

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

## APPLICATION FOR PERMIT TO DRILL OR REENTER

|                                                                                                                                                                                                                        |  |                                                                         |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------|--|
| 1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER                                                                                                                           |  | 5. Lease Serial No.<br>NMNM016353                                       |  |
| 1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone |  | 6. If Indian, Allottee or Tribe Name                                    |  |
| 2. Name of Operator XTO Energy, Inc. (5380)                                                                                                                                                                            |  | 7. If Unit or CA Agreement, Name and No.                                |  |
| 3a. Address 500 W. Illinois St. Ste 100<br>Midland, Texas 79701                                                                                                                                                        |  | 8. Lease Name and Well No. (31531)<br>Outrider Federal #6H              |  |
| 3b. Phone No. (include area code)<br>432-620-6714                                                                                                                                                                      |  | 9. API Well No.<br>30-025-42932                                         |  |
| 4. Location of Well (Report location clearly and in accordance with any State requirements.)<br>At surface 170'FNL & 2115'FWL, C-27-T24S-R32E<br>At proposed prod. zone 170' S 1955' FNL & 2115'FWL, C-27-T24S-R32E    |  | 10. Field and Pool, or Exploratory<br>WC-025 G-06 S253306M; Bone Spring |  |
| 14. Distance in miles and direction from nearest town or post office*                                                                                                                                                  |  | 11. Sec., T. R. M. or Blk. and Survey or Area<br>C-27-T24S-R32E         |  |
| 15. Distance from proposed* 170'<br>location to nearest<br>property or lease line, ft.<br>(Also to nearest drig. unit line, if any)                                                                                    |  | 12. County or Parish<br>Lea                                             |  |
| 16. No. of acres in lease<br>1720                                                                                                                                                                                      |  | 13. State<br>NM                                                         |  |
| 17. Spacing Unit dedicated to this well<br>160                                                                                                                                                                         |  |                                                                         |  |
| 18. Distance from proposed location* 1480' (to Outrider #5H)<br>to nearest well, drilling, completed,<br>applied for, on this lease, ft.                                                                               |  | 19. Proposed Depth<br>MD: 15615'<br>TVD: 10920'                         |  |
| 20. BLM/BIA Bond No. on file<br>UTB000138                                                                                                                                                                              |  |                                                                         |  |
| 21. Elevations (Show whether DF, KDB, RT, GL, etc.)<br>3587'                                                                                                                                                           |  | 22. Approximate date work will start*<br>08/01/2015                     |  |
| 23. Estimated duration<br>45 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.                                                                                               | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan.                                                                                                                            | 5. Operator certification                                                                       |
| 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). | 6. Such other site specific information and/or plans as may be required by the BLM.             |

|                                                |                                           |                    |
|------------------------------------------------|-------------------------------------------|--------------------|
| 25. Signature<br><i>Stephanie Rabadue</i>      | Name (Printed/Typed)<br>Stephanie Rabadue | Date<br>03/19/2015 |
| Title<br>Regulatory Analyst                    |                                           |                    |
| Approved by (Signature)<br><i>Steve Caffey</i> | Name (Printed/Typed)                      | Date<br>NOV 4 2015 |
| Title<br>FIELD MANAGER                         | Office<br>CARLSBAD 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.

APPROVAL FOR TWO YEARS

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

(Continued on page 2)

\*(Instructions on page 2)

Carlsbad Controlled Water Basin

K2  
11/06/15Approval Subject to General Requirements  
& Special Stipulations AttachedSEE ATTACHED FOR  
CONDITIONS OF APPROVAL

NOV 09 2015

NOV 05 2015

RECEIVED

**DRILLING PLAN: BLM COMPLIANCE**  
(Supplement to BLM 3160-3)

XTO Energy Inc.  
Outrider Federal 6H  
Projected TD: 15615' MD / 10920' TVD  
SHL: 170' FNL & 2115' FWL, SECTION 27, T24S, R32E  
BHL: 170' FSL & 1955' FWL, SECTION 27, T24S, R32E  
Lea County, NM

**1. GEOLOGIC NAME OF SURFACE FORMATION:**

A. Permian

**2. ESTIMATED TOPS OF GEOLOGICAL MARKERS & DEPTHS OF ANTICIPATED FRESH WATER, OIL OR GAS:**

| Formation                      | Well Depth (TVD) | Water / Oil / Gas |
|--------------------------------|------------------|-------------------|
| Rustler                        | 1012'            | Water             |
| Top of Salt                    | 1315'            |                   |
| Base of Salt                   | 4634'            |                   |
| Delaware                       | 4859'            | Water             |
| Brushy Canyon                  | 7350'            | Water/Oil/Gas     |
| Bone Spring                    | 8772'            | Water/Oil/Gas     |
| 1 <sup>st</sup> Bone Spring Ss | 9883'            | Water/Oil/Gas     |
| 2 <sup>nd</sup> Bone Spring Ss | 10440'           | Water/Oil/Gas     |
| Target/Land Curve              | 10920'           | Water/Oil/Gas     |

\*\*\* Hydrocarbons @ Brushy Canyon

\*\*\* Groundwater depth 200' (per NM State Engineers Office).

No other formations are expected to yield oil, gas or fresh water in measurable volumes. The surface fresh water sands will be protected by setting 13-3/8" casing @ ~~1075'~~ <sup>1100'</sup> above the salt and circulating cement back to surface. The salt will be isolated by setting 9-5/8" casing at 4875' and circulating cement to surface. An 8-3/4" curve and lateral hole will be drilled to MD/TD and 5-1/2" casing with sliding frac sleeves will be set at TD and cemented back 500' into the 9-5/8" casing shoe.

**3. CASING PROGRAM:**

See COA

| Hole Size | Depth                                  | OD Csg  | Weight | Collar | Grade | New/Used | SF Burst | SF Collapse | SF Tension |
|-----------|----------------------------------------|---------|--------|--------|-------|----------|----------|-------------|------------|
| 17-1/2"   | 0' - <del>1075'</del> <sup>1100'</sup> | 13-3/8" | 48#    | STC    | H-40  | New      | 4.33     | 1.50        | 6.24       |
| 12-1/4"   | 0' - 3500'                             | 9-5/8"  | 36#    | LTC    | J-55  | New      | 1.68     | 1.16        | 2.50       |
|           | 3500' - 4875'                          | 9-5/8"  | 40#    | LTC    | J-55  | New      | 1.88     | 1.36        | 9.45       |
| 8-3/4"    | 0' - 15615'                            | 5-1/2"  | 17#    | BTC    | P-110 | New      | 1.12     | 1.46        | 2.14       |



## WELLHEAD:

- A. Starting Head: 13-5/8" 3000 psi top flange x 13-3/8" SOW bottom
- B. 'B' Section/ Drilling Spool: 13-5/8" 3000psi bottom flange x 11" 5M top flange
- C. Tubing Head: 11" 5000psi bottom flange x 7-1/16" 10,000psi top flange

## 4. CEMENT PROGRAM:

- A. **Surface Casing:** 13-3/8", 48#, NEW H-40, STC casing to be set at  $\pm 1075'$ .

Lead: 20 bbls FW, then 635 sx ExtendaCem-CZ (mixed at 13.7 ppg, 1.68 ft<sup>3</sup>/sk, 8.72 gal/sx wtr)

Tail: 305 sx HalCem-C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft<sup>3</sup>/sk, 6.39 gal/sx wtr)

\*\*\*All volumes 100% excess in open hole. Cement to surface.

- B. **Intermediate Casing:** 9-5/8", 36#/40#, NEW J-55, LTC casing to be set at  $\pm 4875'$ .

Lead: 20 bbls FW, then 1450 sx EconoCem-HLC + 5% salt + 5 lbm/sk Kol-Seal (mixed at 12.9 ppg, 1.88 ft<sup>3</sup>/sk, 9.61 gal/sx wtr)

Tail: 250 sx HalCem-C (mixed at 14.8 ppg, 1.33 ft<sup>3</sup>/sk, 6.34 gal/sx wtr)

\*\*\*All volumes 100% excess in open hole. Cement to surface.

- C. **Production Casing:** 5-1/2", 17#, NEW P-110, BTC casing to be set at  $\pm 15615'$ . Casing will be cemented and will include sliding sleeves for the completion.

