

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTNMOCD  
ArtesiaFORM APPROVED  
OMB NO. 1004-0137  
Expires: January 31, 2018**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*5. Lease Serial No.  
NMNM0554239

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.  
891000558X8. Well Name and No.  
JRU DI 11 WHITLASH A 108H9. API Well No.  
30-015-46270-00-X110. Field and Pool or Exploratory Area  
WILDCAT11. County or Parish, State  
EDDY COUNTY, NM**SUBMIT IN TRIPLICATE - Other instructions on page 2**1. Type of Well  
☒ Oil Well ☐ Gas Well ☐ Other2. Name of Operator  
XTO PERMIAN OPERATING LLC  
Contact: STEPHANIE RABADUE  
E-Mail: stephanie\_rabadue@xtoenergy.com3a. Address  
6401 HOLIDAY HILL ROAD BLDG 5  
MIDLAND, TX 797073b. Phone No. (include area code)  
Ph: 432-620-6714

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

Sec 17 T22S R30E NESW 1990FSL 2040FWL  
32.390461 N Lat, 103.905685 W Lon**12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

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

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

XTO Permian Operating, LLC respectfully requests changes to the above referenced drilling program to include the following:

1. Include pilot hole to Wolfcamp B.
2. Change TVD/MD from 10347?/23675? to 10615?/23137?.
3. Surface hole to 24? with 18-5/8? 87.5# J-55 BTC csg.
4. Salt String hole to 17-1/2? with 13-3/8? HCL-80 68# BTC csg.
5. Intermediate hole to 12-1/4? with 9-5/8? 40# HCL-80 csg.
6. Production hole to 8-1/2? with 5-1/2? 20# P-110 BTC csg.
7. Update take points from 330?FSL to 2310?FSL.

Attachments:

SEE ATTACHED FOR  
CONDITIONS OF APPROVALNM OIL CONSERVATION  
ARTESIA DISTRICT

OCT 02 2019

|                                                                                                                                                                                                                                                                                            |                                                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| 14. I hereby certify that the foregoing is true and correct.                                                                                                                                                                                                                               |                                                   |
| Electronic Submission #483455 verified by the BLM Well Information System<br>For XTO PERMIAN OPERATING LLC, sent to the Carlsbad<br>Committed to AFMSS for processing by JENNIFER SANCHEZ on 09/16/2019 (19JAS0038SE)                                                                      |                                                   |
| Name (Printed/Typed) STEPHANIE RABADUE                                                                                                                                                                                                                                                     | Title REGULATORY COORDINATOR                      |
| Signature (Electronic Submission)                                                                                                                                                                                                                                                          | Date 09/16/2019                                   |
| THIS SPACE FOR FEDERAL OR STATE OFFICE USE                                                                                                                                                                                                                                                 |                                                   |
| Approved By                                                                                                                                                                                                                                                                                | BUREAU OF LAND MANAGEMENT<br>ROSWELL FIELD OFFICE |
| Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.                                  |                                                   |
| Title 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)

\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\*

RW 10-9-19

**Additional data for EC transaction #483455 that would not fit on the form**

**32. Additional remarks, continued**

1. Updated C-102
2. BOP/Choke/MBS Diagrams
3. Updated drilling program with cement volumes
4. Updated directional drill plan

The surface hole location of the well has not changed.

## Revisions to Operator-Submitted EC Data for Sundry Notice #483455

|                                | Operator Submitted                                                                                      | BLM Revised (AFMSS)                                                                                            |
|--------------------------------|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| Sundry Type:                   | APDCH<br>NOI                                                                                            | APDCH<br>NOI                                                                                                   |
| Lease:                         | NMNM0554239                                                                                             | NMNM0554239                                                                                                    |
| Agreement:                     |                                                                                                         | 891000558X (NMNM70965X)                                                                                        |
| Operator:                      | XTO PERMIAN OPERATING, LLC<br>6401 HOLIDAY HILL ROAD, BLDG 5<br>MIDLAND, TX 79707<br>Ph: 432-620-6700   | XTO PERMIAN OPERATING LLC<br>6401 HOLIDAY HILL ROAD BLDG 5<br>MIDLAND, TX 79707<br>Ph: 432.683 2277            |
| Admin Contact:                 | STEPHANIE RABADUE<br>LEAD PERMITTING<br>E-Mail: stephanie_rabadue@xtoenergy.com<br><br>Ph: 432-620-6714 | STEPHANIE RABADUE<br>REGULATORY COORDINATOR<br>E-Mail: stephanie_rabadue@xtoenergy.com<br><br>Ph: 432-620-6714 |
| Tech Contact:                  | STEPHANIE RABADUE<br>LEAD PERMITTING<br>E-Mail: stephanie_rabadue@xtoenergy.com<br><br>Ph: 432-620-6714 | STEPHANIE RABADUE<br>REGULATORY COORDINATOR<br>E-Mail: stephanie_rabadue@xtoenergy.com<br><br>Ph: 432-620-6714 |
| Location:<br>State:<br>County: | NM<br>EDDY                                                                                              | NM<br>EDDY                                                                                                     |
| Field/Pool:                    | WILDCAT; WC                                                                                             | WILDCAT                                                                                                        |
| Well/Facility:                 | JRU DI 11 WHITLASH A 108H<br>Sec 17 T22S R30E Mer NMP NESW 1990FSL 2040FWL                              | JRU DI 11 WHITLASH A 108H<br>Sec 17 T22S R30E NESW 1990FSL 2040FWL<br>32.390461 N Lat, 103.905685 W Lon        |

District I  
1625 N. French Dr., Hobbs, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-0720  
District II  
811 S. First St., Artesia, NM 88210  
Phone: (575) 748-1283 Fax: (575) 748-9720  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
Phone: (505) 334-6178 Fax: (505) 334-6170  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico  
Energy, Minerals & Natural Resources Department  
OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

**NM OIL CONSERVATION**  
ARTESIA DISTRICT  
OCT 02 2019  
Form C-102  
Revised August 1, 2011  
Submit one copy to appropriate  
District Office

**RECEIVED** ☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

|                                         |                                                           |                                                                |
|-----------------------------------------|-----------------------------------------------------------|----------------------------------------------------------------|
| <sup>1</sup> API Number<br>30-015-46270 | <sup>2</sup> Pool Code<br>98237                           | <sup>3</sup> Pool Name<br>WC-015 G-06 2230517K; Upper Wolfcamp |
| <sup>4</sup> Property Code<br>326099    | <sup>5</sup> Property Name<br>JRU DI 11 WHITLASH A        | <sup>6</sup> Well Number<br>108H                               |
| <sup>7</sup> OGRID No.<br>373075        | <sup>8</sup> Operator Name<br>XTO PERMIAN OPERATING, LLC. | <sup>9</sup> Elevation<br>3,102'                               |

<sup>10</sup> Surface Location

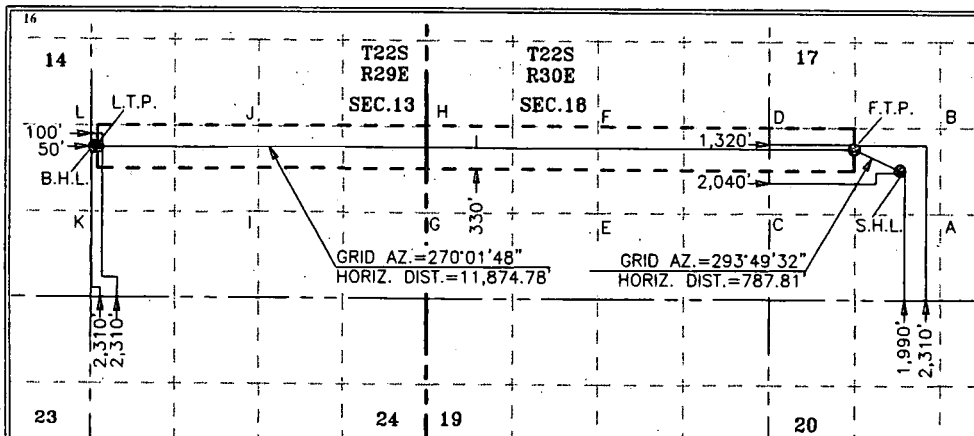
| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| K             | 17      | 22S      | 30 E  |         | 1,990         | SOUTH            | 2,040         | WEST           | EDDY   |

<sup>11</sup> Bottom Hole Location If Different From Surface

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| L             | 13      | 22 S     | 29 E  |         | 2,310         | SOUTH            | 50            | WEST           | EDDY   |

|                                         |                                         |                                  |                         |
|-----------------------------------------|-----------------------------------------|----------------------------------|-------------------------|
| <sup>12</sup> Dedicated Acres<br>400.31 | <sup>13</sup> Joint or Infill<br>100.34 | <sup>14</sup> Consolidation Code | <sup>15</sup> Order No. |
|-----------------------------------------|-----------------------------------------|----------------------------------|-------------------------|

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



CORNER COORDINATES TABLE

NAD 27 NME  
A - Y= 505,315.5 N, X= 632,795.5 E  
B - Y= 506,634.5 N, X= 632,791.0 E  
C - Y= 505,308.8 N, X= 630,118.4 E  
D - Y= 506,627.6 N, X= 630,115.4 E  
E - Y= 505,305.2 N, X= 627,441.2 E  
F - Y= 506,624.0 N, X= 627,437.6 E  
G - Y= 505,301.6 N, X= 624,753.5 E  
H - Y= 506,620.5 N, X= 624,748.7 E  
I - Y= 505,309.6 N, X= 622,132.5 E  
J - Y= 506,628.2 N, X= 622,130.0 E  
K - Y= 505,317.7 N, X= 619,511.5 E  
L - Y= 506,636.0 N, X= 619,511.4 E

CORNER COORDINATES TABLE

NAD 83 NME  
A - Y= 505,375.8 N, X= 673,977.1 E  
B - Y= 506,694.9 N, X= 673,972.6 E  
C - Y= 505,369.1 N, X= 671,300.0 E  
D - Y= 506,688.0 N, X= 671,297.0 E  
E - Y= 505,365.5 N, X= 668,622.8 E  
F - Y= 506,684.4 N, X= 668,619.2 E  
G - Y= 505,361.9 N, X= 665,935.1 E  
H - Y= 506,680.9 N, X= 665,930.3 E  
I - Y= 505,370.0 N, X= 663,314.1 E  
J - Y= 506,688.6 N, X= 663,311.6 E  
K - Y= 505,378.1 N, X= 660,693.1 E  
L - Y= 506,696.4 N, X= 660,692.9 E

GEODETIC COORDINATES

NAD 27 NME  
SURFACE LOCATION  
Y= 505,984.8  
X= 632,156.8  
LAT.= 32.390340°N  
LONG.= 103.905192°W

FIRST TAKE POINT  
NAD 27 NME  
Y= 506,303.0  
X= 631,436.1  
LAT.= 32.391222°N  
LONG.= 103.907522°W

LAST TAKE POINT  
NAD 27 NME  
Y= 506,309.1  
X= 619,611.4  
LAT.= 32.391363°N  
LONG.= 103.945830°W

BOTTOM HOLE LOCATION  
NAD 27 NME  
Y= 506,309.2  
X= 619,561.4  
LAT.= 32.391363°N  
LONG.= 103.945992°W

GEODETIC COORDINATES

NAD 83 NME  
SURFACE LOCATION  
Y= 506,045.2  
X= 673,338.4  
LAT.= 32.390461°N  
LONG.= 103.905687°W

FIRST TAKE POINT  
NAD 83 NME  
Y= 506,363.4  
X= 672,617.7  
LAT.= 32.391344°N  
LONG.= 103.908018°W

LAST TAKE POINT  
NAD 83 NME  
Y= 506,369.5  
X= 660,793.0  
LAT.= 32.391484°N  
LONG.= 103.946326°W

BOTTOM HOLE LOCATION  
NAD 83 NME  
Y= 506,369.6  
X= 660,743.0  
LAT.= 32.391485°N  
LONG.= 103.946488°W

<sup>17</sup> OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Stephanie Rabadue 09/10/2019  
Signature Date

Stephanie Rabadue

Printed Name

stephanie\_rabadue@xtoenergy.com

E-mail Address

<sup>18</sup> SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

9-10-2019

Date of Survey

Signature and Seal of  
Professional Surveyor:

MARK DILLON HARP 23786  
Certificate Number



JC

2019041015

RW 10-9-19

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

XTO Energy Inc.  
JRU DI 11 Whitlash A #108H  
Projected TD: 23137' MD / 10615' TVD  
SHL: 1990' FSL & 2040' FWL , Section 17, T22S, R30E  
BHL: 330' FSL & 50' FWL , Section 13, T22S, R29E  
Eddy 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            | 48'              | Water         |
| Top of Salt        | 465'             | Water         |
| Base of Salt       | 3156'            | Water         |
| Delaware           | 3360'            | Water         |
| Bone Spring        | 7187'            | Water/Oil/Gas |
| 1st Bone Spring Ss | 8130'            | Water/Oil/Gas |
| 2nd Bone Spring Ss | 8835'            | Water/Oil/Gas |
| 3rd Bone Spring Ss | 10106'           | Water/Oil/Gas |
| Wolfcamp Shale     | 10506'           | Water/Oil/Gas |
| Wolfcamp Y Ss      | 10586'           | Water/Oil/Gas |
| Target/Land Curve  | 10615'           | Water/Oil/Gas |

\*\*\* Hydrocarbons @ Brushy Canyon

\*\*\* Groundwater depth 40' (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 18-5/8 inch casing @ 260' (205' above the salt) and circulating cement back to surface. The salt will be isolated by setting 13-3/8 inch casing at 3260' and circulating cement to surface. A 12-1/4 inch vertical hole will be drilled to 9500' and 9-5/8 inch casing ran and cemented 500' into the 13-3/8 inch casing. An 8-3/4 inch pilot hole will be drilled to 11017' TVD / 11134' MD. An abandon plug will be set to plug back to 10600' TVD / 10717' MD and a kickoff plug will be set to plug back to 9600' TVD / 9715' MD. A 8-1/2 inch curve and lateral hole will be drilled to 23137' MD/TD and 5-1/2 casing will be set at TD and cemented back 300' into the 9-5/8 inch casing shoe.

**3. Casing Design**

*375'*

| Hole Size | Depth       | OD Csg  | Weight | Collar | Grade  | New/Used | SF Burst | SF Collapse | SF Tension |
|-----------|-------------|---------|--------|--------|--------|----------|----------|-------------|------------|
| 24"       | 0' - 260'   | 18-5/8" | 87.5   | BTC    | J-55   | New      | 2.30     | 5.36        | 60.42      |
| 17-1/2"   | 0' - 3260'  | 13-3/8" | 68     | BTC    | HCL-80 | New      | 1.80     | 2.93        | 13.26      |
| 12-1/4"   | 0' - 9500'  | 9-5/8"  | 40     | BTC    | HCL-80 | New      | 1.66     | 1.49        | 3.32       |
| 8-1/2"    | 0' - 23137' | 5-1/2"  | 20     | BTC    | P-110  | New      | 1.20     | 3.48        | 2.09       |

XTO requests to utilize centralizers only in the curve after the KOP and only a minimum of one every other joint.

13-3/8" Collapse analyzed using 50% evacuation based on regional experience.

9-5/8" Collapse analyzed using 50% evacuation based on regional experience.

