 LATITUDE: 38.28212 LONGITUDE: -109.5754  
 UTM SURF EASTINGS: 624603 NORTHINGS: 4237871  
 FIELD NAME: WILDCAT ( 1 )

LEASE TYPE: 1 - Federal  
 LEASE NUMBER: UTU-76580  
 SURFACE OWNER: 1 - Federal

PROPOSED FORMATION: OURAY  
 COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

- Plat
- Bond: Fed[1] Ind[] Sta[] Fee[]  
(No. UTB000148 )
- Potash (Y/N)
- Oil Shale 190-5 (B) or 190-3 or 190-13
- Water Permit  
(No. MUNICIPAL )
- RDCC Review (Y/N)  
(Date: \_\_\_\_\_ )
- Fee Surf Agreement (Y/N)
- Intent to Commingle (Y/N)

LOCATION AND SITING:

- R649-2-3.
- Unit: THREEMILE
- 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- Seismic Approval  
2- Spacing Strip*

API Number: 4303731899

Well Name: THREEMILE 12-14D

Township 29.0 S Range 21.0 E Section 14

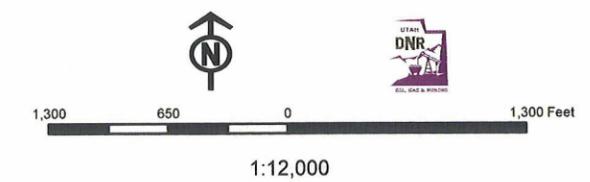
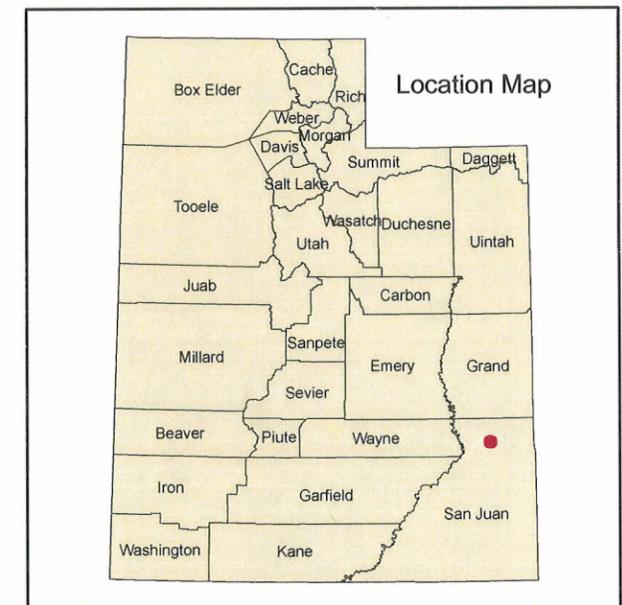
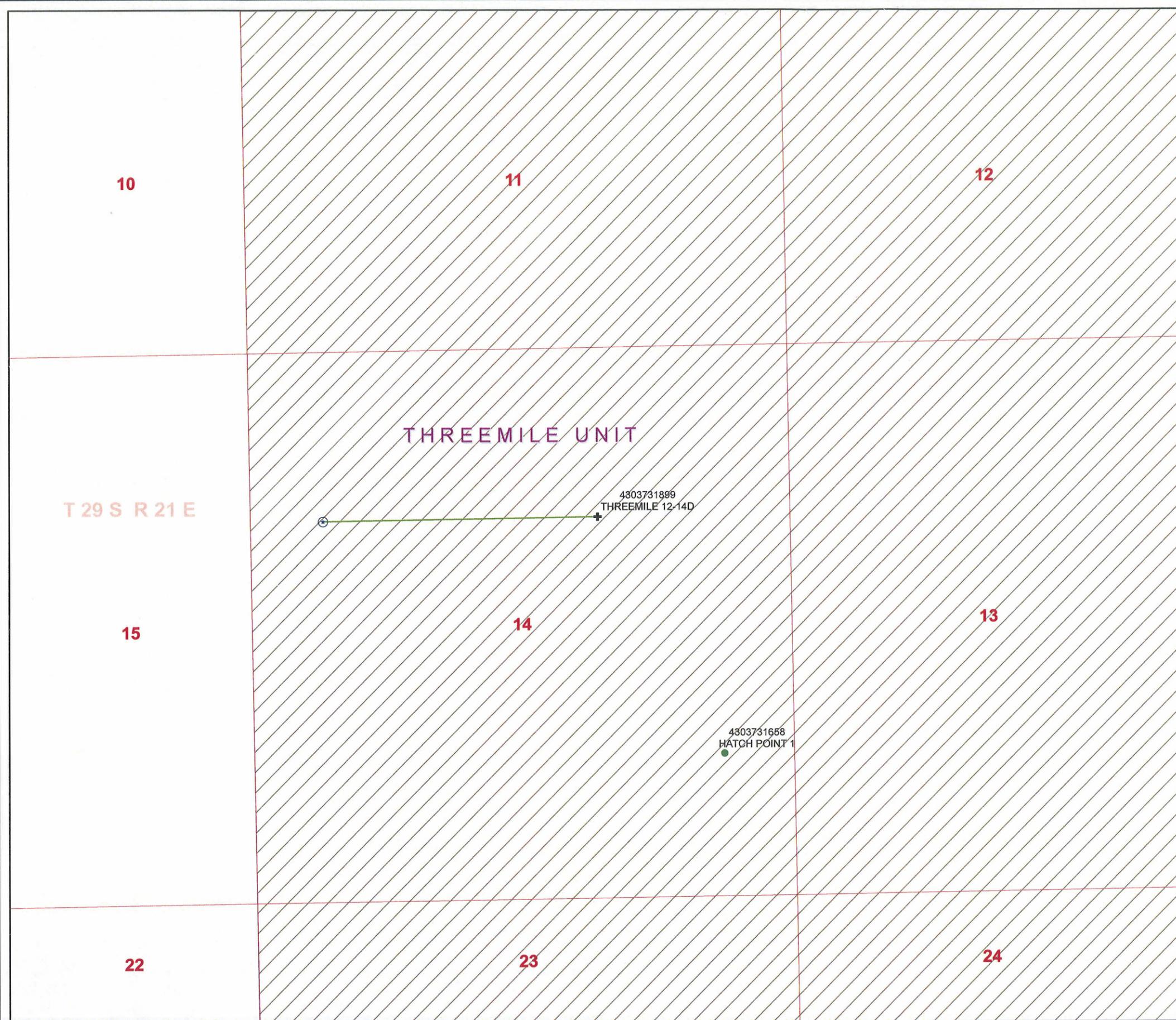
Meridian: SLBM

Operator: WHITING OIL & GAS CORPORATION

Map Prepared:  
Map Produced by Diana Mason

Units Wells Query Events

- |               |                      |
|---------------|----------------------|
| <b>STATUS</b> | ✕ <all other values> |
| ACTIVE        |                      |
| EXPLORATORY   |                      |
| GAS STORAGE   |                      |
| NF PP OIL     |                      |
| NF SECONDARY  |                      |
| PI OIL        |                      |
| PP GAS        |                      |
| PP GEOTHERML  |                      |
| PP OIL        |                      |
| SECONDARY     |                      |
| TERMINATED    |                      |
| <b>Fields</b> |                      |
| <b>STATUS</b> |                      |
| ACTIVE        |                      |
| COMBINED      |                      |
| Sections      |                      |
| Township      |                      |
|               | GIS_STAT_TYPE        |
|               | <Null>               |
|               | APD                  |
|               | DRL                  |
|               | GI                   |
|               | GS                   |
|               | LA                   |
|               | NEW                  |
|               | OPS                  |
|               | PA                   |
|               | PGW                  |
|               | POW                  |
|               | RET                  |
|               | SGW                  |
|               | SOW                  |
|               | TA                   |
|               | TW                   |
|               | WD                   |
|               | WI                   |
|               | WS                   |
|               | Bottom Hole Location |



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office  
P.O. Box 45155  
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:  
3160  
(UT-922)

September 24, 2008

### Memorandum

To: Assistant Field Office Manager Resources, Moab District  
From: Michael Coulthard, Petroleum Engineer  
Subject: 2008 Plan of Development Threemile Unit,  
San Juan County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2008 within the Threemile Unit, San Juan County Utah.

API#	WELL NAME	LOCATION
(Propozed PZ Ouray)		
43-037-31899	Threemile	12-14D Sec 14 T29S R21E 1580 FNL 1900 FEL BHL Sec 14 T29S R21E 1580 FNL 0690 FWL
43-037-31900	Threemile	24-21D Sec 28 T29S R22E 0391 FNL 2359 FWL BHL Sec 21 T29S T22E 0750 FSL 2375 FWL

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

/s/ Michael L. Coulthard

bcc: File – Threemile Unit  
Division of Oil Gas and Mining  
Central Files  
Agr. Sec. Chron  
Fluid Chron

MCoulthard:mc:9-24-08



JON M. HUNTSMAN, JR.  
Governor

GARY R. HERBERT  
Lieutenant Governor

**State of Utah**  
DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

**Division of Oil, Gas and Mining**

JOHN R. BAZA  
Division Director

September 25, 2008

Whiting Oil & Gas Corporation  
1700 Broadway, Ste. 2300  
Denver, CO 80290

Re: Threemile 12-14D Well, Surface Location 1580' FNL, 1900' FEL, SW NE, Sec. 14, T. 29 South, R. 21 East, Bottom Location 1580' FNL, 690' FWL, SW NW, Sec. 14, T. 29 South, R. 21 East, San Juan 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.

Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby 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 43-037-31899.

Sincerely,

Gil Hunt  
Associate Director

pab  
Enclosures

cc: San Juan County Assessor  
Bureau of Land Management, Moab Office



Operator: Whiting Oil & Gas Corporation  
Well Name & Number Threemile 12-14D  
API Number: 43-037-31899  
Lease: UTU-76580

Surface Location: SW NE      Sec. 14      T. 29 South      R. 21 East  
Bottom Location: SW NW      Sec. 14      T. 29 South      R. 21 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 within 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 work (801) 538-5281      home (801) 733-0983

#### 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. 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.
6. 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.

# COPY

Form 3160-3  
(February 2005)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

### APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED  
OMB No. 1004-0137  
Expires March 31, 2007

5. Lease Serial No.  
**UTU-76580**

6. If Indian, Allottee or Tribe Name  
N/A

7. If Unit or CA Agreement, Name and No.  
**Threemile Unit UTU-84722X**

8. Lease Name and Well No.  
**Threemile 12-14D**

9. API Well No.  
**43 037 31899**

10. Field and Pool, or Exploratory  
**Exploratory**

11. Sec., T. R. M. or Blk. and Survey or Area  
**Sec 14 T29S R21E**

12. County or Parish  
**San Juan**

13. State  
**UT**

1a. Type of work:  DRILL  REENTER

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

2. Name of Operator  
**Whiting Oil and Gas Corporation, Attn. Scott Webb**

3a. Address **1700 Broadway, Suite 2300  
Denver, CO 80290-2300**

3b. Phone No. (include area code)  
**(303)837-1661**

4. Location of Well (Report location clearly and in accordance with any State requirements.)\*  
At surface **1,580' FNL & 1,900' FEL**  
At proposed prod. zone **1,580' FNL & 690' FWL**

14. Distance in miles and direction from nearest town or post office\*  
**approximately 17 miles SW of LaSal, Utah**

15. Distance from proposed\* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) **3,300' FWL**

16. No. of acres in lease  
**3760.61**

17. Spacing Unit dedicated to this well  
**40 Acres**

18. Distance from proposed location\* to nearest well, drilling, completed, applied for, on this lease, ft. **2,600'**

19. Proposed Depth  
**8,250'**

20. BLM/BIA Bond No. on file  
**UTB000148**

21. Elevations (Show whether DF, KDB, RT, GL, etc.)  
**6,313 GR**

22. Approximate date work will start\*  
**10/30/2008**

23. Estimated duration  
**30 days**

#### 24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, must 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 must 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 BLM.

25. Signature  Name (Printed/Typed) **Glen T. Nebeker** Date **9-9-08**

Title **NEPA Specialist/Project Manager/Authorized Agent**

Approved by (Signature) **/s/ A. Lynn Jackson**

Name (Printed/Typed) **/s/ A. Lynn Jackson**

Date **11/24/08**

Title **Assistant Field Manager,  
Division of Resources**

Office **Division of Resources  
Mcab Field Office**

Application approval 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.  
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 page 2)

## CONDITIONS OF APPROVAL ATTACHED

2008 SEP 11 PM 1:05

MCAB FIELD OFFICE

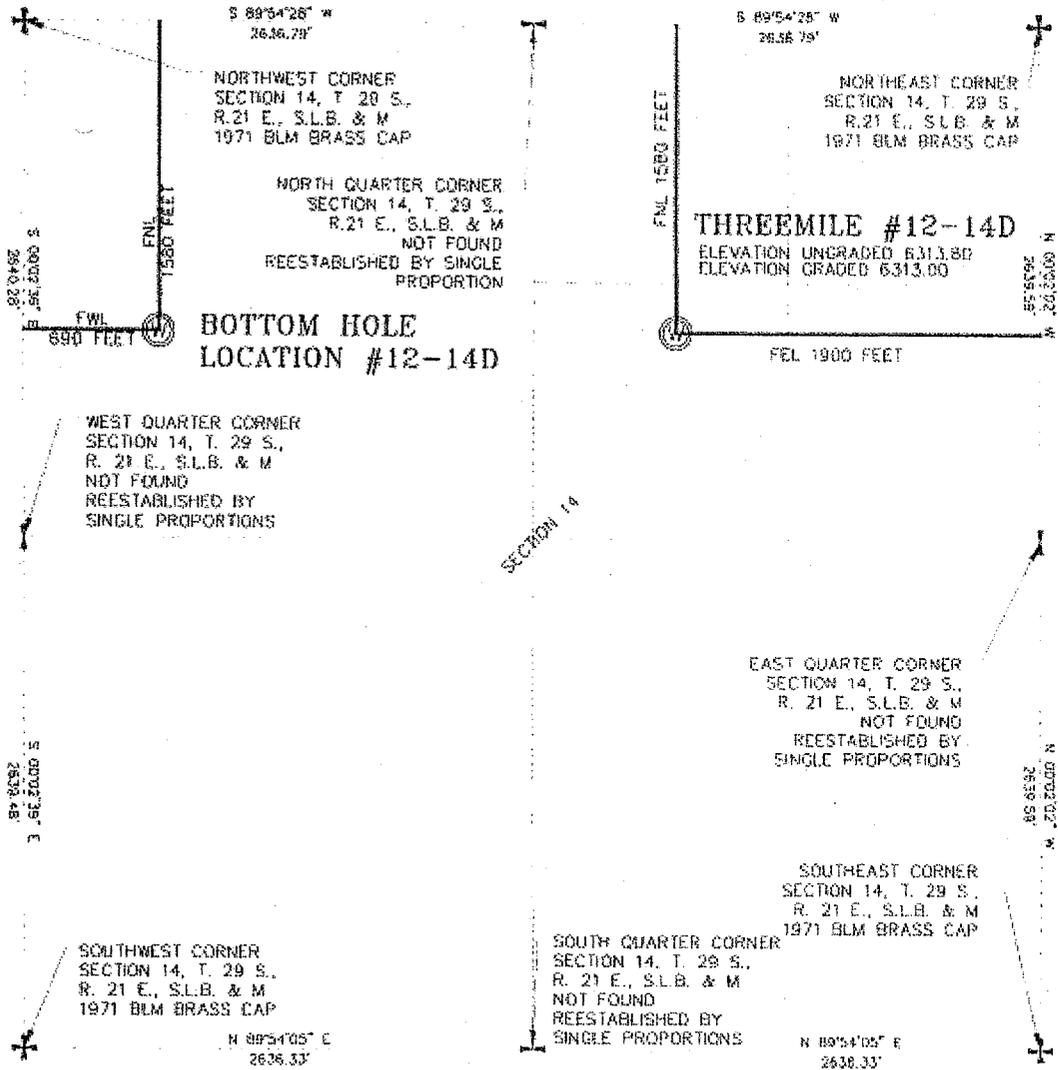
RECEIVED

## RECEIVED

DEC 01 2008

DIV. OF OIL, GAS & MINING

# SECTION 14, T.29 S., R.21 E., S.L.B. & M.



PROJECT

**WHITING OIL & GAS CORPORATION**  
 WELL LOCATION, LOCATED AS SHOWN  
 IN THE SW 1/4 OF THE NE 1/4 OF  
 SECTION 14, T.29 S., R.21 E., S.L.B. & M.  
 SAN JUAN COUNTY, UTAH

## LEGEND

- SECTION CORNER AS NOTED
- QUARTER CORNER AS NOTED
- PROPOSED WELL LOCATION

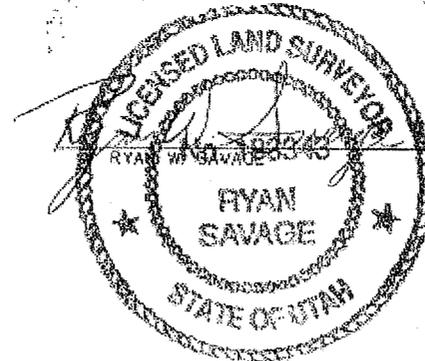
NOTE: THE PURPOSE OF THIS SURVEY WAS TO PLAT  
 WHITING OIL AND GAS THREEMILE 12-14D  
 LOCATED IN THE SE 1/4 OF THE NE 1/4 OF  
 SECTION 14, T.29 S., R.21 E., S.L.B. & M.  
 SAN JUAN COUNTY, UTAH.