Lead: 20 bbls FW, then 625 sx Tuned Light + 0.5 lbm/sk CFR-3 + 1.5 lbm/sk salt + 0.1% HR601 (mixed at 10.5 ppg, 2.69 ft<sup>3</sup>/sk, 12.26 gal/sx wtr)

Tail: 1245 sx VersaCem PBHS2 + 0.5% LAP-1 + 0.25 lbm/sk D-air 5000 + 0.2% HR 601 + 0.4% CFR-3 + 1 pps Salt (mixed at 13.2 ppg, 1.61 ft<sup>3</sup>/sk, 8.38 gal/sx wtr)

\*\*\*All volumes 30% excess in open hole. Planned top of cement 500' into intermediate casing shoe

## 5. PRESSURE CONTROL EQUIPMENT:

The blow out preventer equipment (BOP) for this well consists of a 13-5/8" minimum 3M Hydril and a 13-5/8" minimum 3M Double Ram BOP. Max bottom hole pressure should not exceed 5100 psi.

All BOP testing will be done by an independent service company. Annular pressure tests will be limited to 50% of the working pressure. When nipping up on the 13-5/8" 3M bradenhead and flange, the BOP test will be limited to 3000psi. When nipping up on the 9-5/8", the BOP will be tested to a minimum of 3000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 3M BOP diagrams are attached. Blind rams will be functioned tested each trip, pipe rams will be functioned tested each day.

*See COA*  
A variance is requested to allow use of a flex hose as the choke line from the BOP to the Choke Manifold. If this hose is used, a copy of the manufacturer's certification and pressure test chart will be kept on the rig. Attached is an example of a certification and pressure test chart. The manufacturer does not require anchors.

## 6. PROPOSED MUD CIRCULATION SYSTEM:

*See COA*

| INTERVAL                            | Hole Size | Mud Type                     | MW (ppg)   | Viscosity (sec/qt) | Fluid Loss (cc) |
|-------------------------------------|-----------|------------------------------|------------|--------------------|-----------------|
| 0' to <del>1075'</del> <i>1100'</i> | 17-1/2"   | FW/Native                    | 8.4 - 8.8  | 35 - 40            | NC              |
| <del>1075'</del> to 4875'           | 12-1/4"   | Brine/Gel Sweeps             | 9.8 - 10.2 | 30 - 32            | NC              |
| 4875' to 15615'                     | 8-3/4"    | FW / Cut Brine / Poly-Sweeps | 8.6 - 9.0  | 29 - 32            | NC - 20         |

The necessary mud products for weight addition and fluid loss control will be on location at all times.

Spud with fresh water/native mud. Drill out from under 13-3/8" surface casing with brine solution. A 9.8ppg-10.2ppg brine mud will be used while drilling through the salt formation. Use fibrous materials as needed to control seepage and lost circulation. Pump viscous sweeps as needed for hole cleaning. Pump speed will be recorded on a daily drilling report after mudding up. A Pason or Totco will be used to detect changes in loss or gain of mud volume. A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system.

## **7. AUXILIARY WELL CONTROL AND MONITORING EQUIPMENT:**

- See COA*
- A. A Kelly cock will be in the drill string at all times.
  - B. A full opening drill pipe stabbing valve having appropriate connections will be on the rig floor at all times.
  - C. H2S monitors will be on location when drilling below the 13-3/8" casing.

## **8. LOGGING, CORING AND TESTING PROGRAM:**

Mud Logger: Mud Logging Unit (2 man) on @ 4875'.  
Catch 20' samples from 4875' to TD

Open hole logging to include Density/Neutron/PE/Dual Laterlog/Spectral Gamma from KOP to intermediate casing shoe.

## **9. ABNORMAL PRESSURES AND TEMPERATURES / POTENTIAL HAZARDS:**

*See COA*

None anticipated. BHT of 160 F is anticipated. No H2S is expected but monitors will be in place to detect any H2S occurrences. Should these circumstances be encountered the operator and drilling contractor are prepared to take all necessary steps to ensure safety of all personnel and environment. Lost circulation could occur but is not expected to be a serious problem in this area and hole seepage will be compensated for by additions of small amounts of LCM in the drilling fluid.

## **10. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS:**

Road and location construction will begin after Santa Fe and BLM have approved the APD. Anticipated spud date will be as soon after Santa Fe and BLM approval and as soon as a rig will be available. Move in operations and drilling is expected to take 40 days. If production casing is run, an additional 30 days will be needed to complete well and construct surface facilities and/or lay flow lines in order to place well on production.



# XTO Energy Inc.

## HALLIBURTON

Sperry Drilling



Project: Lea County, NM (NAD27)  
Site: Outrider Federal  
Well: Outrider Federal No 6H  
Wellbore: Wellbore #1  
Plan: Plan #2  
Rig: NorAm 25

### SURFACE LOCATION

US State Plane 1927 (Exact solution)  
New Mexico East 3001  
Elevation: GL 3587' + KB 25' @ 3612.00usft (NorAm 25)  
Northing Easting Latitude Longitude  
435380.60 707127.10 32° 11' 42.740 N 103° 39' 49.515 W

### WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)

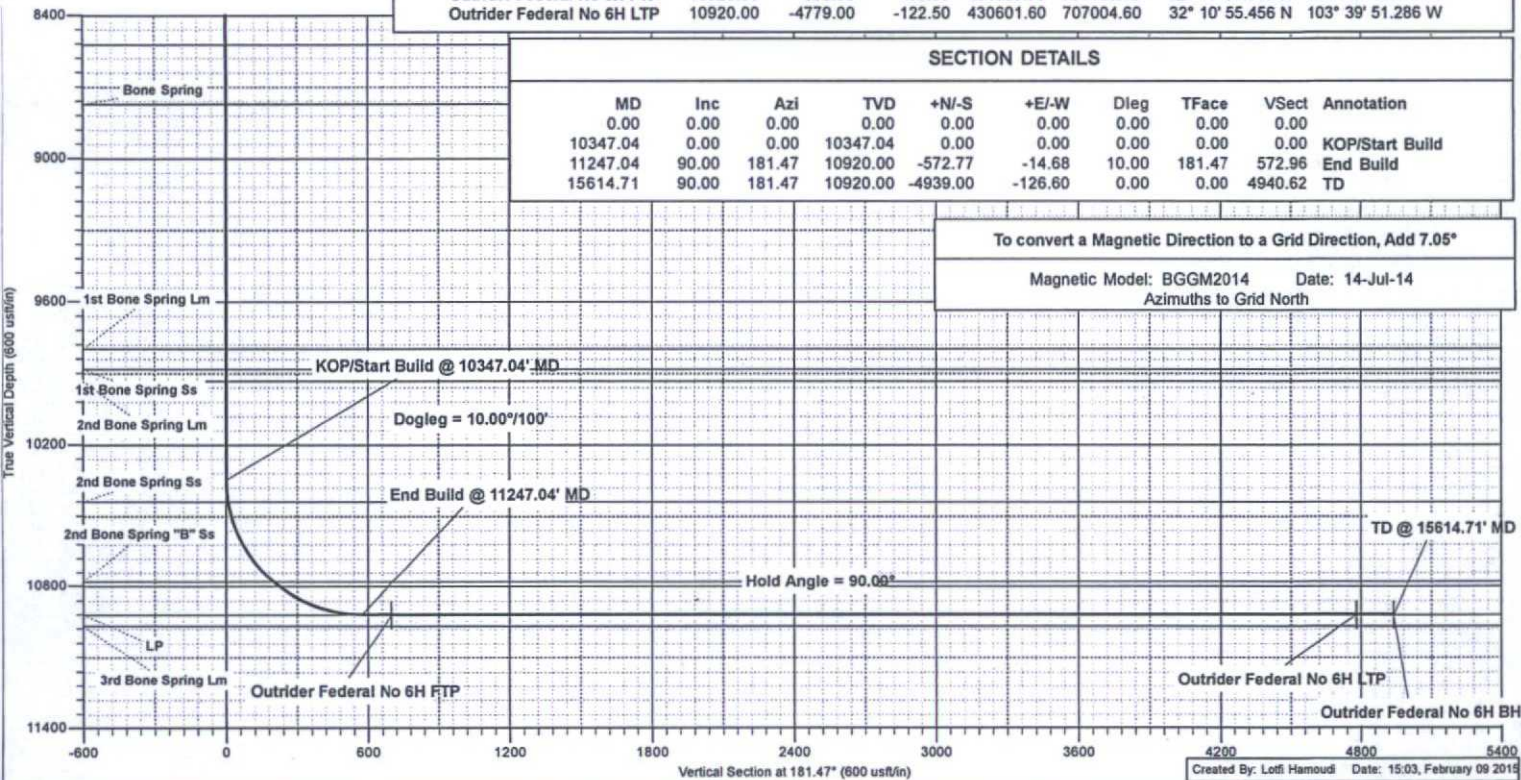
| Name                       | TVD      | +N/-S    | +E/-W   | Northing  | Easting   | Latitude         | Longitude         |
|----------------------------|----------|----------|---------|-----------|-----------|------------------|-------------------|
| Outrider Federal No 6H BHL | 10920.00 | -4939.00 | -126.60 | 430441.60 | 707000.50 | 32° 10' 53.873 N | 103° 39' 51.346 W |
| Outrider Federal No 6H FTP | 10920.00 | -699.90  | -18.00  | 434680.70 | 707109.10 | 32° 11' 35.815 N | 103° 39' 49.775 W |
| Outrider Federal No 6H LTP | 10920.00 | -4779.00 | -122.50 | 430601.60 | 707004.60 | 32° 10' 55.456 N | 103° 39' 51.286 W |