5-1/2" tension calculated using vertical hanging weight plus the lateral weight multiplied by a friction factor of 0.35

**WELLHEAD:**

Temporary Wellhead

- 18-5/8" SOW x 21-1/4" 3M top flange

Permanent Wellhead – GE RSH Multibowl System

A. Starting Head (RSH System): 13-3/8" SOW bottom x 13-5/8" 5M top flange

B. Tubing Head: 13-5/8" 15M bottom flange x 7-1/16" 15M top flange

- Wellhead will be installed by manufacturer's representatives.
- Manufacturer will monitor welding process to ensure appropriate temperature of seal.
- Operator will test the 9-5/8" casing per Onshore Order 2.
- Wellhead manufacturer representative may not be present for BOP test plug installation

#### 4. Cement Program

*Surface Casing: 18-5/8", 87.5 New J-55, BTC casing to be set at +/- 260'*

Tail: 480 sxs Halcem-C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft<sup>3</sup>/sx, 6.39 gal/sx water)  
Compressives: 12-hr = 900 psi 24 hr = 1500 psi

*1st Intermediate Casing: 13-3/8", 68 New HCL-80, BTC casing to be set at +/- 3260'*

Lead: 1920 sxs Halcem-C + 2% CaCl (mixed at 12.8 ppg, 1.88 ft<sup>3</sup>/sx, 9.61 gal/sx water)

Tail: 670 sxs Halcem-C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft<sup>3</sup>/sx, 6.39 gal/sx water)  
Compressives: 12-hr = 900 psi 24 hr = 1500 psi

*2nd Intermediate Casing (Stage 2): 9-5/8", 40 New HCL-80, BTC casing to be set at +/- 9500'*  
*ECP/DV Tool to be set at 3310'*

*1st Stage*

Lead: 900 sxs Halcem-C + 2% CaCl (mixed at 12.8 ppg, 1.87 ft<sup>3</sup>/sx, 9.61 gal/sx water)

Tail: 310 sxs Halcem-C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft<sup>3</sup>/sx, 6.39 gal/sx water)  
Compressives: 12-hr = 900 psi 24 hr = 1500 psi

*2nd Stage*

Lead: 1710 sxs Halcem-C + 2% CaCl (mixed at 12.8 ppg, 1.88 ft<sup>3</sup>/sx, 9.61 gal/sx water)

Tail: 470 sxs Halcem-C + 2% CaCl (mixed at 14.8 ppg, 1.33 ft<sup>3</sup>/sx, 6.39 gal/sx water)  
Compressives:

*Production Casing: 5-1/2", 20 New P-110, BTC casing to be set at +/- 23137'*

Lead: 1550 sxs Halcem-C + 2% CaCl (mixed at 11.5 ppg, 1.88 ft<sup>3</sup>/sx, 9.61 gal/sx water)

Tail: 3070 sxs VersaCem (mixed at 13.2 ppg, 1.33 ft<sup>3</sup>/sx, 8.38 gal/sx water)  
Compressives: 12-hr = 1375 psi 24 hr = 2285 psi

#### 5. Pressure Control Equipment

The blow out preventer equipment (BOP) on surface casing temporary wellhead will consist of a 21-1/4" minimum 2M Hydril. MASP should not exceed 978 psi.

Once the permanent wellhead is installed the blow out preventer equipment (BOP) for this well consists of a 13-5/8" minimum 5M Hydril and a 13-5/8" minimum 5M Double Ram BOP. MASP should not exceed 3460 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" 5M bradenhead and flange, the BOP test will be limited to 5000 psi. When the 13-3/8" and 9-5/8" casing is set, the packoff seals will be tested to a minimum of 5000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 5M BOP diagrams are attached. Blind rams will be functioned tested each trip, pipe rams will be functioned tested each day.

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

| INTERVAL        | Hole Size | Mud Type                 | MW (ppg)  | Viscosity (sec/qt) | Fluid Loss (cc) |
|-----------------|-----------|--------------------------|-----------|--------------------|-----------------|
| 0' to 260'      | 24"       | FW/Native                | 8.4-8.8   | 35-40              | NC              |
| 260' to 3260'   | 17-1/2"   | Brine/Gel Sweeps         | 9.8-10.2  | 30-32              | NC              |
| 3260' to 9500'  | 12-1/4"   | FW / Cut Brine           | 9.1-9.5   | 29-32              | NC - 20         |
| 9500' to 23137' | 8-1/2"    | FW / Cut Brine / Polymer | 10.2-10.8 | 32-50              | 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. Pump out from under 10-9/16" surface casing with brine solution. 10-2 cpps to 10-2 pps 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

- 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) from surface to TD.

Coring includes sidewall cores in the first and second intermediate hole sections.

Open hole logging will include Quad combo (GR, Neu, Deri, Sonic) and NMR in the first and second intermediate hole sections.

## 9. Abnormal Pressures and Temperatures / Potential Hazards

None Anticipated. BHT of 150 to 170 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. The maximum anticipated bottom hole pressure for this well is 5796 psi.

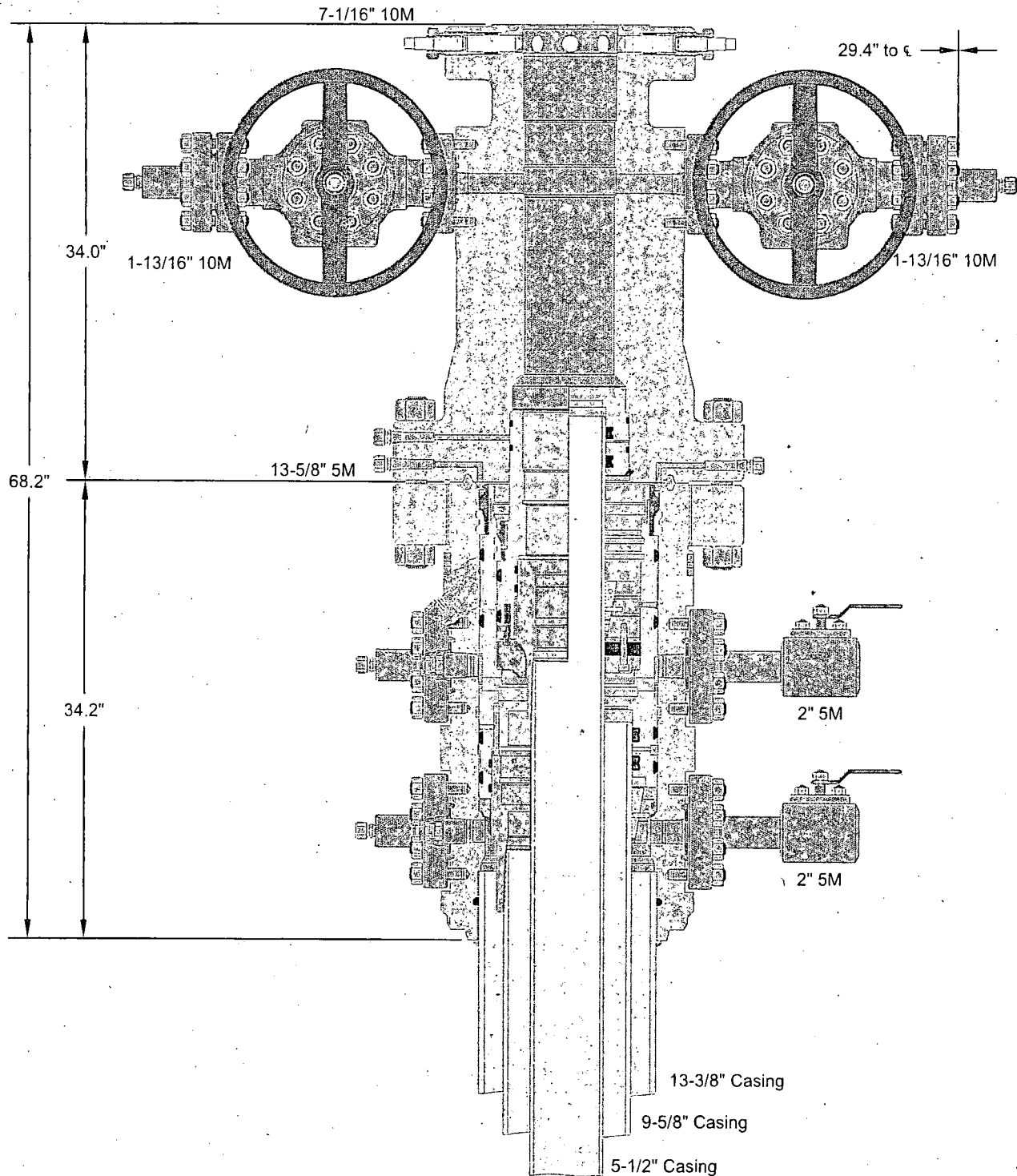
## 10. Anticipated Starting Date and Duration of Operations

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.





GE Oil & Gas



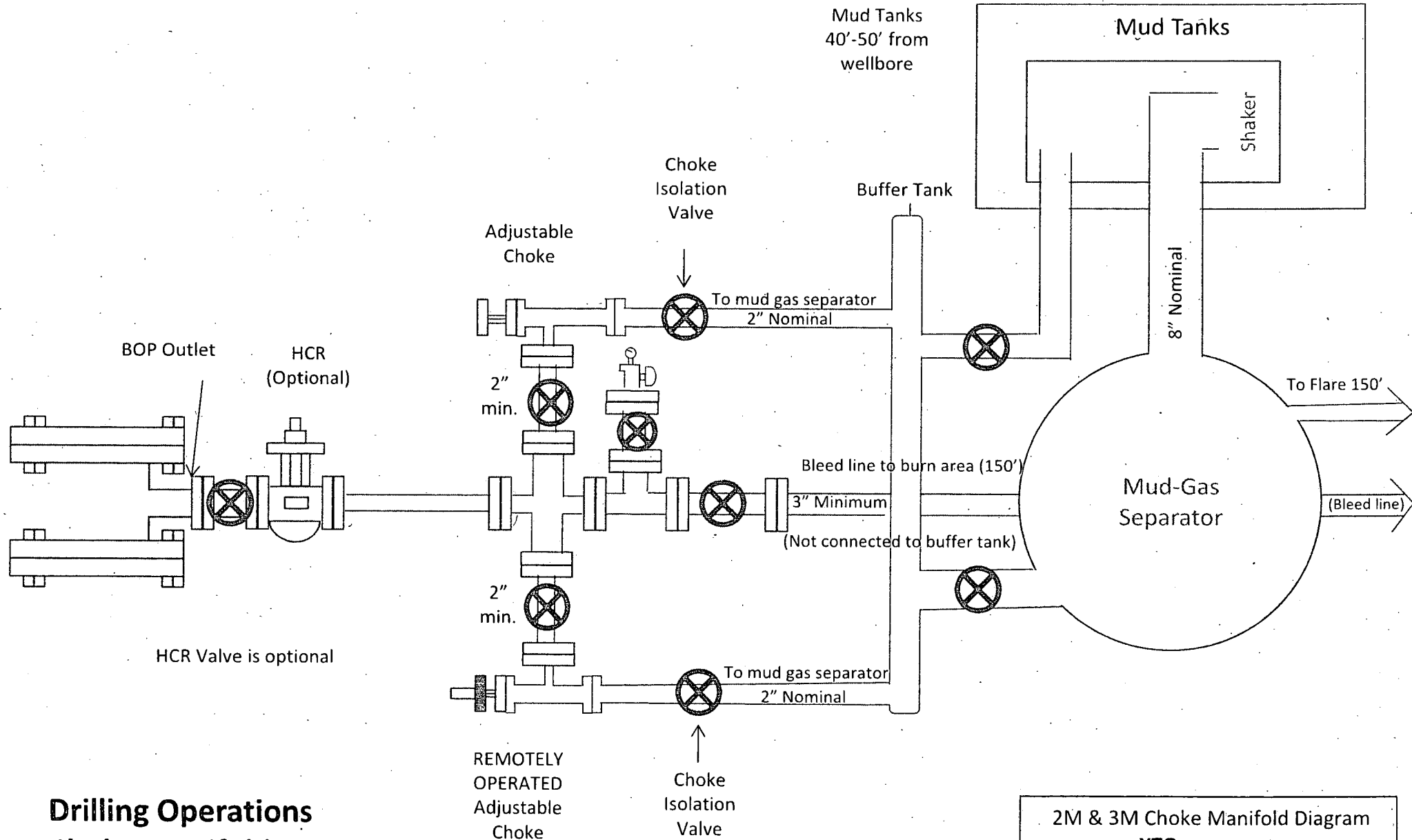
ALL DIMENSIONS ARE APPROXIMATE

This drawing is the property of GE Oil & Gas Pressure Control LP and is considered confidential. Unless otherwise approved in writing, neither it nor its contents may be used, copied, transmitted or reproduced except for the sole purpose of GE Oil & Gas Pressure Control LP.

XTO ENERGY, INC.

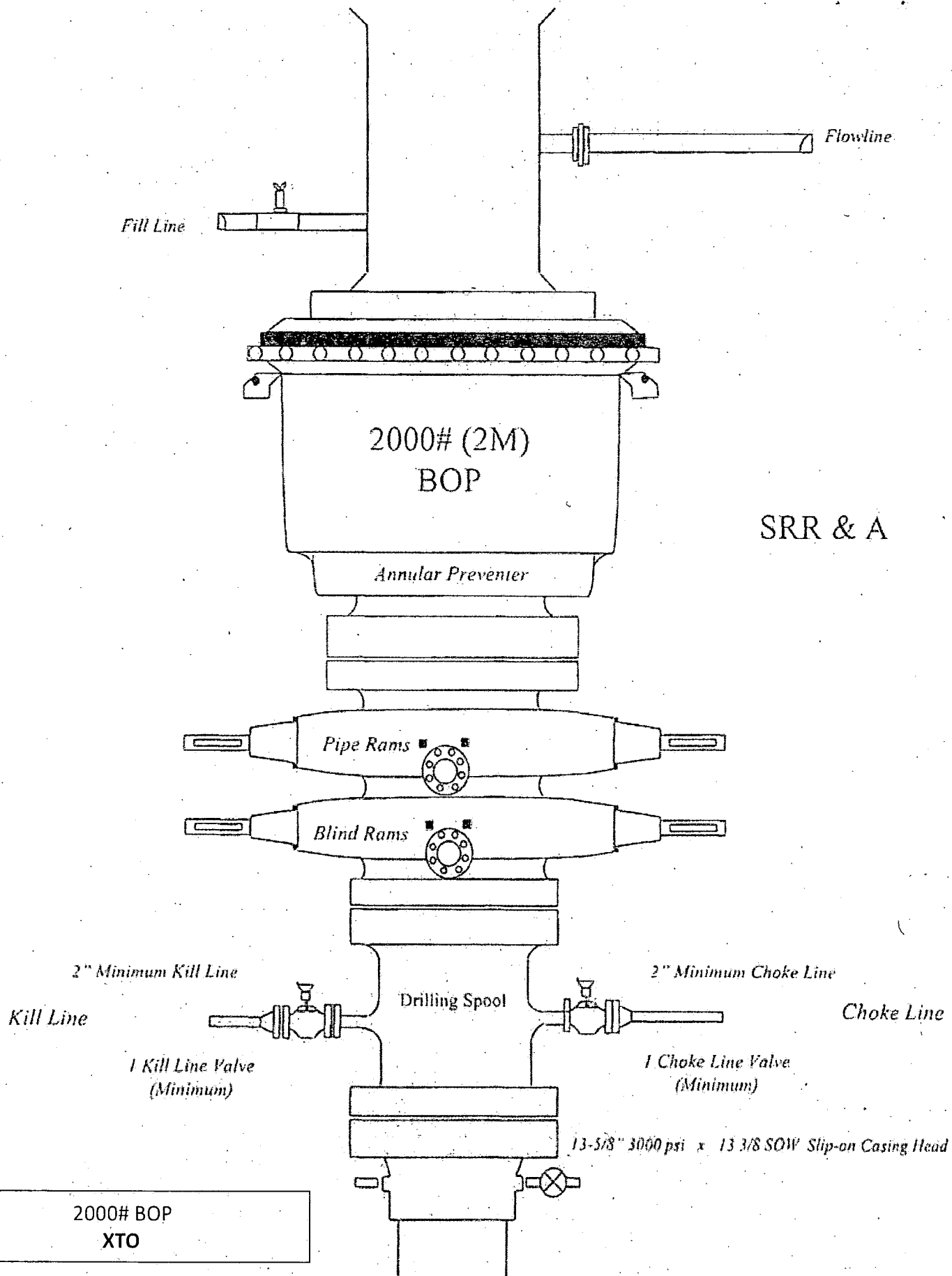
13-3/8" x 9-5/8" x 5-1/2" 10M RSH-2 Wellhead  
Assembly, With T-EBS-F Tubing Head