## BASIS OF ELEVATION

ELEVATION BASED ON TRIANGULATION PINON2  
 LOCATED IN THE SE 1/4 OF SECTION 3, T.29 S.,  
 R.22 E., S.L.B. & M.  
 ELEVATION USED 6326.00

## CERTIFICATE

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



GRAPHIC SCALE



## BASIS OF BEARING

BASIS OF BEARING USED WAS  $S 89^{\circ}54'26'' W$  BETWEEN THE NORTHWEST CORNER  
 AND THE NORTHEAST CORNERS OF SECTION 14, T.29 S., R.21 E., S.L.B. & M.

WELL LATITUDE:  $48^{\circ}54'21.583'' N$  OR 48.905995  
 WELL LONGITUDE:  $109^{\circ}13'58.758'' W$  OR -109.232988

Savage Surveying, Inc.

1925 North Industrial Park Rd  
 Richfield, UT 84701  
 Office: 435-701-6635  
 Fax: 435-891-0630



WHITING GAS & OIL CORPORATION

THREEMILE 12-14D

DATE	BY	DATE	PROJECT NUMBER	SHEET NUMBER
09-06-2008	J.L.S.	09-06-2008	0804-0123	1

Whiting Oil & Gas Corporation

**Federal 12-14D**

Lease UTU76580

Threemile Unit

Location, Surface: SW/NE Sec. 14, T29S, R21E

Bottom-hole: SW/NW Sec. 14, T29S, R21E

San Juan County, Utah

**A COMPLETE COPY OF THIS APPROVED PERMIT and Conditions of Approval shall be maintained on location during all construction and drilling operations, and shall be available to contractors to ensure compliance.**

#### CONDITIONS OF APPROVAL

Approval of this application 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.

Be advised that Whiting Oil & Gas Corporation is considered to be the operator of the above well and is responsible under the terms and conditions of the lease for the operations conducted on the leased lands.

Bond coverage for this well is provided by **UTB000148** (Principal – Whiting Oil & Gas Corporation) via surety consent as provided for in 43 CFR 3104.2.

This office will hold the aforementioned operator and bond liable until the provisions of 43 CFR 3106.7-2 continuing responsibility are met.

This permit will be valid for a period of two years from the date of approval. An extension of this permit will be considered only if a written request is received prior to APD expiration. After permit termination, a new application must be filed for approval.

All lease operations will be conducted in full compliance with applicable regulations (43 CFR 3100), Onshore Oil and Gas Orders, lease terms, notices to lessees, and the approved plan of operations. The operator is fully responsible for the actions of subcontractors. Failure to comply with the provisions of this permit, including applicable regulations, stipulations, and/or approval conditions, will be considered a violation subject to the enforcement provisions of 43 CFR Subpart 3163.

## A. DRILLING PROGRAM

1. The proposed 10M BOP system is adequate for anticipated conditions, below the 9-5/8" intermediate casing point. Installation, components, testing and operation of the BOPE systems shall be in conformance with Onshore Oil and Gas Order No. 2.
2. Concurrent approval from the State of Utah, Division of Oil, Gas & Mining (DOGM) is required before conducting any surface disturbing activities.
3. Surface casing (13-3/8") shall be set not less than 50 feet into the Chinle Formation. The top of the Chinle is projected at a depth of 845 feet.
4. Drilling reports, which describe the activities of each day, shall be submitted to the BLM Moab Field Office on a weekly, or more frequent, basis. In addition to a daily summary of activities, drilling reports shall include the drilling fluid weight, details of casing and cement, water flows, lost circulation zones and any other information that would contribute to our understanding of drilling conditions.
5. A remote kill line, rated and tested to a minimum of 10,000 psi working pressure, shall run unobstructed to the edge of the substructure.
6. A mud-gas separator shall be installed prior to drilling out the intermediate casing shoe.
7. A pressure integrity test of the intermediate casing shoe shall be conducted prior to drilling more than 20 feet below the shoe (Onshore Order #2.III.B.1.i). The test shall expose the shoe to the mud weight equivalent anticipated to control the formation pressure at total well depth. This is not a bleed-off test, but rather, is intended to ensure the intermediate casing shoe can withstand anticipated pressures. The test shall be recorded in the driller log.
8. If the intermediate casing cement does not circulate to surface, a Cement Bond Log (CBL) or other appropriate tool for determining cement effectiveness shall be run.

## B. Surface

### **Cultural:**

1. To protect cultural Resources the operator shall: (1) have a pre-work conference between BLM, an approved archaeologist, and the construction contractor to discuss areas to be avoided, (2) an approved archaeologist monitoring construction for the bridge by-passes and the Threemile 24-21, (3) temporary fencing and flagging to keep vehicles and equipment out of certain areas, (4) notifying the contractor of his responsibilities for informing employees/sub-contractors of the potential for prosecution if cultural resources were disturbed, and (5) procedures for stopping work and notifying BLM if cultural resources were found while working on the project.
2. Should any cultural resources be unearthed, surface-disturbing activities would be re-routed to avoid or halted until the cultural sites/artifacts can be evaluated for significance, and a mitigation/salvage plan be formulated. These actions would successfully mitigate possible impacts to cultural resources such that detailed analysis is not required.

### **Paleontological Resources:**

1. Paleontological resources are not likely to be encountered but could be discovered during construction. Because of this the operator will; (1) with contractors, go over procedures for stopping work and notifying BLM if paleontological resources were found while working on the project, (2) notify the contractor of his responsibilities for informing employees/sub-contractors of the potential for prosecution if paleontological resources were disturbed.

### **Wildlife:**

1. In order to protect nesting raptors, no road or well pad construction, drilling or well completion operations, or construction of production facilities will be authorized between March 1 and August 31. No permanent facilities or construction activities would be allowed that could cause permanent abandonment of established nest sites and kit fox natal dens if facility or construction removed a nest or den or permanently interfered with nesting or dening activity. Most raptors typically require a ½ mile buffer except burrowing owls which require a ¼ mile buffer to protect nest site and nest activity. Raptor surveys would be required during breeding and nesting season by a qualified biologist. The restriction would reduce potential impacts to other bird species when the young would be raised. The limitation does not apply to maintenance and operation of producing wells. Exceptions will be granted to this limitation and will be specified in writing by the Moab Field Office.

### **Well Pad/Road Construction/Maintenance:**

1. All soil and gravel brought in from off site for road or pad construction need to come from a pit free of invasive, non-native species.
2. Impacts from new well pad and road construction would be minimized by appropriate drainage control (ie. water bars, low water crossings in ephemeral drainages, etc). If the wells go into production, mitigation of impacts to soils would include 1) upgrading roads to BLM Gold Book standards and 2) reclamation of any unused areas (ie. wellpads, unneeded road access). If the wells are not produced, then reclamation would mitigate and reduce impacts to soils.

3. The operator shall maintain the existing roads in a safe, usable condition, as directed by the Moab Field Office. The maintenance program shall include, but is not limited to, blading, ditching, installing culverts, and if needed, surfacing the road with rock materials. The operator shall conduct all activities associated with the San Juan County roads within the existing surface disturbances of the maintained roads. The operator shall repair all damages to the county roads resulting from traffic associated with constructing, drilling, and producing the well.
4. The operator shall not block access to roads that intersect with the main roads being used to drill this well. If blading the road for maintenance, the operator must make sure to remove any windrow that crosses another road.
5. The operator shall salvage the topsoil from entire disturbed area of the location prior to construction of the pad. This includes removal of topsoil from the areas where spoil piles will be stored.

**Well Pad and Facility Maintenance:**

1. The operator will paint all permanent (in place for 6 months or more) above ground structures a color that will match the surrounding environment. The color that has been chosen for this location is Juniper Green (see attached color chart).

**Wastes:**

1. All Federal and State laws would be followed regarding use, storage and disposal of hazardous materials and solid wastes.
2. No produced water or other fluids will be disposed on the well pad or roads.

**Soils/Dust:**

1. Dust control will be provided during construction and drilling operations by spraying fresh water on new road construction, roads being maintained or utilized, and the well pad as needed.

**Reclamation:**

1. Drill pad and new road to a non-producing well will be reclaimed. Reclamation should include removal of new road and the incorporation of a seed mix that would provide a vegetation structure as close to the existing plant community as possible.
2. At the end of drilling operations and prior to reclamation of the reserve pit, the top of the pit will be covered with netting of one inch or less to prevent access by birds while the pit is drying.
3. The pit will not be left open for more than 1 year from the completion of drilling activities. If necessary the pit fluids will be drained and then closed prior to the 1 year deadline.
4. For Interim Reclamation the operator will drill seed on the contour to a depth of 0.5 inch, followed by cultipaction to compact the seedbed, preventing soil and seed losses. To maintain quality and purity, the current years tested, certified seed with a minimum germination rate of 80% and a minimum purity of 90% will be used. Use the following seed mix:

8-12" Precipitation Zone

Species – Cultivar	% in Mix	Lbs PLS*
Indian Ricegrass	50	5
Needleandthread	40	4
Winterfat	10	1
<b>Totals</b>	<b>100%</b>	<b>10.00 lbs/acre</b>

\*PLS = pure live seed

\*Double this rate if broadcast seeding

5. Slopes too steep for machinery may be hand broadcast and raked with twice the specified amount of seed.

**Noxious/Invasive Weeds:**

1. To reduce the opportunity to transport invasive and/or noxious weeds, the operator will be required to wash all vehicles and equipment before mobilizing into the project area to begin any dirt work or drilling activities.
2. The operator will be responsible for weed control on the disturbed areas within the limits of the well pad and road construction. The operator will be responsible for consultation with the authorized officer and/or local authorities for acceptable weed control methods.
3. The operator will monitor for noxious weeds that might move onto the location. If any are discovered an Integrated Pest Management Plan will be created and need BLM approval prior to beginning any treatment program.

**Other:**

1. Please contact Ben Kniola, Natural Resource Specialist, @ (435) 259-2127, Bureau of Land Management, Moab, if there are any questions concerning these surface use COAs.

### C. REQUIRED APPROVALS, REPORTS AND NOTIFICATIONS

Required verbal notifications are summarized in Table 1, attached.

Building Location- Notify the Moab Field Office at least 48-hours prior to commencing construction of location.

Spud- Notify the Moab Field Office 24-hours prior to spud. Submit written notification (Sundry Notice, Form 3160-5) to the Moab Field Office within 24-hours after spud, regardless of whether using a dry hole digger or big rig.

Daily Drilling Reports- Daily drilling reports that describe the progress and status of the well shall be submitted to the Moab Field Office on at least a weekly basis. This report may be in any format customarily used by the operator.

Oil and Gas Operations Reports (OGORs)- Production from this well shall be reported to Minerals Management Service (MMS) on a monthly basis.

Sundry Notices- Any modification to the proposed drilling program shall be submitted to the Moab Field Office on a Sundry Notice (Form 3160-5). Regulations at 43 CFR 3162.3-2 describe which operations require prior approval, and which require notification.

Drilling Suspensions- Operations authorized by this permit shall not be suspended for more than 30 days without prior approval of the Moab Field Office. All conditions of this approval shall be applicable during any operations conducted with a replacement rig.

Undesirable Events- Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be immediately reported to the BLM in accordance with requirements of NTL-3A.

Cultural Resources- If cultural resources are discovered during construction, immediately notify the Moab Field Office, and work that might disturb the cultural resources shall cease.

First Production- A first production conference will be scheduled as soon as the productivity of the well is apparent. This conference should be coordinated through the Moab Field Office.

Notify the Moab Field Office when the well is placed into production. Initial notification may be verbal, but must be confirmed in writing within five business days. Please include the date production started, the producing formation and production volumes.

Well Completion Report- Whether the well is completed as a dry hole or as a producer, a *Well Completion or Recompletion Report and Log* (Form 3160-4) shall be submitted to the Moab Field Office within thirty-days after completion of the well. Two copies of all logs, core descriptions, core analyses, well test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. When requested, samples (cuttings and/or samples) will be submitted to the Moab Field Office.

Venting/Flaring of Gas- Gas produced from this well may not be vented/flared beyond an initial, authorized test period of 30 days or 50 MMcf, whichever first occurs, without the prior, written approval of the Moab Field Office. Should gas be vented or flared without approval beyond the authorized test period, the well may be ordered to be shut-in until the gas can be captured or until approval to continue the venting/flaring pursuant to NTL-4A is granted. Compensation shall be due for gas that is vented/flared without approval.

Produced Water- An application for approval of a permanent disposal method and location will be submitted to the Moab Field Office for approval pursuant to Onshore Oil and Gas Order No.7.

Off-Lease Measurement, Storage, Commingling- Prior approval must be obtained from the Moab Field Office for off-lease measurement, off-lease storage and/or commingling of production prior to the sales measurement point. The term "commingling" describes both the combining of production from different geologic zones and/or combining production from different leases or agreement areas.

Plugging and Abandonment- If the well is a dry hole, plugging instructions must be obtained from the Moab Field Office prior to initiating plugging operations.

A "Subsequent Report of Abandonment" (Sundry Notice, Form 3160-5) will be filed with the Moab Field Office within thirty-days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Upon completion of approved plugging, a regulation marker will be erected in accordance with 43 CFR 3162.6. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the Moab Field Office or the appropriate surface managing agency.

#### TABLE 1

#### NOTIFICATIONS

Notify Ben Kniola (435-259-2127), Dave Skinner (435-259-2145) of the BLM Moab Field Office for matters regarding surface use; and

Notify Jeff Brown (435-587-1525) of the BLM Monticello Field Office for the following drilling matters:

2 days prior to commencement of dirt work, construction and reclamation (Kniola or Skinner);

1 day prior to spud (Kniola or Skinner);

50 feet prior to reaching the surface casing setting depth (Brown);

3 hours prior to testing BOP equipment (Brown).

If the person at the above number cannot be reached, notify the BLM Moab Field Office at 435-259-2100.

Well abandonment operations require 24-hour advance notice and prior approval. In the case of newly drilled dry holes, verbal approval can be obtained from:

Eric Jones, Petroleum Engineer

Office: 435-259-2117

Home: 435-259-2214

**Federal Approval of this  
Action is Necessary**

API Well No: 43037318990000

<p><b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING</p>	<p><b>FORM 9</b></p>
<p><b>SUNDRY NOTICES AND REPORTS ON WELLS</b></p> <p>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.</p>	<p><b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-76580</p>
<p><b>1. TYPE OF WELL</b> Oil Well</p>	<p><b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b></p>
<p><b>2. NAME OF OPERATOR:</b> WHITING OIL &amp; GAS CORPORATION</p>	<p><b>7. UNIT or CA AGREEMENT NAME:</b> THREEMILE</p>
<p><b>3. ADDRESS OF OPERATOR:</b> 1700 Broadway, Suite 2300 , Denver, CO, 80290 2300</p>	<p><b>8. WELL NAME and NUMBER:</b> THREEMILE 12-14D</p>
<p><b>4. LOCATION OF WELL FOOTAGES AT SURFACE:</b> 1580 FNL 1900 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNE Section: 14 Township: 29.0S Range: 21.0E Meridian: S</p>	<p><b>9. API NUMBER:</b> 43037318990000</p>
<p><b>PHONE NUMBER:</b> 303 390-4095 Ext</p>	<p><b>9. FIELD and POOL or WILDCAT:</b> WILDCAT</p>
<p><b>COUNTY:</b> SAN JUAN</p>	<p><b>STATE:</b> UTAH</p>

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<p><input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 6/18/2009</p> <p><input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:</p> <p><input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:</p> <p><input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:</p>	<p><input type="checkbox"/> ACIDIZE</p> <p><input type="checkbox"/> CHANGE TO PREVIOUS PLANS</p> <p><input type="checkbox"/> CHANGE WELL STATUS</p> <p><input checked="" type="checkbox"/> DEEPEN</p> <p><input type="checkbox"/> OPERATOR CHANGE</p> <p><input type="checkbox"/> PRODUCTION START OR RESUME</p> <p><input type="checkbox"/> REPERFORATE CURRENT FORMATION</p> <p><input type="checkbox"/> TUBING REPAIR</p> <p><input type="checkbox"/> WATER SHUTOFF</p> <p><input type="checkbox"/> WILDCAT WELL DETERMINATION</p>	<p><input type="checkbox"/> ALTER CASING</p> <p><input type="checkbox"/> CHANGE TUBING</p> <p><input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS</p> <p><input type="checkbox"/> FRACTURE TREAT</p> <p><input type="checkbox"/> PLUG AND ABANDON</p> <p><input type="checkbox"/> RECLAMATION OF WELL SITE</p> <p><input type="checkbox"/> SIDETRACK TO REPAIR WELL</p> <p><input type="checkbox"/> VENT OR FLARE</p> <p><input type="checkbox"/> SI TA STATUS EXTENSION</p> <p><input type="checkbox"/> OTHER</p>	<p><input type="checkbox"/> CASING REPAIR</p> <p><input checked="" type="checkbox"/> CHANGE WELL NAME</p> <p><input checked="" type="checkbox"/> CONVERT WELL TYPE</p> <p><input type="checkbox"/> NEW CONSTRUCTION</p> <p><input type="checkbox"/> PLUG BACK</p> <p><input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION</p> <p><input type="checkbox"/> TEMPORARY ABANDON</p> <p><input type="checkbox"/> WATER DISPOSAL</p> <p><input type="checkbox"/> APD EXTENSION</p> <p>OTHER: <input type="text" value="Enlarge Pad"/></p>

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

Whiting Oil and Gas corporation is requesting to drill the proposed well as a horizontal lateral well. The original well was proposed as a vertical well with the following name and number: Threemile 12-14D. Whiting is requesting to change the name and number of the well as follows: Threemile 12-14H; SHL will remain the same with the proposed BHL changing to: 1,650' FNL & 2,150' FWL SENW Section 1-T29S-R21E. They would like to enlarge the pad adding 75' to the west and 100' to the north, in order to accommodate probable future wells. They would also like to deepen the well to 7,793' TVD and 17,494' MD.

