

|                                           |                                                       |                                     |
|-------------------------------------------|-------------------------------------------------------|-------------------------------------|
| Well Name: JAMES RANCH UNIT DI 11 EKALAKA | Well Location: T22S / R30E / SEC 17 / NWSE /          | County or Parish/State:             |
| Well Number: 821H                         | Type of Well: OIL WELL                                | Allottee or Tribe Name:             |
| Lease Number: NMNM0002953                 | Unit or CA Name: JAMES RANCH                          | Unit or CA Number: NMNM070965X      |
| US Well Number:                           | Well Status: Approved Application for Permit to Drill | Operator: XTO PERMIAN OPERATING LLC |

Notice of Intent

Sundry ID: 2642450

Type of Submission: Notice of Intent      Type of Action: Other

Date Sundry Submitted: 11/02/2021      Time Sundry Submitted: 08:58

Date proposed operation will begin: 11/04/2021

**Procedure Description:** \*\*Name Change, Well Pool, Spacing, Casing/Cement, Drilling Variance Changes XTO Permian Operating, LLC requests permission to make the following changes to the original APD: No Additional Surface Disturbance Change Well Name fr/James Ranch Unit DI 11 Ekalaka 111HH to James Ranch Unit DI 11 Ekalaka 821H Change Well Pool fr/ Los, Medanos; Wolfcamp, South to Wildcat G-07 S223021G. Change BHL fr/660'FSL & 50'FEL, Section 15-22S-30E to 330'FSL & 50'FEL, Section 15-T22S-R30E Casing/Cement design per the attached drilling program. Attachments: C102 Drilling Program Directional Plan Multibowl Diagram

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

JRU\_DI\_11\_821H\_NOI\_Attachments\_20211102085805.pdf

|                                                  |                                                              |                                            |
|--------------------------------------------------|--------------------------------------------------------------|--------------------------------------------|
| <b>Well Name:</b> JAMES RANCH UNIT DI 11 EKALAKA | <b>Well Location:</b> T22S / R30E / SEC 17 / NWSE /          | <b>County or Parish/State:</b>             |
| <b>Well Number:</b> 821H                         | <b>Type of Well:</b> OIL WELL                                | <b>Allottee or Tribe Name:</b>             |
| <b>Lease Number:</b> NMNM0002953                 | <b>Unit or CA Name:</b> JAMES RANCH                          | <b>Unit or CA Number:</b> NMNM070965X      |
| <b>US Well Number:</b>                           | <b>Well Status:</b> Approved Application for Permit to Drill | <b>Operator:</b> XTO PERMIAN OPERATING LLC |

Operator Certification

I certify that the foregoing is true and correct. 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. Electronic submission of Sundry Notices through this system satisfies regulations requiring a submission of Form 3160-5 or a Sundry Notice.

|                                                         |                                         |
|---------------------------------------------------------|-----------------------------------------|
| <b>Operator Electronic Signature:</b> STEPHANIE RABADUE | <b>Signed on:</b> NOV 02, 2021 08:58 AM |
| <b>Name:</b> XTO PERMIAN OPERATING LLC                  |                                         |
| <b>Title:</b> Regulatory Coordinator                    |                                         |
| <b>Street Address:</b> 500 W. Illinois St, Ste 100      |                                         |
| <b>City:</b> Midland                                    | <b>State:</b> TX                        |
| <b>Phone:</b> (432) 620-6714                            |                                         |
| <b>Email address:</b> STEPHANIE.RABADUE@EXXONMOBIL.COM  |                                         |

Field Representative

|                             |               |             |
|-----------------------------|---------------|-------------|
| <b>Representative Name:</b> |               |             |
| <b>Street Address:</b>      |               |             |
| <b>City:</b>                | <b>State:</b> | <b>Zip:</b> |
| <b>Phone:</b>               |               |             |
| <b>Email address:</b>       |               |             |

BLM Point of Contact

|                                        |                                              |
|----------------------------------------|----------------------------------------------|
| <b>BLM POC Name:</b> CHRISTOPHER WALLS | <b>BLM POC Title:</b> Petroleum Engineer     |
| <b>BLM POC Phone:</b> 5752342234       | <b>BLM POC Email Address:</b> cwalls@blm.gov |
| <b>Disposition:</b> Approved           | <b>Disposition Date:</b> 11/05/2021          |
| <b>Signature:</b> Chris Walls          |                                              |

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

Form C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

|                                    |                                                              |                                                              |
|------------------------------------|--------------------------------------------------------------|--------------------------------------------------------------|
| <sup>1</sup> API Number<br>30-015- | <sup>2</sup> Pool Code<br>97905                              | <sup>3</sup> Pool Name<br>Wildcat G-07 S223021G; Bone Spring |
| <sup>4</sup> Property Code         | <sup>5</sup> Property Name<br>JAMES RANCH UNIT DI 11 EKALAKA | <sup>6</sup> Well Number<br>821H                             |
| <sup>7</sup> OGRID No.<br>373075   | <sup>8</sup> Operator Name<br>XTO PERMIAN OPERATING, LLC.    | <sup>9</sup> Elevation<br>3,112'                             |

<sup>10</sup> Surface Location

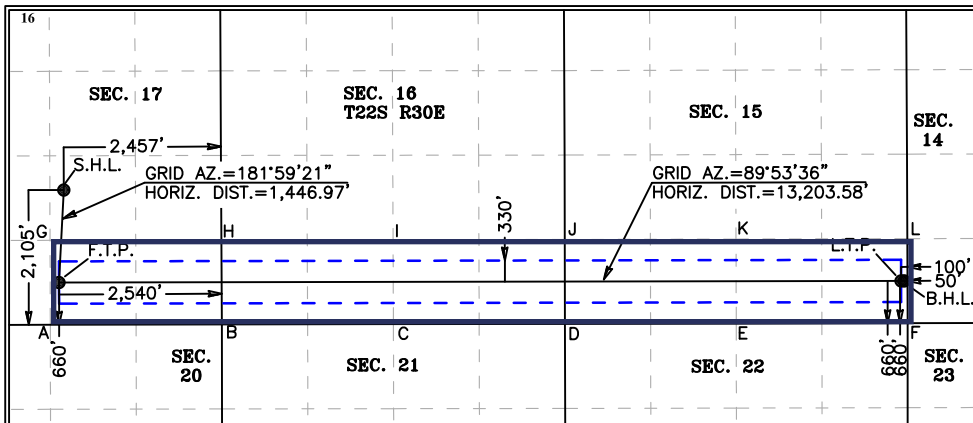
| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| J             | 17      | 22S      | 30E   |         | 2,105         | SOUTH            | 2,457         | EAST           | 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 |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| P             | 15      | 22S      | 30E   |         | 660           | SOUTH            | 50            | EAST           | EDDY   |

|                                      |                               |                                  |                         |
|--------------------------------------|-------------------------------|----------------------------------|-------------------------|
| <sup>12</sup> Dedicated Acres<br>400 | <sup>13</sup> Joint or Infill | <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.



| SHL (NAD83 NME)       | LTP (NAD83 NME)       | SHL (NAD27 NME)       | LTP (NAD27 NME)       |
|-----------------------|-----------------------|-----------------------|-----------------------|
| Y = 506,162.1         | Y = 504,741.5         | Y = 506,101.3         | Y = 504,680.8         |
| X = 674,193.4         | X = 687,271.5         | X = 633,012.0         | X = 646,090.1         |
| LAT. = 32.390773 °N   | LAT. = 32.386717 °N   | LAT. = 32.390650 °N   | LAT. = 32.386594 °N   |
| LONG. = 103.902916 °W | LONG. = 103.860568 °W | LONG. = 103.902420 °W | LONG. = 103.860073 °W |
| FTP (NAD83 NME)       | BHL (NAD83 NME)       | FTP (NAD27 NME)       | BHL (NAD27 NME)       |
| Y = 504,717.1         | Y = 504,741.6         | Y = 504,656.3         | Y = 504,681.0         |
| X = 674,118.0         | X = 687,321.5         | X = 632,936.5         | X = 646,140.1         |
| LAT. = 32.386802 °N   | LAT. = 32.386716 °N   | LAT. = 32.386679 °N   | LAT. = 32.386594 °N   |
| LONG. = 103.903179 °W | LONG. = 103.860406 °W | LONG. = 103.902683 °W | LONG. = 103.859911 °W |

## CORNER COORDINATES (NAD83 NME)

|                     |                 |
|---------------------|-----------------|
| A - Y = 504,056.8 N | X = 673,981.7 E |
| B - Y = 504,061.6 N | X = 676,661.5 E |
| C - Y = 504,066.6 N | X = 679,341.2 E |
| D - Y = 504,070.3 N | X = 682,021.6 E |
| E - Y = 504,075.5 N | X = 684,697.5 E |
| F - Y = 504,081.7 N | X = 687,374.2 E |
| G - Y = 505,375.8 N | X = 673,977.1 E |
| H - Y = 505,381.7 N | X = 676,654.5 E |
| I - Y = 505,385.5 N | X = 679,335.9 E |
| J - Y = 505,388.8 N | X = 682,018.2 E |
| K - Y = 505,394.9 N | X = 684,693.1 E |
| L - Y = 505,401.7 N | X = 687,368.8 E |

## CORNER COORDINATES (NAD27 NME)

|                     |                 |
|---------------------|-----------------|
| A - Y = 503,996.1 N | X = 632,800.2 E |
| B - Y = 504,000.8 N | X = 635,480.0 E |
| C - Y = 504,005.9 N | X = 638,159.7 E |
| D - Y = 504,009.6 N | X = 640,840.1 E |
| E - Y = 504,014.8 N | X = 643,516.0 E |
| F - Y = 504,021.1 N | X = 646,192.8 E |
| G - Y = 505,315.1 N | X = 632,795.7 E |
| H - Y = 505,320.9 N | X = 635,473.0 E |
| I - Y = 505,324.7 N | X = 638,154.4 E |
| J - Y = 505,328.0 N | X = 640,836.7 E |
| K - Y = 505,334.3 N | X = 643,511.6 E |
| L - Y = 505,341.0 N | X = 646,187.4 E |

<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 10/01/2021  
Signature Date

Stephanie Rabadue

Printed Name

stephanie.rabadue@exxonmobil.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.