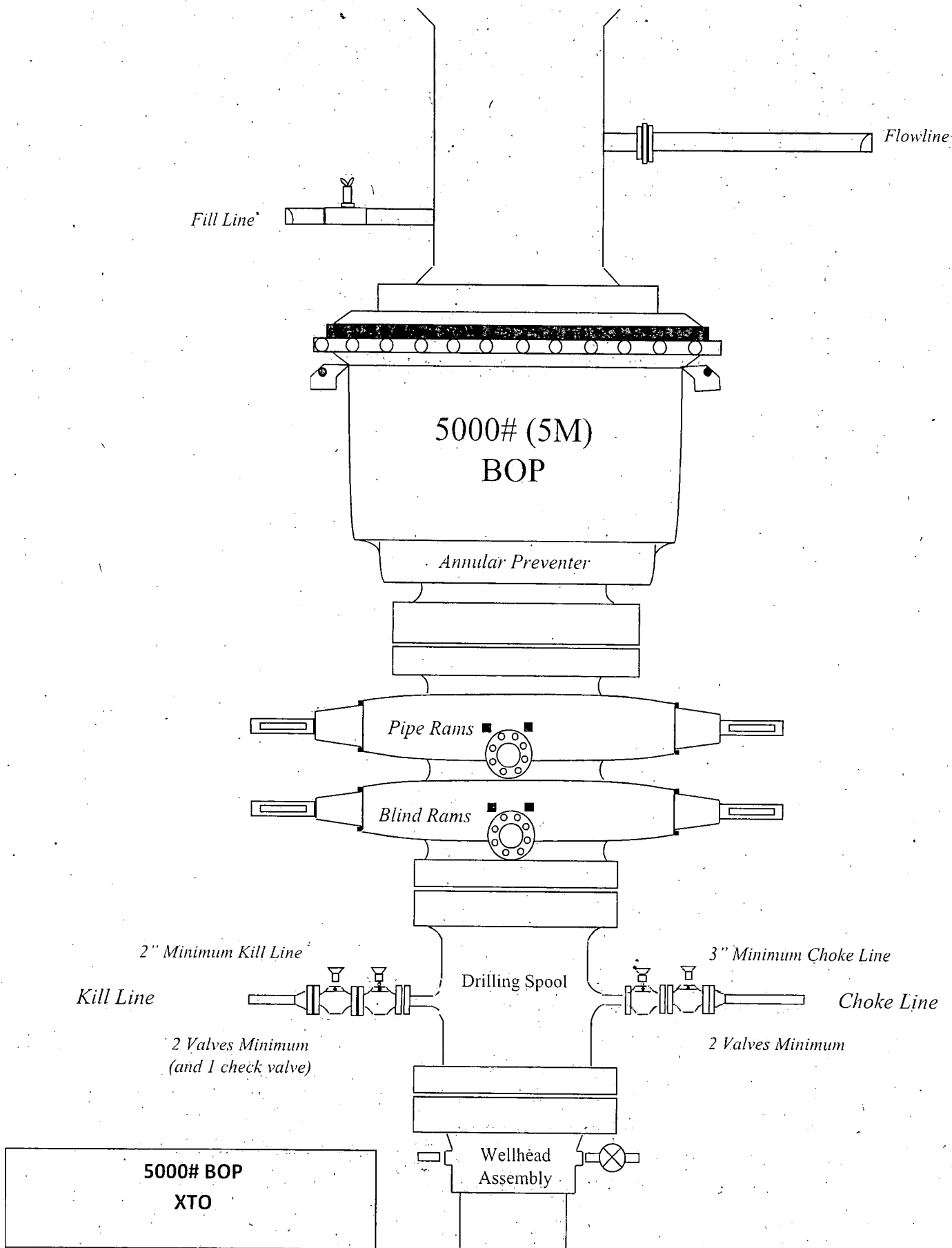
|                    |     |          |
|--------------------|-----|----------|
| DRAWN              | VJK | 16FEB17  |
| APPRV              | KN  | 16FEB17  |
| FOR REFERENCE ONLY |     |          |
| DRAWING NO.        |     | 10012842 |

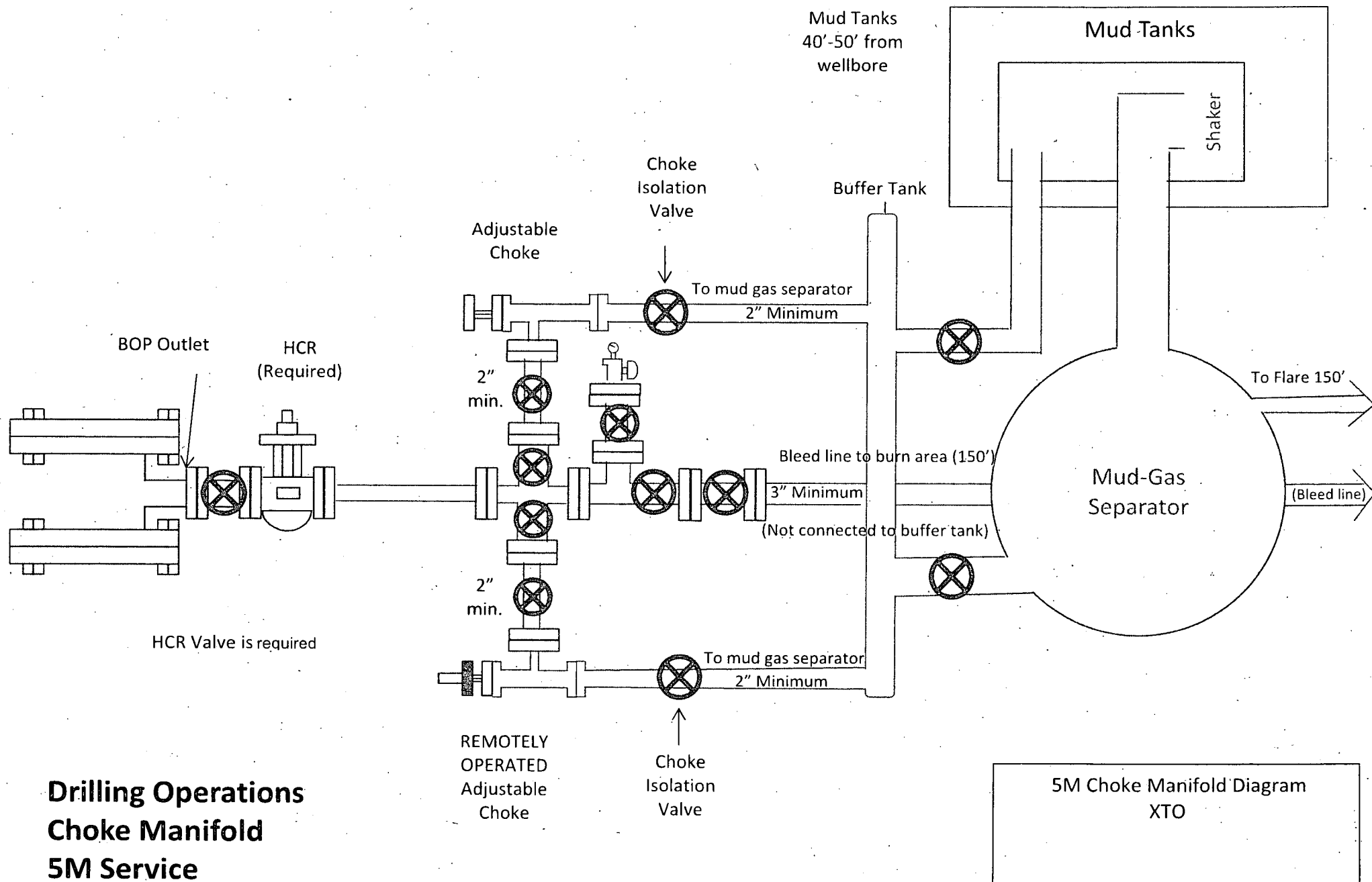


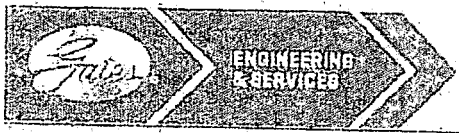
**Drilling Operations**  
**Choke Manifold**  
**2M & 3M Service**

2M & 3M Choke Manifold Diagram  
 XTO









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

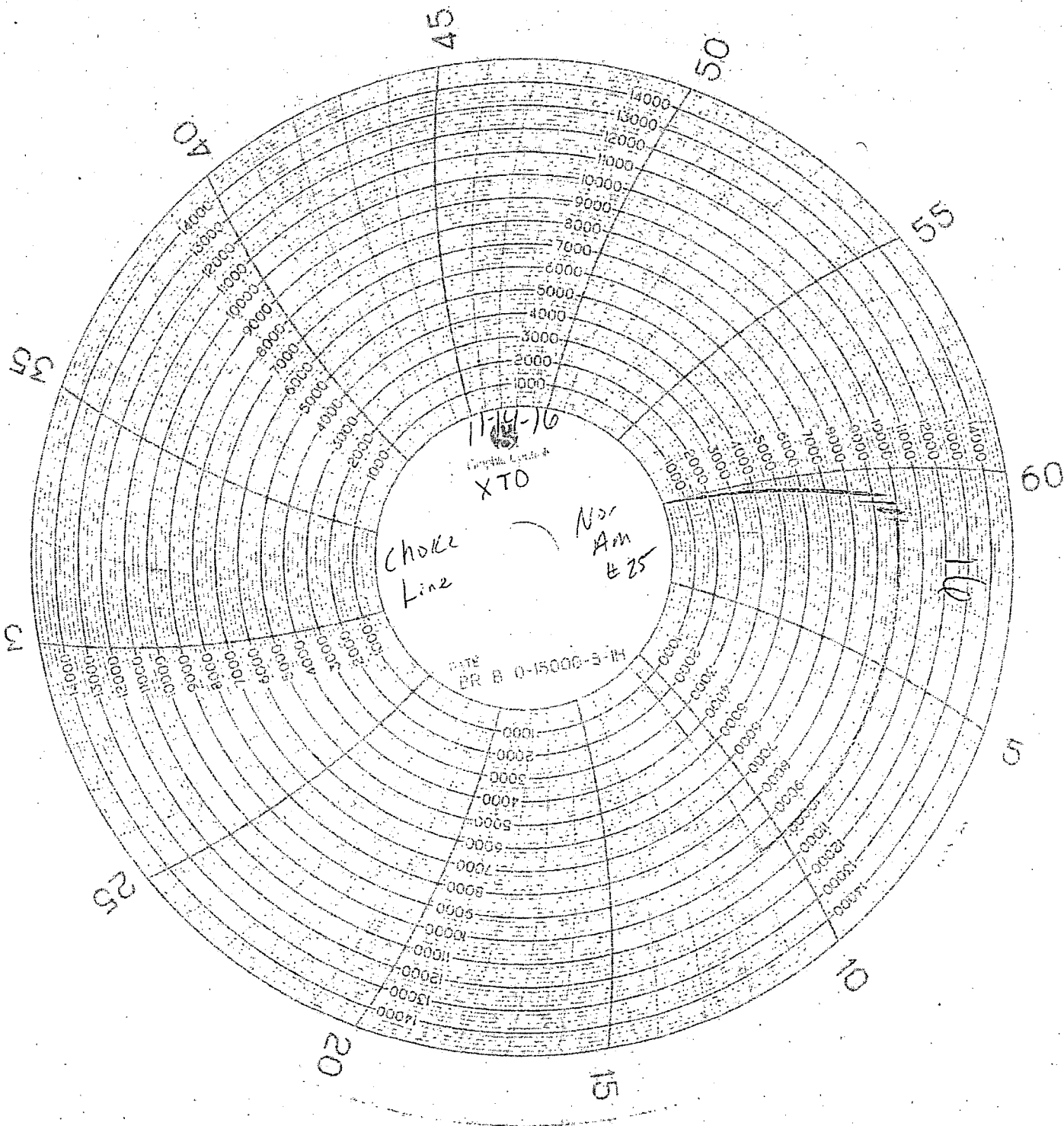
PHONE: 361-887-9807  
FAX: 361-887-0812  
EMAIL: crpe@s@gates.com  
WEB: www.gates.com

### GRADE D PRESSURE TEST CERTIFICATE

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

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.

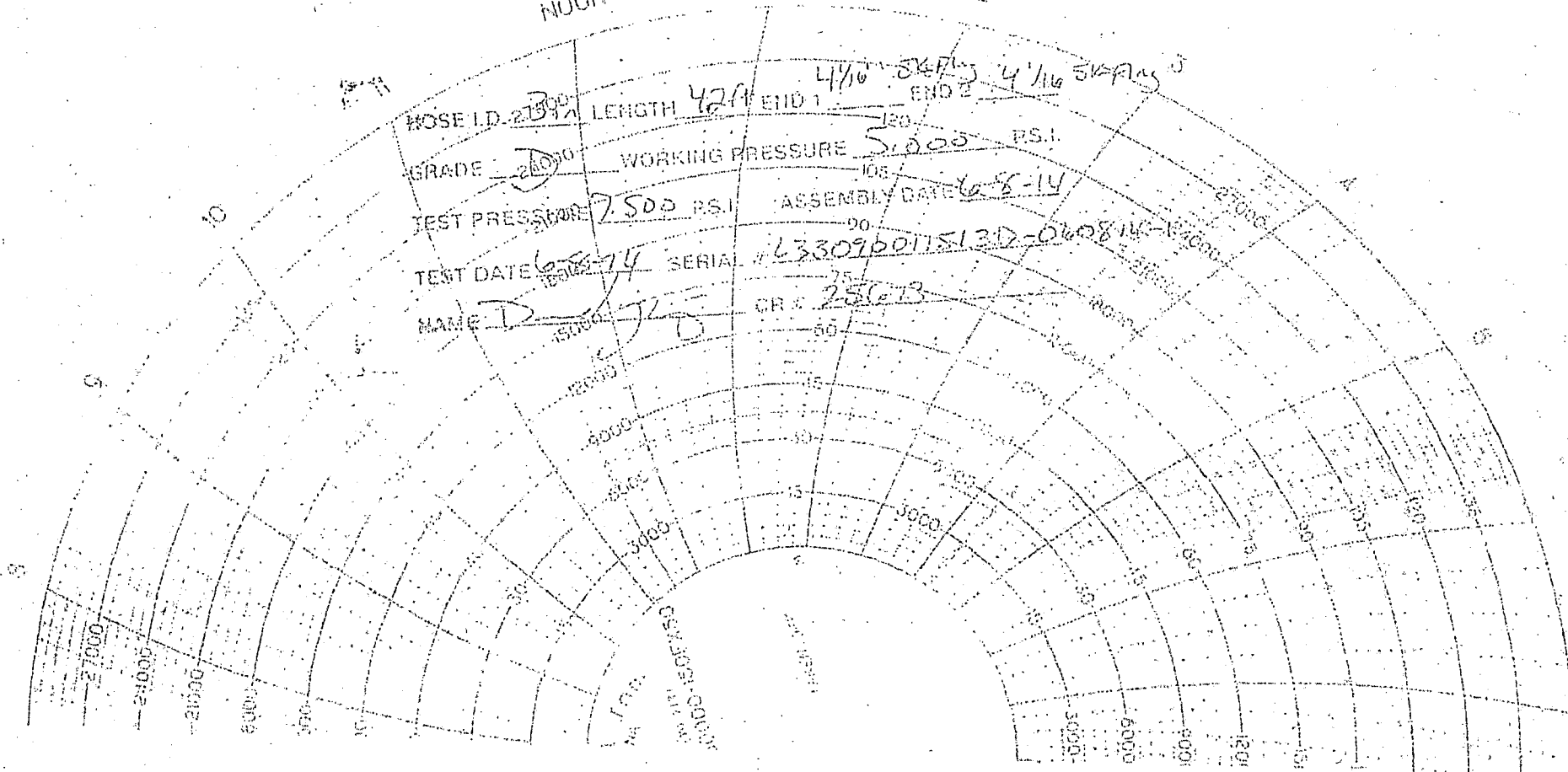
|             |          |                        |            |
|-------------|----------|------------------------|------------|
| Quality:    | QUALITY  | Technical Supervisor : | PRODUCTION |
| Date :      | 6/8/2014 | Date :                 | 6/8/2014   |
| Signature : |          | Signature :            |            |



NOON

2

HOSE I.D. 2 1/2" LENGTH 424' END 1 4 1/16" 5K PL END 2 4 1/16" 5K PL  
GRADE D WORKING PRESSURE 5,000 P.S.I.  
TEST PRESSURE 7,500 P.S.I. ASSEMBLY DATE 6-8-14  
TEST DATE 6-8-14 SERIAL 633090011513D-060814-1  
NAME D CR # 25613







# Planned Wellpath Report

JRU DI 11 Whitlash A #108H Rev-A.0

Page 1 of 9



| REFERENCE WELLPATH IDENTIFICATION |                         |          |                                |
|-----------------------------------|-------------------------|----------|--------------------------------|
| Operator                          | XTO Energy Inc.         | Slot     | JRU DI 11 Whitlash A #108H     |
| Area                              | Eddy County, NM         | Well     | JRU DI 11 Whitlash A #108H     |
| Field                             | Wolfcamp (Eddy Co., NM) | Wellbore | JRU DI 11 Whitlash A #108H PWB |
| Facility                          | JRU DI 11 Whitlash A    |          |                                |

| REPORT SETUP INFORMATION |                                                        |                  |                      |
|--------------------------|--------------------------------------------------------|------------------|----------------------|
| Projection System        | NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet | Software System  | WellArchitect® 5.1   |
| North Reference          | Grid                                                   | User             | Okimlucg             |
| Scale                    | 0.999929                                               | Report Generated | 13/Sep/2019 at 10:27 |
| Convergence at slot      | 0.23° East                                             | Database         | WA_HOU_Midland_Defn  |

| WELLPATH LOCATION     |                   |          |                  |                 |                        |                 |
|-----------------------|-------------------|----------|------------------|-----------------|------------------------|-----------------|
|                       | Local coordinates |          | Grid coordinates |                 | Geographic coordinates |                 |
|                       | North[ft]         | East[ft] | Easting[US ft]   | Northing[US ft] | Latitude               | Longitude       |
| Slot Location         | 0.00              | 0.00     | 632156.80        | 505984.80       | 32°23'25.223"N         | 103°54'18.690"W |
| Facility Reference Pt |                   |          | 632156.80        | 505984.80       | 32°23'25.223"N         | 103°54'18.690"W |
| Field Reference Pt    |                   |          | 152400.30        | 0.00            | 30°59'42.846"N         | 105°26'33.659"W |

| WELLPATH DATUM           |                    |                                                                         |                   |
|--------------------------|--------------------|-------------------------------------------------------------------------|-------------------|
| Calculation method       | Minimum curvature  | Precision 598 (KB) to Facility Vertical Datum                           | 3127.00ft         |
| Horizontal Reference Pt  | Slot               | Precision 598 (KB) to Mean Sea Level                                    | 3127.00ft         |
| Vertical Reference Pt    | Precision 598 (KB) | Precision 598 (KB) to Ground Level at Slot (JRU DI 11 Whitlash A #108H) | 25.00ft           |
| MD Reference Pt          | Precision 598 (KB) | Section Origin                                                          | N 0.00, E 0.00 ft |
| Field Vertical Reference | Mean Sea Level     | Section Azimuth                                                         | 270.03°           |