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

**Date:** June 23, 2009

**By:**

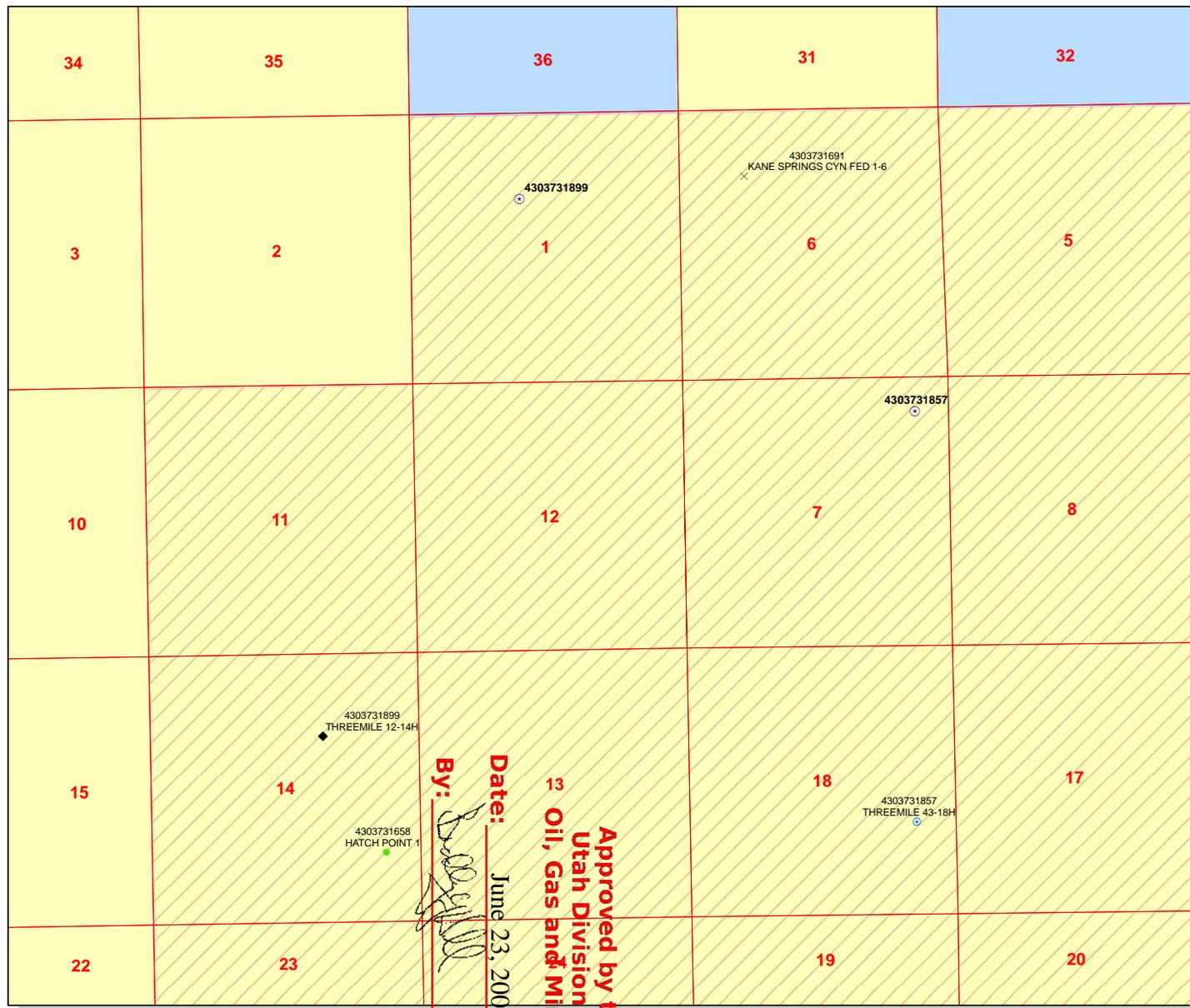
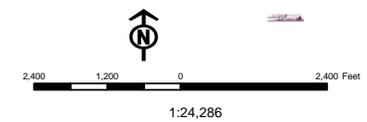
<b>NAME (PLEASE PRINT)</b> Terri Hartle	<b>PHONE NUMBER</b> 435 896-5501	<b>TITLE</b> Admin/Regulatory (Western Land Services)
<b>SIGNATURE</b> N/A		<b>DATE</b> 6/9/2009

**RECEIVED** June 09, 2009

**API Number: 4303731899**  
**Well Name: THREEMILE 12-14H**  
**Township 29.0 S Range 21.0 E Section 14**  
**Meridian: SLBM**  
**Operator: WHITING OIL & GAS CORPORATION**

Map Prepared:  
 Map Produced by Diana Mason

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



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

**By:** *[Signature]*  
**Date:** June 23, 2009

**WHITING OIL & GAS CORPORATION**  
**THREEMILE 12-14H**  
**HORIZONTAL DRILL PLAN**  
**SWNE Section 14-T29S-R21E**  
**San Juan County, Utah**

**Summary:**

The Threemile 12-14 was originally permitted as a directional Leadville test. This well plan is to change the well to a Horizontal Cane Creek test. The surface location did not change from the original permit. This plan is to change the BHL for the Cane Creek Formation.

The Threemile 12-14H well will be drilled to the Cane Creek zone at a TVD depth of 7,460'. The well will test the Cane Creek zone for hydrocarbon production. A pilot hole will be drilled through the Cane Creek and 3 zones will be cored and logged. If pressure is encountered in the Cane Creek zone, the assumption is that the wellbore has encountered a fracture system and the well will be tested for hydrocarbon production.

Surface section will be 17-1/2" OH with 13-3/8" casing set at 2,200' to cover the Red Beds. The first intermediate section will be drilled with a 12-1/4" bit from 2,200' to 4,700' and 9-5/8" casing set in the first salt in the Ismay Member of the Paradox fm. The well will be drilled vertically to the Cane Creek using an 8-1/2" bit.

If pressure is not encountered in the Cane Creek, a cement plug will be set in the openhole and the wellbore kicked off to drill a horizontal lateral in the Cane Creek formation. A kick off plug will be pumped in the openhole and the well kicked off to build the curve section. The curve section will be built to 88 degrees and the second intermediate section using 7" casing will be landed in the Cane Creek zone. Casing will be cemented and the lateral section will be drilled with a 6" bit. Lateral length may be adjusted based on evaluation of the formation while drilling. The lateral section will be completed with a 4-1/2" casing and swell packers.

**1. ESTIMATED TOPS OF GEOLOGICAL MARKERS**

Ground Level 6,313'      Estimated KB 6,343' (29')

Formation	Est Top-TVD	Est Top-SS	Lithology	Potential	Hazard
Entrada Fm	0'				
Wingate SS	535'	5,808'	SS		
Chinle Fm	852'	5,491'	Red Beds SS,SL		
Moenkopi Fm	1,369'	4,974'	Red Beds SS,SL		
Organ Rock	1,702'	4,641'	Red Beds SS,SL		
Elephant Can Fm	2,164'	4,179'	SS, Sh, Ls		
Honaker Trail	3,065'	3,278'	SS, Sh, Ls		
La Sal Ls	4,127'	2,216'	Ls		
Ismay	4,587'	1,756'	Ls, Sh, Dol, Anhy		
Akah	5,027'	1,316'	Ha, Anhy, Sh		
Barker Creek	5,840'	503'	Ha, Anhy, Sh		Hi Press
Alkali Gulch (Paradox)	7,034'	(691')	Ha, Anhy, Sh		Hi Press
Cane Creek Zn	7,460'	(1,117')	Anhy,SH, Ss	Oil-Gas	Hi Press
Estimated TD	7,793' TVD (17,464' MD)	(1,450')			

## 2. DIRECTIONAL PLAN (See Attached Directional Plan)

The Threemile 12-14H will be a combination build & hold directional and a horizontal well. The well is a build & hold directional well to land the horizontal in the Cane Creek pass a fault to the north of the SHL. Kick off for the build & hold is at 2,250' below the Red Beds. The well will reach a max inclination of 15 degrees and be held to TD in the pilot hole. Once the well has been logged, a cement plug will be set at a lower KOP to drill the curve and land in the Cane Creek.

Surface Location: 1,580' FNL & 1,900' FEL  
SWNE Section 14-T29S-R21E  
San Juan County, Utah

Bottom Hole Location: 1,650' FNL & 2,150' FWL  
SENW Section 1-T29S-R21E  
San Juan County, Utah

## 3. PRESSURE CONTROL EQUIPMENT

- A. Type:** BOPE  
Thirteen and five eights (13-5/8") inch 10,000 psi double ram hydraulic BOP with Blind and Pipe rams.  
Thirteen and five eights (13-5/8") inch 10,000 psi single ram hydraulic BOP with Pipe rams.  
Thirteen and five eights (13-5/8") inch 10,000 psi annular preventer  
\*See attached drawing

Rotating Head  
13-3/8", 2,500 psi

Wellhead  
13-3/8" casing, 5,000 psi Casing head, (A Section)  
9-5/8" casing, 10,000 psi Casing spool, (B Section)

After the 13-3/8" casing is landed at 500', the 5,000 psi casing head will be welded on and the 10,000 psi casing spool (B Section) will be bolted up to the casing head. The 10,000 psi BOP stack will be bolted up to the upper 10,000 psi flange on the B Section. Once the 9-5/8" casing is landed at 4,300', the packoff will be placed around the 9-5/8" casing in the B Section. This will give a full 10,000 psi working pressure through the B Section and the BOP. \*See attached drawings.

### 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. \*See attached drawing.

**D. Accumulator:**

Accumulator will have sufficient capacity to open a hydraulically-controlled choke line valve; close all rams plus annular preventer, and retain a minimum of 200 psi above pre-charge 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 pre-charge 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 well bore and any existing production facilities.

**4. PROPOSED CASING DESIGN PROGRAM****A. Casing Program: All New**

Section	Interval	Hole Size	Footage	Description
Surface	0' – 2,200'	17-1/2"	2,200'	13-3/8" 54.50# J-55 STC
1 <sup>st</sup> Intermediate	0' – 3,750'	12-1/4"	3,750'	9-5/8" 40# TN-80 LTC
	3,750' – 4,700'		950'	9-5/8" 47# L-80 BTC
2 <sup>nd</sup> Intermediate	0' – 4,600'	8-1/2"	4,600'	7" 29# L-80 LTC
	4,600' – 7,920'		3,320'	7" 32# HCL-80 LTC
Production Liner	6,800' – 17,465' MD	6"	10,665'	4-1/2" 11.6# HCP-110 LTC

13-3/8" surface casing will have five (5) centralizers as follows: Centralizer #1 set on middle of joint #1 by stop ring, and Centralizers #2-#5 set across collars of joints #2, #4, #6 and one centralizer set in the conductor.

7" production casing will have twenty-seven (16) 7" x 8-1/2" centralizers.

- a) Four (4) centralizers every other jt casing point to KOP.
- b) Twelve (12) centralizers every third (3<sup>rd</sup>) jt.

Casing string(s) will be pressure tested to 0.22 psi/foot of casing string length or 1500 psi, whichever is greater (not to exceed 70% of the internal yield strength of the casing), after cementing and prior to drilling out from under the casing shoe.

4-1/2" production liner will be run back into the vertical portion of the 7" casing. The casing will be hung on an isolation packer. Swell packers will be run on the liner to isolate zones in the lateral for stimulation.

**B. Casing Design Parameters:****Surface Casing**

<u>Interval</u>	<u>Description</u>	<u>Burst (psi)<sup>a</sup></u>	<u>Collapse (psi)<sup>b</sup></u>	<u>Tension (klb)<sup>c</sup></u>
0' – 2,200'	13-3/8" 54.50# J-55 STC	2,730/1.24	1,130/1.10	514/4.28

- a. based on Methane gas kick to surface, 0.0427 psi/ft
- b. based on full evacuation with 9.0 ppg fluid on backside
- c. based on casing string weight in 9 ppg mud  
String Weight in 9.0 ppg mud ≈ 104,600 lbs

**1<sup>st</sup> Intermediate Casing**

<u>Interval</u>	<u>Description</u>	<u>Burst (psi)<sup>a</sup></u>	<u>Collapse (psi)<sup>b</sup></u>	<u>Tension (klb)<sup>c</sup></u>
0' – 3,750'	9-5/8" 40# TN-80 LTC	5,750/1.10	3,090/1.76	737/4.91
3,750' – 4,700'	9-5/8" 47# L-80 BTC	6,870/1.32	4,760/2.16	1,122/5.75

- a. based on BLM Burst Rules, 0.22 psi/ft.
- b. based on full evacuation with 9.0 ppg fluid on backside
- c. based on casing string weight in 9.0 ppg mud.  
String Weight in 9.0 ppg mud ≈ 193,000 lbs.

**2<sup>nd</sup> Intermediate Casing**

<u>Interval</u>	<u>Description</u>	<u>Burst (psi)<sup>a</sup></u>	<u>Collapse (psi)<sup>b</sup></u>	<u>Tension (klb)<sup>c</sup></u>
0' – 4,600'	7" 29# L-80 LTC	8,160/1.39	7,020/1.74	587/4.41
4,600'-7,920'	7" 32# HCL-80 LTC	9,060/1.39	10,400/1.29	701/2.93

- a. based on BLM Burst Rules, 0.22 psi/ft.
- b. based on full evacuation with 16.4 ppg fluid on backside
- c. based on casing string weight in 16.4 ppg mud.  
String Weight in 16.4 ppg mud ≈ 180,000 lbs.

**Production Liner**

<u>Interval</u>	<u>Description</u>	<u>Burst (psi)<sup>a</sup></u>	<u>Collapse (psi)<sup>b</sup></u>	<u>Tension (klb)<sup>c</sup></u>
6,800' – 17,465'	4-1/2" 11.6# HCP-110 LTC	10,690/1.67	8,650/1.35	279/3.36

- a. based on BLM Burst Rules, 0.22 psi/ft.
- b. based on full evacuation with 16.4 ppg fluid on backside
- c. based on casing string weight in 16.4 ppg mud.  
String Weight in 16.4 ppg mud ≈ 93,000 lbs.

## 5. PROPOSED CEMENTING PROGRAM

All slurries tested for compatibility, compression strengths, and pumping times based on actual job conditions.

Surface: TOC Surface, (25% Excess)

Tail: 2000 cu-ft; 1400 sx Premium Plus – Type III cement 2% Calcium Chloride

1<sup>st</sup> Intermediate: TOT 3,000', TOL Surface, 40% excess

Lead: 1469 cu-ft; 826 sacks Premium Lite Cement + 0.25 lbs/sack Cello Flake + 3 lbs/sack Kol Seal + 0.3% bwoc FL-52 + 0.5% bwoc Sodium Metasilicate + 89.8% Fresh water.

Tail: 458 cu-ft; 328 sacks Type III Cement + 0.25 lbs/sack Cello Flake + 0.2% bwoc CD-32 + 0.3% bwoc FL-52 + 0.3% bwoc Sodium Metasilicate + 60.2% Fresh Water

Displacement: 334.0 bbls Fresh Water @ 8.34 ppg

Cement Properties	Slurry No. 1	Slurry No. 2
Slurry Weight (ppg)	12.70	14.50
Slurry Yield (cf/sack)	1.78	1.40
Amount of Mix water (gps)	9.37	6.79

2<sup>nd</sup> Intermediate: TOT 6,000', TOL 4,300', (40% Excess)

Lead: 360 cu-ft; 200 sacks Premium Lite Cement + 0.25 lbs/sack Cello Flake + 3 lbs/sack Kol Seal + 0.3% bwoc FL-52 + 0.5% bwoc Sodium Metasilicate + 89.8% Fresh water.