### SECTION DETAILS

| MD       | Inc   | Azi    | TVD      | +N/-S    | +E/-W   | Dleg  | TFace  | Vsect   | Annotation      |
|----------|-------|--------|----------|----------|---------|-------|--------|---------|-----------------|
| 0.00     | 0.00  | 0.00   | 0.00     | 0.00     | 0.00    | 0.00  | 0.00   | 0.00    |                 |
| 10347.04 | 0.00  | 0.00   | 10347.04 | 0.00     | 0.00    | 0.00  | 0.00   | 0.00    | KOP/Start Build |
| 11247.04 | 90.00 | 181.47 | 10920.00 | -572.77  | -14.68  | 10.00 | 181.47 | 572.96  | End Build       |
| 15614.71 | 90.00 | 181.47 | 10920.00 | -4939.00 | -126.60 | 0.00  | 0.00   | 4940.62 | TD              |

To convert a Magnetic Direction to a Grid Direction, Add 7.05°

Magnetic Model: BGGM2014 Date: 14-Jul-14  
Azimuths to Grid North



Vertical Section at 181.47° (600 usft/in)

Created By: Lotfi Hamoudi Date: 15:03, February 09 2015



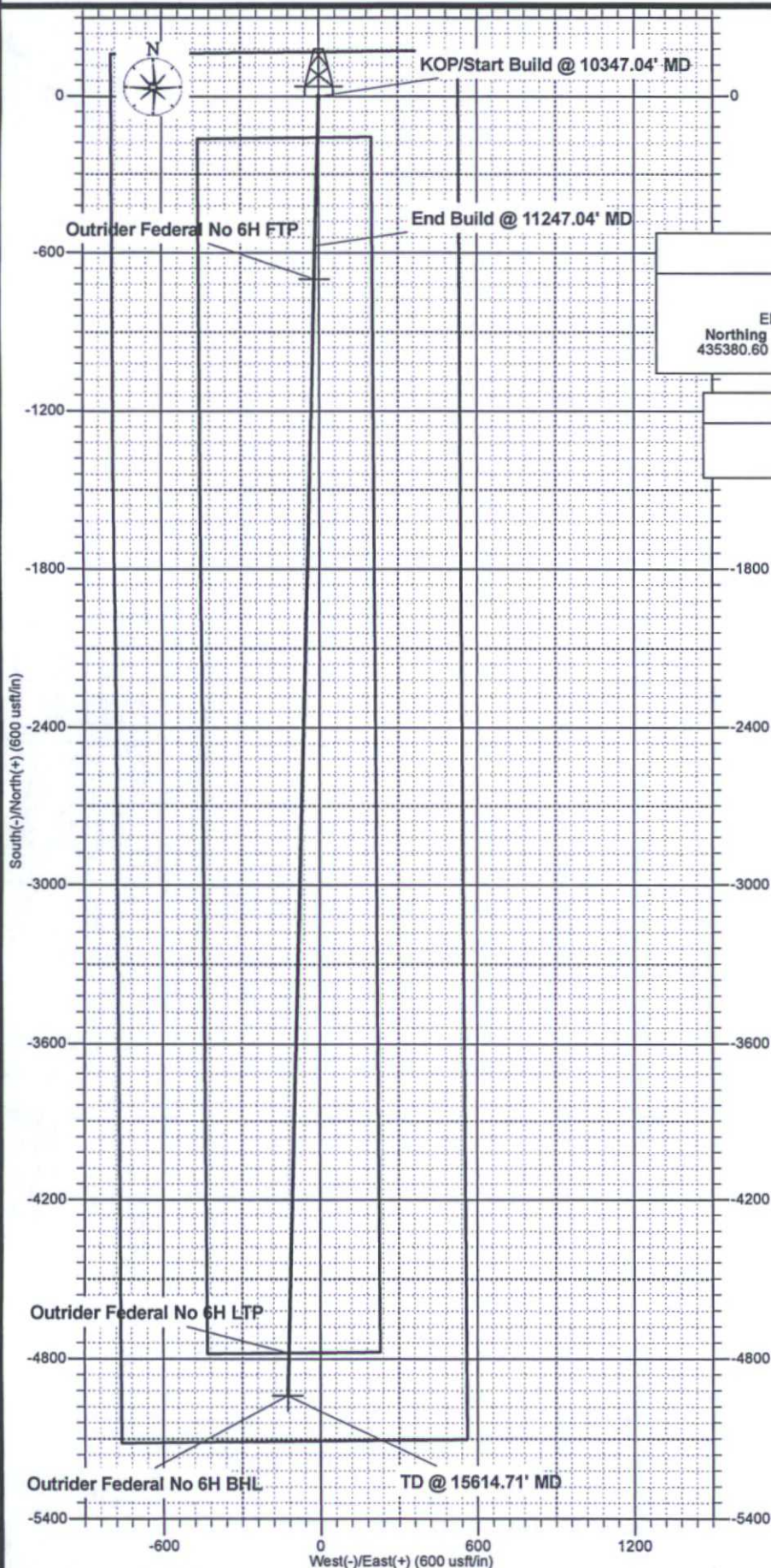
Project: Lea County, NM (NAD27)  
 Site: Outrider Federal  
 Well: Outrider Federal No 6H  
 Wellbore: Wellbore #1  
 Plan: Plan #2  
 Rig: NorAm 25

### SURFACE LOCATION

US State Plane 1927 (Exact solution)  
 New Mexico East 3001  
 Elevation: GL 3587' + KB 25' @ 3612.00usft (NorAm 25)  
 Northing 435380.60 Easting 707127.10 Latitude 32° 11' 42.740 N Longitude 103° 39' 49.515 W

To convert a Magnetic Direction to a Grid Direction, Add 7.05°

Magnetic Model: BGGM2014 Date: 14-Jul-14  
 Azimuths to Grid North



# **XTO Energy Inc.**

Lea County, NM (NAD27)

Outrider Federal

Outrider Federal No 6H

**Wellbore #1**

**Plan: Plan #2**

## **Sperry Drilling Services Proposal Report**

**09 February, 2015**

Well Coordinates: 435,380.60 N, 707,127.10 E (32° 11' 42.74" N, 103° 39' 49.51" W)  
Ground Level: 3,587.00 usft

|                          |                                            |
|--------------------------|--------------------------------------------|
| Local Coordinate Origin: | Centered on Well Outrider Federal No 6H    |
| Viewing Datum:           | GL 3587' + KB 25' @ 3612.00usft (NorAm 25) |
| TVDs to System:          | N                                          |
| North Reference:         | Grid                                       |
| Unit System:             | API - US Survey Feet                       |