# Planned Wellpath Report

JRU DI 11 Whitlash A #108H Rev-A.0

Page 2 of 9

**BAKER  
HUGHES**  
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## REFERENCE WELLPATH IDENTIFICATION

|          |                         |          |                                |
|----------|-------------------------|----------|--------------------------------|
| Operator | XTO Energy Inc.         | Slot     | JRU DI 11 Whitlash A #108H     |
| Area     | Eddy County, NM         | Well     | JRU DI 11 Whitlash A #108H     |
| Field    | Wolfcamp (Eddy Co., NM) | Wellbore | JRU DI 11 Whitlash A #108H PWB |
| Facility | JRU DI 11 Whitlash A    |          |                                |

## WELLPATH DATA (239 stations) † = interpolated/extrapolated station

| MD<br>[ft] | Inclination<br>[°] | Azimuth<br>[°] | TVD<br>[ft] | Vert Sect<br>[ft] | North<br>[ft] | East<br>[ft] | Grid East<br>[US ft] | Grid North<br>[US ft] | Latitude       | Longitude       | DLS<br>[°/100ft] | Build Rate<br>[°/100ft] | Turn Rate<br>[°/100ft] | Comments |
|------------|--------------------|----------------|-------------|-------------------|---------------|--------------|----------------------|-----------------------|----------------|-----------------|------------------|-------------------------|------------------------|----------|
| 0.00†      | 0.000              | 135.000        | 0.00        | 0.00              | 0.00          | 0.00         | 632156.80            | 505984.80             | 32°23'25.223"N | 103°54'18.690"W | 0.00             | 0.00                    | 0.00                   |          |
| 25.00      | 0.000              | 135.000        | 25.00       | 0.00              | 0.00          | 0.00         | 632156.80            | 505984.80             | 32°23'25.223"N | 103°54'18.690"W | 0.00             | 0.00                    | 0.00                   | Tie On   |
| 125.00†    | 0.000              | 135.000        | 125.00      | 0.00              | 0.00          | 0.00         | 632156.80            | 505984.80             | 32°23'25.223"N | 103°54'18.690"W | 0.00             | 0.00                    | 0.00                   |          |
| 225.00†    | 0.000              | 135.000        | 225.00      | 0.00              | 0.00          | 0.00         | 632156.80            | 505984.80             | 32°23'25.223"N | 103°54'18.690"W | 0.00             | 0.00                    | 0.00                   |          |
| 325.00†    | 0.000              | 135.000        | 325.00      | 0.00              | 0.00          | 0.00         | 632156.80            | 505984.80             | 32°23'25.223"N | 103°54'18.690"W | 0.00             | 0.00                    | 0.00                   |          |
| 425.00†    | 0.000              | 135.000        | 425.00      | 0.00              | 0.00          | 0.00         | 632156.80            | 505984.80             | 32°23'25.223"N | 103°54'18.690"W | 0.00             | 0.00                    | 0.00                   |          |
| 525.00†    | 0.000              | 135.000        | 525.00      | 0.00              | 0.00          | 0.00         | 632156.80            | 505984.80             | 32°23'25.223"N | 103°54'18.690"W | 0.00             | 0.00                    | 0.00                   |          |
| 625.00†    | 0.000              | 135.000        | 625.00      | 0.00              | 0.00          | 0.00         | 632156.80            | 505984.80             | 32°23'25.223"N | 103°54'18.690"W | 0.00             | 0.00                    | 0.00                   |          |
| 725.00†    | 0.000              | 135.000        | 725.00      | 0.00              | 0.00          | 0.00         | 632156.80            | 505984.80             | 32°23'25.223"N | 103°54'18.690"W | 0.00             | 0.00                    | 0.00                   |          |
| 825.00†    | 0.000              | 135.000        | 825.00      | 0.00              | 0.00          | 0.00         | 632156.80            | 505984.80             | 32°23'25.223"N | 103°54'18.690"W | 0.00             | 0.00                    | 0.00                   |          |
| 925.00†    | 0.000              | 135.000        | 925.00      | 0.00              | 0.00          | 0.00         | 632156.80            | 505984.80             | 32°23'25.223"N | 103°54'18.690"W | 0.00             | 0.00                    | 0.00                   |          |
| 1025.00†   | 0.000              | 135.000        | 1025.00     | 0.00              | 0.00          | 0.00         | 632156.80            | 505984.80             | 32°23'25.223"N | 103°54'18.690"W | 0.00             | 0.00                    | 0.00                   |          |
| 1125.00†   | 0.000              | 135.000        | 1125.00     | 0.00              | 0.00          | 0.00         | 632156.80            | 505984.80             | 32°23'25.223"N | 103°54'18.690"W | 0.00             | 0.00                    | 0.00                   |          |
| 1225.00†   | 0.000              | 135.000        | 1225.00     | 0.00              | 0.00          | 0.00         | 632156.80            | 505984.80             | 32°23'25.223"N | 103°54'18.690"W | 0.00             | 0.00                    | 0.00                   |          |
| 1325.00†   | 0.000              | 135.000        | 1325.00     | 0.00              | 0.00          | 0.00         | 632156.80            | 505984.80             | 32°23'25.223"N | 103°54'18.690"W | 0.00             | 0.00                    | 0.00                   |          |
| 1425.00†   | 0.000              | 135.000        | 1425.00     | 0.00              | 0.00          | 0.00         | 632156.80            | 505984.80             | 32°23'25.223"N | 103°54'18.690"W | 0.00             | 0.00                    | 0.00                   |          |
| 1525.00†   | 0.000              | 135.000        | 1525.00     | 0.00              | 0.00          | 0.00         | 632156.80            | 505984.80             | 32°23'25.223"N | 103°54'18.690"W | 0.00             | 0.00                    | 0.00                   |          |
| 1625.00†   | 0.000              | 135.000        | 1625.00     | 0.00              | 0.00          | 0.00         | 632156.80            | 505984.80             | 32°23'25.223"N | 103°54'18.690"W | 0.00             | 0.00                    | 0.00                   |          |
| 1725.00†   | 0.000              | 135.000        | 1725.00     | 0.00              | 0.00          | 0.00         | 632156.80            | 505984.80             | 32°23'25.223"N | 103°54'18.690"W | 0.00             | 0.00                    | 0.00                   |          |
| 1825.00†   | 0.000              | 135.000        | 1825.00     | 0.00              | 0.00          | 0.00         | 632156.80            | 505984.80             | 32°23'25.223"N | 103°54'18.690"W | 0.00             | 0.00                    | 0.00                   |          |
| 1925.00†   | 0.000              | 135.000        | 1925.00     | 0.00              | 0.00          | 0.00         | 632156.80            | 505984.80             | 32°23'25.223"N | 103°54'18.690"W | 0.00             | 0.00                    | 0.00                   |          |
| 2025.00†   | 0.000              | 135.000        | 2025.00     | 0.00              | 0.00          | 0.00         | 632156.80            | 505984.80             | 32°23'25.223"N | 103°54'18.690"W | 0.00             | 0.00                    | 0.00                   |          |
| 2125.00†   | 0.000              | 135.000        | 2125.00     | 0.00              | 0.00          | 0.00         | 632156.80            | 505984.80             | 32°23'25.223"N | 103°54'18.690"W | 0.00             | 0.00                    | 0.00                   |          |
| 2225.00†   | 0.000              | 135.000        | 2225.00     | 0.00              | 0.00          | 0.00         | 632156.80            | 505984.80             | 32°23'25.223"N | 103°54'18.690"W | 0.00             | 0.00                    | 0.00                   |          |
| 2325.00†   | 0.000              | 135.000        | 2325.00     | 0.00              | 0.00          | 0.00         | 632156.80            | 505984.80             | 32°23'25.223"N | 103°54'18.690"W | 0.00             | 0.00                    | 0.00                   |          |
| 2425.00†   | 0.000              | 135.000        | 2425.00     | 0.00              | 0.00          | 0.00         | 632156.80            | 505984.80             | 32°23'25.223"N | 103°54'18.690"W | 0.00             | 0.00                    | 0.00                   |          |
| 2525.00†   | 0.000              | 135.000        | 2525.00     | 0.00              | 0.00          | 0.00         | 632156.80            | 505984.80             | 32°23'25.223"N | 103°54'18.690"W | 0.00             | 0.00                    | 0.00                   |          |
| 2625.00†   | 0.000              | 135.000        | 2625.00     | 0.00              | 0.00          | 0.00         | 632156.80            | 505984.80             | 32°23'25.223"N | 103°54'18.690"W | 0.00             | 0.00                    | 0.00                   |          |
| 2725.00†   | 0.000              | 135.000        | 2725.00     | 0.00              | 0.00          | 0.00         | 632156.80            | 505984.80             | 32°23'25.223"N | 103°54'18.690"W | 0.00             | 0.00                    | 0.00                   |          |
| 2825.00†   | 0.000              | 135.000        | 2825.00     | 0.00              | 0.00          | 0.00         | 632156.80            | 505984.80             | 32°23'25.223"N | 103°54'18.690"W | 0.00             | 0.00                    | 0.00                   |          |



# Planned Wellpath Report

JRU DI 11 Whitlash A #108H Rev-A.0

Page 3 of 9

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| REFERENCE WELLPATH IDENTIFICATION |                         |          |                                |
|-----------------------------------|-------------------------|----------|--------------------------------|
| Operator                          | XTO Energy Inc.         | Slot     | JRU DI 11 Whitlash A #108H     |
| Area                              | Eddy County, NM         | Well     | JRU DI 11 Whitlash A #108H     |
| Field                             | Wolfcamp (Eddy Co., NM) | Wellbore | JRU DI 11 Whitlash A #108H PWB |
| Facility                          | JRU DI 11 Whitlash A    |          |                                |

| WELLPATH DATA (239 stations) † = interpolated/extrapolated station |                    |                |             |                   |               |              |                      |                       |                |                 |                  |                         |                        |             |
|--------------------------------------------------------------------|--------------------|----------------|-------------|-------------------|---------------|--------------|----------------------|-----------------------|----------------|-----------------|------------------|-------------------------|------------------------|-------------|
| MD<br>[ft]                                                         | Inclination<br>[°] | Azimuth<br>[°] | TVD<br>[ft] | Vert Sect<br>[ft] | North<br>[ft] | East<br>[ft] | Grid East<br>[US ft] | Grid North<br>[US ft] | Latitude       | Longitude       | DLS<br>[°/100ft] | Build Rate<br>[°/100ft] | Turn Rate<br>[°/100ft] | Comments    |
| 2925.00†                                                           | 0.000              | 135.000        | 2925.00     | 0.00              | 0.00          | 0.00         | 632156.80            | 505984.80             | 32°23'25.223"N | 103°54'18.690"W | 0.00             | 0.00                    | 0.00                   |             |
| 3025.00†                                                           | 0.000              | 135.000        | 3025.00     | 0.00              | 0.00          | 0.00         | 632156.80            | 505984.80             | 32°23'25.223"N | 103°54'18.690"W | 0.00             | 0.00                    | 0.00                   |             |
| 3125.00†                                                           | 0.000              | 135.000        | 3125.00     | 0.00              | 0.00          | 0.00         | 632156.80            | 505984.80             | 32°23'25.223"N | 103°54'18.690"W | 0.00             | 0.00                    | 0.00                   |             |
| 3225.00†                                                           | 0.000              | 135.000        | 3225.00     | 0.00              | 0.00          | 0.00         | 632156.80            | 505984.80             | 32°23'25.223"N | 103°54'18.690"W | 0.00             | 0.00                    | 0.00                   |             |
| 3300.00†                                                           | 0.000              | 135.000        | 3300.00     | 0.00              | 0.00          | 0.00         | 632156.80            | 505984.80             | 32°23'25.223"N | 103°54'18.690"W | 0.00             | 0.00                    | 0.00                   | Start Build |
| 3325.00†                                                           | 0.375              | 135.000        | 3325.00     | -0.06             | -0.06         | 0.06         | 632156.86            | 505984.74             | 32°23'25.222"N | 103°54'18.690"W | 1.50             | 1.50                    | 540.00                 |             |
| 3366.67                                                            | 1.000              | 135.000        | 3366.66     | -0.41             | -0.41         | 0.41         | 632157.21            | 505984.39             | 32°23'25.219"N | 103°54'18.686"W | 1.50             | 1.50                    | 0.00                   | Hold        |
| 3425.00†                                                           | 1.000              | 135.000        | 3424.99     | -1.13             | -1.13         | 1.13         | 632157.93            | 505983.67             | 32°23'25.212"N | 103°54'18.677"W | 0.00             | 0.00                    | 0.00                   |             |
| 3525.00†                                                           | 1.000              | 135.000        | 3524.97     | -2.37             | -2.37         | 2.37         | 632159.17            | 505982.43             | 32°23'25.199"N | 103°54'18.663"W | 0.00             | 0.00                    | 0.00                   |             |
| 3625.00†                                                           | 1.000              | 135.000        | 3624.96     | -3.60             | -3.60         | 3.60         | 632160.40            | 505981.20             | 32°23'25.187"N | 103°54'18.649"W | 0.00             | 0.00                    | 0.00                   |             |
| 3725.00†                                                           | 1.000              | 135.000        | 3724.94     | -4.84             | -4.83         | 4.83         | 632161.63            | 505979.97             | 32°23'25.175"N | 103°54'18.634"W | 0.00             | 0.00                    | 0.00                   |             |
| 3825.00†                                                           | 1.000              | 135.000        | 3824.93     | -6.07             | -6.07         | 6.07         | 632162.87            | 505978.73             | 32°23'25.163"N | 103°54'18.620"W | 0.00             | 0.00                    | 0.00                   |             |
| 3925.00†                                                           | 1.000              | 135.000        | 3924.91     | -7.31             | -7.30         | 7.30         | 632164.10            | 505977.50             | 32°23'25.150"N | 103°54'18.606"W | 0.00             | 0.00                    | 0.00                   |             |
| 4025.00†                                                           | 1.000              | 135.000        | 4024.90     | -8.54             | -8.54         | 8.54         | 632165.34            | 505976.26             | 32°23'25.138"N | 103°54'18.591"W | 0.00             | 0.00                    | 0.00                   |             |
| 4125.00†                                                           | 1.000              | 135.000        | 4124.88     | -9.77             | -9.77         | 9.77         | 632166.57            | 505975.03             | 32°23'25.126"N | 103°54'18.577"W | 0.00             | 0.00                    | 0.00                   |             |
| 4225.00†                                                           | 1.000              | 135.000        | 4224.87     | -11.01            | -11.00        | 11.00        | 632167.80            | 505973.80             | 32°23'25.114"N | 103°54'18.563"W | 0.00             | 0.00                    | 0.00                   |             |
| 4325.00†                                                           | 1.000              | 135.000        | 4324.85     | -12.24            | -12.24        | 12.24        | 632169.04            | 505972.56             | 32°23'25.101"N | 103°54'18.548"W | 0.00             | 0.00                    | 0.00                   |             |
| 4425.00†                                                           | 1.000              | 135.000        | 4424.84     | -13.48            | -13.47        | 13.47        | 632170.27            | 505971.33             | 32°23'25.089"N | 103°54'18.534"W | 0.00             | 0.00                    | 0.00                   |             |
| 4525.00†                                                           | 1.000              | 135.000        | 4524.82     | -14.71            | -14.71        | 14.71        | 632171.50            | 505970.10             | 32°23'25.077"N | 103°54'18.520"W | 0.00             | 0.00                    | 0.00                   |             |
| 4625.00†                                                           | 1.000              | 135.000        | 4624.80     | -15.95            | -15.94        | 15.94        | 632172.74            | 505968.86             | 32°23'25.064"N | 103°54'18.505"W | 0.00             | 0.00                    | 0.00                   |             |
| 4725.00†                                                           | 1.000              | 135.000        | 4724.79     | -17.18            | -17.17        | 17.17        | 632173.97            | 505967.63             | 32°23'25.052"N | 103°54'18.491"W | 0.00             | 0.00                    | 0.00                   |             |
| 4825.00†                                                           | 1.000              | 135.000        | 4824.77     | -18.42            | -18.41        | 18.41        | 632175.21            | 505966.39             | 32°23'25.040"N | 103°54'18.477"W | 0.00             | 0.00                    | 0.00                   |             |
| 4925.00†                                                           | 1.000              | 135.000        | 4924.76     | -19.65            | -19.64        | 19.64        | 632176.44            | 505965.16             | 32°23'25.028"N | 103°54'18.462"W | 0.00             | 0.00                    | 0.00                   |             |
| 5025.00†                                                           | 1.000              | 135.000        | 5024.74     | -20.89            | -20.88        | 20.88        | 632177.67            | 505963.93             | 32°23'25.015"N | 103°54'18.448"W | 0.00             | 0.00                    | 0.00                   |             |
| 5125.00†                                                           | 1.000              | 135.000        | 5124.73     | -22.12            | -22.11        | 22.11        | 632178.91            | 505962.69             | 32°23'25.003"N | 103°54'18.434"W | 0.00             | 0.00                    | 0.00                   |             |
| 5225.00†                                                           | 1.000              | 135.000        | 5224.71     | -23.36            | -23.34        | 23.34        | 632180.14            | 505961.46             | 32°23'24.991"N | 103°54'18.419"W | 0.00             | 0.00                    | 0.00                   |             |
| 5325.00†                                                           | 1.000              | 135.000        | 5324.70     | -24.59            | -24.58        | 24.58        | 632181.38            | 505960.22             | 32°23'24.979"N | 103°54'18.405"W | 0.00             | 0.00                    | 0.00                   |             |
| 5425.00†                                                           | 1.000              | 135.000        | 5424.68     | -25.83            | -25.81        | 25.81        | 632182.61            | 505958.99             | 32°23'24.966"N | 103°54'18.391"W | 0.00             | 0.00                    | 0.00                   |             |
| 5525.00†                                                           | 1.000              | 135.000        | 5524.67     | -27.06            | -27.05        | 27.05        | 632183.84            | 505957.76             | 32°23'24.954"N | 103°54'18.376"W | 0.00             | 0.00                    | 0.00                   |             |
| 5625.00†                                                           | 1.000              | 135.000        | 5624.65     | -28.30            | -28.28        | 28.28        | 632185.08            | 505956.52             | 32°23'24.942"N | 103°54'18.362"W | 0.00             | 0.00                    | 0.00                   |             |