Tail: 187 cu-ft; 170 sacks Class G Cement + 3% bwow Potassium Chloride + 0.25 lbs/sack Cello Flake + 0.2% bwoc CD-32 + 0.3% bwoc FL-52 + 0.3% bwoc Sodium Metasilicate + 0.3% bwoc BA-59 + 0.3% bwoc R-3 + 40.5% Fresh Water

Displacement: 251 bbls Water @ 8.34 ppg

Cement Properties	Slurry No. 1	Slurry No. 2
Slurry Weight (ppg)	12.00	16.2
Slurry Yield (cf/sack)	1.78	1.11
Amount of Mix water (gps)	9.37	4.56

## 6. MUD PROGRAM

Depth	Mud System	MW (ppg)	PV (cp)	YP (lb/100ft <sup>2</sup> )	FL (ml/30min)
0 – 2,200'	Air	NA	NA	NA	NA
2,200' - 3,000'	Air/Mist	NA	NA	NA	NA
3,000 – 4,700'	FW/Brine	8.33 – 9.0	15 - 25	10 - 14	< 8
4,300' – 7,200'	Oil Based	9.0 – 13.0	32 - 45	10 - 25	8-10
7000' – 9,700'	Oil Based	13.0 – 16.0	32 - 45	10 - 25	8-10

Surface hole (0' – 2,200') will be drilled with air hammer.

Intermediate hole (2,200' – 3,000') 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.

Intermediate hole (3,000' – 4,700') will be drilled with freshwater system. As casing point will be 200' into the first salt in the Ismay formation, fluid will switch to a saturated salt system around 3,800'.

### Special Drilling Operations

- Rotating Head
- Blooie line discharge 100 feet from wellbore 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 wellbore

## 7. TESTING, LOGGING AND CORE PROGRAMS

Cores: Shale 13 6,090' – 6,150'  
 Shale 19 6,990' – 7,050'  
 Cane Creek 7,450' – 7,570'

DST: None planned

Surveys: Deviation surveys every 500' to casing point in surface hole. Directional survey from surface to TD.

Mud Logger: From 4,700' to TD.

Samples: 30' samples 4,700' to TD

Open Hole Logging Program in the Pilot hole:

Induction w/GR Log	TD to Surface Casing
Density Compensated Neutron	TD to 4,700'

## 8. ANTICIPATED ABNORMAL PRESSURES OR TEMPERATURES:

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

If overpressure is present in the Cane Creek zone at 7,460' TVD, maximum anticipated bottom hole pressure equals approximately 6,624 psi (calculated at 0.85 psi/foot) in the Cane Creek zone at 7,793' TVD, at TD in the lateral section. Maximum anticipated surface pressure equals approximately 4,910 psi (anticipated bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot of hole).

If overpressure is not present in the Cane Creek zone, maximum anticipated bottom hole pressure equals approximately 3,375 psi (calculated at 0.433 psi/foot) in the Cane Creek zone at 7,793' TVD, at TD in the lateral section. Maximum anticipated surface pressure equals approximately 1,660 psi (anticipated bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot of hole).

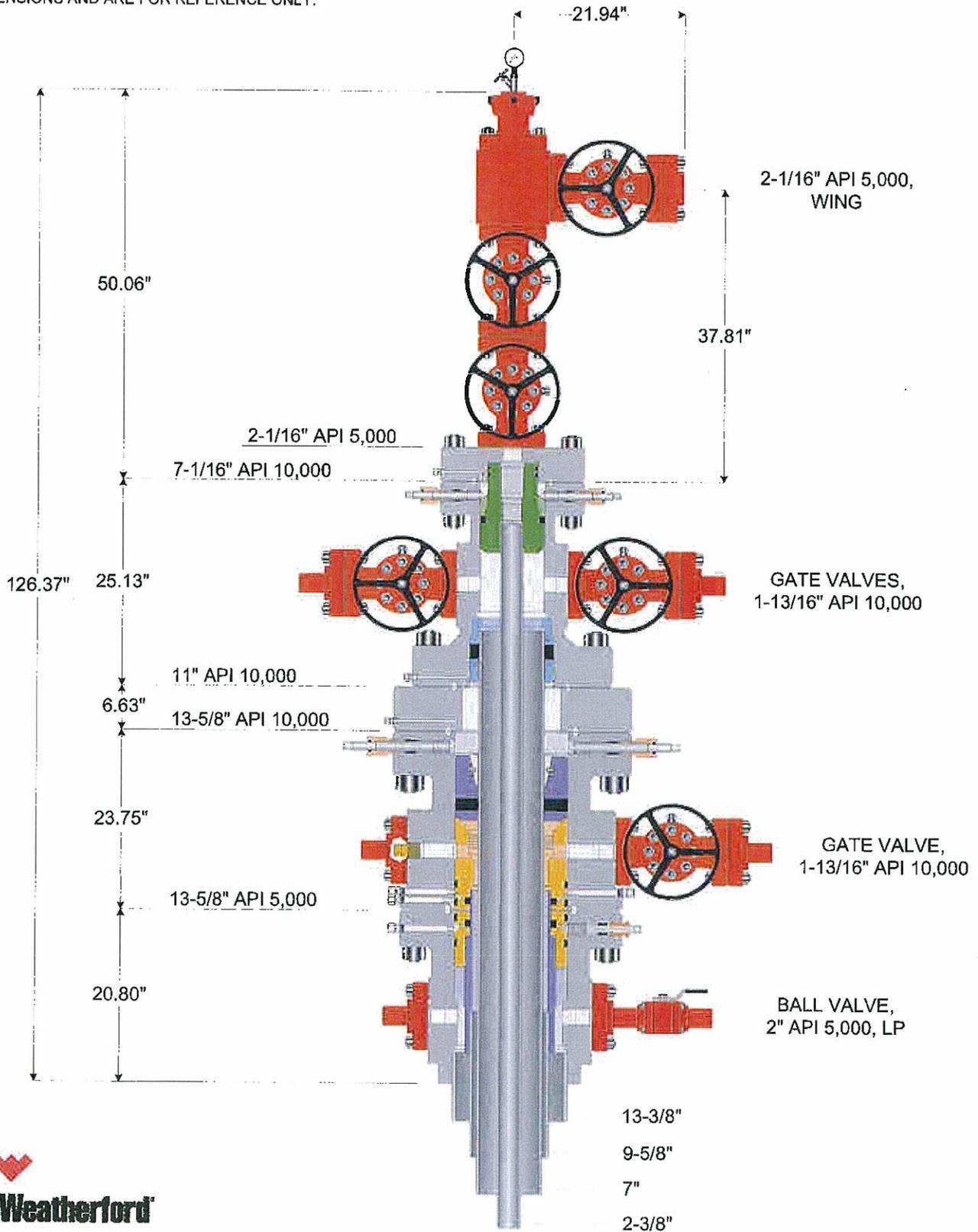
**9. ANTICIPATED STARTING DATE AND DURATION:**

Dirt work startup:	Upon Approval
Spud:	Upon Approval
Duration:	60 - 70 days

**10. COMPLETION AND STIMULATION:**

The proposed completion will utilize 4-9 open hole swell packers run every 500'-1000' along the horizontal portion of the well bore to segment the open hole section into 5-10 sections. This will allow effective fracture treatment over the entire length of the well bore to increase the productivity of the well. The swell packers will provide good isolation of the frac stages, allowing unproductive or undesirable fluids to be isolated if necessary via casing patches set across the 4 1.2" casing perforations, which will be grouped closely in between the swell packers. It is expected that the well will flow naturally to surface after stimulation. A permanent packer will be set on wireline above the 4 ½" liner hanger with an on-off tool looking up. Tubing will be run into the well and latched onto the on-off tool and landed in the tubing head at surface. An insert pump could be run later along with rods and a pumping unit if the well ceases to flow to surface.

THIS DRAWING IS NOT TO SCALE. THE DIMENSIONS REFLECTED ON THIS DRAWING ARE ESTIMATED DIMENSIONS AND ARE FOR REFERENCE ONLY.

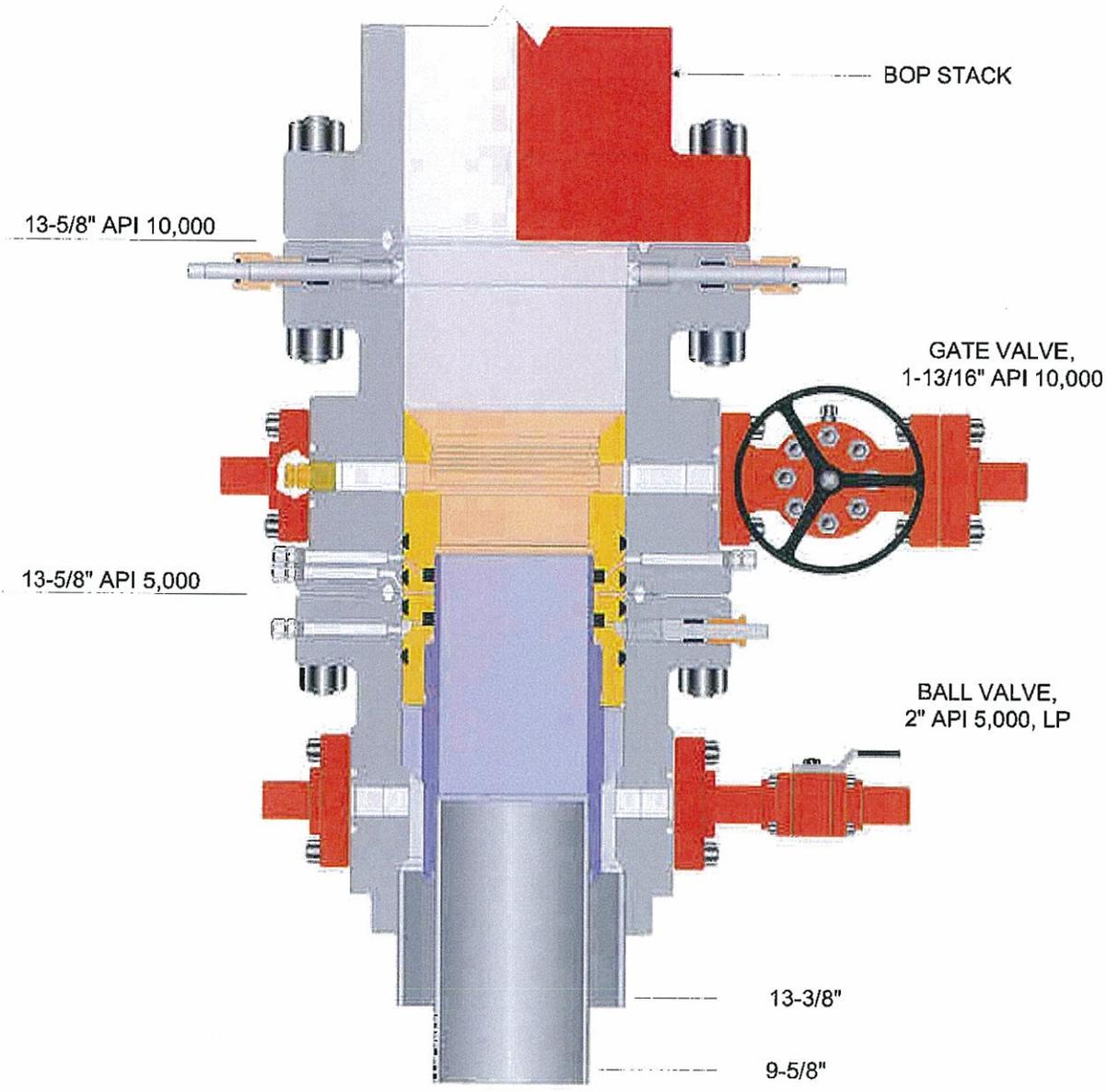


DRAWING A

<p>Customer: <b>WHITING PETROLEUM CORP.</b></p>	<p>Tender, Project or Well: <b>HATCH POINT PROJECT</b></p>	<p>Date: <b>7-21-2008</b></p>	<p>Quote: <b>20555</b> Project: <b>9470</b></p>	<p>Drawn By: <b>BD</b></p>
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RECEIVED June 09, 2009

THIS DRAWING IS NOT TO SCALE. THE DIMENSIONS REFLECTED ON THIS DRAWING ARE ESTIMATED DIMENSIONS AND ARE FOR REFERENCE ONLY.



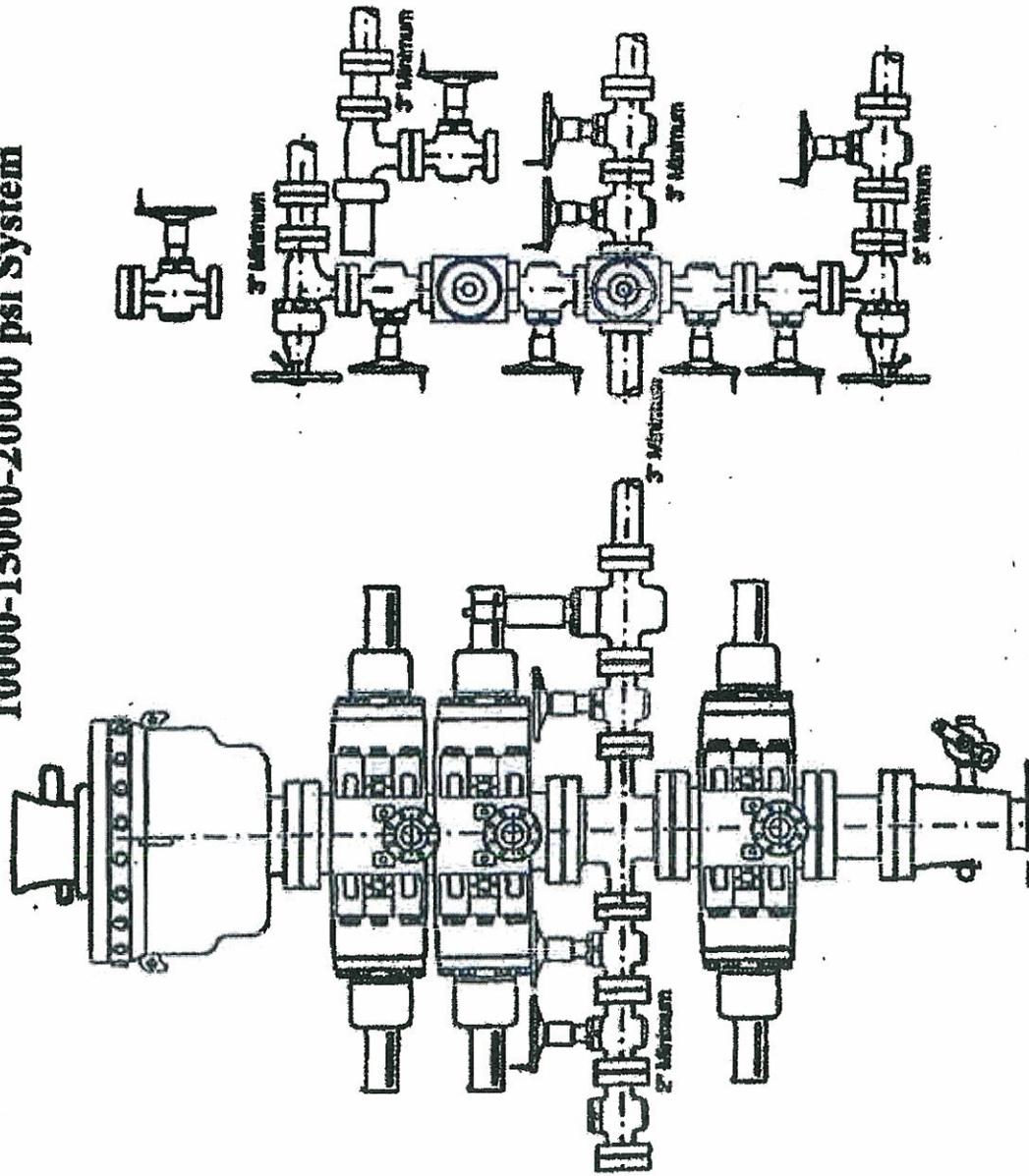
RECEIVED June 09, 2009



Customer: <b>WHITING PETROLEUM CORP.</b>	Tender, Project or Well: <b>HATCH POINT PROJECT</b>	Date: <b>8-11-2008</b>	Quote: <b>20555</b> Project: <b>9470</b>	Drawn By: <b>BD</b>
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# Standard Triple Choke-Triple Ram BOP Assembly