9-30-2021

Date of Survey

Signature and Seal of  
Professional Surveyor:

MARK DILLON HARP 23786

Certificate Number



RM

2019072015

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

XTO Energy Inc.  
James Ranch Unit DI 11 Ekalaka 821H  
Projected TD: 23064' MD / 10140' TVD  
SHL: 2105' FSL & 2457' FEL , Section 17, T22S, R30E  
BHL: 660' FSL & 50' FEL , Section 15, T22S, R30E  
Eddy County, NM

**1. Geologic Name of Surface Formation**

A. Quaternary

**2. Estimated Tops of Geological Markers & Depths of Anticipated Fresh Water, Oil or Gas**

| Formation          | Well Depth (TVD) | Water/Oil/Gas |
|--------------------|------------------|---------------|
| Rustler            | 65'              | Water         |
| Top of Salt        | 688'             | Water         |
| Base of Salt       | 3195'            | Water         |
| Delaware           | 3423'            | Water         |
| Brushy Canyon      | 5984'            | Water/Oil/Gas |
| Bone Spring        | 7214'            | Water         |
| 1st Bone Spring Ss | 8169'            | Water/Oil/Gas |
| 2nd Bone Spring Ss | 8784'            | Water/Oil/Gas |
| 3rd Bone Spring Sh | 9711'            | Water/Oil/Gas |
| Target/Land Curve  | 10002'           | 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 13.375 inch casing @ 663' (25' above the salt) and circulating cement back to surface. The salt will be isolated by setting 9.625 inch casing at 3295' and circulating cement to surface. The second intermediate will isolate from the salt down to the next casing seat by setting 7.625 inch casing at 9077' and cementing to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 23064 MD/TD and 5.5 inch production casing will be set at TD and cemented back up to 2nd intermediate (estimated TOC 8577 feet) per Potash regulations.

**3. Casing Design**

| Hole Size | Depth          | OD Csg | Weight | Grade    | Collar       | New/Used | SF Burst | SF Collapse | SF Tension |
|-----------|----------------|--------|--------|----------|--------------|----------|----------|-------------|------------|
| 17.5      | 0' – 663'      | 13.375 | 54.5   | J-55     | BTC          | New      | 2.77     | 3.86        | 23.61      |
| 12.25     | 0' – 3295'     | 9.625  | 40     | J-55     | BTC          | New      | 1.92     | 2.56        | 4.78       |
| 8.75      | 0' – 3395'     | 7.625  | 29.7   | RY P-110 | Flush Joint  | New      | 3.76     | 3.52        | 2.07       |
| 8.75      | 3395' – 9077'  | 7.625  | 29.7   | HC L-80  | Flush Joint  | New      | 2.74     | 3.99        | 2.41       |
| 6.75      | 0' – 8977'     | 5.5    | 23     | RY P-110 | Semi-Premium | New      | 1.21     | 3.46        | 2.12       |
| 6.75      | 8977' - 9800'  | 5.5    | 23     | RY P-110 | Semi-Flush   | New      | 1.21     | 3.17        | 4.43       |
| 6.75      | 9800' - 23064' | 5.5    | 23     | RY P-110 | Semi-Flush   | New      | 1.21     | 3.06        | 5.14       |

- XTO requests the option to utilize a spudder rig (Atlas Copco RD20 or Equivalent) to set and cement surface and intermediate 1 casing per this Sundry
- XTO requests to not utilize centralizers in the curve and lateral
- 9.625 Collapse analyzed using 50% evacuation based on regional experience.
- 7.625 Collapse analyzed using 50% evacuation based on regional experience.
- 5.5 Tension calculated using vertical hanging weight plus the lateral weight multiplied by a friction factor of 0.35
- Test on 2M annular & Casing will be limited to 70% burst of the casing or 1500 psi, whichever is less
- XTO requests the option to use 5" BTC Float equipment for the the production casing

**Wellhead:**

Permanent Wellhead – Multibowl System

- A. Starting Head: 13-5/8" 10M top flange x 13-3/8" SOW bottom
- B. Tubing Head: 13-5/8" 10M 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 7-5/8" casing per BLM Onshore Order 2
  - Wellhead Manufacturer representative will not be present for BOP test plug installation

#### 4. Cement Program

##### **Surface Casing: 13.375, 54.5 New BTC, J-55 casing to be set at +/- 663'**

Lead: 260 sxs EconoCem-HLTRRC (mixed at 12.9 ppg, 1.87 ft<sup>3</sup>/sx, 10.13 gal/sx water)  
 Tail: 300 sxs Class C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft<sup>3</sup>/sx, 6.39 gal/sx water)  
 Top of Cement: Surface  
 Compressives: 12-hr = 250 psi 24 hr = 500 psi

Due to the high probability of not getting cement to surface during conventional top-out jobs in the area, ~10-20 ppb gravel will be added on the backside of the 1" to get cement to surface, if required.

##### **1st Intermediate Casing: 9.625, 40 New BTC, J-55 casing to be set at +/- 3295'**

Lead: 1340 sxs Class C (mixed at 12.9 ppg, 1.39 ft<sup>3</sup>/sx, 10.13 gal/sx water)  
 Tail: 130 sxs Class C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft<sup>3</sup>/sx, 6.39 gal/sx water)  
 Top of Cement: Surface  
 Compressives: 12-hr = 900 psi 24 hr = 1500 psi

##### **2nd Intermediate Casing: 7.625, 29.7 New casing to be set at +/- 9077'**

###### 1st Stage

Optional Lead: 150 sxs Class C (mixed at 10.5 ppg, 2.77 ft<sup>3</sup>/sx, 15.59 gal/sx water)  
 TOC: 3095  
 Tail: 280 sxs Class C (mixed at 14.8 ppg, 1.35 ft<sup>3</sup>/sx, 6.39 gal/sx water)  
 TOC: Brushy Canyon @ 5984  
 Compressives: 12-hr = 900 psi 24 hr = 1150 psi

###### 2nd Stage

Lead: 0 sxs Class C (mixed at 12.9 ppg, 2.16 ft<sup>3</sup>/sx, 9.61 gal/sx water)  
 Tail: 350 sxs Class C (mixed at 14.8 ppg, 1.33 ft<sup>3</sup>/sx, 6.39 gal/sx water)  
 Top of Cement: 0  
 Compressives: 12-hr = 900 psi 24 hr = 1150 psi

XTO requests to pump a two stage cement job on the 7-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brush Canyon (5984') and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If cement is not visually confirmed to circulate to surface, the final cement top after the second stage job will be verified by Echo-meter. If necessary, a top out consisting of 1,500 sack of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. If cement is still unable to circulate to surface, another Echo-meter run will be performed for cement top verification.

XTO will include the Echo-meter verified fluid top and the volume of displacement fluid above the cement slurry in the annulus in all post-drill sundries on wells utilizing this cement program.

XTO will report to the BLM the volume of fluid (limited to 5 bbls) used to flush intermediate casing valves following backside cementing procedures.

XTO requests to pump an Optional Lead if well conditions dictate in an attempt to bring cement to surface. If cement reaches the desired height, the BLM will be notified and the second stage bradenhead squeeze and subsequent TOC verification will be negated.

XTO requests the option to conduct the bradenhead squeeze and TOC verification offline as per standard approval from BLM when unplanned remediation is needed and batch drilling is approved. In the event the bradenhead is conducted, we will ensure the first stage cement job is cemented properly and the well is static with floats holding and no pressure on the csg annulus as with all other casing strings where batch drilling operations occur before moving off the rig. The TA cap will also be installed per Cactus procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops.