# Planned Wellpath Report

JRU DI 11 Whitlash A #108H Rev-A.0

Page 4 of 9

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## REFERENCE WELLPATH IDENTIFICATION

|          |                         |          |                                |
|----------|-------------------------|----------|--------------------------------|
| Operator | XTO Energy Inc.         | Slot     | JRU DI 11 Whitlash A #108H     |
| Area     | Eddy County, NM         | Well     | JRU DI 11 Whitlash A #108H     |
| Field    | Wolfcamp (Eddy Co., NM) | Wellbore | JRU DI 11 Whitlash A #108H PWB |
| Facility | JRU DI 11 Whitlash A    |          |                                |

## WELLPATH DATA (239 stations) † = interpolated/extrapolated station

| MD<br>[ft] | Inclination<br>[°] | Azimuth<br>[°] | TVD<br>[ft] | Vert Sect<br>[ft] | North<br>[ft] | East<br>[ft] | Grid East<br>[US ft] | Grid North<br>[US ft] | Latitude       | Longitude       | DLS<br>[°/100ft] | Build Rate<br>[°/100ft] | Turn Rate<br>[°/100ft] | Comments |
|------------|--------------------|----------------|-------------|-------------------|---------------|--------------|----------------------|-----------------------|----------------|-----------------|------------------|-------------------------|------------------------|----------|
| 5725.00†   | 1.000              | 135.000        | 5724.64     | -29.53            | -29.51        | 29.51        | 632186.31            | 505955.29             | 32°23'24.930"N | 103°54'18.348"W | 0.00             | 0.00                    | 0.00                   |          |
| 5825.00†   | 1.000              | 135.000        | 5824.62     | -30.77            | -30.75        | 30.75        | 632187.55            | 505954.05             | 32°23'24.917"N | 103°54'18.333"W | 0.00             | 0.00                    | 0.00                   |          |
| 5925.00†   | 1.000              | 135.000        | 5924.61     | -32.00            | -31.98        | 31.98        | 632188.78            | 505952.82             | 32°23'24.905"N | 103°54'18.319"W | 0.00             | 0.00                    | 0.00                   |          |
| 6025.00†   | 1.000              | 135.000        | 6024.59     | -33.23            | -33.22        | 33.22        | 632190.01            | 505951.59             | 32°23'24.893"N | 103°54'18.305"W | 0.00             | 0.00                    | 0.00                   |          |
| 6125.00†   | 1.000              | 135.000        | 6124.58     | -34.47            | -34.45        | 34.45        | 632191.25            | 505950.35             | 32°23'24.881"N | 103°54'18.290"W | 0.00             | 0.00                    | 0.00                   |          |
| 6225.00†   | 1.000              | 135.000        | 6224.56     | -35.70            | -35.69        | 35.69        | 632192.48            | 505949.12             | 32°23'24.868"N | 103°54'18.276"W | 0.00             | 0.00                    | 0.00                   |          |
| 6325.00†   | 1.000              | 135.000        | 6324.55     | -36.94            | -36.92        | 36.92        | 632193.72            | 505947.88             | 32°23'24.856"N | 103°54'18.262"W | 0.00             | 0.00                    | 0.00                   |          |
| 6425.00†   | 1.000              | 135.000        | 6424.53     | -38.17            | -38.15        | 38.15        | 632194.95            | 505946.65             | 32°23'24.844"N | 103°54'18.247"W | 0.00             | 0.00                    | 0.00                   |          |
| 6525.00†   | 1.000              | 135.000        | 6524.52     | -39.41            | -39.39        | 39.39        | 632196.18            | 505945.42             | 32°23'24.832"N | 103°54'18.233"W | 0.00             | 0.00                    | 0.00                   |          |
| 6625.00†   | 1.000              | 135.000        | 6624.50     | -40.64            | -40.62        | 40.62        | 632197.42            | 505944.18             | 32°23'24.819"N | 103°54'18.219"W | 0.00             | 0.00                    | 0.00                   |          |
| 6725.00†   | 1.000              | 135.000        | 6724.49     | -41.88            | -41.86        | 41.86        | 632198.65            | 505942.95             | 32°23'24.807"N | 103°54'18.204"W | 0.00             | 0.00                    | 0.00                   |          |
| 6825.00†   | 1.000              | 135.000        | 6824.47     | -43.11            | -43.09        | 43.09        | 632199.89            | 505941.71             | 32°23'24.795"N | 103°54'18.190"W | 0.00             | 0.00                    | 0.00                   |          |
| 6925.00†   | 1.000              | 135.000        | 6924.45     | -44.35            | -44.32        | 44.32        | 632201.12            | 505940.48             | 32°23'24.782"N | 103°54'18.176"W | 0.00             | 0.00                    | 0.00                   |          |
| 7025.00†   | 1.000              | 135.000        | 7024.44     | -45.58            | -45.56        | 45.56        | 632202.35            | 505939.25             | 32°23'24.770"N | 103°54'18.161"W | 0.00             | 0.00                    | 0.00                   |          |
| 7125.00†   | 1.000              | 135.000        | 7124.42     | -46.82            | -46.79        | 46.79        | 632203.59            | 505938.01             | 32°23'24.758"N | 103°54'18.147"W | 0.00             | 0.00                    | 0.00                   |          |
| 7225.00†   | 1.000              | 135.000        | 7224.41     | -48.05            | -48.03        | 48.03        | 632204.82            | 505936.78             | 32°23'24.746"N | 103°54'18.133"W | 0.00             | 0.00                    | 0.00                   |          |
| 7325.00†   | 1.000              | 135.000        | 7324.39     | -49.29            | -49.26        | 49.26        | 632206.06            | 505935.54             | 32°23'24.733"N | 103°54'18.118"W | 0.00             | 0.00                    | 0.00                   |          |
| 7425.00†   | 1.000              | 135.000        | 7424.38     | -50.52            | -50.49        | 50.49        | 632207.29            | 505934.31             | 32°23'24.721"N | 103°54'18.104"W | 0.00             | 0.00                    | 0.00                   |          |
| 7525.00†   | 1.000              | 135.000        | 7524.36     | -51.76            | -51.73        | 51.73        | 632208.52            | 505933.08             | 32°23'24.709"N | 103°54'18.090"W | 0.00             | 0.00                    | 0.00                   |          |
| 7625.00†   | 1.000              | 135.000        | 7624.35     | -52.99            | -52.96        | 52.96        | 632209.76            | 505931.84             | 32°23'24.697"N | 103°54'18.075"W | 0.00             | 0.00                    | 0.00                   |          |
| 7725.00†   | 1.000              | 135.000        | 7724.33     | -54.22            | -54.20        | 54.20        | 632210.99            | 505930.61             | 32°23'24.684"N | 103°54'18.061"W | 0.00             | 0.00                    | 0.00                   |          |
| 7825.00†   | 1.000              | 135.000        | 7824.32     | -55.46            | -55.43        | 55.43        | 632212.23            | 505929.37             | 32°23'24.672"N | 103°54'18.047"W | 0.00             | 0.00                    | 0.00                   |          |
| 7925.00†   | 1.000              | 135.000        | 7924.30     | -56.69            | -56.66        | 56.66        | 632213.46            | 505928.14             | 32°23'24.660"N | 103°54'18.032"W | 0.00             | 0.00                    | 0.00                   |          |
| 8025.00†   | 1.000              | 135.000        | 8024.29     | -57.93            | -57.90        | 57.90        | 632214.69            | 505926.91             | 32°23'24.648"N | 103°54'18.018"W | 0.00             | 0.00                    | 0.00                   |          |
| 8125.00†   | 1.000              | 135.000        | 8124.27     | -59.16            | -59.13        | 59.13        | 632215.93            | 505925.67             | 32°23'24.635"N | 103°54'18.004"W | 0.00             | 0.00                    | 0.00                   |          |
| 8225.00†   | 1.000              | 135.000        | 8224.26     | -60.40            | -60.37        | 60.37        | 632217.16            | 505924.44             | 32°23'24.623"N | 103°54'17.989"W | 0.00             | 0.00                    | 0.00                   |          |
| 8325.00†   | 1.000              | 135.000        | 8324.24     | -61.63            | -61.60        | 61.60        | 632218.40            | 505923.20             | 32°23'24.611"N | 103°54'17.975"W | 0.00             | 0.00                    | 0.00                   |          |
| 8425.00†   | 1.000              | 135.000        | 8424.23     | -62.87            | -62.83        | 62.83        | 632219.63            | 505921.97             | 32°23'24.599"N | 103°54'17.961"W | 0.00             | 0.00                    | 0.00                   |          |
| 8525.00†   | 1.000              | 135.000        | 8524.21     | -64.10            | -64.07        | 64.07        | 632220.86            | 505920.74             | 32°23'24.586"N | 103°54'17.946"W | 0.00             | 0.00                    | 0.00                   |          |
| 8625.00†   | 1.000              | 135.000        | 8624.20     | -65.34            | -65.30        | 65.30        | 632222.10            | 505919.50             | 32°23'24.574"N | 103°54'17.932"W | 0.00             | 0.00                    | 0.00                   |          |



# Planned Wellpath Report

JRU DI 11 Whitlash A #108H Rev-A.0

Page 5 of 9

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## REFERENCE WELLPATH IDENTIFICATION

|          |                         |          |                                |
|----------|-------------------------|----------|--------------------------------|
| Operator | XTO Energy Inc.         | Slot     | JRU DI 11 Whitlash A #108H     |
| Area     | Eddy County, NM         | Well     | JRU DI 11 Whitlash A #108H     |
| Field    | Wolfcamp (Eddy Co., NM) | Wellbore | JRU DI 11 Whitlash A #108H PWB |
| Facility | JRU DI 11 Whitlash A    |          |                                |

## WELLPATH DATA (239 stations) † = interpolated/extrapolated station

| MD<br>[ft] | Inclination<br>[°] | Azimuth<br>[°] | TVD<br>[ft] | Vert Sect<br>[ft] | North<br>[ft] | East<br>[ft] | Grid East<br>[US ft] | Grid North<br>[US ft] | Latitude       | Longitude       | DLS<br>[°/100ft] | Build Rate<br>[°/100ft] | Turn Rate<br>[°/100ft] | Comments    |
|------------|--------------------|----------------|-------------|-------------------|---------------|--------------|----------------------|-----------------------|----------------|-----------------|------------------|-------------------------|------------------------|-------------|
| 8725.00†   | 1.000              | 135.000        | 8724.18     | -66.57            | -66.54        | 66.54        | 632223.33            | 505918.27             | 32°23'24.562"N | 103°54'17.918"W | 0.00             | 0.00                    | 0.00                   |             |
| 8825.00†   | 1.000              | 135.000        | 8824.17     | -67.81            | -67.77        | 67.77        | 632224.57            | 505917.03             | 32°23'24.550"N | 103°54'17.903"W | 0.00             | 0.00                    | 0.00                   |             |
| 8925.00†   | 1.000              | 135.000        | 8924.15     | -69.04            | -69.01        | 69.01        | 632225.80            | 505915.80             | 32°23'24.537"N | 103°54'17.889"W | 0.00             | 0.00                    | 0.00                   |             |
| 9025.00†   | 1.000              | 135.000        | 9024.13     | -70.28            | -70.24        | 70.24        | 632227.03            | 505914.57             | 32°23'24.525"N | 103°54'17.875"W | 0.00             | 0.00                    | 0.00                   |             |
| 9125.00†   | 1.000              | 135.000        | 9124.12     | -71.51            | -71.47        | 71.47        | 632228.27            | 505913.33             | 32°23'24.513"N | 103°54'17.860"W | 0.00             | 0.00                    | 0.00                   |             |
| 9225.00†   | 1.000              | 135.000        | 9224.10     | -72.75            | -72.71        | 72.71        | 632229.50            | 505912.10             | 32°23'24.501"N | 103°54'17.846"W | 0.00             | 0.00                    | 0.00                   |             |
| 9325.00†   | 1.000              | 135.000        | 9324.09     | -73.98            | -73.94        | 73.94        | 632230.74            | 505910.86             | 32°23'24.488"N | 103°54'17.832"W | 0.00             | 0.00                    | 0.00                   |             |
| 9425.00†   | 1.000              | 135.000        | 9424.07     | -75.21            | -75.18        | 75.18        | 632231.97            | 505909.63             | 32°23'24.476"N | 103°54'17.817"W | 0.00             | 0.00                    | 0.00                   |             |
| 9525.00†   | 1.000              | 135.000        | 9524.06     | -76.45            | -76.41        | 76.41        | 632233.20            | 505908.40             | 32°23'24.464"N | 103°54'17.803"W | 0.00             | 0.00                    | 0.00                   |             |
| 9625.00†   | 1.000              | 135.000        | 9624.04     | -77.68            | -77.64        | 77.64        | 632234.44            | 505907.16             | 32°23'24.451"N | 103°54'17.789"W | 0.00             | 0.00                    | 0.00                   |             |
| 9725.00†   | 1.000              | 135.000        | 9724.03     | -78.92            | -78.88        | 78.88        | 632235.67            | 505905.93             | 32°23'24.439"N | 103°54'17.774"W | 0.00             | 0.00                    | 0.00                   |             |
| 9825.00†   | 1.000              | 135.000        | 9824.01     | -80.15            | -80.11        | 80.11        | 632236.91            | 505904.69             | 32°23'24.427"N | 103°54'17.760"W | 0.00             | 0.00                    | 0.00                   |             |
| 9925.00†   | 1.000              | 135.000        | 9924.00     | -81.39            | -81.35        | 81.35        | 632238.14            | 505903.46             | 32°23'24.415"N | 103°54'17.746"W | 0.00             | 0.00                    | 0.00                   |             |
| 9934.73    | 1.000              | 135.000        | 9933.73     | -81.51            | -81.47        | 81.47        | 632238.26            | 505903.34             | 32°23'24.413"N | 103°54'17.744"W | 0.00             | 0.00                    | 0.00                   | Curve KOP   |
| 10025.00†  | 8.046              | 327.051        | 10023.73    | -78.62            | -76.71        | 78.58        | 632235.38            | 505908.09             | 32°23'24.461"N | 103°54'17.778"W | 10.00            | -7.81                   | -186.06                |             |
| 10125.00†  | 18.045             | 326.305        | 10121.03    | -66.18            | -57.90        | 66.15        | 632222.95            | 505926.90             | 32°23'24.647"N | 103°54'17.922"W | 10.00            | 10.00                   | -0.75                  |             |
| 10225.00†  | 28.045             | 326.083        | 10212.93    | -44.40            | -25.43        | 44.39        | 632201.18            | 505959.37             | 32°23'24.969"N | 103°54'18.174"W | 10.00            | 10.00                   | -0.22                  |             |
| 10325.00†  | 38.045             | 325.972        | 10296.65    | -13.94            | 19.73         | 13.95        | 632170.75            | 506004.53             | 32°23'25.418"N | 103°54'18.527"W | 10.00            | 10.00                   | -0.11                  |             |
| 10425.00†  | 48.044             | 325.901        | 10369.64    | 24.28             | 76.20         | -24.24       | 632132.56            | 506061.00             | 32°23'25.978"N | 103°54'18.970"W | 10.00            | 10.00                   | -0.07                  |             |
| 10444.56   | 50.000             | 325.890        | 10382.46    | 32.56             | 188.43        | 32.52        | 632124.29            | 506073.22             | 32°23'26.099"N | 103°54'19.066"W | 10.00            | 10.00                   | -0.06                  | Build/ Turn |
| 10525.00†  | 53.585             | 316.717        | 10432.27    | 72.12             | 137.58        | -72.05       | 632084.75            | 506122.37             | 32°23'26.587"N | 103°54'19.524"W | 10.00            | 4.46                    | -11.40                 |             |
| 10625.00†  | 58.911             | 306.525        | 10487.92    | 134.30            | 192.50        | -134.20      | 632022.61            | 506177.28             | 32°23'27.133"N | 103°54'20.247"W | 10.00            | 5.33                    | -10.19                 |             |
| 10725.00†  | 64.950             | 297.482        | 10535.02    | 209.11            | 239.00        | -208.99      | 631947.83            | 506223.79             | 32°23'27.596"N | 103°54'21.116"W | 10.00            | 6.04                    | -9.04                  |             |
| 10825.00†  | 71.483             | 289.321        | 10572.17    | 294.27            | 275.69        | -294.13      | 631862.69            | 506260.47             | 32°23'27.962"N | 103°54'22.108"W | 10.00            | 6.53                    | -8.16                  |             |
| 10925.00†  | 78.339             | 281.776        | 10598.22    | 387.20            | 301.43        | -387.05      | 631769.78            | 506286.21             | 32°23'28.221"N | 103°54'23.190"W | 10.00            | 6.86                    | -7.55                  |             |
| 11025.00†  | 85.382             | 274.600        | 10612.39    | 485.07            | 315.46        | -484.91      | 631671.93            | 506300.24             | 32°23'28.364"N | 103°54'24.331"W | 10.00            | 7.04                    | -7.18                  |             |
| 11089.93   | 90.000             | 270.030        | 10615.00    | 549.87            | 318.07        | -549.70      | 631607.14            | 506302.85             | 32°23'28.392"N | 103°54'25.086"W | 10.00            | 7.11                    | -7.04                  | Land        |
| 11125.00†  | 90.000             | 270.030        | 10615.00    | 584.93            | 318.09        | -584.77      | 631572.07            | 506302.87             | 32°23'28.394"N | 103°54'25.495"W | 0.00             | 0.00                    | 0.00                   |             |
| 11225.00†  | 90.000             | 270.030        | 10615.00    | 684.93            | 318.15        | -684.77      | 631472.08            | 506302.92             | 32°23'28.398"N | 103°54'26.661"W | 0.00             | 0.00                    | 0.00                   |             |
| 11325.00†  | 90.000             | 270.030        | 10615.00    | 784.93            | 318.20        | -784.77      | 631372.09            | 506302.98             | 32°23'28.402"N | 103°54'27.827"W | 0.00             | 0.00                    | 0.00                   |             |