10000-15000-20000 psi System



# Whiting Petroleum

San Juan, UT  
Hatch Point Field  
Threemile 12-14H  
Wellbore #1

Plan: Revision 06-03-09

## Standard Planning Report

03 June, 2009



**San Juan, UT  
Hatch Point Field  
Thremile 12-14H  
Wellbore #1  
Revision 06-03-09**

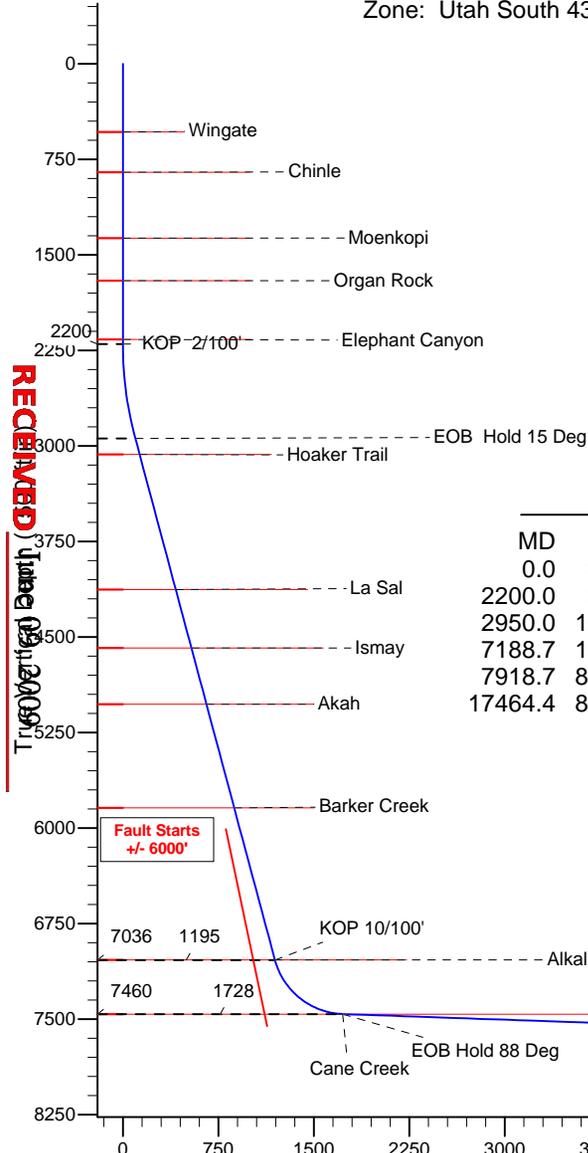
San Juan, UT

Geodetic System: US State Plane 1927 (Exact solution)  
Datum: NAD 1927 (NADCON CONUS)  
Ellipsoid: Clarke 1866  
Zone: Utah South 4303



M Azimuths to True North  
Magnetic North: 11.09°

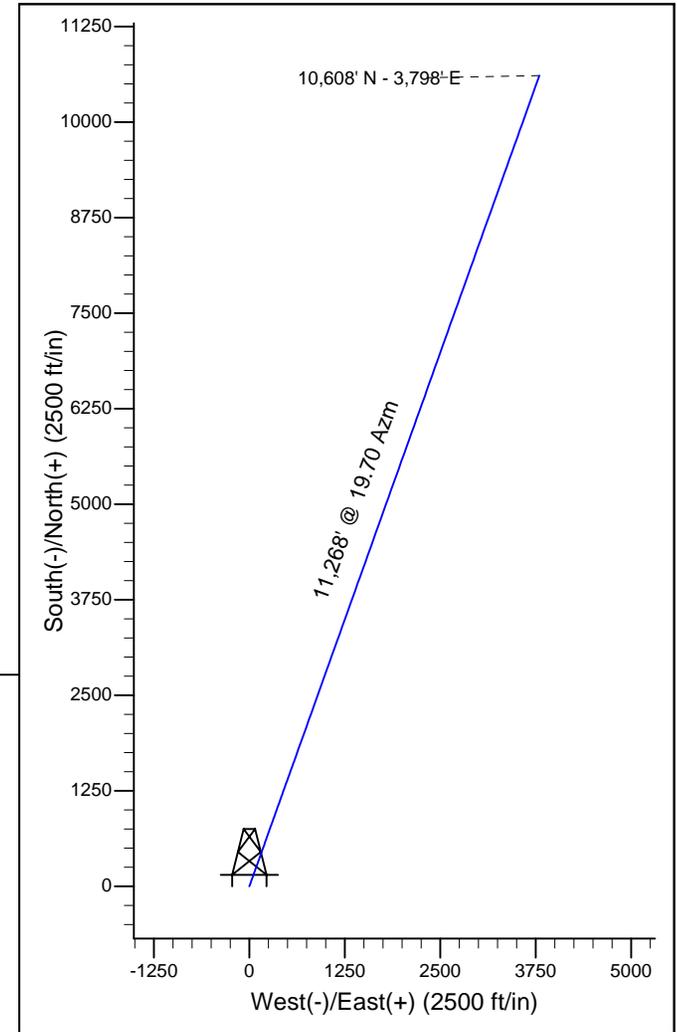
Magnetic Field  
Strength: 51586.7snT  
Dip Angle: 64.48°  
Date: 5/28/2009  
Model: IGRF200510



RECEIVED TIME 06/03/09

**SECTION DETAILS**

MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0
2200.0	0.00	0.00	2200.0	0.0	0.0	0.00	0.00	0.0
2950.0	15.00	19.70	2941.5	91.9	32.9	2.00	19.70	97.6
7188.7	15.00	19.70	7035.7	1124.8	402.7	0.00	0.00	1194.7
7918.7	88.00	19.70	7460.0	1627.0	582.5	10.00	0.00	1728.1
17464.4	88.00	19.70	7793.2	10608.5	3798.2	0.00	0.00	11268.0



Vertical Section at 19.70° (1500 ft/in)

17,464' MD - 7,793' TVD

# Crescent Directional Drilling

## Planning Report

<b>Database:</b>	EDM 2003.16 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Threemile 12-14H
<b>Company:</b>	Whiting Petroleum	<b>TVD Reference:</b>	WELL @ 6357.0ft (Bronco)
<b>Project:</b>	San Juan, UT	<b>MD Reference:</b>	WELL @ 6357.0ft (Bronco)
<b>Site:</b>	Hatch Point Field	<b>North Reference:</b>	True
<b>Well:</b>	Threemile 12-14H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Revision 06-03-09		

<b>Project</b>	San Juan, UT		
<b>Map System:</b>	US State Plane 1927 (Exact solution)	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	NAD 1927 (NADCON CONUS)		
<b>Map Zone:</b>	Utah South 4303		

<b>Site</b>	Hatch Point Field		
<b>Site Position:</b>		<b>Northing:</b>	593,903.08ft
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,552,244.87ft
<b>Position Uncertainty:</b>	0.0 ft	<b>Slot Radius:</b>	"
		<b>Latitude:</b>	38° 16' 55.668 N
		<b>Longitude:</b>	109° 34' 33.852 W
		<b>Grid Convergence:</b>	1.18 °

<b>Well</b>	Threemile 12-14H		
<b>Well Position</b>	<b>+N/-S</b>	0.0 ft	<b>Northing:</b>
	<b>+E/-W</b>	0.0 ft	593,903.07 ft
			<b>Latitude:</b>
			38° 16' 55.668 N
			<b>Easting:</b>
			2,552,244.87 ft
			<b>Longitude:</b>
			109° 34' 33.852 W
<b>Position Uncertainty</b>		0.0 ft	<b>Wellhead Elevation:</b>
			ft
			<b>Water Depth:</b>
			29.0 ft

<b>Wellbore</b>	Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF200510	5/28/2009	11.09	64.48	51,587

<b>Design</b>	Revision 06-03-09			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PROTOTYPE	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	0.0	0.0	0.0	19.70

<b>Plan Sections</b>										
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	
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,950.0	15.00	19.70	2,941.5	91.9	32.9	2.00	2.00	0.00	19.70	
7,188.7	15.00	19.70	7,035.7	1,124.8	402.7	0.00	0.00	0.00	0.00	
7,918.7	88.00	19.70	7,460.0	1,627.0	582.5	10.00	10.00	0.00	0.00	
17,464.4	88.00	19.70	7,793.2	10,608.5	3,798.2	0.00	0.00	0.00	0.00	

# Crescent Directional Drilling

## Planning Report

<b>Database:</b>	EDM 2003.16 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Threemile 12-14H
<b>Company:</b>	Whiting Petroleum	<b>TVD Reference:</b>	WELL @ 6357.0ft (Bronco)
<b>Project:</b>	San Juan, UT	<b>MD Reference:</b>	WELL @ 6357.0ft (Bronco)
<b>Site:</b>	Hatch Point Field	<b>North Reference:</b>	True
<b>Well:</b>	Threemile 12-14H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Revision 06-03-09		

### 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
535.0	0.00	0.00	535.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>Wingate</b>									
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
852.0	0.00	0.00	852.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>Chinle</b>									
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
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,369.0	0.00	0.00	1,369.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>Moenkopi</b>									
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,702.0	0.00	0.00	1,702.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>Organ Rock</b>									
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,164.0	0.00	0.00	2,164.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>Elephant Canyon</b>									
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>KOP 2/100'</b>									
2,300.0	2.00	19.70	2,300.0	1.6	0.6	1.7	2.00	2.00	0.00
2,400.0	4.00	19.70	2,399.8	6.6	2.4	7.0	2.00	2.00	0.00
2,500.0	6.00	19.70	2,499.5	14.8	5.3	15.7	2.00	2.00	0.00
2,600.0	8.00	19.70	2,598.7	26.2	9.4	27.9	2.00	2.00	0.00
2,700.0	10.00	19.70	2,697.5	41.0	14.7	43.5	2.00	2.00	0.00
2,800.0	12.00	19.70	2,795.6	58.9	21.1	62.6	2.00	2.00	0.00
2,900.0	14.00	19.70	2,893.1	80.1	28.7	85.1	2.00	2.00	0.00
2,950.0	15.00	19.70	2,941.5	91.9	32.9	97.6	2.00	2.00	0.00
<b>EOB Hold 15 Deg</b>									
3,000.0	15.00	19.70	2,989.8	104.1	37.3	110.6	0.00	0.00	0.00
3,077.9	15.00	19.70	3,065.0	123.1	44.1	130.7	0.00	0.00	0.00
<b>Hoaker Trail</b>									
3,100.0	15.00	19.70	3,086.4	128.5	46.0	136.4	0.00	0.00	0.00
3,200.0	15.00	19.70	3,182.9	152.8	54.7	162.3	0.00	0.00	0.00
3,300.0	15.00	19.70	3,279.5	177.2	63.4	188.2	0.00	0.00	0.00
3,400.0	15.00	19.70	3,376.1	201.6	72.2	214.1	0.00	0.00	0.00
3,500.0	15.00	19.70	3,472.7	225.9	80.9	240.0	0.00	0.00	0.00
3,600.0	15.00	19.70	3,569.3	250.3	89.6	265.8	0.00	0.00	0.00
3,700.0	15.00	19.70	3,665.9	274.7	98.3	291.7	0.00	0.00	0.00

# Crescent Directional Drilling

## Planning Report

<b>Database:</b>	EDM 2003.16 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Threemile 12-14H
<b>Company:</b>	Whiting Petroleum	<b>TVD Reference:</b>	WELL @ 6357.0ft (Bronco)
<b>Project:</b>	San Juan, UT	<b>MD Reference:</b>	WELL @ 6357.0ft (Bronco)
<b>Site:</b>	Hatch Point Field	<b>North Reference:</b>	True
<b>Well:</b>	Threemile 12-14H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Revision 06-03-09		

### 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)
3,800.0	15.00	19.70	3,762.5	299.0	107.1	317.6	0.00	0.00	0.00
3,900.0	15.00	19.70	3,859.1	323.4	115.8	343.5	0.00	0.00	0.00
4,000.0	15.00	19.70	3,955.7	347.8	124.5	369.4	0.00	0.00	0.00
4,100.0	15.00	19.70	4,052.3	372.1	133.2	395.3	0.00	0.00	0.00
4,177.4	15.00	19.70	4,127.0	391.0	140.0	415.3	0.00	0.00	0.00
<b>La Sal</b>									
4,200.0	15.00	19.70	4,148.9	396.5	142.0	421.1	0.00	0.00	0.00
4,300.0	15.00	19.70	4,245.5	420.9	150.7	447.0	0.00	0.00	0.00
4,400.0	15.00	19.70	4,342.1	445.2	159.4	472.9	0.00	0.00	0.00
4,500.0	15.00	19.70	4,438.6	469.6	168.1	498.8	0.00	0.00	0.00
4,600.0	15.00	19.70	4,535.2	494.0	176.9	524.7	0.00	0.00	0.00
4,653.6	15.00	19.70	4,587.0	507.0	181.5	538.5	0.00	0.00	0.00
<b>Ismay</b>									
4,700.0	15.00	19.70	4,631.8	518.3	185.6	550.5	0.00	0.00	0.00
4,800.0	15.00	19.70	4,728.4	542.7	194.3	576.4	0.00	0.00	0.00
4,900.0	15.00	19.70	4,825.0	567.1	203.0	602.3	0.00	0.00	0.00
5,000.0	15.00	19.70	4,921.6	591.4	211.8	628.2	0.00	0.00	0.00
5,100.0	15.00	19.70	5,018.2	615.8	220.5	654.1	0.00	0.00	0.00
5,109.1	15.00	19.70	5,027.0	618.0	221.3	656.4	0.00	0.00	0.00
<b>Akah</b>									
5,200.0	15.00	19.70	5,114.8	640.2	229.2	680.0	0.00	0.00	0.00
5,300.0	15.00	19.70	5,211.4	664.5	237.9	705.8	0.00	0.00	0.00
5,400.0	15.00	19.70	5,308.0	688.9	246.6	731.7	0.00	0.00	0.00
5,500.0	15.00	19.70	5,404.6	713.3	255.4	757.6	0.00	0.00	0.00
5,600.0	15.00	19.70	5,501.2	737.6	264.1	783.5	0.00	0.00	0.00
5,700.0	15.00	19.70	5,597.8	762.0	272.8	809.4	0.00	0.00	0.00
5,800.0	15.00	19.70	5,694.4	786.4	281.5	835.2	0.00	0.00	0.00
5,900.0	15.00	19.70	5,790.9	810.7	290.3	861.1	0.00	0.00	0.00
5,950.8	15.00	19.70	5,840.0	823.1	294.7	874.3	0.00	0.00	0.00
<b>Barker Creek</b>									
6,000.0	15.00	19.70	5,887.5	835.1	299.0	887.0	0.00	0.00	0.00
6,100.0	15.00	19.70	5,984.1	859.5	307.7	912.9	0.00	0.00	0.00
6,200.0	15.00	19.70	6,080.7	883.8	316.4	938.8	0.00	0.00	0.00
6,300.0	15.00	19.70	6,177.3	908.2	325.2	964.7	0.00	0.00	0.00
6,400.0	15.00	19.70	6,273.9	932.6	333.9	990.5	0.00	0.00	0.00
6,500.0	15.00	19.70	6,370.5	956.9	342.6	1,016.4	0.00	0.00	0.00
6,600.0	15.00	19.70	6,467.1	981.3	351.3	1,042.3	0.00	0.00	0.00
6,700.0	15.00	19.70	6,563.7	1,005.7	360.1	1,068.2	0.00	0.00	0.00
6,800.0	15.00	19.70	6,660.3	1,030.0	368.8	1,094.1	0.00	0.00	0.00
6,900.0	15.00	19.70	6,756.9	1,054.4	377.5	1,120.0	0.00	0.00	0.00
7,000.0	15.00	19.70	6,853.5	1,078.8	386.2	1,145.8	0.00	0.00	0.00
7,100.0	15.00	19.70	6,950.1	1,103.1	395.0	1,171.7	0.00	0.00	0.00
7,186.9	15.00	19.70	7,034.0	1,124.3	402.5	1,194.2	0.00	0.00	0.00
<b>Alkali Gulch</b>									
7,188.7	15.00	19.70	7,035.7	1,124.8	402.7	1,194.7	0.00	0.00	0.00
<b>KOP 10/100'</b>									
7,200.0	16.13	19.70	7,046.6	1,127.6	403.7	1,197.7	10.00	10.00	0.00
7,300.0	26.13	19.70	7,139.8	1,161.5	415.9	1,233.7	10.00	10.00	0.00
7,400.0	36.13	19.70	7,225.3	1,210.1	433.3	1,285.3	10.00	10.00	0.00
7,500.0	46.13	19.70	7,300.5	1,272.0	455.4	1,351.0	10.00	10.00	0.00
7,600.0	56.13	19.70	7,363.2	1,345.2	481.6	1,428.8	10.00	10.00	0.00
7,700.0	66.13	19.70	7,411.4	1,427.5	511.1	1,516.3	10.00	10.00	0.00

# Crescent Directional Drilling

## Planning Report

<b>Database:</b>	EDM 2003.16 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Threemile 12-14H
<b>Company:</b>	Whiting Petroleum	<b>TVD Reference:</b>	WELL @ 6357.0ft (Bronco)
<b>Project:</b>	San Juan, UT	<b>MD Reference:</b>	WELL @ 6357.0ft (Bronco)
<b>Site:</b>	Hatch Point Field	<b>North Reference:</b>	True
<b>Well:</b>	Threemile 12-14H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Revision 06-03-09		