##### **Production Casing: 5.5, 23 New Semi-Flush, RY P-110 casing to be set at +/- 23064'**

Lead: 30 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft<sup>3</sup>/sx, 15.00 gal/sx water) Top of Cement: 8577 feet  
 Tail: 980 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft<sup>3</sup>/sx, 8.38 gal/sx water) Top of Cement: 9423 feet  
 Compressives: 12-hr = 1375 psi 24 hr = 2285 psi

XTO requests the option to offline cement and remediate (if needed) surface and intermediate casing strings where batch drilling is approved and if unplanned remediation is needed. XTO will ensure well is static with

no pressure on the csg annulus, as with all other casing strings where batch drilling operations occur before moving off the rig. The TA cap will also be installed when applicable per Cactus procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops. Offline cement operations will then be conducted after the rig is moved off the current well to the next well in the batch sequence.

## 5. Pressure Control Equipment

Once the permanent WH is installed on the 13.375 casing, the blow out preventer equipment (BOP) will consist of a 13-5/8" minimum 3M Hydril and a 13-5/8" minimum 3M Double Ram BOP. MASP should not exceed 2515 psi. In any instance where 10M BOP is required by BLM, XTO requests a variance to utilize 5M annular with 10M ram preventers (a common BOP configuration, which allows use of 10M rams in unlikely event that pressures exceed 5M).

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 13.375, 3M bradenhead and flange, the BOP test will be limited to 3000 psi. When nipping up on the 7.625, the BOP will be tested to a minimum of 3000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 3M BOP diagrams are attached. Blind rams will be functioned tested each trip, pipe rams will be functioned tested each day.

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.

XTO requests a variance to be able to batch drill this well if necessary. In doing so, XTO will set casing and ensure that the well is cemented properly (unless approval is given for offline cementing) and the well is static. With floats holding, no pressure on the csg annulus, and the installation of a 10K TA cap as per Cactus recommendations, XTO will contact the BLM to skid the rig to drill the remaining wells on the pad. Once surface and both intermediate strings are all completed, XTO will begin drilling the production

hole on each of the wells.

A variance is requested to **ONLY** test broken pressure seals on the BOP equipment when moving from wellhead to wellhead which is in compliance with API Standard 53. API standard 53 states, that for pad drilling operation, moving from one wellhead to another within 21 days, pressure testing is required for pressure-containing and pressure-controlling connections when the integrity of a pressure seal is broken. Based on discussions with the BLM on February 27th 2020, we will request permission to **ONLY** retest broken pressure seals if the following conditions are met: 1. After a full BOP test is conducted on the first well on the pad 2. When skidding to drill an intermediate section that does not penetrate into the Wolfcamp.

## 6. Proposed Mud Circulation System

| INTERVAL        | Hole Size | Mud Type          | MW<br>(ppg) | Viscosity<br>(sec/qt) | Fluid Loss<br>(cc) |
|-----------------|-----------|-------------------|-------------|-----------------------|--------------------|
| 0' - 663'       | 17.5      | FW/Native         | 8.5-9       | 35-40                 | NC                 |
| 663' - 3295'    | 12.25     | Brine             | 10-10.5     | 30-32                 | NC                 |
| 3295' to 9077'  | 8.75      | FW / Cut<br>Brine | 8.6-9.1     | 30-32                 | NC                 |
| 9077' to 23064' | 6.75      | OBM               | 9-9.5       | 50-60                 | NC - 20            |

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

Spud with fresh water/native mud. Drill out from under 13-3/8" surface casing with brine solution. A 10.0 ppg - 10.5 ppg 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 13.375 casing.

## 8. Logging, Coring and Testing Program

Mud Logger: Mud Logging Unit (2 man) below intermediate casing.

Open hole logging will not be done on this well.

## 9. Abnormal Pressures and Temperatures / Potential Hazards

None Anticipated. BHT of 165 to 185 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 4746 psi.

## 10. Anticipated Starting Date and Duration of Operations

Anticipated spud date will be after DI 2 drilling is completed and BLM approval. Move in operations and drilling is expected to take 40 days.

## Well Plan Report - JRU DI 11 Ekalaka 821H

Measured Depth: 23064.00 ft

TVD RKB: 10140.00 ft

### Location

Cartographic Reference System: New Mexico East - NAD 27

Northing: 506101.10 ft

Easting: 633012.80 ft

RKB: 3142.00 ft

Ground Level: 3132.00 ft

North Reference: Grid

Convergence Angle: 0.23 Deg

| Plan Sections JRU DI 11 Ekalaka 821H |             |         |          |          |          |             |             |             |             |
|--------------------------------------|-------------|---------|----------|----------|----------|-------------|-------------|-------------|-------------|
| Measured                             | TVD         |         |          |          |          | Build       | Turn        | Dogleg      |             |
| Depth                                | Inclination | Azimuth | RKB      | Y Offset | X Offset | Rate        | Rate        | Rate        | Target      |
| (ft)                                 | (Deg)       | (Deg)   | (ft)     | (ft)     | (ft)     | (Deg/100ft) | (Deg/100ft) | (Deg/100ft) |             |
| 0.00                                 | 0.00        | 0.00    | 0.00     | 0.00     | 0.00     | 0.00        | 0.00        | 0.00        |             |
| 2800.00                              | 0.00        | 0.00    | 2800.00  | 0.00     | 0.00     | 0.00        | 0.00        | 0.00        |             |
| 3394.08                              | 11.88       | 184.16  | 3389.83  | -61.22   | -4.45    | 2.00        | 0.00        | 2.00        |             |
| 9423.44                              | 11.88       | 184.16  | 9290.01  | -1299.33 | -94.48   | 0.00        | 0.00        | 0.00        |             |
| 10551.70                             | 89.37       | 89.88   | 10002.00 | -1445.60 | 614.20   | 6.87        | -8.36       | 8.00        | Rev 2 FTP 6 |
| 23064.42                             | 89.37       | 89.88   | 10140.00 | -1420.03 | 13126.14 | 0.00        | 0.00        | 0.00        | Rev 2 BHL 6 |

| Position Uncertainty JRU DI 11 Ekalaka 821H |             |         |          |          |       |         |       |          |       |           |            |            |            |             |
|---------------------------------------------|-------------|---------|----------|----------|-------|---------|-------|----------|-------|-----------|------------|------------|------------|-------------|
| Measured                                    | TVD         |         |          | Highside |       | Lateral |       | Vertical |       | Magnitude | Semi-major | Semi-minor | Semi-minor | Tool        |
| Depth                                       | Inclination | Azimuth | RKB      | Error    | Bias  | Error   | Bias  | Error    | Bias  | of Bias   | Error      | Error      | Azimuth    | Used        |
| (ft)                                        | (°)         | (°)     | (ft)     | (ft)     | (ft)  | (ft)    | (ft)  | (ft)     | (ft)  | (ft)      | (ft)       | (ft)       | (°)        |             |
| 0.000                                       | 0.000       | 0.000   | 0.000    | 0.000    | 0.000 | 0.000   | 0.000 | 2.297    | 0.000 | 0.000     | 0.000      | 0.000      | 0.000      | MWD+IFR1+MS |
| 100.000                                     | 0.000       | 0.000   | 100.000  | 0.468    | 0.000 | 0.468   | 0.000 | 2.299    | 0.000 | 0.000     | 0.556      | 0.358      | 135.000    | MWD+IFR1+MS |
| 200.000                                     | 0.000       | 0.000   | 200.000  | 0.983    | 0.000 | 0.983   | 0.000 | 2.307    | 0.000 | 0.000     | 1.191      | 0.717      | 135.000    | MWD+IFR1+MS |
| 300.000                                     | 0.000       | 0.000   | 300.000  | 1.403    | 0.000 | 1.403   | 0.000 | 2.321    | 0.000 | 0.000     | 1.668      | 1.075      | 135.000    | MWD+IFR1+MS |
| 400.000                                     | 0.000       | 0.000   | 400.000  | 1.797    | 0.000 | 1.797   | 0.000 | 2.340    | 0.000 | 0.000     | 2.099      | 1.434      | 135.000    | MWD+IFR1+MS |
| 500.000                                     | 0.000       | 0.000   | 500.000  | 2.179    | 0.000 | 2.179   | 0.000 | 2.364    | 0.000 | 0.000     | 2.507      | 1.792      | 135.000    | MWD+IFR1+MS |
| 600.000                                     | 0.000       | 0.000   | 600.000  | 2.554    | 0.000 | 2.554   | 0.000 | 2.393    | 0.000 | 0.000     | 2.902      | 2.151      | 135.000    | MWD+IFR1+MS |
| 700.000                                     | 0.000       | 0.000   | 700.000  | 2.925    | 0.000 | 2.925   | 0.000 | 2.428    | 0.000 | 0.000     | 3.288      | 2.509      | 135.000    | MWD+IFR1+MS |
| 800.000                                     | 0.000       | 0.000   | 800.000  | 3.292    | 0.000 | 3.292   | 0.000 | 2.467    | 0.000 | 0.000     | 3.669      | 2.867      | 135.000    | MWD+IFR1+MS |
| 900.000                                     | 0.000       | 0.000   | 900.000  | 3.659    | 0.000 | 3.659   | 0.000 | 2.511    | 0.000 | 0.000     | 4.046      | 3.226      | 135.000    | MWD+IFR1+MS |
| 1000.000                                    | 0.000       | 0.000   | 1000.000 | 4.024    | 0.000 | 4.024   | 0.000 | 2.559    | 0.000 | 0.000     | 4.420      | 3.584      | 135.000    | MWD+IFR1+MS |
| 1100.000                                    | 0.000       | 0.000   | 1100.000 | 4.387    | 0.000 | 4.387   | 0.000 | 2.613    | 0.000 | 0.000     | 4.791      | 3.943      | 135.000    | MWD+IFR1+MS |
| 1200.000                                    | 0.000       | 0.000   | 1200.000 | 4.751    | 0.000 | 4.751   | 0.000 | 2.670    | 0.000 | 0.000     | 5.161      | 4.302      | 135.000    | MWD+IFR1+MS |
| 1300.000                                    | 0.000       | 0.000   | 1300.000 | 5.113    | 0.000 | 5.113   | 0.000 | 2.731    | 0.000 | 0.000     | 5.529      | 4.660      | 135.000    | MWD+IFR1+MS |
| 1400.000                                    | 0.000       | 0.000   | 1400.000 | 5.474    | 0.000 | 5.474   | 0.000 | 2.797    | 0.000 | 0.000     | 5.896      | 5.018      | 135.000    | MWD+IFR1+MS |
| 1500.000                                    | 0.000       | 0.000   | 1500.000 | 5.836    | 0.000 | 5.836   | 0.000 | 2.866    | 0.000 | 0.000     | 6.262      | 5.377      | 135.000    | MWD+IFR1+MS |
| 1600.000                                    | 0.000       | 0.000   | 1600.000 | 6.197    | 0.000 | 6.197   | 0.000 | 2.939    | 0.000 | 0.000     | 6.627      | 5.735      | 135.000    | MWD+IFR1+MS |
| 1700.000                                    | 0.000       | 0.000   | 1700.000 | 6.558    | 0.000 | 6.558   | 0.000 | 3.015    | 0.000 | 0.000     | 6.992      | 6.094      | 135.000    | MWD+IFR1+MS |
| 1800.000                                    | 0.000       | 0.000   | 1800.000 | 6.918    | 0.000 | 6.918   | 0.000 | 3.095    | 0.000 | 0.000     | 7.355      | 6.452      | 135.000    | MWD+IFR1+MS |
| 1900.000                                    | 0.000       | 0.000   | 1900.000 | 7.279    | 0.000 | 7.279   | 0.000 | 3.178    | 0.000 | 0.000     | 7.719      | 6.811      | 135.000    | MWD+IFR1+MS |