# Planned Wellpath Report

JRU DI 11 Whitlash A #108H Rev-A.0

Page 6 of 9

**BAKER  
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| REFERENCE WELLPATH IDENTIFICATION |                         |          |                                |
|-----------------------------------|-------------------------|----------|--------------------------------|
| Operator                          | XTO Energy Inc.         | Slot     | JRU DI 11 Whitlash A #108H     |
| Area                              | Eddy County, NM         | Well     | JRU DI 11 Whitlash A #108H     |
| Field                             | Wolfcamp (Eddy Co., NM) | Wellbore | JRU DI 11 Whitlash A #108H PWB |
| Facility                          | JRU DI 11 Whitlash A    |          |                                |

| WELLPATH DATA (239 stations) † = interpolated/extrapolated station |                    |                |             |                   |               |              |                      |                       |                |                 |                  |                         |                        |          |
|--------------------------------------------------------------------|--------------------|----------------|-------------|-------------------|---------------|--------------|----------------------|-----------------------|----------------|-----------------|------------------|-------------------------|------------------------|----------|
| MD<br>[ft]                                                         | Inclination<br>[°] | Azimuth<br>[°] | TVD<br>[ft] | Vert Sect<br>[ft] | North<br>[ft] | East<br>[ft] | Grid East<br>[US ft] | Grid North<br>[US ft] | Latitude       | Longitude       | DLS<br>[°/100ft] | Build Rate<br>[°/100ft] | Turn Rate<br>[°/100ft] | Comments |
| 11425.00†                                                          | 90.000             | 270.030        | 10615.00    | 884.93            | 318.25        | -884.77      | 631272.10            | 506303.03             | 32°23'28.407"N | 103°54'28.994"W | 0.00             | 0.00                    | 0.00                   |          |
| 11525.00†                                                          | 90.000             | 270.030        | 10615.00    | 984.93            | 318.30        | -984.77      | 631172.10            | 506303.08             | 32°23'28.411"N | 103°54'30.160"W | 0.00             | 0.00                    | 0.00                   |          |
| 11625.00†                                                          | 90.000             | 270.030        | 10615.00    | 1084.93           | 318.36        | -1084.77     | 631072.11            | 506303.13             | 32°23'28.416"N | 103°54'31.326"W | 0.00             | 0.00                    | 0.00                   |          |
| 11725.00†                                                          | 90.000             | 270.030        | 10615.00    | 1184.93           | 318.41        | -1184.77     | 630972.12            | 506303.19             | 32°23'28.420"N | 103°54'32.492"W | 0.00             | 0.00                    | 0.00                   |          |
| 11825.00†                                                          | 90.000             | 270.030        | 10615.00    | 1284.93           | 318.46        | -1284.77     | 630872.13            | 506303.24             | 32°23'28.425"N | 103°54'33.658"W | 0.00             | 0.00                    | 0.00                   |          |
| 11925.00†                                                          | 90.000             | 270.030        | 10615.00    | 1384.93           | 318.51        | -1384.77     | 630772.13            | 506303.29             | 32°23'28.429"N | 103°54'34.824"W | 0.00             | 0.00                    | 0.00                   |          |
| 12025.00†                                                          | 90.000             | 270.030        | 10615.00    | 1484.93           | 318.57        | -1484.77     | 630672.14            | 506303.34             | 32°23'28.434"N | 103°54'35.991"W | 0.00             | 0.00                    | 0.00                   |          |
| 12125.00†                                                          | 90.000             | 270.030        | 10615.00    | 1584.93           | 318.62        | -1584.77     | 630572.15            | 506303.40             | 32°23'28.438"N | 103°54'37.157"W | 0.00             | 0.00                    | 0.00                   |          |
| 12225.00†                                                          | 90.000             | 270.030        | 10615.00    | 1684.93           | 318.67        | -1684.77     | 630472.15            | 506303.45             | 32°23'28.442"N | 103°54'38.323"W | 0.00             | 0.00                    | 0.00                   |          |
| 12325.00†                                                          | 90.000             | 270.030        | 10615.00    | 1784.93           | 318.73        | -1784.77     | 630372.16            | 506303.50             | 32°23'28.447"N | 103°54'39.489"W | 0.00             | 0.00                    | 0.00                   |          |
| 12425.00†                                                          | 90.000             | 270.030        | 10615.00    | 1884.93           | 318.78        | -1884.77     | 630272.17            | 506303.55             | 32°23'28.451"N | 103°54'40.655"W | 0.00             | 0.00                    | 0.00                   |          |
| 12525.00†                                                          | 90.000             | 270.030        | 10615.00    | 1984.93           | 318.83        | -1984.77     | 630172.18            | 506303.61             | 32°23'28.456"N | 103°54'41.821"W | 0.00             | 0.00                    | 0.00                   |          |
| 12625.00†                                                          | 90.000             | 270.030        | 10615.00    | 2084.93           | 318.88        | -2084.77     | 630072.18            | 506303.66             | 32°23'28.460"N | 103°54'42.988"W | 0.00             | 0.00                    | 0.00                   |          |
| 12725.00†                                                          | 90.000             | 270.030        | 10615.00    | 2184.93           | 318.94        | -2184.77     | 629972.19            | 506303.71             | 32°23'28.465"N | 103°54'44.154"W | 0.00             | 0.00                    | 0.00                   |          |
| 12825.00†                                                          | 90.000             | 270.030        | 10615.00    | 2284.93           | 318.99        | -2284.77     | 629872.20            | 506303.77             | 32°23'28.469"N | 103°54'45.320"W | 0.00             | 0.00                    | 0.00                   |          |
| 12925.00†                                                          | 90.000             | 270.030        | 10615.00    | 2384.93           | 319.04        | -2384.77     | 629772.21            | 506303.82             | 32°23'28.473"N | 103°54'46.486"W | 0.00             | 0.00                    | 0.00                   |          |
| 13025.00†                                                          | 90.000             | 270.030        | 10615.00    | 2484.93           | 319.09        | -2484.77     | 629672.21            | 506303.87             | 32°23'28.478"N | 103°54'47.652"W | 0.00             | 0.00                    | 0.00                   |          |
| 13125.00†                                                          | 90.000             | 270.030        | 10615.00    | 2584.93           | 319.15        | -2584.77     | 629572.22            | 506303.92             | 32°23'28.482"N | 103°54'48.818"W | 0.00             | 0.00                    | 0.00                   |          |
| 13225.00†                                                          | 90.000             | 270.030        | 10615.00    | 2684.93           | 319.20        | -2684.77     | 629472.23            | 506303.98             | 32°23'28.487"N | 103°54'49.985"W | 0.00             | 0.00                    | 0.00                   |          |
| 13325.00†                                                          | 90.000             | 270.030        | 10615.00    | 2784.93           | 319.25        | -2784.77     | 629372.24            | 506304.03             | 32°23'28.491"N | 103°54'51.151"W | 0.00             | 0.00                    | 0.00                   |          |
| 13425.00†                                                          | 90.000             | 270.030        | 10615.00    | 2884.93           | 319.31        | -2884.77     | 629272.24            | 506304.08             | 32°23'28.495"N | 103°54'52.317"W | 0.00             | 0.00                    | 0.00                   |          |
| 13525.00†                                                          | 90.000             | 270.030        | 10615.00    | 2984.93           | 319.36        | -2984.77     | 629172.25            | 506304.13             | 32°23'28.500"N | 103°54'53.483"W | 0.00             | 0.00                    | 0.00                   |          |
| 13625.00†                                                          | 90.000             | 270.030        | 10615.00    | 3084.93           | 319.41        | -3084.77     | 629072.26            | 506304.19             | 32°23'28.504"N | 103°54'54.649"W | 0.00             | 0.00                    | 0.00                   |          |
| 13725.00†                                                          | 90.000             | 270.030        | 10615.00    | 3184.93           | 319.46        | -3184.77     | 628972.26            | 506304.24             | 32°23'28.509"N | 103°54'55.815"W | 0.00             | 0.00                    | 0.00                   |          |
| 13825.00†                                                          | 90.000             | 270.030        | 10615.00    | 3284.93           | 319.52        | -3284.77     | 628872.27            | 506304.29             | 32°23'28.513"N | 103°54'56.982"W | 0.00             | 0.00                    | 0.00                   |          |
| 13925.00†                                                          | 90.000             | 270.030        | 10615.00    | 3384.93           | 319.57        | -3384.77     | 628772.28            | 506304.35             | 32°23'28.517"N | 103°54'58.148"W | 0.00             | 0.00                    | 0.00                   |          |
| 14025.00†                                                          | 90.000             | 270.030        | 10615.00    | 3484.93           | 319.62        | -3484.77     | 628672.29            | 506304.40             | 32°23'28.522"N | 103°54'59.314"W | 0.00             | 0.00                    | 0.00                   |          |
| 14125.00†                                                          | 90.000             | 270.030        | 10615.00    | 3584.93           | 319.67        | -3584.77     | 628572.29            | 506304.45             | 32°23'28.526"N | 103°55'00.480"W | 0.00             | 0.00                    | 0.00                   |          |
| 14225.00†                                                          | 90.000             | 270.030        | 10615.00    | 3684.93           | 319.73        | -3684.77     | 628472.30            | 506304.50             | 32°23'28.530"N | 103°55'01.646"W | 0.00             | 0.00                    | 0.00                   |          |
| 14325.00†                                                          | 90.000             | 270.030        | 10615.00    | 3784.93           | 319.78        | -3784.77     | 628372.31            | 506304.56             | 32°23'28.535"N | 103°55'02.812"W | 0.00             | 0.00                    | 0.00                   |          |



# Planned Wellpath Report

JRU DI 11 Whitlash A #108H Rev-A.0

Page 7 of 9

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| REFERENCE WELLPATH IDENTIFICATION |                         |          |                                |
|-----------------------------------|-------------------------|----------|--------------------------------|
| Operator                          | XTO Energy Inc.         | Slot     | JRU DI 11 Whitlash A #108H     |
| Area                              | Eddy County, NM         | Well     | JRU DI 11 Whitlash A #108H     |
| Field                             | Wolfcamp (Eddy Co., NM) | Wellbore | JRU DI 11 Whitlash A #108H PWB |
| Facility                          | JRU DI 11 Whitlash A    |          |                                |