Version: 5000.1 Build: 72

**HALLIBURTON**



**HALLIBURTON****Plan Report for Outrider Federal No 6H - Plan #2**

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | Toolface Azimuth (°) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|----------------------|
| 0.00                  | 0.00            | 0.00        | 0.00                  | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 100.00                | 0.00            | 0.00        | 100.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 200.00                | 0.00            | 0.00        | 200.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 300.00                | 0.00            | 0.00        | 300.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 400.00                | 0.00            | 0.00        | 400.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 500.00                | 0.00            | 0.00        | 500.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 600.00                | 0.00            | 0.00        | 600.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 700.00                | 0.00            | 0.00        | 700.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 800.00                | 0.00            | 0.00        | 800.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 900.00                | 0.00            | 0.00        | 900.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 1,000.00              | 0.00            | 0.00        | 1,000.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 1,012.00              | 0.00            | 0.00        | 1,012.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| <b>Rustler</b>        |                 |             |                       |              |              |                         |                         |                        |                       |                      |
| 1,100.00              | 0.00            | 0.00        | 1,100.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 1,200.00              | 0.00            | 0.00        | 1,200.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 1,300.00              | 0.00            | 0.00        | 1,300.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 1,315.00              | 0.00            | 0.00        | 1,315.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| <b>Top Salt</b>       |                 |             |                       |              |              |                         |                         |                        |                       |                      |
| 1,400.00              | 0.00            | 0.00        | 1,400.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 1,500.00              | 0.00            | 0.00        | 1,500.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 1,600.00              | 0.00            | 0.00        | 1,600.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 1,700.00              | 0.00            | 0.00        | 1,700.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 1,800.00              | 0.00            | 0.00        | 1,800.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 1,900.00              | 0.00            | 0.00        | 1,900.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 2,000.00              | 0.00            | 0.00        | 2,000.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 2,100.00              | 0.00            | 0.00        | 2,100.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 2,200.00              | 0.00            | 0.00        | 2,200.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 2,300.00              | 0.00            | 0.00        | 2,300.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 2,400.00              | 0.00            | 0.00        | 2,400.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 2,500.00              | 0.00            | 0.00        | 2,500.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 2,600.00              | 0.00            | 0.00        | 2,600.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 2,700.00              | 0.00            | 0.00        | 2,700.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 2,800.00              | 0.00            | 0.00        | 2,800.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 2,900.00              | 0.00            | 0.00        | 2,900.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 3,000.00              | 0.00            | 0.00        | 3,000.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 3,100.00              | 0.00            | 0.00        | 3,100.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 3,200.00              | 0.00            | 0.00        | 3,200.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 3,300.00              | 0.00            | 0.00        | 3,300.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 3,400.00              | 0.00            | 0.00        | 3,400.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 3,500.00              | 0.00            | 0.00        | 3,500.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 3,600.00              | 0.00            | 0.00        | 3,600.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 3,700.00              | 0.00            | 0.00        | 3,700.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 3,800.00              | 0.00            | 0.00        | 3,800.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 3,900.00              | 0.00            | 0.00        | 3,900.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 4,000.00              | 0.00            | 0.00        | 4,000.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 4,100.00              | 0.00            | 0.00        | 4,100.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 4,200.00              | 0.00            | 0.00        | 4,200.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 4,300.00              | 0.00            | 0.00        | 4,300.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 4,400.00              | 0.00            | 0.00        | 4,400.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 4,500.00              | 0.00            | 0.00        | 4,500.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 4,600.00              | 0.00            | 0.00        | 4,600.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 4,634.00              | 0.00            | 0.00        | 4,634.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| <b>Base Salt</b>      |                 |             |                       |              |              |                         |                         |                        |                       |                      |
| 4,700.00              | 0.00            | 0.00        | 4,700.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 4,800.00              | 0.00            | 0.00        | 4,800.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 4,859.00              | 0.00            | 0.00        | 4,859.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| <b>Delaware</b>       |                 |             |                       |              |              |                         |                         |                        |                       |                      |
| 4,900.00              | 0.00            | 0.00        | 4,900.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |

## Plan Report for Outrider Federal No 6H - Plan #2

| Measured Depth (usft)      | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | Toolface Azimuth (°) |
|----------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|----------------------|
| 5,000.00                   | 0.00            | 0.00        | 5,000.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 5,100.00                   | 0.00            | 0.00        | 5,100.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 5,200.00                   | 0.00            | 0.00        | 5,200.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 5,300.00                   | 0.00            | 0.00        | 5,300.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 5,400.00                   | 0.00            | 0.00        | 5,400.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 5,500.00                   | 0.00            | 0.00        | 5,500.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 5,600.00                   | 0.00            | 0.00        | 5,600.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 5,700.00                   | 0.00            | 0.00        | 5,700.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 5,771.00                   | 0.00            | 0.00        | 5,771.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| <b>Cherry Canyon</b>       |                 |             |                       |              |              |                         |                         |                        |                       |                      |
| 5,800.00                   | 0.00            | 0.00        | 5,800.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 5,900.00                   | 0.00            | 0.00        | 5,900.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 6,000.00                   | 0.00            | 0.00        | 6,000.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 6,100.00                   | 0.00            | 0.00        | 6,100.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 6,200.00                   | 0.00            | 0.00        | 6,200.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 6,300.00                   | 0.00            | 0.00        | 6,300.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 6,400.00                   | 0.00            | 0.00        | 6,400.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 6,500.00                   | 0.00            | 0.00        | 6,500.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 6,600.00                   | 0.00            | 0.00        | 6,600.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 6,700.00                   | 0.00            | 0.00        | 6,700.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 6,800.00                   | 0.00            | 0.00        | 6,800.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 6,900.00                   | 0.00            | 0.00        | 6,900.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 7,000.00                   | 0.00            | 0.00        | 7,000.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 7,100.00                   | 0.00            | 0.00        | 7,100.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 7,200.00                   | 0.00            | 0.00        | 7,200.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 7,300.00                   | 0.00            | 0.00        | 7,300.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 7,350.00                   | 0.00            | 0.00        | 7,350.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| <b>Brushy Canyon</b>       |                 |             |                       |              |              |                         |                         |                        |                       |                      |
| 7,400.00                   | 0.00            | 0.00        | 7,400.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 7,500.00                   | 0.00            | 0.00        | 7,500.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 7,600.00                   | 0.00            | 0.00        | 7,600.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 7,700.00                   | 0.00            | 0.00        | 7,700.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 7,800.00                   | 0.00            | 0.00        | 7,800.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 7,900.00                   | 0.00            | 0.00        | 7,900.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 8,000.00                   | 0.00            | 0.00        | 8,000.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 8,100.00                   | 0.00            | 0.00        | 8,100.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 8,200.00                   | 0.00            | 0.00        | 8,200.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 8,300.00                   | 0.00            | 0.00        | 8,300.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 8,400.00                   | 0.00            | 0.00        | 8,400.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 8,500.00                   | 0.00            | 0.00        | 8,500.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 8,524.00                   | 0.00            | 0.00        | 8,524.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| <b>Basal Brushy Canyon</b> |                 |             |                       |              |              |                         |                         |                        |                       |                      |
| 8,600.00                   | 0.00            | 0.00        | 8,600.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 8,700.00                   | 0.00            | 0.00        | 8,700.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 8,772.00                   | 0.00            | 0.00        | 8,772.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| <b>Bone Spring</b>         |                 |             |                       |              |              |                         |                         |                        |                       |                      |
| 8,800.00                   | 0.00            | 0.00        | 8,800.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 8,900.00                   | 0.00            | 0.00        | 8,900.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 9,000.00                   | 0.00            | 0.00        | 9,000.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 9,100.00                   | 0.00            | 0.00        | 9,100.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 9,200.00                   | 0.00            | 0.00        | 9,200.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 9,300.00                   | 0.00            | 0.00        | 9,300.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 9,400.00                   | 0.00            | 0.00        | 9,400.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 9,500.00                   | 0.00            | 0.00        | 9,500.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 9,600.00                   | 0.00            | 0.00        | 9,600.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 9,700.00                   | 0.00            | 0.00        | 9,700.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 9,798.00                   | 0.00            | 0.00        | 9,798.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| <b>1st Bone Spring Lm</b>  |                 |             |                       |              |              |                         |                         |                        |                       |                      |
| 9,800.00                   | 0.00            | 0.00        | 9,800.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |



## Plan Report for Outrider Federal No 6H - Plan #2

| Measured Depth (usft)                                        | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | Toolface Azimuth (°) |
|--------------------------------------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|----------------------|
| 9,883.00                                                     | 0.00            | 0.00        | 9,883.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| <b>1st Bone Spring Ss</b>                                    |                 |             |                       |              |              |                         |                         |                        |                       |                      |
| 9,900.00                                                     | 0.00            | 0.00        | 9,900.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 9,933.00                                                     | 0.00            | 0.00        | 9,933.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| <b>2nd Bone Spring Lm</b>                                    |                 |             |                       |              |              |                         |                         |                        |                       |                      |
| 10,000.00                                                    | 0.00            | 0.00        | 10,000.00             | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 10,100.00                                                    | 0.00            | 0.00        | 10,100.00             | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 10,200.00                                                    | 0.00            | 0.00        | 10,200.00             | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 10,300.00                                                    | 0.00            | 0.00        | 10,300.00             | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 10,347.04                                                    | 0.00            | 0.00        | 10,347.04             | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| <b>KOP/Start Build @ 10347.04' MD - Dogleg = 10.00°/100'</b> |                 |             |                       |              |              |                         |                         |                        |                       |                      |
| 10,350.00                                                    | 0.30            | 181.47      | 10,350.00             | -0.01        | 0.00         | 0.01                    | 10.00                   | 10.00                  | 0.00                  | 181.47               |
| 10,400.00                                                    | 5.30            | 181.47      | 10,399.92             | -2.44        | -0.06        | 2.45                    | 10.00                   | 10.00                  | 0.00                  | 0.00                 |
| 10,440.41                                                    | 9.34            | 181.47      | 10,440.00             | -7.59        | -0.19        | 7.59                    | 10.00                   | 10.00                  | 0.00                  | 0.00                 |
| <b>2nd Bone Spring Ss</b>                                    |                 |             |                       |              |              |                         |                         |                        |                       |                      |
| 10,450.00                                                    | 10.30           | 181.47      | 10,449.45             | -9.22        | -0.24        | 9.23                    | 10.00                   | 10.00                  | 0.00                  | 0.00                 |
| 10,500.00                                                    | 15.30           | 181.47      | 10,498.19             | -20.29       | -0.52        | 20.30                   | 10.00                   | 10.00                  | 0.00                  | 0.00                 |
| 10,550.00                                                    | 20.30           | 181.47      | 10,545.78             | -35.56       | -0.91        | 35.57                   | 10.00                   | 10.00                  | 0.00                  | 0.00                 |
| 10,600.00                                                    | 25.30           | 181.47      | 10,591.86             | -54.92       | -1.41        | 54.94                   | 10.00                   | 10.00                  | 0.00                  | 0.00                 |
| 10,650.00                                                    | 30.30           | 181.47      | 10,636.08             | -78.22       | -2.01        | 78.25                   | 10.00                   | 10.00                  | 0.00                  | 0.00                 |
| 10,700.00                                                    | 35.30           | 181.47      | 10,678.10             | -105.29      | -2.70        | 105.32                  | 10.00                   | 10.00                  | 0.00                  | 0.00                 |
| 10,750.00                                                    | 40.30           | 181.47      | 10,717.59             | -135.91      | -3.48        | 135.95                  | 10.00                   | 10.00                  | 0.00                  | 0.00                 |
| 10,800.00                                                    | 45.30           | 181.47      | 10,754.27             | -169.86      | -4.35        | 169.91                  | 10.00                   | 10.00                  | 0.00                  | 0.00                 |
| 10,837.87                                                    | 49.08           | 181.47      | 10,780.00             | -197.62      | -5.07        | 197.69                  | 10.00                   | 10.00                  | 0.00                  | 0.00                 |
| <b>2nd Bone Spring "B" Ss</b>                                |                 |             |                       |              |              |                         |                         |                        |                       |                      |
| 10,850.00                                                    | 50.30           | 181.47      | 10,787.85             | -206.87      | -5.30        | 206.94                  | 10.00                   | 10.00                  | 0.00                  | 0.00                 |
| 10,900.00                                                    | 55.30           | 181.47      | 10,818.07             | -246.67      | -6.32        | 246.75                  | 10.00                   | 10.00                  | 0.00                  | 0.00                 |
| 10,950.00                                                    | 60.30           | 181.47      | 10,844.71             | -288.95      | -7.41        | 289.04                  | 10.00                   | 10.00                  | 0.00                  | 0.00                 |
| 11,000.00                                                    | 65.30           | 181.47      | 10,867.56             | -333.39      | -8.55        | 333.50                  | 10.00                   | 10.00                  | 0.00                  | 0.00                 |
| 11,050.00                                                    | 70.30           | 181.47      | 10,886.45             | -379.65      | -9.73        | 379.78                  | 10.00                   | 10.00                  | 0.00                  | 0.00                 |
| 11,100.00                                                    | 75.30           | 181.47      | 10,901.24             | -427.38      | -10.96       | 427.52                  | 10.00                   | 10.00                  | 0.00                  | 0.00                 |
| 11,150.00                                                    | 80.30           | 181.47      | 10,911.80             | -476.22      | -12.21       | 476.38                  | 10.00                   | 10.00                  | 0.00                  | 0.00                 |
| 11,200.00                                                    | 85.30           | 181.47      | 10,918.07             | -525.80      | -13.48       | 525.97                  | 10.00                   | 10.00                  | 0.00                  | 0.00                 |
| 11,247.04                                                    | 90.00           | 181.47      | 10,920.00             | -572.77      | -14.68       | 572.96                  | 10.00                   | 10.00                  | 0.00                  | 0.00                 |
| <b>End Build @ 11247.04' MD - Hold Angle = 90.00° - LP</b>   |                 |             |                       |              |              |                         |                         |                        |                       |                      |
| 11,300.00                                                    | 90.00           | 181.47      | 10,920.00             | -625.71      | -16.04       | 625.92                  | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 11,374.22                                                    | 90.00           | 181.47      | 10,920.00             | -699.90      | -17.94       | 700.13                  | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| <b>Outrider Federal No 6H FTP</b>                            |                 |             |                       |              |              |                         |                         |                        |                       |                      |
| 11,400.00                                                    | 90.00           | 181.47      | 10,920.00             | -725.68      | -18.60       | 725.92                  | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 11,500.00                                                    | 90.00           | 181.47      | 10,920.00             | -825.64      | -21.16       | 825.92                  | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 11,600.00                                                    | 90.00           | 181.47      | 10,920.00             | -925.61      | -23.73       | 925.92                  | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 11,700.00                                                    | 90.00           | 181.47      | 10,920.00             | -1,025.58    | -26.29       | 1,025.92                | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 11,800.00                                                    | 90.00           | 181.47      | 10,920.00             | -1,125.55    | -28.85       | 1,125.92                | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 11,900.00                                                    | 90.00           | 181.47      | 10,920.00             | -1,225.51    | -31.41       | 1,225.92                | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 12,000.00                                                    | 90.00           | 181.47      | 10,920.00             | -1,325.48    | -33.98       | 1,325.92                | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 12,100.00                                                    | 90.00           | 181.47      | 10,920.00             | -1,425.45    | -36.54       | 1,425.92                | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 12,200.00                                                    | 90.00           | 181.47      | 10,920.00             | -1,525.41    | -39.10       | 1,525.92                | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 12,300.00                                                    | 90.00           | 181.47      | 10,920.00             | -1,625.38    | -41.66       | 1,625.92                | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 12,400.00                                                    | 90.00           | 181.47      | 10,920.00             | -1,725.35    | -44.23       | 1,725.92                | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 12,500.00                                                    | 90.00           | 181.47      | 10,920.00             | -1,825.32    | -46.79       | 1,825.92                | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 12,600.00                                                    | 90.00           | 181.47      | 10,920.00             | -1,925.28    | -49.35       | 1,925.92                | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 12,700.00                                                    | 90.00           | 181.47      | 10,920.00             | -2,025.25    | -51.91       | 2,025.92                | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 12,800.00                                                    | 90.00           | 181.47      | 10,920.00             | -2,125.22    | -54.48       | 2,125.92                | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 12,900.00                                                    | 90.00           | 181.47      | 10,920.00             | -2,225.18    | -57.04       | 2,225.92                | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 13,000.00                                                    | 90.00           | 181.47      | 10,920.00             | -2,325.15    | -59.60       | 2,325.92                | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 13,100.00                                                    | 90.00           | 181.47      | 10,920.00             | -2,425.12    | -62.16       | 2,425.92                | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 13,200.00                                                    | 90.00           | 181.47      | 10,920.00             | -2,525.09    | -64.72       | 2,525.92                | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 13,300.00                                                    | 90.00           | 181.47      | 10,920.00             | -2,625.05    | -67.29       | 2,625.92                | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 13,400.00                                                    | 90.00           | 181.47      | 10,920.00             | -2,725.02    | -69.85       | 2,725.92                | 0.00                    | 0.00                   | 0.00                  | 0.00                 |