|          |        |         |          |        |        |        |       |        |       |       |        |        |         |             |
|----------|--------|---------|----------|--------|--------|--------|-------|--------|-------|-------|--------|--------|---------|-------------|
| 2000.000 | 0.000  | 0.000   | 2000.000 | 7.639  | 0.000  | 7.639  | 0.000 | 3.265  | 0.000 | 0.000 | 8.081  | 7.169  | 135.000 | MWD+IFR1+MS |
| 2100.000 | 0.000  | 0.000   | 2100.000 | 7.999  | 0.000  | 7.999  | 0.000 | 3.354  | 0.000 | 0.000 | 8.444  | 7.527  | 135.000 | MWD+IFR1+MS |
| 2200.000 | 0.000  | 0.000   | 2200.000 | 8.359  | 0.000  | 8.359  | 0.000 | 3.447  | 0.000 | 0.000 | 8.806  | 7.886  | 135.000 | MWD+IFR1+MS |
| 2300.000 | 0.000  | 0.000   | 2300.000 | 8.718  | 0.000  | 8.718  | 0.000 | 3.544  | 0.000 | 0.000 | 9.168  | 8.244  | 135.000 | MWD+IFR1+MS |
| 2400.000 | 0.000  | 0.000   | 2400.000 | 9.079  | 0.000  | 9.079  | 0.000 | 3.643  | 0.000 | 0.000 | 9.530  | 8.603  | 135.000 | MWD+IFR1+MS |
| 2500.000 | 0.000  | 0.000   | 2500.000 | 9.437  | 0.000  | 9.437  | 0.000 | 3.744  | 0.000 | 0.000 | 9.891  | 8.961  | 135.000 | MWD+IFR1+MS |
| 2600.000 | 0.000  | 0.000   | 2600.000 | 9.797  | 0.000  | 9.797  | 0.000 | 3.848  | 0.000 | 0.000 | 10.252 | 9.320  | 135.000 | MWD+IFR1+MS |
| 2700.000 | 0.000  | 0.000   | 2700.000 | 10.154 | 0.000  | 10.154 | 0.000 | 3.956  | 0.000 | 0.000 | 10.611 | 9.675  | 135.000 | MWD+IFR1+MS |
| 2800.000 | 0.000  | 0.000   | 2800.000 | 10.512 | 0.000  | 10.512 | 0.000 | 4.066  | 0.000 | 0.000 | 10.970 | 10.032 | 135.000 | MWD+IFR1+MS |
| 2900.000 | 1.999  | 184.100 | 2899.980 | 10.931 | -0.000 | 10.774 | 0.000 | 4.179  | 0.000 | 0.000 | 11.304 | 10.389 | 133.990 | MWD+IFR1+MS |
| 3000.000 | 4.000  | 184.100 | 2999.838 | 11.460 | -0.000 | 11.102 | 0.000 | 4.294  | 0.000 | 0.000 | 11.812 | 10.751 | 128.603 | MWD+IFR1+MS |
| 3100.000 | 6.000  | 184.100 | 3099.452 | 11.961 | -0.000 | 11.434 | 0.000 | 4.414  | 0.000 | 0.000 | 12.320 | 11.101 | 124.964 | MWD+IFR1+MS |
| 3200.000 | 7.999  | 184.100 | 3198.702 | 12.442 | -0.000 | 11.765 | 0.000 | 4.539  | 0.000 | 0.000 | 12.825 | 11.442 | 122.290 | MWD+IFR1+MS |
| 3300.000 | 10.000 | 184.100 | 3297.465 | 12.897 | -0.000 | 12.099 | 0.000 | 4.671  | 0.000 | 0.000 | 13.320 | 11.780 | 120.444 | MWD+IFR1+MS |
| 3394.000 | 11.880 | 184.100 | 3389.830 | 13.281 | -0.000 | 12.410 | 0.000 | 4.800  | 0.000 | 0.000 | 13.753 | 12.093 | 119.266 | MWD+IFR1+MS |
| 3400.000 | 11.880 | 184.100 | 3395.624 | 13.299 | -0.000 | 12.430 | 0.000 | 4.804  | 0.000 | 0.000 | 13.772 | 12.114 | 119.266 | MWD+IFR1+MS |
| 3500.000 | 11.880 | 184.100 | 3493.482 | 13.598 | -0.000 | 12.755 | 0.000 | 4.934  | 0.000 | 0.000 | 14.063 | 12.443 | 119.443 | MWD+IFR1+MS |
| 3600.000 | 11.880 | 184.100 | 3591.339 | 13.915 | -0.000 | 13.094 | 0.000 | 5.068  | 0.000 | 0.000 | 14.378 | 12.778 | 119.787 | MWD+IFR1+MS |
| 3700.000 | 11.880 | 184.100 | 3689.197 | 14.232 | -0.000 | 13.435 | 0.000 | 5.205  | 0.000 | 0.000 | 14.693 | 13.115 | 120.181 | MWD+IFR1+MS |
| 3800.000 | 11.880 | 184.100 | 3787.054 | 14.552 | -0.000 | 13.775 | 0.000 | 5.345  | 0.000 | 0.000 | 15.011 | 13.452 | 120.510 | MWD+IFR1+MS |
| 3900.000 | 11.880 | 184.100 | 3884.912 | 14.874 | -0.000 | 14.117 | 0.000 | 5.489  | 0.000 | 0.000 | 15.330 | 13.790 | 120.895 | MWD+IFR1+MS |
| 4000.000 | 11.880 | 184.100 | 3982.770 | 15.201 | -0.000 | 14.465 | 0.000 | 5.636  | 0.000 | 0.000 | 15.656 | 14.135 | 121.265 | MWD+IFR1+MS |
| 4100.000 | 11.880 | 184.100 | 4080.627 | 15.532 | -0.000 | 14.808 | 0.000 | 5.786  | 0.000 | 0.000 | 15.982 | 14.476 | 121.516 | MWD+IFR1+MS |
| 4200.000 | 11.880 | 184.100 | 4178.485 | 15.862 | -0.000 | 15.157 | 0.000 | 5.939  | 0.000 | 0.000 | 16.310 | 14.822 | 121.872 | MWD+IFR1+MS |
| 4300.000 | 11.880 | 184.100 | 4276.342 | 16.199 | -0.000 | 15.508 | 0.000 | 6.095  | 0.000 | 0.000 | 16.643 | 15.169 | 122.171 | MWD+IFR1+MS |
| 4400.000 | 11.880 | 184.100 | 4374.200 | 16.534 | -0.000 | 15.857 | 0.000 | 6.254  | 0.000 | 0.000 | 16.975 | 15.516 | 122.458 | MWD+IFR1+MS |