### 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)
7,800.0	76.13	19.70	7,443.7	1,516.5	543.0	1,610.8	10.00	10.00	0.00
7,900.0	86.13	19.70	7,459.1	1,609.4	576.2	1,709.4	10.00	10.00	0.00
7,917.4	87.87	19.70	7,460.0	1,625.7	582.1	1,726.8	10.00	10.00	0.00
<b>Cane Creek</b>									
7,918.7	88.00	19.70	7,460.0	1,627.0	582.5	1,728.1	10.00	10.00	0.00
<b>EOB Hold 88 Deg</b>									
8,000.0	88.00	19.70	7,462.9	1,703.5	609.9	1,809.4	0.00	0.00	0.00
8,100.0	88.00	19.70	7,466.4	1,797.6	643.6	1,909.3	0.00	0.00	0.00
8,200.0	88.00	19.70	7,469.9	1,891.6	677.3	2,009.2	0.00	0.00	0.00
8,300.0	88.00	19.70	7,473.4	1,985.7	711.0	2,109.2	0.00	0.00	0.00
8,400.0	88.00	19.70	7,476.8	2,079.8	744.7	2,209.1	0.00	0.00	0.00
8,500.0	88.00	19.70	7,480.3	2,173.9	778.3	2,309.1	0.00	0.00	0.00
8,600.0	88.00	19.70	7,483.8	2,268.0	812.0	2,409.0	0.00	0.00	0.00
8,700.0	88.00	19.70	7,487.3	2,362.1	845.7	2,508.9	0.00	0.00	0.00
8,800.0	88.00	19.70	7,490.8	2,456.2	879.4	2,608.9	0.00	0.00	0.00
8,900.0	88.00	19.70	7,494.3	2,550.3	913.1	2,708.8	0.00	0.00	0.00
9,000.0	88.00	19.70	7,497.8	2,644.4	946.8	2,808.8	0.00	0.00	0.00
9,100.0	88.00	19.70	7,501.3	2,738.5	980.5	2,908.7	0.00	0.00	0.00
9,200.0	88.00	19.70	7,504.8	2,832.6	1,014.2	3,008.6	0.00	0.00	0.00
9,300.0	88.00	19.70	7,508.3	2,926.6	1,047.8	3,108.6	0.00	0.00	0.00
9,400.0	88.00	19.70	7,511.7	3,020.7	1,081.5	3,208.5	0.00	0.00	0.00
9,500.0	88.00	19.70	7,515.2	3,114.8	1,115.2	3,308.4	0.00	0.00	0.00
9,600.0	88.00	19.70	7,518.7	3,208.9	1,148.9	3,408.4	0.00	0.00	0.00
9,700.0	88.00	19.70	7,522.2	3,303.0	1,182.6	3,508.3	0.00	0.00	0.00
9,800.0	88.00	19.70	7,525.7	3,397.1	1,216.3	3,608.3	0.00	0.00	0.00
9,900.0	88.00	19.70	7,529.2	3,491.2	1,250.0	3,708.2	0.00	0.00	0.00
10,000.0	88.00	19.70	7,532.7	3,585.3	1,283.7	3,808.1	0.00	0.00	0.00
10,100.0	88.00	19.70	7,536.2	3,679.4	1,317.3	3,908.1	0.00	0.00	0.00
10,200.0	88.00	19.70	7,539.7	3,773.5	1,351.0	4,008.0	0.00	0.00	0.00
10,300.0	88.00	19.70	7,543.2	3,867.5	1,384.7	4,108.0	0.00	0.00	0.00
10,400.0	88.00	19.70	7,546.6	3,961.6	1,418.4	4,207.9	0.00	0.00	0.00
10,500.0	88.00	19.70	7,550.1	4,055.7	1,452.1	4,307.8	0.00	0.00	0.00
10,600.0	88.00	19.70	7,553.6	4,149.8	1,485.8	4,407.8	0.00	0.00	0.00
10,700.0	88.00	19.70	7,557.1	4,243.9	1,519.5	4,507.7	0.00	0.00	0.00
10,800.0	88.00	19.70	7,560.6	4,338.0	1,553.2	4,607.7	0.00	0.00	0.00
10,900.0	88.00	19.70	7,564.1	4,432.1	1,586.8	4,707.6	0.00	0.00	0.00
11,000.0	88.00	19.70	7,567.6	4,526.2	1,620.5	4,807.5	0.00	0.00	0.00
11,100.0	88.00	19.70	7,571.1	4,620.3	1,654.2	4,907.5	0.00	0.00	0.00
11,200.0	88.00	19.70	7,574.6	4,714.4	1,687.9	5,007.4	0.00	0.00	0.00
11,300.0	88.00	19.70	7,578.1	4,808.4	1,721.6	5,107.4	0.00	0.00	0.00
11,400.0	88.00	19.70	7,581.5	4,902.5	1,755.3	5,207.3	0.00	0.00	0.00
11,500.0	88.00	19.70	7,585.0	4,996.6	1,789.0	5,307.2	0.00	0.00	0.00
11,600.0	88.00	19.70	7,588.5	5,090.7	1,822.7	5,407.2	0.00	0.00	0.00
11,700.0	88.00	19.70	7,592.0	5,184.8	1,856.3	5,507.1	0.00	0.00	0.00
11,800.0	88.00	19.70	7,595.5	5,278.9	1,890.0	5,607.0	0.00	0.00	0.00
11,900.0	88.00	19.70	7,599.0	5,373.0	1,923.7	5,707.0	0.00	0.00	0.00
12,000.0	88.00	19.70	7,602.5	5,467.1	1,957.4	5,806.9	0.00	0.00	0.00
12,100.0	88.00	19.70	7,606.0	5,561.2	1,991.1	5,906.9	0.00	0.00	0.00
12,200.0	88.00	19.70	7,609.5	5,655.3	2,024.8	6,006.8	0.00	0.00	0.00
12,300.0	88.00	19.70	7,613.0	5,749.3	2,058.5	6,106.7	0.00	0.00	0.00
12,400.0	88.00	19.70	7,616.4	5,843.4	2,092.2	6,206.7	0.00	0.00	0.00
12,500.0	88.00	19.70	7,619.9	5,937.5	2,125.8	6,306.6	0.00	0.00	0.00
12,600.0	88.00	19.70	7,623.4	6,031.6	2,159.5	6,406.6	0.00	0.00	0.00

# Crescent Directional Drilling

## Planning Report

<b>Database:</b>	EDM 2003.16 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Threemile 12-14H
<b>Company:</b>	Whiting Petroleum	<b>TVD Reference:</b>	WELL @ 6357.0ft (Bronco)
<b>Project:</b>	San Juan, UT	<b>MD Reference:</b>	WELL @ 6357.0ft (Bronco)
<b>Site:</b>	Hatch Point Field	<b>North Reference:</b>	True
<b>Well:</b>	Threemile 12-14H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Revision 06-03-09		

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)
12,700.0	88.00	19.70	7,626.9	6,125.7	2,193.2	6,506.5	0.00	0.00	0.00
12,800.0	88.00	19.70	7,630.4	6,219.8	2,226.9	6,606.4	0.00	0.00	0.00
12,900.0	88.00	19.70	7,633.9	6,313.9	2,260.6	6,706.4	0.00	0.00	0.00
13,000.0	88.00	19.70	7,637.4	6,408.0	2,294.3	6,806.3	0.00	0.00	0.00
13,100.0	88.00	19.70	7,640.9	6,502.1	2,328.0	6,906.3	0.00	0.00	0.00
13,200.0	88.00	19.70	7,644.4	6,596.2	2,361.7	7,006.2	0.00	0.00	0.00
13,300.0	88.00	19.70	7,647.9	6,690.2	2,395.3	7,106.1	0.00	0.00	0.00
13,400.0	88.00	19.70	7,651.3	6,784.3	2,429.0	7,206.1	0.00	0.00	0.00
13,500.0	88.00	19.70	7,654.8	6,878.4	2,462.7	7,306.0	0.00	0.00	0.00
13,600.0	88.00	19.70	7,658.3	6,972.5	2,496.4	7,405.9	0.00	0.00	0.00
13,700.0	88.00	19.70	7,661.8	7,066.6	2,530.1	7,505.9	0.00	0.00	0.00
13,800.0	88.00	19.70	7,665.3	7,160.7	2,563.8	7,605.8	0.00	0.00	0.00
13,900.0	88.00	19.70	7,668.8	7,254.8	2,597.5	7,705.8	0.00	0.00	0.00
14,000.0	88.00	19.70	7,672.3	7,348.9	2,631.2	7,805.7	0.00	0.00	0.00
14,100.0	88.00	19.70	7,675.8	7,443.0	2,664.8	7,905.6	0.00	0.00	0.00
14,200.0	88.00	19.70	7,679.3	7,537.1	2,698.5	8,005.6	0.00	0.00	0.00
14,300.0	88.00	19.70	7,682.8	7,631.2	2,732.2	8,105.5	0.00	0.00	0.00
14,400.0	88.00	19.70	7,686.2	7,725.2	2,765.9	8,205.5	0.00	0.00	0.00
14,500.0	88.00	19.70	7,689.7	7,819.3	2,799.6	8,305.4	0.00	0.00	0.00
14,600.0	88.00	19.70	7,693.2	7,913.4	2,833.3	8,405.3	0.00	0.00	0.00
14,700.0	88.00	19.70	7,696.7	8,007.5	2,867.0	8,505.3	0.00	0.00	0.00
14,800.0	88.00	19.70	7,700.2	8,101.6	2,900.7	8,605.2	0.00	0.00	0.00
14,900.0	88.00	19.70	7,703.7	8,195.7	2,934.3	8,705.2	0.00	0.00	0.00
15,000.0	88.00	19.70	7,707.2	8,289.8	2,968.0	8,805.1	0.00	0.00	0.00
15,100.0	88.00	19.70	7,710.7	8,383.9	3,001.7	8,905.0	0.00	0.00	0.00
15,200.0	88.00	19.70	7,714.2	8,478.0	3,035.4	9,005.0	0.00	0.00	0.00
15,300.0	88.00	19.70	7,717.7	8,572.1	3,069.1	9,104.9	0.00	0.00	0.00
15,400.0	88.00	19.70	7,721.1	8,666.1	3,102.8	9,204.9	0.00	0.00	0.00
15,500.0	88.00	19.70	7,724.6	8,760.2	3,136.5	9,304.8	0.00	0.00	0.00
15,600.0	88.00	19.70	7,728.1	8,854.3	3,170.2	9,404.7	0.00	0.00	0.00
15,700.0	88.00	19.70	7,731.6	8,948.4	3,203.8	9,504.7	0.00	0.00	0.00
15,800.0	88.00	19.70	7,735.1	9,042.5	3,237.5	9,604.6	0.00	0.00	0.00
15,900.0	88.00	19.70	7,738.6	9,136.6	3,271.2	9,704.5	0.00	0.00	0.00
16,000.0	88.00	19.70	7,742.1	9,230.7	3,304.9	9,804.5	0.00	0.00	0.00
16,100.0	88.00	19.70	7,745.6	9,324.8	3,338.6	9,904.4	0.00	0.00	0.00
16,200.0	88.00	19.70	7,749.1	9,418.9	3,372.3	10,004.4	0.00	0.00	0.00
16,300.0	88.00	19.70	7,752.6	9,513.0	3,406.0	10,104.3	0.00	0.00	0.00
16,400.0	88.00	19.70	7,756.0	9,607.0	3,439.7	10,204.2	0.00	0.00	0.00
16,500.0	88.00	19.70	7,759.5	9,701.1	3,473.3	10,304.2	0.00	0.00	0.00
16,600.0	88.00	19.70	7,763.0	9,795.2	3,507.0	10,404.1	0.00	0.00	0.00
16,700.0	88.00	19.70	7,766.5	9,889.3	3,540.7	10,504.1	0.00	0.00	0.00
16,800.0	88.00	19.70	7,770.0	9,983.4	3,574.4	10,604.0	0.00	0.00	0.00
16,900.0	88.00	19.70	7,773.5	10,077.5	3,608.1	10,703.9	0.00	0.00	0.00
17,000.0	88.00	19.70	7,777.0	10,171.6	3,641.8	10,803.9	0.00	0.00	0.00
17,100.0	88.00	19.70	7,780.5	10,265.7	3,675.5	10,903.8	0.00	0.00	0.00
17,200.0	88.00	19.70	7,784.0	10,359.8	3,709.2	11,003.8	0.00	0.00	0.00
17,300.0	88.00	19.70	7,787.5	10,453.9	3,742.8	11,103.7	0.00	0.00	0.00
17,400.0	88.00	19.70	7,790.9	10,547.9	3,776.5	11,203.6	0.00	0.00	0.00
17,464.4	88.00	19.70	7,793.2	10,608.5	3,798.2	11,268.0	0.00	0.00	0.00

# Crescent Directional Drilling

## Planning Report

<b>Database:</b>	EDM 2003.16 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Threemile 12-14H
<b>Company:</b>	Whiting Petroleum	<b>TVD Reference:</b>	WELL @ 6357.0ft (Bronco)
<b>Project:</b>	San Juan, UT	<b>MD Reference:</b>	WELL @ 6357.0ft (Bronco)
<b>Site:</b>	Hatch Point Field	<b>North Reference:</b>	True
<b>Well:</b>	Threemile 12-14H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Revision 06-03-09		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
5,950.8	5,840.0	Barker Creek		0.00		
5,109.1	5,027.0	Akah		0.00		
852.0	852.0	Chinle		0.00		
3,077.9	3,065.0	Hoaker Trail		0.00		
4,653.6	4,587.0	Ismay		0.00		
7,186.9	7,034.0	Alkali Gulch		0.00		
7,917.4	7,460.0	Cane Creek		0.00		
1,702.0	1,702.0	Organ Rock		0.00		
535.0	535.0	Wingate		0.00		
4,177.4	4,127.0	La Sal		0.00		
2,164.0	2,164.0	Elephant Canyon		0.00		
1,369.0	1,369.0	Moenkopi		0.00		

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
2,200.0	2,200.0	0.0	0.0	KOP 2/100'	
2,950.0	2,941.5	91.9	32.9	EOB Hold 15 Deg	
7,188.7	7,035.7	1,124.8	402.7	KOP 10/100'	
7,918.7	7,460.0	1,627.0	582.5	EOB Hold 88 Deg	

<b>RECOMMENDED BY</b>			<b>WHITING PETROLEUM CORP.</b> 1700 BROADWAY Suite 2300 Denver, CO 80290 303-837-1661
Larry Rasmussen			
<b>REVISIONS:</b>			
1	updated tops & BHL	<b>DATE:</b>	05/22/09
2		<b>DATE:</b>	

WELL INFORMATION			
<b>API:</b>	43-037-31899-00	<b>AFE:</b>	
<b>WELL NAME:</b>	THREEMILE # 12-14H	<b>ACQUISITION:</b>	Equity
<b>PROSPECT:</b>	THREEMILE (Hatch Point)	<b>RESERVE CATEGORY:</b>	
<b>SURFACE LOCATION:</b>	SWNE 14 29S 21E	<b>SURFACE LONG, LAT:</b>	-109.5754466, 38.2820548
<b>SURFACE FOOTAGE:</b>	1580 FNL 1900 FEL	<b>BOTTOM HOLE LONG, LAT:</b>	-109.5613879, 38.3109658
<b>BOTTOM HOLE LOCATION:</b>	SENW 1 29S 21E	<b>SURVEYED ELEVATION (GR):</b>	6,313
<b>BOTTOM HOLE FOOTAGE:</b>	1650 FNL 2150 FWL	<b>HEIGHT TO KB:</b>	29
<b>COUNTY:</b>	San Juan	<b>ACTUAL ELEV. (KB):</b>	6,343
<b>STATE:</b>	UT	<b>TVD (if horizontal well):</b>	ft.
<b>LOCATION MAY BE MOVED:</b>		<b>TMD (if horizontal well):</b>	ft.
<b>PROPOSED DEPTH (TVD):</b>	7,610	<b>FORMATION AT TD:</b>	Paradox