## Plan Report for Outrider Federal No 6H - Plan #2

| Measured Depth (usft)                          | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | Toolface Azimuth (°) |
|------------------------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|----------------------|
| 13,500.00                                      | 90.00           | 181.47      | 10,920.00             | -2,824.99    | -72.41       | 2,825.92                | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 13,600.00                                      | 90.00           | 181.47      | 10,920.00             | -2,924.95    | -74.97       | 2,925.92                | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 13,700.00                                      | 90.00           | 181.47      | 10,920.00             | -3,024.92    | -77.54       | 3,025.92                | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 13,800.00                                      | 90.00           | 181.47      | 10,920.00             | -3,124.89    | -80.10       | 3,125.92                | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 13,900.00                                      | 90.00           | 181.47      | 10,920.00             | -3,224.86    | -82.66       | 3,225.92                | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 14,000.00                                      | 90.00           | 181.47      | 10,920.00             | -3,324.82    | -85.22       | 3,325.92                | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 14,100.00                                      | 90.00           | 181.47      | 10,920.00             | -3,424.79    | -87.79       | 3,425.92                | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 14,200.00                                      | 90.00           | 181.47      | 10,920.00             | -3,524.76    | -90.35       | 3,525.92                | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 14,300.00                                      | 90.00           | 181.47      | 10,920.00             | -3,624.72    | -92.91       | 3,625.92                | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 14,400.00                                      | 90.00           | 181.47      | 10,920.00             | -3,724.69    | -95.47       | 3,725.92                | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 14,500.00                                      | 90.00           | 181.47      | 10,920.00             | -3,824.66    | -98.04       | 3,825.92                | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 14,600.00                                      | 90.00           | 181.47      | 10,920.00             | -3,924.63    | -100.60      | 3,925.92                | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 14,700.00                                      | 90.00           | 181.47      | 10,920.00             | -4,024.59    | -103.16      | 4,025.92                | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 14,800.00                                      | 90.00           | 181.47      | 10,920.00             | -4,124.56    | -105.72      | 4,125.92                | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 14,900.00                                      | 90.00           | 181.47      | 10,920.00             | -4,224.53    | -108.29      | 4,225.92                | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 15,000.00                                      | 90.00           | 181.47      | 10,920.00             | -4,324.50    | -110.85      | 4,325.92                | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 15,100.00                                      | 90.00           | 181.47      | 10,920.00             | -4,424.46    | -113.41      | 4,425.92                | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 15,200.00                                      | 90.00           | 181.47      | 10,920.00             | -4,524.43    | -115.97      | 4,525.92                | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 15,300.00                                      | 90.00           | 181.47      | 10,920.00             | -4,624.40    | -118.54      | 4,625.92                | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 15,400.00                                      | 90.00           | 181.47      | 10,920.00             | -4,724.36    | -121.10      | 4,725.92                | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 15,454.65                                      | 90.00           | 181.47      | 10,920.00             | -4,779.00    | -122.50      | 4,780.57                | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| Outrider Federal No 6H LTP                     |                 |             |                       |              |              |                         |                         |                        |                       |                      |
| 15,500.00                                      | 90.00           | 181.47      | 10,920.00             | -4,824.33    | -123.66      | 4,825.92                | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 15,600.00                                      | 90.00           | 181.47      | 10,920.00             | -4,924.30    | -126.22      | 4,925.92                | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| 15,614.71                                      | 90.00           | 181.47      | 10,920.00             | -4,939.00    | -126.60      | 4,940.62                | 0.00                    | 0.00                   | 0.00                  | 0.00                 |
| TD @ 15614.71' MD - Outrider Federal No 6H BHL |                 |             |                       |              |              |                         |                         |                        |                       |                      |

Plan Annotations

| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates |              | Comment                        |
|-----------------------|-----------------------|-------------------|--------------|--------------------------------|
|                       |                       | +N/-S (usft)      | +E/-W (usft) |                                |
| 10,347.04             | 10,347.04             | 0.00              | 0.00         | KOP/Start Build @ 10347.04' MD |
| 10,347.04             | 10,347.04             | 0.00              | 0.00         | Dogleg = 10.00°/100'           |
| 11,247.04             | 10,920.00             | -572.77           | -14.68       | End Build @ 11247.04' MD       |
| 11,247.04             | 10,920.00             | -572.77           | -14.68       | Hold Angle = 90.00°            |
| 15,614.71             | 10,920.00             | -4,939.00         | -126.60      | TD @ 15614.71' MD              |

Vertical Section Information

| Angle Type | Target               | Azimuth (°) | Origin Type | +N/-S (usft) | +E/-W (usft) | Start TVD (usft) |
|------------|----------------------|-------------|-------------|--------------|--------------|------------------|
| TD         | No Target (Freehand) | 181.47      | Slot        | 0.00         | 0.00         | 0.00             |

Survey tool program

| From (usft) | To (usft) | Survey/Plan | Survey Tool |
|-------------|-----------|-------------|-------------|
| 0.00        | 15,614.71 | Plan #2     | MWD         |



## Plan Report for Outrider Federal No 6H - Plan #2

### Formation Details

| Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Name                   | Lithology | Dip<br>(°) | Dip<br>Direction<br>(°) |
|-----------------------------|-----------------------------|------------------------|-----------|------------|-------------------------|
| 1,012.00                    | 1,012.00                    | Rustler                |           |            |                         |
| 1,315.00                    | 1,315.00                    | Top Salt               |           |            |                         |
| 4,634.00                    | 4,634.00                    | Base Salt              |           |            |                         |
| 4,859.00                    | 4,859.00                    | Delaware               |           |            |                         |
| 5,771.00                    | 5,771.00                    | Cherry Canyon          |           |            |                         |
| 7,350.00                    | 7,350.00                    | Brushy Canyon          |           |            |                         |
| 8,524.00                    | 8,524.00                    | Basal Brushy Canyon    |           |            |                         |
| 8,772.00                    | 8,772.00                    | Bone Spring            |           |            |                         |
| 9,798.00                    | 9,798.00                    | 1st Bone Spring Lm     |           |            |                         |
| 9,883.00                    | 9,883.00                    | 1st Bone Spring Ss     |           |            |                         |
| 9,933.00                    | 9,933.00                    | 2nd Bone Spring Lm     |           |            |                         |
| 10,440.41                   | 10,440.00                   | 2nd Bone Spring Ss     |           |            |                         |
| 10,837.87                   | 10,780.00                   | 2nd Bone Spring "B" Ss |           |            |                         |
| 11,247.04                   | 10,920.00                   | LP                     |           |            |                         |

### *Targets associated with this wellbore*

| Target Name                | TVD<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Shape |
|----------------------------|---------------|-----------------|-----------------|-------|
| Outrider Federal No 6H LTP | 10,920.00     | -4,779.00       | -122.50         | Point |
| Outrider Federal No 6H BHL | 10,920.00     | -4,939.00       | -126.60         | Point |
| Outrider Federal No 6H FTP | 10,920.00     | -699.90         | -18.00          | Point |

**North Reference Sheet for Outrider Federal - Outrider Federal No 6H - Wellbore #1**

All data is in US Feet unless otherwise stated. Directions and Coordinates are relative to Grid North Reference.

Vertical Depths are relative to GL 3587' + KB 25' @ 3612.00usft (NorAm 25). Northing and Easting are relative to Outrider Federal No 6H

Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 3001 using datum NAD 1927 (NADCON CONUS), ellipsoid Clarke 1866

Projection method is Transverse Mercator (Gauss-Kruger)

Central Meridian is -104.33°, Longitude Origin:0° 0' 0.000 E°, Latitude Origin:0° 0' 0.000 N°

False Easting: 500,000.00usft, False Northing: 0.00usft, Scale Reduction: 0.99995823

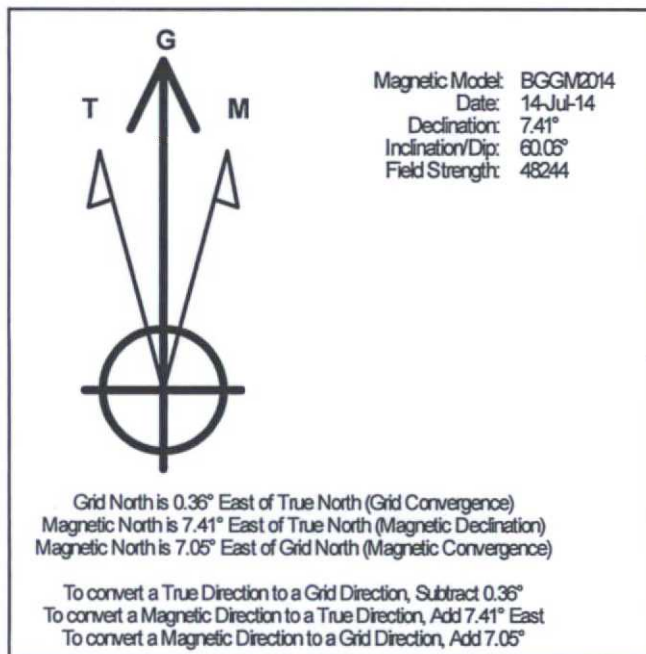
Grid Coordinates of Well: 435,380.60 usft N, 707,127.10 usft E

Geographical Coordinates of Well: 32° 11' 42.74" N, 103° 39' 49.51" W

Grid Convergence at Surface is: 0.36°

Based upon Minimum Curvature type calculations, at a Measured Depth of 15,614.71usft  
the Bottom Hole Displacement is 4,940.62usft in the Direction of 181.47° (Grid).