| WELLPATH DATA (239 stations) † = interpolated/extrapolated station |                    |                |             |                   |               |              |                      |                       |                |                 |                  |                         |                        |          |
|--------------------------------------------------------------------|--------------------|----------------|-------------|-------------------|---------------|--------------|----------------------|-----------------------|----------------|-----------------|------------------|-------------------------|------------------------|----------|
| MD<br>[ft]                                                         | Inclination<br>[°] | Azimuth<br>[°] | TVD<br>[ft] | Vert Sect<br>[ft] | North<br>[ft] | East<br>[ft] | Grid East<br>[US ft] | Grid North<br>[US ft] | Latitude       | Longitude       | DLS<br>[°/100ft] | Build Rate<br>[°/100ft] | Turn Rate<br>[°/100ft] | Comments |
| 14425.00†                                                          | 90.000             | 270.030        | 10615.00    | 3884.93           | 319.83        | -3884.77     | 628272.32            | 506304.61             | 32°23'28.539"N | 103°55'03.979"W | 0.00             | 0.00                    | 0.00                   |          |
| 14525.00†                                                          | 90.000             | 270.030        | 10615.00    | 3984.93           | 319.88        | -3984.77     | 628172.32            | 506304.66             | 32°23'28.544"N | 103°55'05.145"W | 0.00             | 0.00                    | 0.00                   |          |
| 14625.00†                                                          | 90.000             | 270.030        | 10615.00    | 4084.93           | 319.94        | -4084.77     | 628072.33            | 506304.71             | 32°23'28.548"N | 103°55'06.311"W | 0.00             | 0.00                    | 0.00                   |          |
| 14725.00†                                                          | 90.000             | 270.030        | 10615.00    | 4184.93           | 319.99        | -4184.77     | 627972.34            | 506304.77             | 32°23'28.552"N | 103°55'07.477"W | 0.00             | 0.00                    | 0.00                   |          |
| 14825.00†                                                          | 90.000             | 270.030        | 10615.00    | 4284.93           | 320.04        | -4284.77     | 627872.34            | 506304.82             | 32°23'28.557"N | 103°55'08.643"W | 0.00             | 0.00                    | 0.00                   |          |
| 14925.00†                                                          | 90.000             | 270.030        | 10615.00    | 4384.93           | 320.10        | -4384.77     | 627772.35            | 506304.87             | 32°23'28.561"N | 103°55'09.810"W | 0.00             | 0.00                    | 0.00                   |          |
| 15025.00†                                                          | 90.000             | 270.030        | 10615.00    | 4484.93           | 320.15        | -4484.77     | 627672.36            | 506304.93             | 32°23'28.565"N | 103°55'10.976"W | 0.00             | 0.00                    | 0.00                   |          |
| 15125.00†                                                          | 90.000             | 270.030        | 10615.00    | 4584.93           | 320.20        | -4584.77     | 627572.37            | 506304.98             | 32°23'28.570"N | 103°55'12.142"W | 0.00             | 0.00                    | 0.00                   |          |
| 15225.00†                                                          | 90.000             | 270.030        | 10615.00    | 4684.93           | 320.25        | -4684.77     | 627472.37            | 506305.03             | 32°23'28.574"N | 103°55'13.308"W | 0.00             | 0.00                    | 0.00                   |          |
| 15325.00†                                                          | 90.000             | 270.030        | 10615.00    | 4784.93           | 320.31        | -4784.77     | 627372.38            | 506305.08             | 32°23'28.578"N | 103°55'14.474"W | 0.00             | 0.00                    | 0.00                   |          |
| 15425.00†                                                          | 90.000             | 270.030        | 10615.00    | 4884.93           | 320.36        | -4884.77     | 627272.39            | 506305.14             | 32°23'28.583"N | 103°55'15.640"W | 0.00             | 0.00                    | 0.00                   |          |
| 15525.00†                                                          | 90.000             | 270.030        | 10615.00    | 4984.93           | 320.41        | -4984.77     | 627172.40            | 506305.19             | 32°23'28.587"N | 103°55'16.807"W | 0.00             | 0.00                    | 0.00                   |          |
| 15625.00†                                                          | 90.000             | 270.030        | 10615.00    | 5084.93           | 320.46        | -5084.77     | 627072.40            | 506305.24             | 32°23'28.591"N | 103°55'17.973"W | 0.00             | 0.00                    | 0.00                   |          |
| 15725.00†                                                          | 90.000             | 270.030        | 10615.00    | 5184.93           | 320.52        | -5184.77     | 626972.41            | 506305.29             | 32°23'28.596"N | 103°55'19.139"W | 0.00             | 0.00                    | 0.00                   |          |
| 15825.00†                                                          | 90.000             | 270.030        | 10615.00    | 5284.93           | 320.57        | -5284.77     | 626872.42            | 506305.35             | 32°23'28.600"N | 103°55'20.305"W | 0.00             | 0.00                    | 0.00                   |          |
| 15925.00†                                                          | 90.000             | 270.030        | 10615.00    | 5384.93           | 320.62        | -5384.77     | 626772.43            | 506305.40             | 32°23'28.604"N | 103°55'21.471"W | 0.00             | 0.00                    | 0.00                   |          |
| 16025.00†                                                          | 90.000             | 270.030        | 10615.00    | 5484.93           | 320.68        | -5484.77     | 626672.43            | 506305.45             | 32°23'28.609"N | 103°55'22.637"W | 0.00             | 0.00                    | 0.00                   |          |
| 16125.00†                                                          | 90.000             | 270.030        | 10615.00    | 5584.93           | 320.73        | -5584.77     | 626572.44            | 506305.50             | 32°23'28.613"N | 103°55'23.804"W | 0.00             | 0.00                    | 0.00                   |          |
| 16225.00†                                                          | 90.000             | 270.030        | 10615.00    | 5684.93           | 320.78        | -5684.77     | 626472.45            | 506305.56             | 32°23'28.617"N | 103°55'24.970"W | 0.00             | 0.00                    | 0.00                   |          |
| 16325.00†                                                          | 90.000             | 270.030        | 10615.00    | 5784.93           | 320.83        | -5784.77     | 626372.45            | 506305.61             | 32°23'28.622"N | 103°55'26.136"W | 0.00             | 0.00                    | 0.00                   |          |
| 16425.00†                                                          | 90.000             | 270.030        | 10615.00    | 5884.93           | 320.89        | -5884.77     | 626272.46            | 506305.66             | 32°23'28.626"N | 103°55'27.302"W | 0.00             | 0.00                    | 0.00                   |          |
| 16525.00†                                                          | 90.000             | 270.030        | 10615.00    | 5984.93           | 320.94        | -5984.77     | 626172.47            | 506305.72             | 32°23'28.630"N | 103°55'28.468"W | 0.00             | 0.00                    | 0.00                   |          |
| 16625.00†                                                          | 90.000             | 270.030        | 10615.00    | 6084.93           | 320.99        | -6084.77     | 626072.48            | 506305.77             | 32°23'28.635"N | 103°55'29.634"W | 0.00             | 0.00                    | 0.00                   |          |
| 16725.00†                                                          | 90.000             | 270.030        | 10615.00    | 6184.93           | 321.04        | -6184.77     | 625972.48            | 506305.82             | 32°23'28.639"N | 103°55'30.801"W | 0.00             | 0.00                    | 0.00                   |          |
| 16825.00†                                                          | 90.000             | 270.030        | 10615.00    | 6284.93           | 321.10        | -6284.77     | 625872.49            | 506305.87             | 32°23'28.643"N | 103°55'31.967"W | 0.00             | 0.00                    | 0.00                   |          |
| 16925.00†                                                          | 90.000             | 270.030        | 10615.00    | 6384.93           | 321.15        | -6384.77     | 625772.50            | 506305.93             | 32°23'28.647"N | 103°55'33.133"W | 0.00             | 0.00                    | 0.00                   |          |
| 17025.00†                                                          | 90.000             | 270.030        | 10615.00    | 6484.93           | 321.20        | -6484.77     | 625672.51            | 506305.98             | 32°23'28.652"N | 103°55'34.299"W | 0.00             | 0.00                    | 0.00                   |          |
| 17125.00†                                                          | 90.000             | 270.030        | 10615.00    | 6584.93           | 321.26        | -6584.77     | 625572.51            | 506306.03             | 32°23'28.656"N | 103°55'35.465"W | 0.00             | 0.00                    | 0.00                   |          |
| 17225.00†                                                          | 90.000             | 270.030        | 10615.00    | 6684.93           | 321.31        | -6684.77     | 625472.52            | 506306.08             | 32°23'28.660"N | 103°55'36.631"W | 0.00             | 0.00                    | 0.00                   |          |
| 17325.00†                                                          | 90.000             | 270.030        | 10615.00    | 6784.93           | 321.36        | -6784.77     | 625372.53            | 506306.14             | 32°23'28.665"N | 103°55'37.798"W | 0.00             | 0.00                    | 0.00                   |          |



# Planned Wellpath Report

JRU DI 11 Whitlash A #108H Rev-A.0

Page 8 of 9

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## REFERENCE WELLPATH IDENTIFICATION

|          |                         |          |                                |
|----------|-------------------------|----------|--------------------------------|
| Operator | XTO Energy Inc.         | Slot     | JRU DI 11 Whitlash A #108H     |
| Area     | Eddy County, NM         | Well     | JRU DI 11 Whitlash A #108H     |
| Field    | Wolfcamp (Eddy Co., NM) | Wellbore | JRU DI 11 Whitlash A #108H PWB |
| Facility | JRU DI 11 Whitlash A    |          |                                |

## WELLPATH DATA (239 stations) † = Interpolated/extrapolated station

| MD<br>[ft] | Inclination<br>[°] | Azimuth<br>[°] | TVD<br>[ft] | Vert Sect<br>[ft] | North<br>[ft] | East<br>[ft] | Grid East<br>[US ft] | Grid North<br>[US ft] | Latitude       | Longitude       | DLS<br>[°/100ft] | Build Rate<br>[°/100ft] | Turn Rate<br>[°/100ft] | Comments |
|------------|--------------------|----------------|-------------|-------------------|---------------|--------------|----------------------|-----------------------|----------------|-----------------|------------------|-------------------------|------------------------|----------|
| 17425.00†  | 90.000             | 270.030        | 10615.00    | 6884.93           | 321.41        | -6884.77     | 625272.53            | 506306.19             | 32°23'28.669"N | 103°55'38.964"W | 0.00             | 0.00                    | 0.00                   |          |
| 17525.00†  | 90.000             | 270.030        | 10615.00    | 6984.93           | 321.47        | -6984.77     | 625172.54            | 506306.24             | 32°23'28.673"N | 103°55'40.130"W | 0.00             | 0.00                    | 0.00                   |          |
| 17625.00†  | 90.000             | 270.030        | 10615.00    | 7084.93           | 321.52        | -7084.77     | 625072.55            | 506306.30             | 32°23'28.677"N | 103°55'41.296"W | 0.00             | 0.00                    | 0.00                   |          |
| 17725.00†  | 90.000             | 270.030        | 10615.00    | 7184.93           | 321.57        | -7184.77     | 624972.56            | 506306.35             | 32°23'28.682"N | 103°55'42.462"W | 0.00             | 0.00                    | 0.00                   |          |
| 17825.00†  | 90.000             | 270.030        | 10615.00    | 7284.93           | 321.62        | -7284.77     | 624872.56            | 506306.40             | 32°23'28.686"N | 103°55'43.629"W | 0.00             | 0.00                    | 0.00                   |          |
| 17925.00†  | 90.000             | 270.030        | 10615.00    | 7384.93           | 321.68        | -7384.77     | 624772.57            | 506306.45             | 32°23'28.690"N | 103°55'44.795"W | 0.00             | 0.00                    | 0.00                   |          |
| 18025.00†  | 90.000             | 270.030        | 10615.00    | 7484.93           | 321.73        | -7484.77     | 624672.58            | 506306.51             | 32°23'28.694"N | 103°55'45.961"W | 0.00             | 0.00                    | 0.00                   |          |
| 18125.00†  | 90.000             | 270.030        | 10615.00    | 7584.93           | 321.78        | -7584.77     | 624572.59            | 506306.56             | 32°23'28.699"N | 103°55'47.127"W | 0.00             | 0.00                    | 0.00                   |          |
| 18225.00†  | 90.000             | 270.030        | 10615.00    | 7684.93           | 321.83        | -7684.77     | 624472.59            | 506306.61             | 32°23'28.703"N | 103°55'48.293"W | 0.00             | 0.00                    | 0.00                   |          |
| 18325.00†  | 90.000             | 270.030        | 10615.00    | 7784.93           | 321.89        | -7784.77     | 624372.60            | 506306.66             | 32°23'28.707"N | 103°55'49.459"W | 0.00             | 0.00                    | 0.00                   |          |
| 18425.00†  | 90.000             | 270.030        | 10615.00    | 7884.93           | 321.94        | -7884.77     | 624272.61            | 506306.72             | 32°23'28.711"N | 103°55'50.626"W | 0.00             | 0.00                    | 0.00                   |          |
| 18525.00†  | 90.000             | 270.030        | 10615.00    | 7984.93           | 321.99        | -7984.77     | 624172.62            | 506306.77             | 32°23'28.716"N | 103°55'51.792"W | 0.00             | 0.00                    | 0.00                   |          |
| 18625.00†  | 90.000             | 270.030        | 10615.00    | 8084.93           | 322.05        | -8084.77     | 624072.62            | 506306.82             | 32°23'28.720"N | 103°55'52.958"W | 0.00             | 0.00                    | 0.00                   |          |
| 18725.00†  | 90.000             | 270.030        | 10615.00    | 8184.93           | 322.10        | -8184.77     | 623972.63            | 506306.88             | 32°23'28.724"N | 103°55'54.124"W | 0.00             | 0.00                    | 0.00                   |          |
| 18825.00†  | 90.000             | 270.030        | 10615.00    | 8284.93           | 322.15        | -8284.77     | 623872.64            | 506306.93             | 32°23'28.728"N | 103°55'55.290"W | 0.00             | 0.00                    | 0.00                   |          |
| 18925.00†  | 90.000             | 270.030        | 10615.00    | 8384.93           | 322.20        | -8384.77     | 623772.64            | 506306.98             | 32°23'28.733"N | 103°55'56.456"W | 0.00             | 0.00                    | 0.00                   |          |
| 19025.00†  | 90.000             | 270.030        | 10615.00    | 8484.93           | 322.26        | -8484.77     | 623672.65            | 506307.03             | 32°23'28.737"N | 103°55'57.623"W | 0.00             | 0.00                    | 0.00                   |          |
| 19125.00†  | 90.000             | 270.030        | 10615.00    | 8584.93           | 322.31        | -8584.77     | 623572.66            | 506307.09             | 32°23'28.741"N | 103°55'58.789"W | 0.00             | 0.00                    | 0.00                   |          |
| 19225.00†  | 90.000             | 270.030        | 10615.00    | 8684.93           | 322.36        | -8684.77     | 623472.67            | 506307.14             | 32°23'28.745"N | 103°55'59.955"W | 0.00             | 0.00                    | 0.00                   |          |
| 19325.00†  | 90.000             | 270.030        | 10615.00    | 8784.93           | 322.41        | -8784.77     | 623372.67            | 506307.19             | 32°23'28.750"N | 103°56'01.121"W | 0.00             | 0.00                    | 0.00                   |          |
| 19425.00†  | 90.000             | 270.030        | 10615.00    | 8884.93           | 322.47        | -8884.77     | 623272.68            | 506307.24             | 32°23'28.754"N | 103°56'02.287"W | 0.00             | 0.00                    | 0.00                   |          |
| 19525.00†  | 90.000             | 270.030        | 10615.00    | 8984.93           | 322.52        | -8984.77     | 623172.69            | 506307.30             | 32°23'28.758"N | 103°56'03.453"W | 0.00             | 0.00                    | 0.00                   |          |
| 19625.00†  | 90.000             | 270.030        | 10615.00    | 9084.93           | 322.57        | -9084.77     | 623072.70            | 506307.35             | 32°23'28.762"N | 103°56'04.620"W | 0.00             | 0.00                    | 0.00                   |          |
| 19725.00†  | 90.000             | 270.030        | 10615.00    | 9184.93           | 322.63        | -9184.77     | 622972.70            | 506307.40             | 32°23'28.766"N | 103°56'05.786"W | 0.00             | 0.00                    | 0.00                   |          |
| 19825.00†  | 90.000             | 270.030        | 10615.00    | 9284.93           | 322.68        | -9284.77     | 622872.71            | 506307.45             | 32°23'28.771"N | 103°56'06.952"W | 0.00             | 0.00                    | 0.00                   |          |
| 19925.00†  | 90.000             | 270.030        | 10615.00    | 9384.93           | 322.73        | -9384.77     | 622772.72            | 506307.51             | 32°23'28.775"N | 103°56'08.118"W | 0.00             | 0.00                    | 0.00                   |          |
| 20025.00†  | 90.000             | 270.030        | 10615.00    | 9484.93           | 322.78        | -9484.77     | 622672.72            | 506307.56             | 32°23'28.779"N | 103°56'09.284"W | 0.00             | 0.00                    | 0.00                   |          |
| 20125.00†  | 90.000             | 270.030        | 10615.00    | 9584.93           | 322.84        | -9584.77     | 622572.73            | 506307.61             | 32°23'28.783"N | 103°56'10.451"W | 0.00             | 0.00                    | 0.00                   |          |
| 20225.00†  | 90.000             | 270.030        | 10615.00    | 9684.93           | 322.89        | -9684.77     | 622472.74            | 506307.67             | 32°23'28.787"N | 103°56'11.617"W | 0.00             | 0.00                    | 0.00                   |          |
| 20325.00†  | 90.000             | 270.030        | 10615.00    | 9784.93           | 322.94        | -9784.77     | 622372.75            | 506307.72             | 32°23'28.792"N | 103°56'12.783"W | 0.00             | 0.00                    | 0.00                   |          |





# Planned Wellpath Report

JRU DI 11 Whitlash A #108H Rev-A.0

Page 9 of 9

**BAKER  
HUGHES**  
a GE company



## REFERENCE WELLPATH IDENTIFICATION

|          |                         |          |                                |
|----------|-------------------------|----------|--------------------------------|
| Operator | XTO Energy Inc.         | Slot     | JRU DI 11 Whitlash A #108H     |
| Area     | Eddy County, NM         | Well     | JRU DI 11 Whitlash A #108H     |
| Field    | Wolfcamp (Eddy Co., NM) | Wellbore | JRU DI 11 Whitlash A #108H PWB |
| Facility | JRU DI 11 Whitlash A    |          |                                |