FORMATION	TOP - TVD	TOP - TVDSS	INTVL	CORE	LITHOLOGY	GEOLOGIC HAZARDS
Surface: Entrada Fm	30	6,313	505		Sandstone	
Wingate SS	535	5,808	317		Sandstone	
Chinle Fm	852	5,491	517		Red Beds: SS, Sl, SH	
Moenkopi Fm	1,369	4,974	333		Red Beds: SS, Sl, SH	
Organ Rock Fm	1,702	4,641	462		Red Beds: SS, Sl, SH	
Elephant Canyon Fm	2,164	4,179	901		SS, SH, LS	<- (1st LS is top of Eleph Cyn)
Honaker Trail Fm	3,065	3,278	1,062		SS, SH, LS	
La Sal LS (Honaker Trail Fm)	4,127	2,216	460		Limestone	
Ismay Mbr (Paradox Fm)	4,587	1,756	440		LS, SH, DO, ANHY	
Akah Mbr (Paradox Fm)	5,027	1,316	813		HA, ANHY, SH	poss. hi pressure
Barker Creek Mbr (Paradox Fm)	5,840	503	1,194		HA, ANHY, SH	poss. hi pressure
Alkali Gulch Mbr (Paradox Fm)	7,034	(691)	426		HA, ANHY, SH	poss. hi pressure
Cane Creek Zn (Alkali Gulch)	7,460	(1,117)	203		ANHY, SH, SS	poss. hi press - up to 0.94 psi/ft
Pinkerton Trail Fm	7,663	(1,320)	(1,320)		LS, SH, DO	

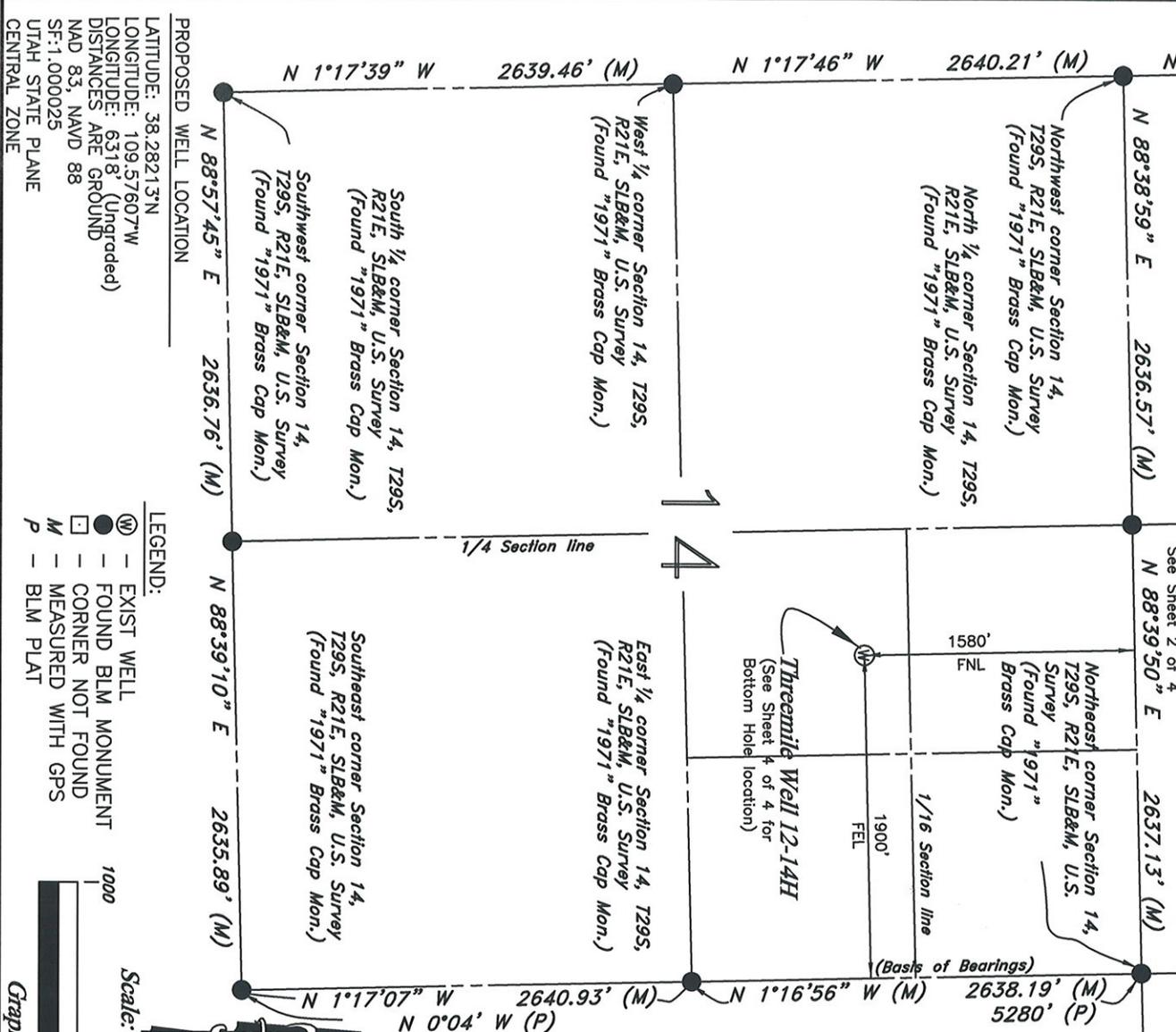
WIRELINE LOGS		CORING & CUTTINGS	
<b>LOGGING COMPANY:</b>		<b>CORING TOOL CO:</b>	
<b>INDUCTION - ELECTRIC:</b>	YES	<b>CORE ANALYSIS CO:</b>	
<b>FROM:</b>	TD to surf		
<b>DENSITY/NEUTRON:</b>	YES	<b>30' SAMPLES:</b>	0 TO: 7000'
<b>FROM:</b>	TD to surf	<b>10' SAMPLES:</b>	7000' TO: TD
<b>MICRO-RESISTIVITY:</b>		<b>SHIP CUTTINGS TO:</b>	
<b>FROM:</b>			
<b>ACOUSTIC:</b>			
<b>FROM:</b>			
<b>OTHER:</b>			

WELLSITE GEOLOGIST		MUD LOGGER	
<b>NAME:</b>	Hal Schmidt	<b>NAME:</b>	Glenn McCaslin
<b>PHONE:</b>		<b>PHONE:</b>	
<b>STARTING DEPTH:</b>	Surface	<b>STARTING DEPTH:</b>	Surface

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

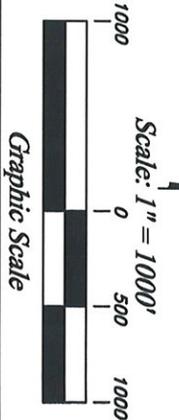
**SPECIAL INSTRUCTIONS:** The Paradox salt section has the potential for high pressures and the pressure gradient increases with depth. Pressure gradients in the Cane Creek are up to 0.94 psi/ft.

WELL PLAT FOR THE "THREEMILE WELL 12-14H"  
SECTION 14, T29S-R21E, SLB&M, SAN JUAN COUNTY, UTAH



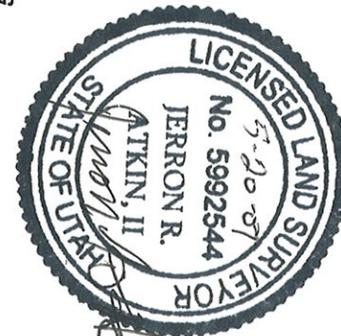
PROPOSED WELL LOCATION  
 LATITUDE: 38.282137N  
 LONGITUDE: 109.576077W  
 DISTANCES ARE GROUND  
 NAD 83 NAVD 88  
 SF: 1.000025  
 UTAH STATE PLANE  
 CENTRAL ZONE

LEGEND:  
 (W) - EXIST WELL  
 (●) - FOUND BLM MONUMENT  
 (□) - CORNER NOT FOUND  
 (M) - MEASURED WITH GPS  
 (P) - BLM PLAT



PROJECT: THREEMILE WELL 12-14H  
 WHITING OIL & GAS  
 WESTERN LAND SERVICES  
 Richfield, UT 84701 (435) 896-5501  
 File: THREEMILE 12-14HDWG  
 Date: 05/20/09  
 Sheet: 1 of 4

**CERTIFICATION**  
 I, Jerron R. Atkin II, do hereby certify that I am a Registered Land Surveyor, and that I hold Certificate No. 5992544, as prescribed by the Laws of the State of Utah, and I have made a survey based on information collected on the ground and of record. I have relied upon two BLM plats and notes of Township 29 South, Range 21 East, (1) conducted by Leland P. Lewis and approved April 11, 1955 as file No. 1439, and (2) conducted by H. Dennis Badger and approved June 25, 1973 a file No. 1439A. I further certify that the above plat correctly shows the true dimensions of the property surveyed.

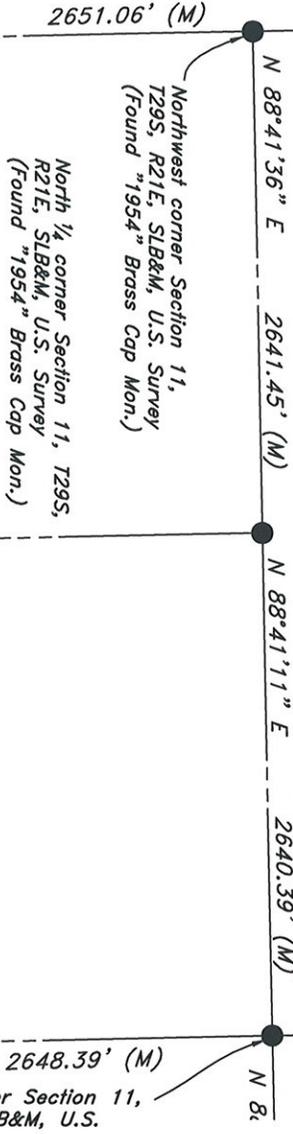


**BASIS OF BEARING**  
 Basis of bearing is N 1°16'56" W between the Northeast corner and East 1/4 corner of Section 14, T29S, R21E, S.L.B.&M., U.S. Survey.

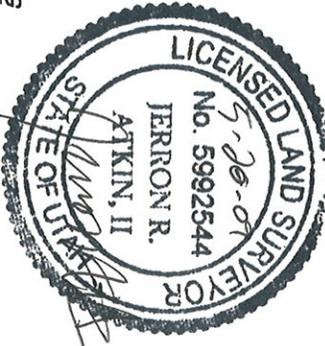
**BASIS OF ELEVATION**  
 Elevation based on a GPS observation of a rebar control point set by Western Land Services for this survey which is located in the Northwest Quarter of Section 24, T29S, R21E, S.L.B.&M., U.S. Survey. Elevation=6214 feet.

**NARRATIVE**  
 The purpose of this survey is to plat the proposed location the "THREEMILE WELL 12-14H" which is located in the Southwest 1/4 of the Northeast Quarter of Section 14, T29S, R21E, S.L.B.&M., U.S. Survey. A well plat signed by Ryan Savage on June 24, 2008 titled "THREEMILE 12-14H", project No. 0804-0125, was relied upon in conducting this survey.

**WELL PLAT FOR THE "THREEMILE WELL 12-14H"  
SECTION 11, T29S-R21E, SLB&M, SAN JUAN COUNTY, UTAH**



**CERTIFICATION**  
I, Jerron R. Atkin II, do hereby certify that I am a Registered Land Surveyor, and that I hold Certificate No. 5992544, as prescribed by the Laws of the State of Utah, and I have made a survey based on information collected on the ground and of record. I have relied upon two BLM plats and notes of Township 29 South, Range 21 East, (1) conducted by Leland P. Lewis and approved April 11, 1955 as file No. 1439, and (2) conducted by H. Dennis Badger and approved June 25, 1973 a file No. 1439A. I further certify that the above plat correctly shows the true dimensions of the property surveyed.



**BASIS OF BEARING**  
Basis of bearing is N 1°16'56" W between the Northeast corner and East 1/4 corner of Section 14, T29S, R21E, S.L.B.&M., U.S. Survey.

**BASIS OF ELEVATION**  
Elevation based on a GPS observation of a rebar control point set by Western Land Services for this survey which is located in the Northwest Quarter of Section 24, T29S, R21E, S.L.B.&M., U.S. Survey. Elevation=6214 feet.

**NARRATIVE**  
The purpose of this survey is to plat the proposed location of the "THREEMILE WELL 12-14H" which is located in the Southwest 1/4 of the Northeast Quarter of Section 14, T29S, R21E, S.L.B.&M., U.S. Survey. A well plat signed by Ryan Savage on June 24, 2008 titled "THREEMILE 12-14D", project No. 0804-0125, was relied upon in conducting this survey.

PROJECT: THREEMILE WELL 12-14H  
WHITING OIL & GAS



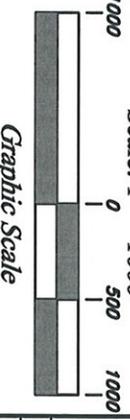
**WESTERN LAND SERVICES**

Richfield, UT 84701 (435) 896-5501

File: THREEMILE 12-14HDWG Date: 05/20/09

Sheet: 2 of 4

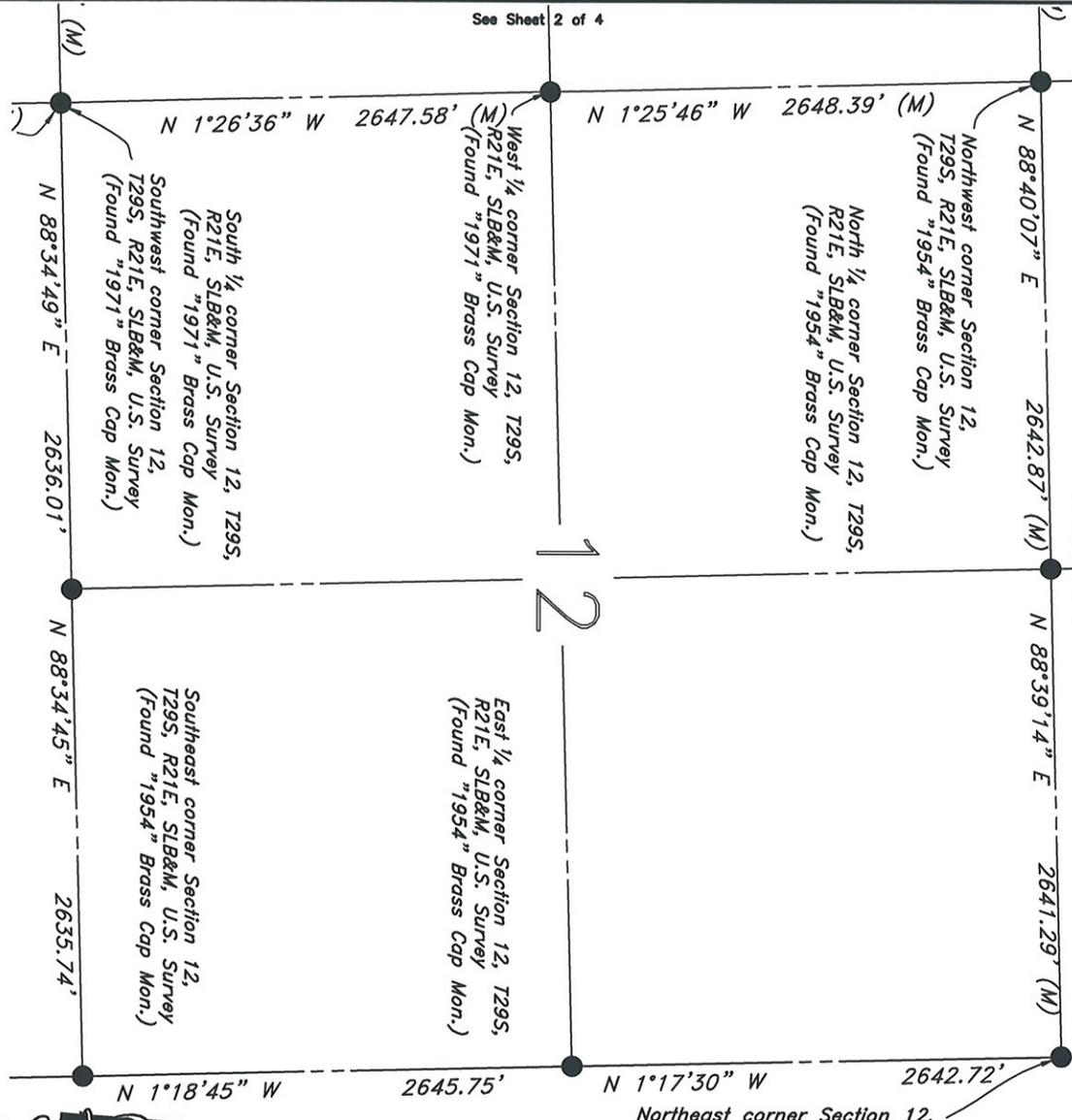
- LEGEND:**
- — FOUND BLM MONUMENT
  - — CORNER NOT FOUND
  - M — MEASURED WITH GPS
  - P — BLM PLAT



DISTANCES ARE GROUND  
NAD 83, NAVD 88  
SF: 1.000025  
UTAH STATE PLANE  
CENTRAL ZONE

WELL PLAT FOR THE "THREEMILE WELL 12-14H"  
SECTION 12, T29S-R21E, SLB&M, SAN JUAN COUNTY, UTAH

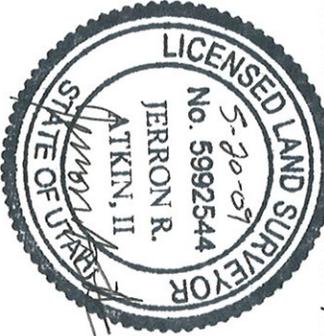
See Sheet 2 of 4



Northwest corner Section 12, T29S, R21E, SLB&M, U.S. Survey (Found "1954" Brass Cap Mon.)