Magnetic Convergence at surface is: -7.05° (14 July 2014, , BGGM2014)





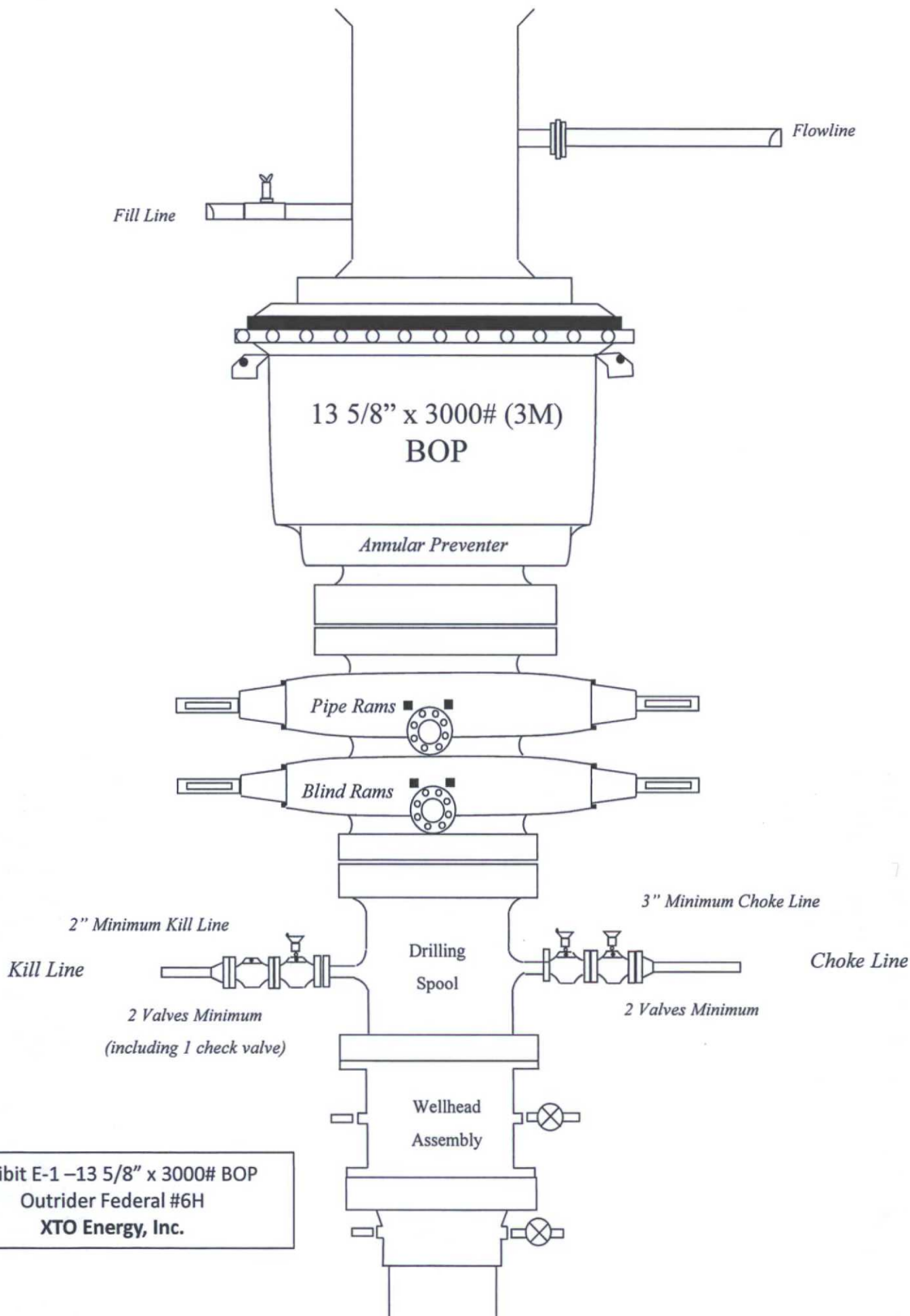


Exhibit E-1 - 13 5/8" x 3000# BOP  
 Outsider Federal #6H  
 XTO Energy, Inc.

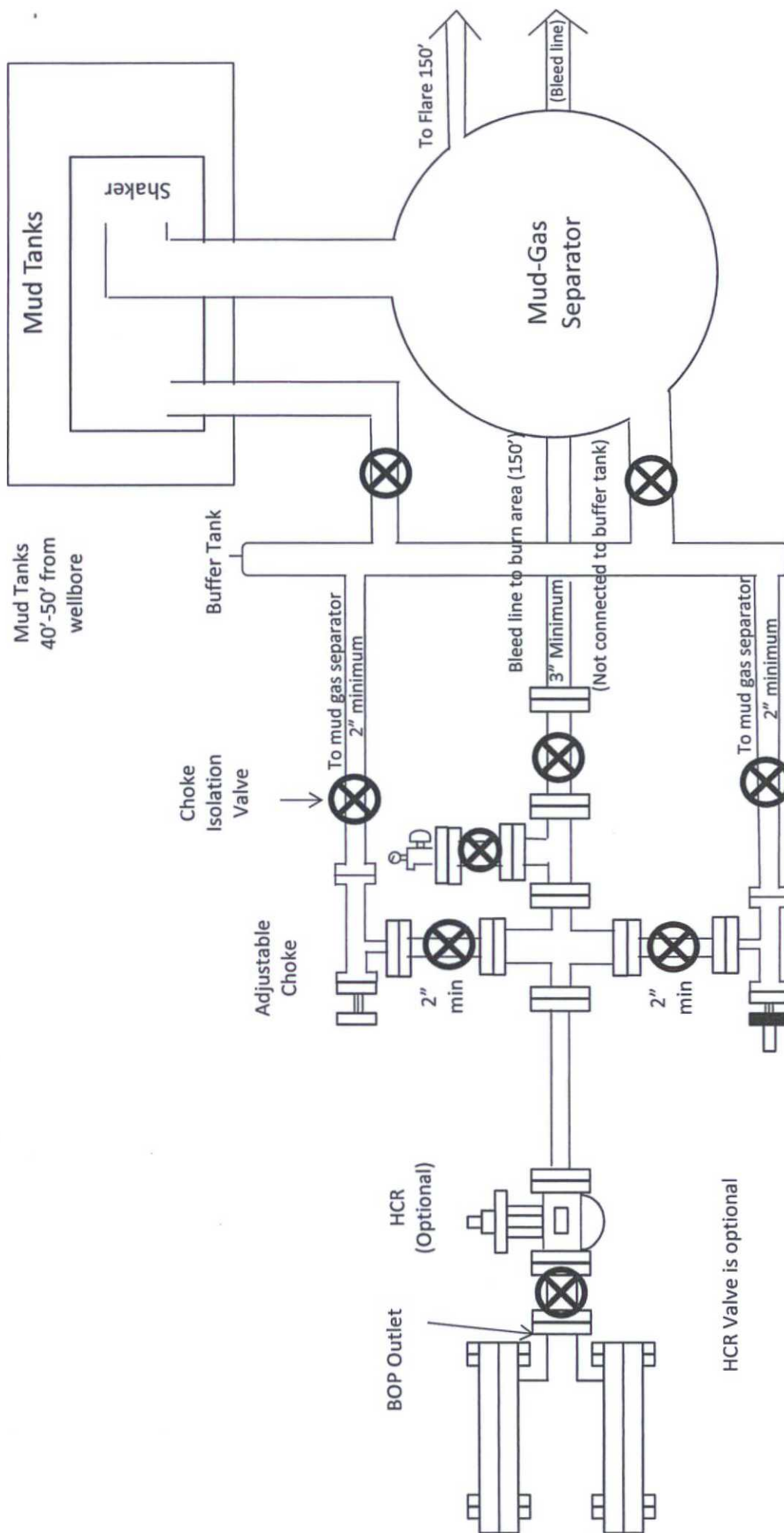
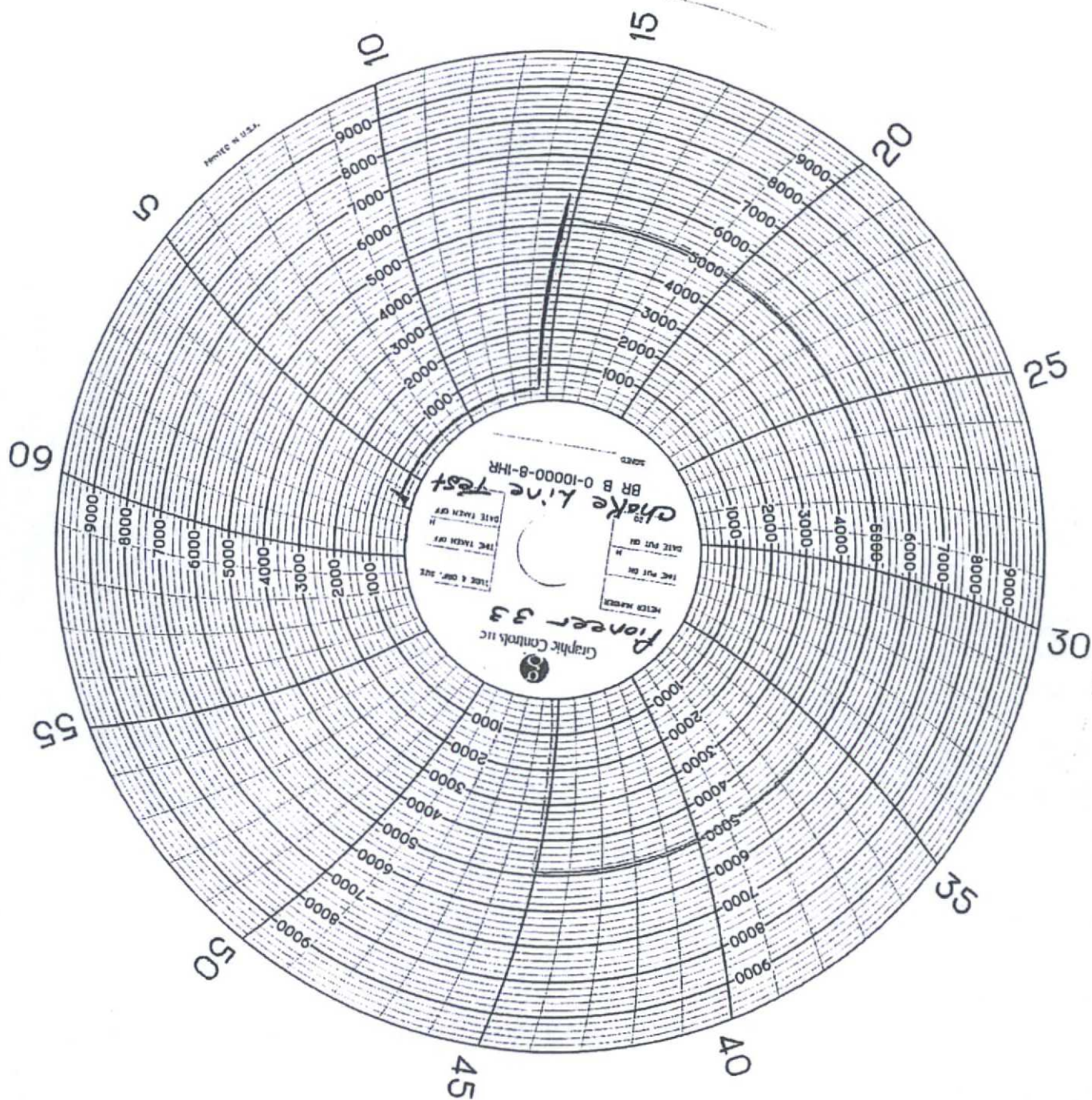