## WELLPATH DATA (239 stations) † = interpolated/extrapolated station

| MD<br>[ft] | Inclination<br>[°] | Azimuth<br>[°] | TVD<br>[ft] | Vert Sect<br>[ft] | North<br>[ft] | East<br>[ft] | Grid East<br>[US ft] | Grid North<br>[US ft] | Latitude       | Longitude       | DLS<br>[°/100ft] | Build Rate<br>[°/100ft] | Turn Rate<br>[°/100ft] | Comments |
|------------|--------------------|----------------|-------------|-------------------|---------------|--------------|----------------------|-----------------------|----------------|-----------------|------------------|-------------------------|------------------------|----------|
| 20425.00†  | 90.000             | 270.030        | 10615.00    | 9884.93           | 322.99        | -9884.77     | 622272.75            | 506307.77             | 32°23'28.796"N | 103°56'13.949"W | 0.00             | 0.00                    | 0.00                   |          |
| 20525.00†  | 90.000             | 270.030        | 10615.00    | 9984.93           | 323.05        | -9984.77     | 622172.76            | 506307.82             | 32°23'28.800"N | 103°56'15.115"W | 0.00             | 0.00                    | 0.00                   |          |
| 20625.00†  | 90.000             | 270.030        | 10615.00    | 10084.93          | 323.10        | -10084.77    | 622072.77            | 506307.88             | 32°23'28.804"N | 103°56'16.281"W | 0.00             | 0.00                    | 0.00                   |          |
| 20725.00†  | 90.000             | 270.030        | 10615.00    | 10184.93          | 323.15        | -10184.77    | 621972.78            | 506307.93             | 32°23'28.808"N | 103°56'17.448"W | 0.00             | 0.00                    | 0.00                   |          |
| 20825.00†  | 90.000             | 270.030        | 10615.00    | 10284.93          | 323.21        | -10284.77    | 621872.78            | 506307.98             | 32°23'28.813"N | 103°56'18.614"W | 0.00             | 0.00                    | 0.00                   |          |
| 20925.00†  | 90.000             | 270.030        | 10615.00    | 10384.93          | 323.26        | -10384.77    | 621772.79            | 506308.03             | 32°23'28.817"N | 103°56'19.780"W | 0.00             | 0.00                    | 0.00                   |          |
| 21025.00†  | 90.000             | 270.030        | 10615.00    | 10484.93          | 323.31        | -10484.77    | 621672.80            | 506308.09             | 32°23'28.821"N | 103°56'20.946"W | 0.00             | 0.00                    | 0.00                   |          |
| 21125.00†  | 90.000             | 270.030        | 10615.00    | 10584.93          | 323.36        | -10584.77    | 621572.80            | 506308.14             | 32°23'28.825"N | 103°56'22.112"W | 0.00             | 0.00                    | 0.00                   |          |
| 21225.00†  | 90.000             | 270.030        | 10615.00    | 10684.93          | 323.42        | -10684.77    | 621472.81            | 506308.19             | 32°23'28.829"N | 103°56'23.278"W | 0.00             | 0.00                    | 0.00                   |          |
| 21325.00†  | 90.000             | 270.030        | 10615.00    | 10784.93          | 323.47        | -10784.77    | 621372.82            | 506308.25             | 32°23'28.833"N | 103°56'24.445"W | 0.00             | 0.00                    | 0.00                   |          |
| 21425.00†  | 90.000             | 270.030        | 10615.00    | 10884.93          | 323.52        | -10884.77    | 621272.83            | 506308.30             | 32°23'28.838"N | 103°56'25.611"W | 0.00             | 0.00                    | 0.00                   |          |
| 21525.00†  | 90.000             | 270.030        | 10615.00    | 10984.93          | 323.57        | -10984.77    | 621172.83            | 506308.35             | 32°23'28.842"N | 103°56'26.777"W | 0.00             | 0.00                    | 0.00                   |          |
| 21625.00†  | 90.000             | 270.030        | 10615.00    | 11084.93          | 323.63        | -11084.77    | 621072.84            | 506308.40             | 32°23'28.846"N | 103°56'27.943"W | 0.00             | 0.00                    | 0.00                   |          |
| 21725.00†  | 90.000             | 270.030        | 10615.00    | 11184.93          | 323.68        | -11184.77    | 620972.85            | 506308.46             | 32°23'28.850"N | 103°56'29.109"W | 0.00             | 0.00                    | 0.00                   |          |
| 21825.00†  | 90.000             | 270.030        | 10615.00    | 11284.93          | 323.73        | -11284.77    | 620872.86            | 506308.51             | 32°23'28.854"N | 103°56'30.276"W | 0.00             | 0.00                    | 0.00                   |          |
| 21925.00†  | 90.000             | 270.030        | 10615.00    | 11384.93          | 323.79        | -11384.77    | 620772.86            | 506308.56             | 32°23'28.858"N | 103°56'31.442"W | 0.00             | 0.00                    | 0.00                   |          |
| 22025.00†  | 90.000             | 270.030        | 10615.00    | 11484.93          | 323.84        | -11484.77    | 620672.87            | 506308.61             | 32°23'28.862"N | 103°56'32.608"W | 0.00             | 0.00                    | 0.00                   |          |
| 22125.00†  | 90.000             | 270.030        | 10615.00    | 11584.93          | 323.89        | -11584.77    | 620572.88            | 506308.67             | 32°23'28.867"N | 103°56'33.774"W | 0.00             | 0.00                    | 0.00                   |          |
| 22225.00†  | 90.000             | 270.030        | 10615.00    | 11684.93          | 323.94        | -11684.77    | 620472.89            | 506308.72             | 32°23'28.871"N | 103°56'34.940"W | 0.00             | 0.00                    | 0.00                   |          |
| 22325.00†  | 90.000             | 270.030        | 10615.00    | 11784.93          | 324.00        | -11784.77    | 620372.89            | 506308.77             | 32°23'28.875"N | 103°56'36.106"W | 0.00             | 0.00                    | 0.00                   |          |
| 22425.00†  | 90.000             | 270.030        | 10615.00    | 11884.93          | 324.05        | -11884.77    | 620272.90            | 506308.82             | 32°23'28.879"N | 103°56'37.273"W | 0.00             | 0.00                    | 0.00                   |          |
| 22525.00†  | 90.000             | 270.030        | 10615.00    | 11984.93          | 324.10        | -11984.77    | 620172.91            | 506308.88             | 32°23'28.883"N | 103°56'38.439"W | 0.00             | 0.00                    | 0.00                   |          |
| 22625.00†  | 90.000             | 270.030        | 10615.00    | 12084.93          | 324.15        | -12084.77    | 620072.91            | 506308.93             | 32°23'28.887"N | 103°56'39.605"W | 0.00             | 0.00                    | 0.00                   |          |
| 22725.00†  | 90.000             | 270.030        | 10615.00    | 12184.93          | 324.21        | -12184.77    | 619972.92            | 506308.98             | 32°23'28.891"N | 103°56'40.771"W | 0.00             | 0.00                    | 0.00                   |          |
| 22825.00†  | 90.000             | 270.030        | 10615.00    | 12284.93          | 324.26        | -12284.77    | 619872.93            | 506309.04             | 32°23'28.895"N | 103°56'41.937"W | 0.00             | 0.00                    | 0.00                   |          |
| 22925.00†  | 90.000             | 270.030        | 10615.00    | 12384.93          | 324.31        | -12384.77    | 619772.94            | 506309.09             | 32°23'28.900"N | 103°56'43.103"W | 0.00             | 0.00                    | 0.00                   |          |
| 23025.00†  | 90.000             | 270.030        | 10615.00    | 12484.93          | 324.36        | -12484.77    | 619672.94            | 506309.14             | 32°23'28.904"N | 103°56'44.270"W | 0.00             | 0.00                    | 0.00                   |          |
| 23125.00†  | 90.000             | 270.030        | 10615.00    | 12584.93          | 324.42        | -12584.77    | 619572.95            | 506309.19             | 32°23'28.908"N | 103°56'45.436"W | 0.00             | 0.00                    | 0.00                   |          |
| 23136.55   | 90.000             | 270.030        | 10615.00    | 12596.49          | 324.42        | -12596.32    | 619561.40            | 506309.20             | 32°23'28.908"N | 103°56'45.571"W | 0.00             | 0.00                    | 0.00                   | PBHL     |

| HOLE & CASING SECTIONS - Ref Wellbore: JRU DI 11 Whitlash A #108H PWB      Ref Wellpath: JRU DI 11 Whitlash A #108H Rev-A.0 |                  |                |                  |                   |                 |                   |                   |                 |                 |
|-----------------------------------------------------------------------------------------------------------------------------|------------------|----------------|------------------|-------------------|-----------------|-------------------|-------------------|-----------------|-----------------|
| String/Diameter                                                                                                             | Start MD<br>[ft] | End MD<br>[ft] | Interval<br>[ft] | Start TVD<br>[ft] | End TVD<br>[ft] | Start N/S<br>[ft] | Start E/W<br>[ft] | End N/S<br>[ft] | End E/W<br>[ft] |
| 9.625in Casing                                                                                                              | 25.00            | 9830.00        | 9805.00          | 25.00             | 9829.01         | 0.00              | 0.00              | -80.17          | 80.17           |
| 5.5in Casing                                                                                                                | 25.00            | 23140.00       | 23115.00         | 25.00             | N/A             | 0.00              | 0.00              | N/A             | N/A             |

| TARGETS                            |            |             |               |              |                      |                       |                |                 |           |
|------------------------------------|------------|-------------|---------------|--------------|----------------------|-----------------------|----------------|-----------------|-----------|
| Name                               | MD<br>[ft] | TVD<br>[ft] | North<br>[ft] | East<br>[ft] | Grid East<br>[US ft] | Grid North<br>[US ft] | Latitude       | Longitude       | Shape     |
| JRU DI 11 Whitlash A #108H FTP     |            | 10615.00    | 318.22        | -720.75      | 631436.10            | 506303.00             | 32°23'28.400"N | 103°54'27.081"W | point     |
| JRU DI 11 Whitlash A #108H LTP     |            | 10615.00    | 324.32        | -12546.31    | 619611.40            | 506309.10             | 32°23'28.905"N | 103°56'44.987"W | point     |
| 1) JRU DI 11 Whitlash A #108H PBHL | 23136.55   | 10615.00    | 324.42        | -12596.32    | 619561.40            | 506309.20             | 32°23'28.908"N | 103°56'45.571"W | rectangle |

| SURVEY PROGRAM - Ref Wellbore: JRU DI 11 Whitlash A #108H PWB      Ref Wellpath: JRU DI 11 Whitlash A #108H Rev-A.0 |                |                                                 |                  |                                |
|---------------------------------------------------------------------------------------------------------------------|----------------|-------------------------------------------------|------------------|--------------------------------|
| Start MD<br>[ft]                                                                                                    | End MD<br>[ft] | Positional Uncertainty Model                    | Log Name/Comment | Wellbore                       |
| 25.00                                                                                                               | 9930.00        | BHI NaviTrak (Axial)                            |                  | JRU DI 11 Whitlash A #108H PWB |
| 9930.00                                                                                                             | 23136.55       | OWSG MWD rev2 + IFR1 + Multi-Station Correction |                  | JRU DI 11 Whitlash A #108H PWB |

## PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

|                              |                                                             |
|------------------------------|-------------------------------------------------------------|
| <b>OPERATOR'S NAME:</b>      | <b>XTO Permian Operating, LLC</b>                           |
| <b>LEASE NO.:</b>            | <b>NMNM-0554239</b>                                         |
| <b>WELL NAME &amp; NO.:</b>  | <b>JRU DI 11 Whitlash A 108H</b>                            |
| <b>SURFACE HOLE FOOTAGE:</b> | <b>1990' FSL &amp; 2040' FWL</b>                            |
| <b>BOTTOM HOLE FOOTAGE:</b>  | <b>2310' FSL &amp; 0050' FWL Sec. 13, T. 22 S., R 29 E.</b> |
| <b>LOCATION:</b>             | <b>Section 17, T. 22 S., R 30 E., NMPM</b>                  |
| <b>COUNTY:</b>               | <b>Eddy County, New Mexico</b>                              |

### Commercial Well Determination

A commercial well determination shall be submitted after production has been established for at least six months.

### Unit Wells

The well sign for a unit well shall include the unit number in addition to the surface and bottom hole lease numbers. This also applies to participating area numbers. If a participating area has not been established, the operator can use the general unit designation, but will replace the unit number with the participating area number when the sign is replaced.

### **A. DRILLING OPERATIONS REQUIREMENTS**

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

☒ **Eddy County**

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,  
(575) 361-2822

1. **Hydrogen Sulfide (H<sub>2</sub>S) monitors shall be installed prior to drilling out the surface shoe. If H<sub>2</sub>S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.**
2. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval. **If the drilling rig is removed without approval – an Incident of Non-Compliance will be written and will be a “Major” violation.**

3. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works is located, this does not include the dog house or stairway area.
4. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

## **B. CASING**

Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

### **Wait on cement (WOC) for Potash Areas:**

After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log.

Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

**R-111-P-Potash**

**High Cave/Karst**

**Possibility of water flows in the Salado and Castile.**

**Possibility of lost circulation in the Red Beds, Rustler, and Delaware.**

**Abnormal pressure may be encountered within the 3<sup>rd</sup> Bone Spring Sand and all subsequent formations.**

**A MINIMUM OF TWO CASING STRINGS CEMENTED TO SURFACE IS REQUIRED IN HIGH CAVE/KARST AREAS. THE CEMENT MUST BE IN A SOLID SHEATH. THEREFORE, ONE INCH OPERATIONS ARE NOT SUFFICIENT TO PROTECT CAVE KARST RESOURCES. A CASING DESIGN THAT HAS A ONE INCH JOB PERFORMED DOES NOT COUNT AS A SOLID SHEATH. IF THE PRIMARY CEMENT JOB ON THE SURFACE CASING DOES NOT CIRCULATE, THEN THE NEXT TWO CASING STRINGS MUST BE CEMENTED TO SURFACE.**

1. The 18-5/8 inch surface casing shall be set at approximately 375 feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface. **If salt is encountered, set casing at least 25 feet above the salt. Excess calculates to 4% - Additional cement may be required.**
  - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
  - b. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.**
  - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
  - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The minimum required fill of cement behind the 13-3/8 inch 1<sup>st</sup> intermediate casing, which shall be set at approximately 3260 feet, is:
  - ☒ **Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst and potash.**

Formation below the 13-3/8" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe (not the mud weight required to prevent dissolving the salt formation) and the mud weight for the bottom of the hole. Report results to BLM office.

9-5/8 2<sup>nd</sup> Intermediate casing shall be kept fluid filled while running into hole to meet BLM minimum collapse requirements.

3. The minimum required fill of cement behind the 9-5/8 inch 2<sup>nd</sup> intermediate casing is:

Operator has proposed DV tool at depth of 3310', but will adjust cement proportionately if moved. DV tool shall be set a minimum of 50' below previous shoe and a minimum of 200' above current shoe. Operator shall submit sundry if DV tool depth cannot be set in this range. If an ECP is used, it is to be set a minimum of 50' below the shoe to provide cement across the shoe. If it cannot be set below the shoe, a CBL shall be run to verify cement coverage.

a. First stage to DV tool:

- ☒ Cement to circulate. If cement does not circulate, contact the appropriate BLM office before proceeding with second stage cement job. Operator should have plans as to how they will achieve circulation on the next stage. Excess calculates to 7% - Additional cement may be required.

b. Second stage above DV tool:

- ☒ Cement to surface. If cement does not circulate, contact the appropriate BLM office. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to potash.

Formation below the 9-5/8" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe and the mud weight for the bottom of the hole. Report results to BLM office.

Pilot hole is required to have a plug at the bottom of the hole. If two plugs are set, the BLM is to be contacted (575-361-2822) prior to tag of bottom plug, which must be a minimum of 200' in length. Operator can set one plug from bottom of pilot hole to kick-off point and save the WOC time for tagging the first plug.

**Centralizers required through the curve and a minimum of one every other joint.**

4. The minimum required fill of cement behind the 5-1/2 inch production casing is:
  - ☒ Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification.
5. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
6. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

**C. PRESSURE CONTROL**

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API 53.
2. Variance-approved to use flex line from BOP to choke manifold. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. **Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.** If the BLM inspector questions the straightness of the hose, a BLM engineer will be contacted and will review in the field or via picture supplied by inspector to determine if changes are required (operator shall expect delays if this occurs).
3. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **2000 (2M) psi**

4. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the 13-3/8" 1<sup>st</sup> intermeidate casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 13-3/8" 1<sup>st</sup> intermeidate casing shoe shall be 5000 (5M) psi.
- a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
  - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
  - c. Manufacturer representative shall install the test plug for the initial BOP test.
  - d. Operator shall perform the 9-5/8" casing integrity tests to 70% of the casing burst. This will test the multi-bowl seals.
  - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.

5M system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.

5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
- a. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time.
  - b. The tests shall be done by an independent service company utilizing a test plug **not a cup or J-packer**.
  - c. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
  - d. The results of the test shall be reported to the appropriate BLM office.
  - e. All tests are required to be recorded on a calibrated test chart. **A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.**



- f. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- g. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the **Wolfcamp** formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

#### **D. DRILLING MUD**

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the **Wolfcamp** formation, and shall be used until production casing is run and cemented.

#### **E. DRILL STEM TEST**

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

#### **F. WASTE MATERIAL AND FLUIDS**

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

**JAM 091619**