| 4500.000 | 11.880 | 184.100 | 4472.057 | 16.873 | -0.000 | 16.208 | 0.000 | 6.416  | 0.000 | 0.000 | 17.310 | 15.864 | 122.738 | MWD+IFR1+MS |
| 4600.000 | 11.880 | 184.100 | 4569.915 | 17.214 | -0.000 | 16.560 | 0.000 | 6.580  | 0.000 | 0.000 | 17.647 | 16.214 | 123.018 | MWD+IFR1+MS |
| 4700.000 | 11.880 | 184.100 | 4667.772 | 17.556 | -0.000 | 16.914 | 0.000 | 6.748  | 0.000 | 0.000 | 17.985 | 16.566 | 123.286 | MWD+IFR1+MS |
| 4800.000 | 11.880 | 184.100 | 4765.630 | 17.901 | -0.000 | 17.270 | 0.000 | 6.917  | 0.000 | 0.000 | 18.326 | 16.919 | 123.552 | MWD+IFR1+MS |
| 4900.000 | 11.880 | 184.100 | 4863.487 | 18.248 | -0.000 | 17.624 | 0.000 | 7.090  | 0.000 | 0.000 | 18.668 | 17.271 | 123.760 | MWD+IFR1+MS |
| 5000.000 | 11.880 | 184.100 | 4961.345 | 18.597 | -0.000 | 17.979 | 0.000 | 7.266  | 0.000 | 0.000 | 19.012 | 17.625 | 123.959 | MWD+IFR1+MS |
| 5100.000 | 11.880 | 184.100 | 5059.202 | 18.945 | -0.000 | 18.335 | 0.000 | 7.444  | 0.000 | 0.000 | 19.356 | 17.979 | 124.209 | MWD+IFR1+MS |
| 5200.000 | 11.880 | 184.100 | 5157.060 | 19.297 | -0.000 | 18.693 | 0.000 | 7.625  | 0.000 | 0.000 | 19.703 | 18.336 | 124.402 | MWD+IFR1+MS |
| 5300.000 | 11.880 | 184.100 | 5254.917 | 19.649 | -0.000 | 19.052 | 0.000 | 7.809  | 0.000 | 0.000 | 20.050 | 18.693 | 124.642 | MWD+IFR1+MS |
| 5400.000 | 11.880 | 184.100 | 5352.775 | 20.001 | -0.000 | 19.410 | 0.000 | 7.995  | 0.000 | 0.000 | 20.397 | 19.049 | 124.825 | MWD+IFR1+MS |
| 5500.000 | 11.880 | 184.100 | 5450.632 | 20.358 | -0.000 | 19.768 | 0.000 | 8.184  | 0.000 | 0.000 | 20.748 | 19.407 | 124.955 | MWD+IFR1+MS |
| 5600.000 | 11.880 | 184.100 | 5548.490 | 20.713 | -0.000 | 20.128 | 0.000 | 8.375  | 0.000 | 0.000 | 21.098 | 19.765 | 125.131 | MWD+IFR1+MS |
| 5700.000 | 11.880 | 184.100 | 5646.347 | 21.070 | -0.000 | 20.489 | 0.000 | 8.569  | 0.000 | 0.000 | 21.450 | 20.125 | 125.302 | MWD+IFR1+MS |
| 5800.000 | 11.880 | 184.100 | 5744.205 | 21.429 | -0.000 | 20.850 | 0.000 | 8.766  | 0.000 | 0.000 | 21.803 | 20.485 | 125.470 | MWD+IFR1+MS |
| 5900.000 | 11.880 | 184.100 | 5842.062 | 21.788 | -0.000 | 21.210 | 0.000 | 8.965  | 0.000 | 0.000 | 22.156 | 20.844 | 125.590 | MWD+IFR1+MS |
| 6000.000 | 11.880 | 184.100 | 5939.920 | 22.148 | -0.000 | 21.574 | 0.000 | 9.167  | 0.000 | 0.000 | 22.512 | 21.207 | 125.751 | MWD+IFR1+MS |
| 6100.000 | 11.880 | 184.100 | 6037.777 | 22.508 | -0.000 | 21.936 | 0.000 | 9.372  | 0.000 | 0.000 | 22.866 | 21.568 | 125.908 | MWD+IFR1+MS |
| 6200.000 | 11.880 | 184.100 | 6135.635 | 22.870 | -0.000 | 22.296 | 0.000 | 9.579  | 0.000 | 0.000 | 23.222 | 21.928 | 125.972 | MWD+IFR1+MS |
| 6300.000 | 11.880 | 184.100 | 6233.493 | 23.234 | -0.000 | 22.660 | 0.000 | 9.788  | 0.000 | 0.000 | 23.579 | 22.292 | 126.077 | MWD+IFR1+MS |
| 6400.000 | 11.880 | 184.100 | 6331.350 | 23.596 | -0.000 | 23.025 | 0.000 | 10.000 | 0.000 | 0.000 | 23.937 | 22.655 | 126.229 | MWD+IFR1+MS |
| 6500.000 | 11.880 | 184.100 | 6429.208 | 23.960 | -0.000 | 23.388 | 0.000 | 10.213 | 0.000 | 0.000 | 24.294 | 23.017 | 126.331 | MWD+IFR1+MS |
| 6600.000 | 11.880 | 184.100 | 6527.065 | 24.326 | -0.000 | 23.751 | 0.000 | 10.431 | 0.000 | 0.000 | 24.654 | 23.382 | 126.385 | MWD+IFR1+MS |
| 6700.000 | 11.880 | 184.100 | 6624.923 | 24.691 | -0.000 | 24.116 | 0.000 | 10.649 | 0.000 | 0.000 | 25.013 | 23.746 | 126.483 | MWD+IFR1+MS |
| 6800.000 | 11.880 | 184.100 | 6722.780 | 25.057 | -0.000 | 24.481 | 0.000 | 10.872 | 0.000 | 0.000 | 25.373 | 24.110 | 126.580 | MWD+IFR1+MS |
| 6900.000 | 11.880 | 184.100 | 6820.638 | 25.423 | -0.000 | 24.845 | 0.000 | 11.100 | 0.000 | 0.000 | 25.733 | 24.475 | 126.631 | MWD+IFR1+MS |
| 7000.000 | 11.880 | 184.100 | 6918.495 | 25.792 | -0.000 | 25.212 | 0.000 | 11.327 | 0.000 | 0.000 | 26.096 | 24.841 | 126.681 | MWD+IFR1+MS |
| 7100.000 | 11.880 | 184.100 | 7016.353 | 26.158 | -0.000 | 25.577 | 0.000 | 11.554 | 0.000 | 0.000 | 26.457 | 25.206 | 126.773 | MWD+IFR1+MS |
| 7200.000 | 11.880 | 184.100 | 7114.210 | 26.527 | -0.000 | 25.943 | 0.000 | 11.790 | 0.000 | 0.000 | 26.819 | 25.572 | 126.820 | MWD+IFR1+MS |