Exhibit E-1 – Choke Manifold Diagram  
 Outrider Federal #6H  
 XTO Energy, Inc..

# Drilling Operations Choke Manifold







GATES E & S NORTH AMERICA, INC  
DU-TEX  
134 44TH STREET  
CORPUS CHRISTI, TEXAS 78405

PHONE: 361-887-9807  
FAX: 361-887-0812  
EMAIL: crpe&s@gates.com  
WEB: www.gates.com

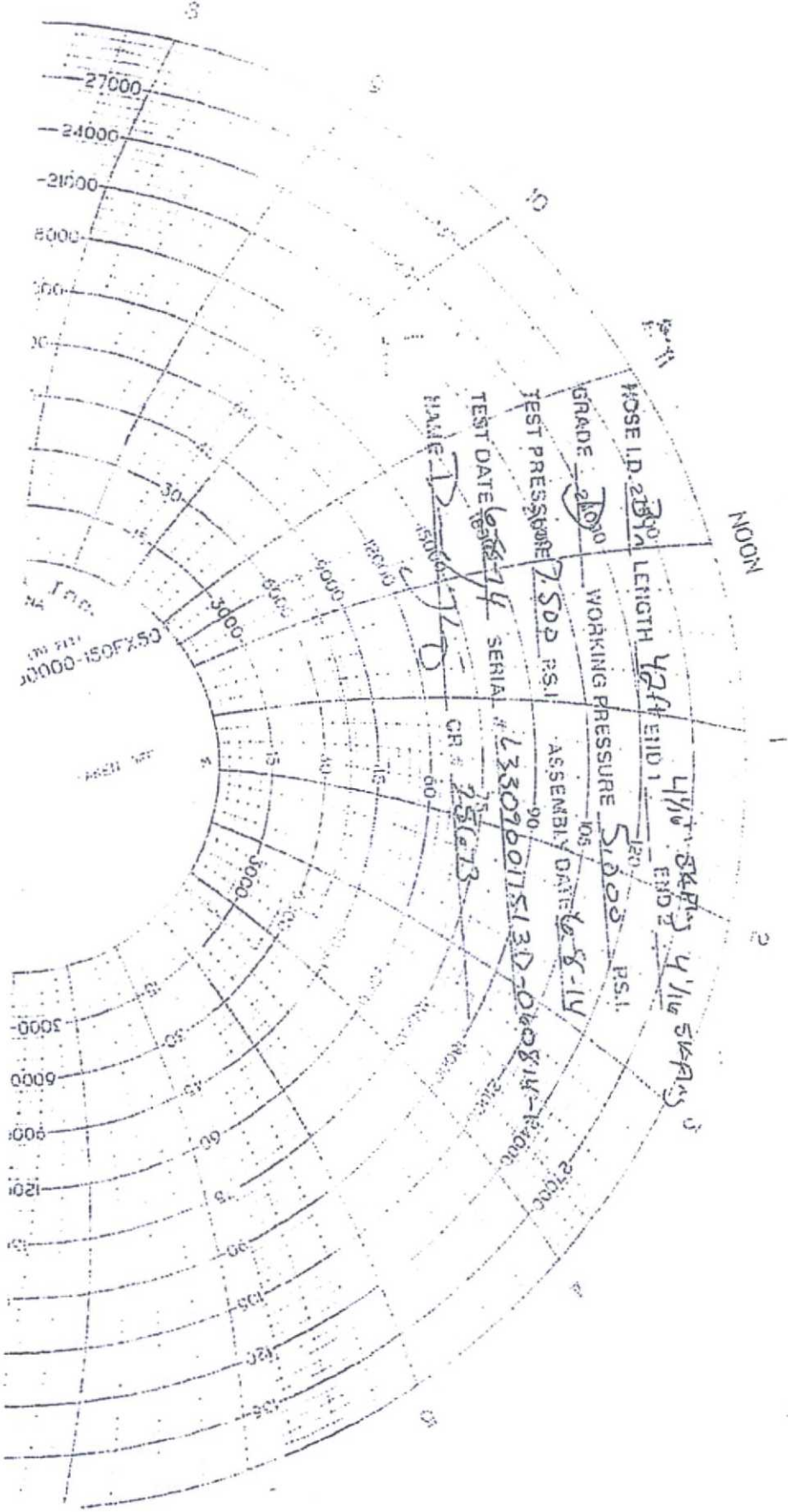
## GRADE D PRESSURE TEST CERTIFICATE

|                                                     |                                           |                                 |
|-----------------------------------------------------|-------------------------------------------|---------------------------------|
| Customer :<br>AUSTIN DISTRIBUTING                   | Customer Ref. :<br>PENDING                | Invoice No. :<br>201709         |
| Product Description:<br>FD3.042.0R41/16.5KFLGE/E LE |                                           |                                 |
| End Filling 1 :<br>4 1/16 in.5K FLG                 | Gains Part No. :<br>4774-6001             | Working Pressure :<br>5,000 PSI |
| End Filling 2 :<br>4 1/16 in.5K FLG                 | Assembly Code :<br>L33090011513D-060814-1 | Test Pressure :<br>7,500 PSI    |
| Test Date:<br>6/8/2014                              | Hose Serial No. :<br>D-060814-1           | Created By:<br>NORMA            |

Gates E & S North America, Inc. certifies that the following hose assembly has been tested to the Gates Oilfield Roughneck Agreement/Specification requirements and passed the 15 minute hydrostatic test per API Spec 7K/Q1, Fifth Edition, June 2010, Test pressure 9.6.7 and per Table 9 to 7,500 psi in accordance with this product number. Hose burst pressure 9.6.7.2 exceeds the minimum of 2.5 times the working pressure per Table 9.

|                                 |                                                                |
|---------------------------------|----------------------------------------------------------------|
| Quality:<br>Date:<br>Signature: | <div> <div>6/8/2014</div> <div><i>[Signature]</i></div> </div> |
| Technical Supervisor:           | <div> <div>6/8/2014</div> <div><i>[Signature]</i></div> </div> |





NOON

HOSE I.D. 2 1/2"

LENGTH 424'

END 1

4 1/2" S&B 4 1/2" S&B 5'

GRADE 2100

WORKING PRESSURE 5100 PSI

TEST PRESSURE 7500 PSI

ASSEMBLY DATE 6-8-14

TEST DATE 6-8-14

SERIAL # 133076017513D-040814-14000

MADE IN USA

CR 25613

10000-150FX50

**Rig Plat Diagram Only – Dual Well Pad Layout**  
Outrider Federal #6H  
V-Door East