**CERTIFICATION**

I, Jerron R. Atkin II, do hereby certify that I am a Registered Land Surveyor, and that I hold Certificate No. 5992544, as prescribed by the Laws of the State of Utah, and I have made a survey based on information collected on the ground and of record. I have relied upon two BLM plats and notes of Township 29 South, Range 21 East, (1) conducted by Leland P. Lewis and approved April 11, 1955 as file No. 1439, and (2) conducted by H. Dennis Badger and approved June 25, 1973 a file No. 1439A. I further certify that the above plat correctly shows the true directions of the property surveyed.



**BASIS OF BEARING**

Basis of bearing is N 1°16'56" W between the Northeast corner and East 1/4 corner of Section 14, T29S, R21E, S.L.B.&M., U.S. Survey.

**BASIS OF ELEVATION**

Elevation based on a GPS observation of a rebar control point set by Western Land Services for this survey which is located in the Northwest Quarter of Section 24, T29S, R21E, S.L.B.&M., U.S. Survey. Elevation=6214 feet.

**NARRATIVE**

The purpose of this survey is to plat the proposed location of the "THREEMILE WELL 12-14H" which is located in the Southwest 1/4 of the Northeast Quarter of Section 14, T29S, R21E, S.L.B.&M., U.S. Survey. A well plat signed by Ryan Savage on June 24, 2008 titled "THREEMILE 12-14D", project No. 0804-0125, was relied upon in conducting this survey.

PROJECT: THREEMILE WELL 12-14H  
WHITING OIL & GAS

Scale: 1" = 1000'



**LEGEND:**

- FOUND BLM MONUMENT
- CORNER NOT FOUND
- M - MEASURED WITH GPS
- P - BLM PLAT

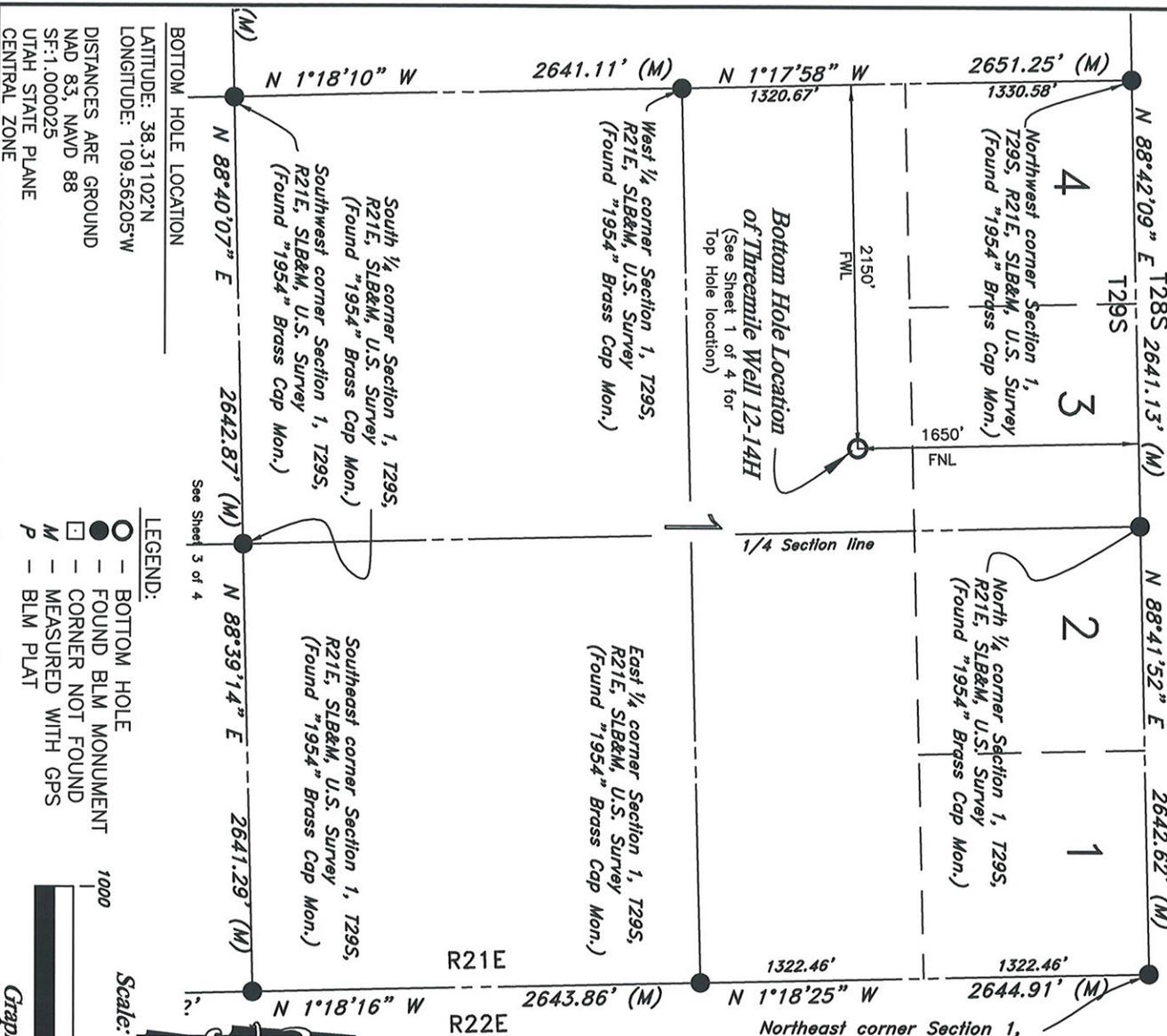
DISTANCES ARE GROUND  
NAD 83, NAVD 88  
S.F.: 1.000025  
UTAH STATE PLANE  
CENTRAL ZONE

WESTERN LAND SERVICES

Richfield, UT 84701 (435) 896-5501

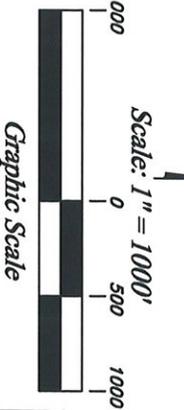
File: THREEMILE 12-14HDWG Date: 05/20/09  
Sheet: 3 of 4

WELL PLAT FOR THE "THREEMILE WELL 12-14H"  
SECTION 1, T29S-R21E, SLB&M, SAN JUAN COUNTY, UTAH



BOTTOM HOLE LOCATION  
LATITUDE: 38.31102°N  
LONGITUDE: 109.56205°W  
DISTANCES ARE GROUND  
NAD 83, NAVD 88  
SF: 1.000025  
UTAH STATE PLANE  
CENTRAL ZONE

LEGEND:  
○ — BOTTOM HOLE  
● — FOUND BLM MONUMENT  
□ — CORNER NOT FOUND  
M — MEASURED WITH GPS  
P — BLM PLAT



PROJECT: THREEMILE WELL 12-14H  
WHITTING OIL & GAS

WESTERN LAND SERVICES  
Richfield, UT 84701 (435) 896-5501  
File: THREEMILE 12-14H.DWG  
Date: 05/20/09  
Sheet 4 of 4



**CERTIFICATION**  
I, Jerron R. Atkin II, do hereby certify that I am a Registered Land Surveyor, and that I hold Certificate No. 5992544, as prescribed by the Laws of the State of Utah, and I have made a survey based on information collected on the ground and of record. I have relied upon two BLM plats and notes of Township 29 South, Range 21 East, (1) conducted by Leland P. Lewis and approved April 11, 1955 as file No. 1439, and (2) conducted by H. Dennis Badger and approved June 25, 1973 a file No. 1439A. I further certify that the above plat correctly shows the true dimensions of the property surveyed.

Northeast corner Section 1, T29S, R21E, SLB&M, U.S. Survey (Found "1954" Brass Cap Mon.)

**BASIS OF BEARING**  
Basis of bearing is N 1°16'56" W between the Northeast corner and East 1/4 corner of Section 14, T29S, R21E, S.L.B.&M., U.S. Survey.

**BASIS OF ELEVATION**  
Elevation based on a GPS observation of a rebar control point set by Western Land Services for this survey which is located in the Northwest Quarter of Section 24, T29S, R21E, S.L.B.&M., U.S. Survey. Elevation=6214 feet.

**NARRATIVE**  
The purpose of this survey is to plat the proposed location of the "THREEMILE WELL 12-14H" which is located in the Southwest 1/4 of the Northeast Quarter of Section 14, T29S, R21E, S.L.B.&M., U.S. Survey. A well plat signed by Ryan Savage on June 24, 2008 titled "THREEMILE 12-14D", project No. 0804-0125, was relied upon in conducting this survey.



WHITING OIL AND GAS CORPORATION  
SECTION 14, T29S, R21E, SLB&M

ESTIMATED EARTHWORK VOLUMES  
\*VOLUMES ARE UNADJUSTED\*

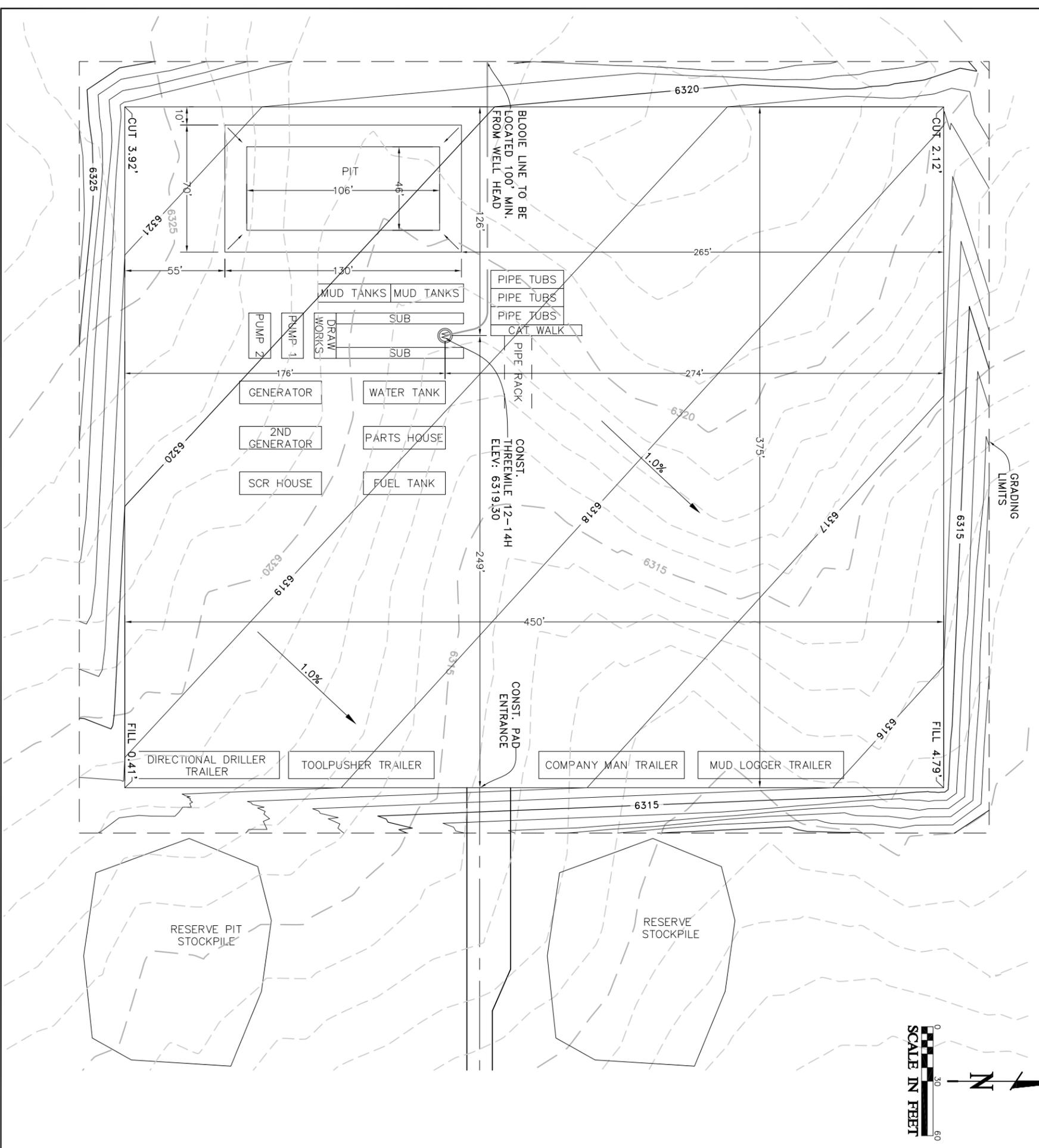
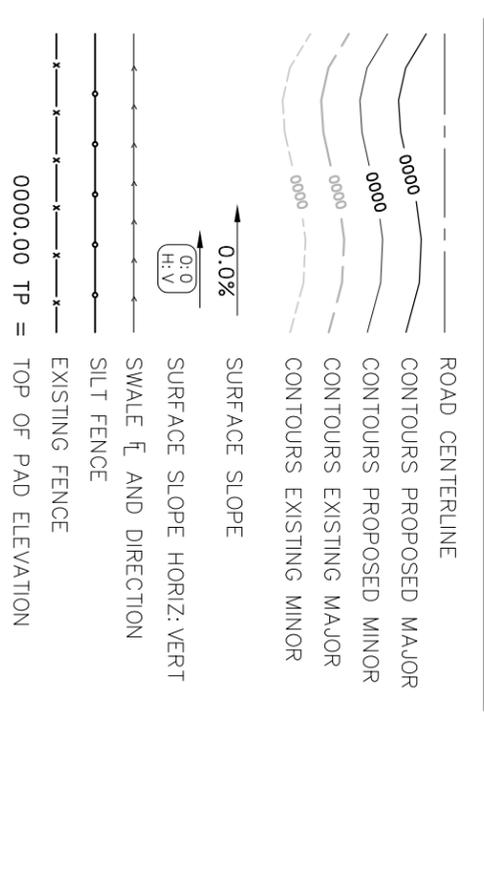
<b>PAD</b>	WELL ELEV:	6319.30
	TOTAL CUT:	8805 CU.YDS
	TOTAL FILL:	8559 CU.YDS
	NET VOLUME:	246 CU.YDS (CUT)

<b>PIT</b>	VOLUME:	3042 CU.YDS
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**CONTRACTOR NOTES:**

1. RECLAIM ALL DRAINAGE'S AFTER PROJECT COMPLETION
2. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL IMPORTING AND EXPORTING OF SOIL MATERIAL NECESSARY TO COMPLETE THE PROJECT AS DESIGNED. EARTHWORK CALCULATIONS SHOWN ON THESE PLANS ARE BASED ON THE INPLACE 95% COMPACTION FILL. CONTRACTOR SHALL BE RESPONSIBLE TO DETERMINE SHRINK/SWELL OF EXISTING AND FILL MATERIAL AND FOR ALL EARTHWORK QUANTITIES.

**LEGEND**



**WESTERN LAND SERVICES**  
 Richfield, UT 84701 (435)896-5501  
 CLIENT: WHITING OIL AND GAS CORPORATION  
 PROJECT NO: THREEMILE 12-14H  
 DRAWN BY: C. HILL DATE: 5/20/09 SHEET NO: 1 OF 1  
 CHECKED BY: C. HILL SCALE: 1" = 60'

<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> UTU-76580
<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>  <b>7. UNIT or CA AGREEMENT NAME:</b> THREEMILE
<b>1. TYPE OF WELL</b> Oil Well	<b>8. WELL NAME and NUMBER:</b> THREEMILE 12-14H
<b>2. NAME OF OPERATOR:</b> WHITING OIL & GAS CORPORATION	<b>9. API NUMBER:</b> 43037318990000
<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> 1580 FNL 1900 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNE Section: 14 Township: 29.0S Range: 21.0E Meridian: S	<b>9. FIELD and POOL or WILDCAT:</b> HATCH POINT  <b>COUNTY:</b> SAN JUAN  <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: 9/25/2009	<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 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 checked="" 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 & Gas Company is requesting an extension on this APD.

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

**Date:** September 30, 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> 9/24/2009



**The Utah Division of Oil, Gas, and Mining**

- State of Utah  
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

**Request for Permit Extension Validation Well Number 43037318990000**

**API:** 43037318990000

**Well Name:** THREEMILE 12-14H

**Location:** 1580 FNL 1900 FEL QTR SWNE SEC 14 TWP 290S RNG 210E MER S

**Company Permit Issued to:** WHITING OIL & GAS CORPORATION

**Date Original Permit Issued:** 9/25/2008

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
- 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 rightof- 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

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

**Signature:** Terri Hartle

**Date:** 9/24/2009

**Title:** Admin/Regulatory (Western Land Services)

**Representing:** WHITING OIL & GAS CORPORATION

**Date:** September 30, 2009

**By:** 