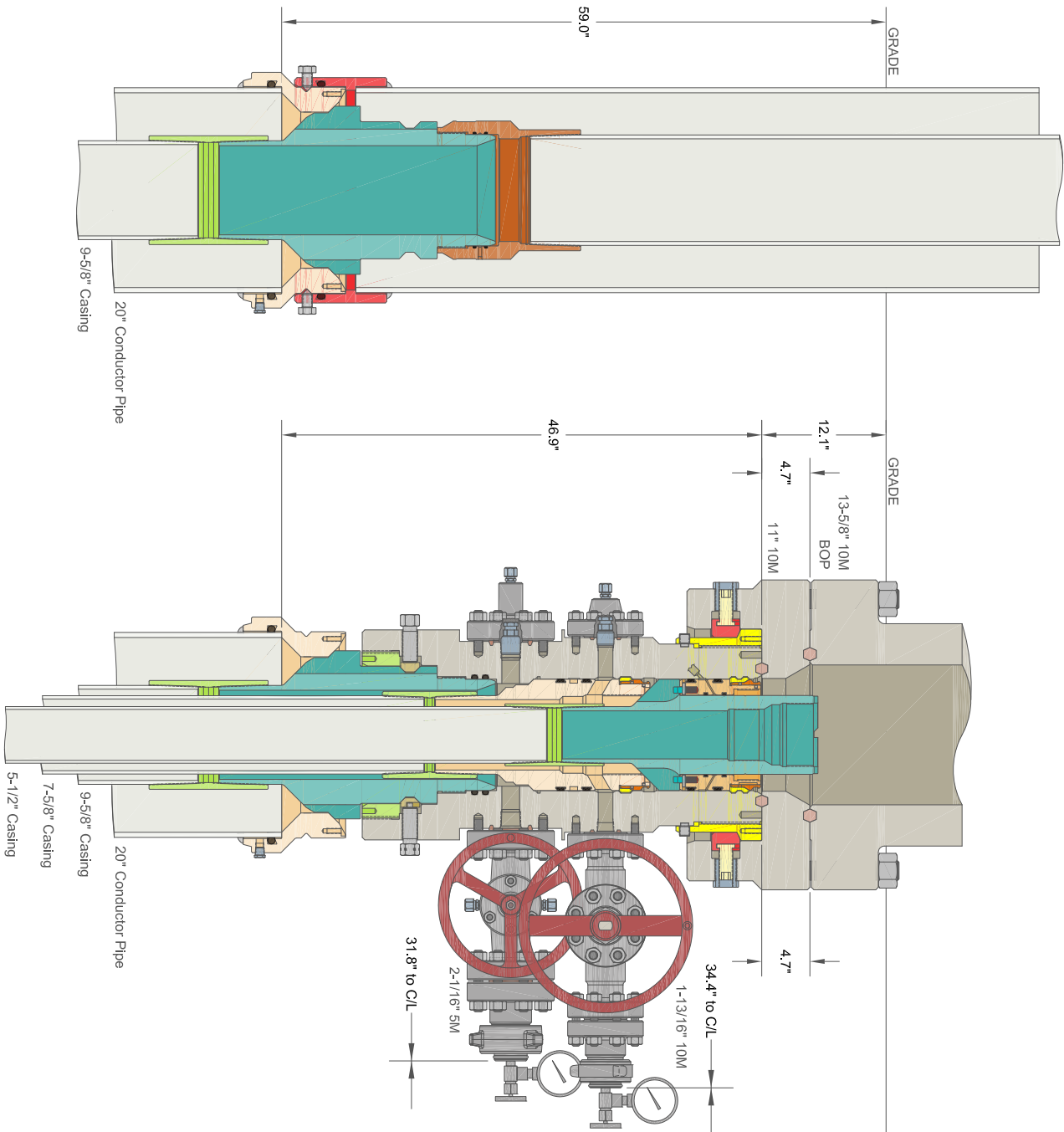
|           |        |         |           |        |        |        |        |        |       |       |        |        |         |             |
|-----------|--------|---------|-----------|--------|--------|--------|--------|--------|-------|-------|--------|--------|---------|-------------|
| 7300.000  | 11.880 | 184.100 | 7212.068  | 26.896 | -0.000 | 26.307 | 0.000  | 12.025 | 0.000 | 0.000 | 27.182 | 25.938 | 126.827 | MWD+IFR1+MS |
| 7400.000  | 11.880 | 184.100 | 7309.925  | 27.266 | -0.000 | 26.674 | 0.000  | 12.264 | 0.000 | 0.000 | 27.546 | 26.305 | 126.873 | MWD+IFR1+MS |
| 7500.000  | 11.880 | 184.100 | 7407.783  | 27.637 | -0.000 | 27.040 | 0.000  | 12.502 | 0.000 | 0.000 | 27.909 | 26.671 | 126.879 | MWD+IFR1+MS |
| 7600.000  | 11.880 | 184.100 | 7505.640  | 28.008 | -0.000 | 27.408 | 0.000  | 12.748 | 0.000 | 0.000 | 28.275 | 27.040 | 126.924 | MWD+IFR1+MS |
| 7700.000  | 11.880 | 184.100 | 7603.498  | 28.378 | -0.000 | 27.775 | 0.000  | 12.992 | 0.000 | 0.000 | 28.639 | 27.407 | 126.969 | MWD+IFR1+MS |
| 7800.000  | 11.880 | 184.100 | 7701.355  | 28.750 | -0.000 | 28.141 | 0.000  | 13.240 | 0.000 | 0.000 | 29.004 | 27.774 | 126.933 | MWD+IFR1+MS |
| 7900.000  | 11.880 | 184.100 | 7799.213  | 29.121 | -0.000 | 28.509 | 0.000  | 13.491 | 0.000 | 0.000 | 29.369 | 28.142 | 126.977 | MWD+IFR1+MS |
| 8000.000  | 11.880 | 184.100 | 7897.070  | 29.494 | -0.000 | 28.876 | 0.000  | 13.744 | 0.000 | 0.000 | 29.735 | 28.510 | 126.943 | MWD+IFR1+MS |
| 8100.000  | 11.880 | 184.100 | 7994.928  | 29.866 | -0.000 | 29.245 | 0.000  | 14.004 | 0.000 | 0.000 | 30.101 | 28.879 | 126.987 | MWD+IFR1+MS |
| 8200.000  | 11.880 | 184.100 | 8092.785  | 30.238 | -0.000 | 29.613 | 0.000  | 14.262 | 0.000 | 0.000 | 30.468 | 29.248 | 126.992 | MWD+IFR1+MS |
| 8300.000  | 11.880 | 184.100 | 8190.643  | 30.612 | -0.000 | 29.981 | 0.000  | 14.522 | 0.000 | 0.000 | 30.835 | 29.617 | 126.959 | MWD+IFR1+MS |
| 8400.000  | 11.880 | 184.100 | 8288.500  | 30.985 | -0.000 | 30.348 | 0.000  | 14.785 | 0.000 | 0.000 | 31.202 | 29.985 | 126.929 | MWD+IFR1+MS |
| 8500.000  | 11.880 | 184.100 | 8386.358  | 31.359 | -0.000 | 30.717 | 0.000  | 15.053 | 0.000 | 0.000 | 31.570 | 30.355 | 126.934 | MWD+IFR1+MS |
| 8600.000  | 11.880 | 184.100 | 8484.216  | 31.732 | -0.000 | 31.085 | 0.000  | 15.323 | 0.000 | 0.000 | 31.938 | 30.724 | 126.903 | MWD+IFR1+MS |
| 8700.000  | 11.880 | 184.100 | 8582.073  | 32.107 | -0.000 | 31.454 | 0.000  | 15.595 | 0.000 | 0.000 | 32.306 | 31.094 | 126.875 | MWD+IFR1+MS |
| 8800.000  | 11.880 | 184.100 | 8679.931  | 32.471 | -0.000 | 31.809 | 0.000  | 15.868 | 0.000 | 0.000 | 32.663 | 31.451 | 126.776 | MWD+IFR1+MS |
| 8900.000  | 11.880 | 184.100 | 8777.788  | 32.847 | -0.000 | 32.183 | 0.000  | 16.146 | 0.000 | 0.000 | 33.033 | 31.824 | 126.853 | MWD+IFR1+MS |
| 9000.000  | 11.880 | 184.100 | 8875.646  | 33.232 | -0.000 | 32.553 | 0.000  | 16.429 | 0.000 | 0.000 | 33.410 | 32.199 | 126.583 | MWD+IFR1+MS |
| 9100.000  | 11.880 | 184.100 | 8973.503  | 33.599 | -0.000 | 32.919 | 0.000  | 16.709 | 0.000 | 0.000 | 33.772 | 32.564 | 126.662 | MWD+IFR1+MS |
| 9200.000  | 11.880 | 184.100 | 9071.361  | 33.977 | -0.000 | 33.295 | 0.000  | 16.994 | 0.000 | 0.000 | 34.146 | 32.940 | 126.739 | MWD+IFR1+MS |
| 9300.000  | 11.880 | 184.100 | 9169.218  | 34.350 | -0.000 | 33.668 | 0.000  | 17.283 | 0.000 | 0.000 | 34.515 | 33.312 | 126.815 | MWD+IFR1+MS |
| 9400.000  | 11.880 | 184.100 | 9267.076  | 34.734 | -0.000 | 34.036 | 0.000  | 17.573 | 0.000 | 0.000 | 34.890 | 33.685 | 126.559 | MWD+IFR1+MS |
| 9423.400  | 11.880 | 184.100 | 9290.010  | 34.821 | -0.000 | 34.110 | 0.000  | 17.641 | 0.000 | 0.000 | 34.971 | 33.764 | 126.230 | MWD+IFR1+MS |
| 9500.000  | 12.930 | 155.700 | 9364.854  | 34.417 | 0.000  | 35.076 | -0.000 | 17.866 | 0.000 | 0.000 | 35.353 | 34.061 | 127.903 | MWD+IFR1+MS |
| 9600.000  | 17.670 | 130.900 | 9461.381  | 33.960 | 0.000  | 36.588 | -0.000 | 18.180 | 0.000 | 0.000 | 36.617 | 34.441 | 124.185 | MWD+IFR1+MS |
| 9700.000  | 24.160 | 117.600 | 9554.789  | 33.682 | 0.000  | 37.786 | -0.000 | 18.612 | 0.000 | 0.000 | 37.823 | 35.135 | 110.724 | MWD+IFR1+MS |
| 9800.000  | 31.330 | 109.900 | 9643.259  | 33.306 | 0.000  | 38.578 | -0.000 | 19.241 | 0.000 | 0.000 | 38.668 | 35.941 | 99.216  | MWD+IFR1+MS |
| 9900.000  | 38.790 | 104.800 | 9725.070  | 32.735 | 0.000  | 39.185 | -0.000 | 20.095 | 0.000 | 0.000 | 39.357 | 36.674 | 89.857  | MWD+IFR1+MS |
| 10000.000 | 46.410 | 101.200 | 9798.628  | 31.985 | 0.000  | 39.678 | -0.000 | 21.175 | 0.000 | 0.000 | 39.943 | 37.250 | 82.625  | MWD+IFR1+MS |
| 10100.000 | 54.120 | 98.470  | 9862.503  | 31.158 | 0.000  | 40.083 | -0.000 | 22.463 | 0.000 | 0.000 | 40.423 | 37.696 | 77.470  | MWD+IFR1+MS |
| 10200.000 | 61.880 | 96.180  | 9915.450  | 30.345 | 0.000  | 40.442 | -0.000 | 23.914 | 0.000 | 0.000 | 40.816 | 38.001 | 74.449  | MWD+IFR1+MS |
| 10300.000 | 69.680 | 94.200  | 9956.440  | 29.697 | 0.000  | 40.763 | -0.000 | 25.481 | 0.000 | 0.000 | 41.126 | 38.206 | 73.215  | MWD+IFR1+MS |
| 10400.000 | 77.480 | 92.410  | 9984.675  | 29.352 | 0.000  | 41.025 | -0.000 | 27.105 | 0.000 | 0.000 | 41.340 | 38.340 | 73.182  | MWD+IFR1+MS |
| 10500.000 | 85.310 | 90.730  | 9999.605  | 29.418 | 0.000  | 41.259 | -0.000 | 28.733 | 0.000 | 0.000 | 41.500 | 38.416 | 74.223  | MWD+IFR1+MS |
| 10551.000 | 89.360 | 89.880  | 10002.000 | 29.129 | 0.000  | 41.343 | 0.000  | 29.047 | 0.000 | 0.000 | 41.540 | 38.438 | 75.033  | MWD+IFR1+MS |
| 10600.000 | 89.360 | 89.880  | 10002.533 | 29.242 | 0.000  | 41.403 | 0.000  | 29.160 | 0.000 | 0.000 | 41.581 | 38.471 | 75.785  | MWD+IFR1+MS |
| 10700.000 | 89.360 | 89.880  | 10003.636 | 29.444 | 0.000  | 41.512 | 0.000  | 29.363 | 0.000 | 0.000 | 41.655 | 38.508 | 77.339  | MWD+IFR1+MS |
| 10800.000 | 89.360 | 89.880  | 10004.738 | 29.668 | 0.000  | 41.656 | 0.000  | 29.589 | 0.000 | 0.000 | 41.767 | 38.555 | 78.934  | MWD+IFR1+MS |
| 10900.000 | 89.360 | 89.880  | 10005.841 | 29.911 | 0.000  | 41.811 | 0.000  | 29.833 | 0.000 | 0.000 | 41.896 | 38.597 | 80.490  | MWD+IFR1+MS |
| 11000.000 | 89.360 | 89.880  | 10006.944 | 30.172 | 0.000  | 41.978 | 0.000  | 30.095 | 0.000 | 0.000 | 42.040 | 38.635 | 81.984  | MWD+IFR1+MS |
| 11100.000 | 89.360 | 89.880  | 10008.047 | 30.451 | 0.000  | 42.156 | 0.000  | 30.376 | 0.000 | 0.000 | 42.199 | 38.668 | 83.400  | MWD+IFR1+MS |
| 11200.000 | 89.360 | 89.880  | 10009.150 | 30.748 | 0.000  | 42.357 | 0.000  | 30.674 | 0.000 | 0.000 | 42.385 | 38.697 | 84.745  | MWD+IFR1+MS |
| 11300.000 | 89.360 | 89.880  | 10010.253 | 31.061 | 0.000  | 42.569 | 0.000  | 30.989 | 0.000 | 0.000 | 42.586 | 38.723 | 85.983  | MWD+IFR1+MS |
| 11400.000 | 89.360 | 89.880  | 10011.356 | 31.392 | 0.000  | 42.803 | 0.000  | 31.321 | 0.000 | 0.000 | 42.812 | 38.745 | 87.122  | MWD+IFR1+MS |
| 11500.000 | 89.360 | 89.880  | 10012.459 | 31.724 | 0.000  | 43.035 | 0.000  | 31.654 | 0.000 | 0.000 | 43.039 | 38.764 | 88.146  | MWD+IFR1+MS |
| 11600.000 | 89.360 | 89.880  | 10013.561 | 32.099 | 0.000  | 43.302 | 0.000  | 32.031 | 0.000 | 0.000 | 43.302 | 38.793 | 89.072  | MWD+IFR1+MS |
| 11700.000 | 89.360 | 89.880  | 10014.664 | 32.471 | 0.000  | 43.566 | 0.000  | 32.404 | 0.000 | 0.000 | 43.566 | 38.807 | 89.900  | MWD+IFR1+MS |
| 11800.000 | 89.360 | 89.880  | 10015.767 | 32.868 | 0.000  | 43.852 | 0.000  | 32.802 | 0.000 | 0.000 | 43.853 | 38.819 | 90.637  | MWD+IFR1+MS |
| 11900.000 | 89.360 | 89.880  | 10016.870 | 33.260 | 0.000  | 44.147 | 0.000  | 33.196 | 0.000 | 0.000 | 44.150 | 38.843 | 91.293  | MWD+IFR1+MS |
| 12000.000 | 89.360 | 89.880  | 10017.973 | 33.678 | 0.000  | 44.451 | 0.000  | 33.615 | 0.000 | 0.000 | 44.458 | 38.865 | 91.874  | MWD+IFR1+MS |
| 12100.000 | 89.360 | 89.880  | 10019.076 | 34.120 | 0.000  | 44.776 | 0.000  | 34.059 | 0.000 | 0.000 | 44.787 | 38.873 | 92.382  | MWD+IFR1+MS |
| 12200.000 | 89.360 | 89.880  | 10020.179 | 34.556 | 0.000  | 45.110 | 0.000  | 34.496 | 0.000 | 0.000 | 45.125 | 38.894 | 92.832  | MWD+IFR1+MS |
| 12300.000 | 89.360 | 89.880  | 10021.282 | 35.016 | 0.000  | 45.463 | 0.000  | 34.957 | 0.000 | 0.000 | 45.484 | 38.913 | 93.223  | MWD+IFR1+MS |

|           |        |        |           |        |       |        |       |        |       |       |        |        |        |             |
|-----------|--------|--------|-----------|--------|-------|--------|-------|--------|-------|-------|--------|--------|--------|-------------|
| 12400.000 | 89.360 | 89.880 | 10022.384 | 35.483 | 0.000 | 45.813 | 0.000 | 35.426 | 0.000 | 0.000 | 45.840 | 38.932 | 93.574 | MWD+IFR1+MS |
| 12500.000 | 89.360 | 89.880 | 10023.487 | 35.959 | 0.000 | 46.182 | 0.000 | 35.903 | 0.000 | 0.000 | 46.215 | 38.951 | 93.876 | MWD+IFR1+MS |
| 12600.000 | 89.360 | 89.880 | 10024.590 | 36.455 | 0.000 | 46.570 | 0.000 | 36.401 | 0.000 | 0.000 | 46.609 | 38.969 | 94.134 | MWD+IFR1+MS |
| 12700.000 | 89.360 | 89.880 | 10025.693 | 36.945 | 0.000 | 46.966 | 0.000 | 36.892 | 0.000 | 0.000 | 47.010 | 38.987 | 94.359 | MWD+IFR1+MS |
| 12800.000 | 89.360 | 89.880 | 10026.796 | 37.455 | 0.000 | 47.368 | 0.000 | 37.403 | 0.000 | 0.000 | 47.419 | 39.005 | 94.556 | MWD+IFR1+MS |
| 12900.000 | 89.360 | 89.880 | 10027.899 | 37.972 | 0.000 | 47.778 | 0.000 | 37.921 | 0.000 | 0.000 | 47.835 | 39.036 | 94.733 | MWD+IFR1+MS |
| 13000.000 | 89.360 | 89.880 | 10029.002 | 38.507 | 0.000 | 48.205 | 0.000 | 38.458 | 0.000 | 0.000 | 48.268 | 39.054 | 94.875 | MWD+IFR1+MS |
| 13100.000 | 89.360 | 89.880 | 10030.105 | 39.036 | 0.000 | 48.638 | 0.000 | 38.987 | 0.000 | 0.000 | 48.707 | 39.071 | 94.998 | MWD+IFR1+MS |
| 13200.000 | 89.360 | 89.880 | 10031.207 | 39.582 | 0.000 | 49.078 | 0.000 | 39.535 | 0.000 | 0.000 | 49.153 | 39.102 | 95.109 | MWD+IFR1+MS |
| 13300.000 | 89.360 | 89.880 | 10032.310 | 40.134 | 0.000 | 49.534 | 0.000 | 40.087 | 0.000 | 0.000 | 49.615 | 39.120 | 95.193 | MWD+IFR1+MS |
| 13400.000 | 89.360 | 89.880 | 10033.413 | 40.690 | 0.000 | 49.996 | 0.000 | 40.645 | 0.000 | 0.000 | 50.082 | 39.151 | 95.270 | MWD+IFR1+MS |
| 13500.000 | 89.360 | 89.880 | 10034.516 | 41.263 | 0.000 | 50.474 | 0.000 | 41.219 | 0.000 | 0.000 | 50.565 | 39.181 | 95.329 | MWD+IFR1+MS |
| 13600.000 | 89.360 | 89.880 | 10035.619 | 41.840 | 0.000 | 50.947 | 0.000 | 41.797 | 0.000 | 0.000 | 51.043 | 39.212 | 95.383 | MWD+IFR1+MS |
| 13700.000 | 89.360 | 89.880 | 10036.722 | 42.421 | 0.000 | 51.435 | 0.000 | 42.379 | 0.000 | 0.000 | 51.536 | 39.243 | 95.423 | MWD+IFR1+MS |
| 13800.000 | 89.360 | 89.880 | 10037.825 | 43.006 | 0.000 | 51.938 | 0.000 | 42.965 | 0.000 | 0.000 | 52.043 | 39.262 | 95.443 | MWD+IFR1+MS |
| 13900.000 | 89.360 | 89.880 | 10038.928 | 43.594 | 0.000 | 52.445 | 0.000 | 43.555 | 0.000 | 0.000 | 52.555 | 39.293 | 95.466 | MWD+IFR1+MS |
| 14000.000 | 89.360 | 89.880 | 10040.030 | 44.198 | 0.000 | 52.957 | 0.000 | 44.159 | 0.000 | 0.000 | 53.072 | 39.337 | 95.482 | MWD+IFR1+MS |
| 14100.000 | 89.360 | 89.880 | 10041.133 | 44.804 | 0.000 | 53.474 | 0.000 | 44.766 | 0.000 | 0.000 | 53.592 | 39.369 | 95.493 | MWD+IFR1+MS |
| 14200.000 | 89.360 | 89.880 | 10042.236 | 45.413 | 0.000 | 54.004 | 0.000 | 45.376 | 0.000 | 0.000 | 54.126 | 39.400 | 95.492 | MWD+IFR1+MS |
| 14300.000 | 89.360 | 89.880 | 10043.339 | 46.025 | 0.000 | 54.538 | 0.000 | 45.989 | 0.000 | 0.000 | 54.664 | 39.432 | 95.486 | MWD+IFR1+MS |
| 14400.000 | 89.360 | 89.880 | 10044.442 | 46.651 | 0.000 | 55.076 | 0.000 | 46.615 | 0.000 | 0.000 | 55.205 | 39.476 | 95.485 | MWD+IFR1+MS |
| 14500.000 | 89.360 | 89.880 | 10045.545 | 47.279 | 0.000 | 55.627 | 0.000 | 47.244 | 0.000 | 0.000 | 55.759 | 39.509 | 95.470 | MWD+IFR1+MS |
| 14600.000 | 89.360 | 89.880 | 10046.648 | 47.908 | 0.000 | 56.181 | 0.000 | 47.875 | 0.000 | 0.000 | 56.316 | 39.553 | 95.459 | MWD+IFR1+MS |
| 14700.000 | 89.360 | 89.880 | 10047.751 | 48.541 | 0.000 | 56.739 | 0.000 | 48.508 | 0.000 | 0.000 | 56.877 | 39.586 | 95.439 | MWD+IFR1+MS |
| 14800.000 | 89.360 | 89.880 | 10048.854 | 49.185 | 0.000 | 57.309 | 0.000 | 49.153 | 0.000 | 0.000 | 57.449 | 39.631 | 95.418 | MWD+IFR1+MS |
| 14900.000 | 89.360 | 89.880 | 10049.956 | 49.831 | 0.000 | 57.882 | 0.000 | 49.800 | 0.000 | 0.000 | 58.025 | 39.676 | 95.395 | MWD+IFR1+MS |
| 15000.000 | 89.360 | 89.880 | 10051.059 | 50.478 | 0.000 | 58.457 | 0.000 | 50.448 | 0.000 | 0.000 | 58.603 | 39.720 | 95.374 | MWD+IFR1+MS |
| 15100.000 | 89.360 | 89.880 | 10052.162 | 51.128 | 0.000 | 59.044 | 0.000 | 51.098 | 0.000 | 0.000 | 59.192 | 39.766 | 95.345 | MWD+IFR1+MS |
| 15200.000 | 89.360 | 89.880 | 10053.265 | 51.778 | 0.000 | 59.634 | 0.000 | 51.749 | 0.000 | 0.000 | 59.784 | 39.811 | 95.316 | MWD+IFR1+MS |
| 15300.000 | 89.360 | 89.880 | 10054.368 | 52.440 | 0.000 | 60.235 | 0.000 | 52.412 | 0.000 | 0.000 | 60.386 | 39.857 | 95.284 | MWD+IFR1+MS |
| 15400.000 | 89.360 | 89.880 | 10055.471 | 53.103 | 0.000 | 60.829 | 0.000 | 53.075 | 0.000 | 0.000 | 60.982 | 39.902 | 95.253 | MWD+IFR1+MS |
| 15500.000 | 89.360 | 89.880 | 10056.574 | 53.767 | 0.000 | 61.434 | 0.000 | 53.740 | 0.000 | 0.000 | 61.589 | 39.948 | 95.220 | MWD+IFR1+MS |
| 15600.000 | 89.360 | 89.880 | 10057.677 | 54.432 | 0.000 | 62.049 | 0.000 | 54.406 | 0.000 | 0.000 | 62.206 | 39.993 | 95.185 | MWD+IFR1+MS |
| 15700.000 | 89.360 | 89.880 | 10058.779 | 55.107 | 0.000 | 62.659 | 0.000 | 55.082 | 0.000 | 0.000 | 62.816 | 40.051 | 95.154 | MWD+IFR1+MS |
| 15800.000 | 89.360 | 89.880 | 10059.882 | 55.783 | 0.000 | 63.278 | 0.000 | 55.758 | 0.000 | 0.000 | 63.437 | 40.097 | 95.118 | MWD+IFR1+MS |
| 15900.000 | 89.360 | 89.880 | 10060.985 | 56.460 | 0.000 | 63.907 | 0.000 | 56.436 | 0.000 | 0.000 | 64.067 | 40.155 | 95.082 | MWD+IFR1+MS |
| 16000.000 | 89.360 | 89.880 | 10062.088 | 57.138 | 0.000 | 64.537 | 0.000 | 57.114 | 0.000 | 0.000 | 64.698 | 40.201 | 95.045 | MWD+IFR1+MS |
| 16100.000 | 89.360 | 89.880 | 10063.191 | 57.825 | 0.000 | 65.169 | 0.000 | 57.801 | 0.000 | 0.000 | 65.331 | 40.259 | 95.010 | MWD+IFR1+MS |
| 16200.000 | 89.360 | 89.880 | 10064.294 | 58.512 | 0.000 | 65.803 | 0.000 | 58.489 | 0.000 | 0.000 | 65.966 | 40.318 | 94.975 | MWD+IFR1+MS |
| 16300.000 | 89.360 | 89.880 | 10065.397 | 59.200 | 0.000 | 66.445 | 0.000 | 59.178 | 0.000 | 0.000 | 66.609 | 40.363 | 94.936 | MWD+IFR1+MS |
| 16400.000 | 89.360 | 89.880 | 10066.500 | 59.888 | 0.000 | 67.089 | 0.000 | 59.867 | 0.000 | 0.000 | 67.254 | 40.422 | 94.900 | MWD+IFR1+MS |
| 16500.000 | 89.360 | 89.880 | 10067.602 | 60.577 | 0.000 | 67.734 | 0.000 | 60.556 | 0.000 | 0.000 | 67.900 | 40.480 | 94.865 | MWD+IFR1+MS |
| 16600.000 | 89.360 | 89.880 | 10068.705 | 61.274 | 0.000 | 68.388 | 0.000 | 61.254 | 0.000 | 0.000 | 68.554 | 40.539 | 94.826 | MWD+IFR1+MS |
| 16700.000 | 89.360 | 89.880 | 10069.808 | 61.972 | 0.000 | 69.043 | 0.000 | 61.952 | 0.000 | 0.000 | 69.209 | 40.597 | 94.789 | MWD+IFR1+MS |
| 16800.000 | 89.360 | 89.880 | 10070.911 | 62.669 | 0.000 | 69.698 | 0.000 | 62.650 | 0.000 | 0.000 | 69.865 | 40.667 | 94.755 | MWD+IFR1+MS |
| 16900.000 | 89.360 | 89.880 | 10072.014 | 63.375 | 0.000 | 70.362 | 0.000 | 63.356 | 0.000 | 0.000 | 70.530 | 40.726 | 94.718 | MWD+IFR1+MS |
| 17000.000 | 89.360 | 89.880 | 10073.117 | 64.073 | 0.000 | 71.027 | 0.000 | 64.055 | 0.000 | 0.000 | 71.195 | 40.784 | 94.680 | MWD+IFR1+MS |
| 17100.000 | 89.360 | 89.880 | 10074.220 | 64.779 | 0.000 | 71.692 | 0.000 | 64.761 | 0.000 | 0.000 | 71.860 | 40.854 | 94.645 | MWD+IFR1+MS |
| 17200.000 | 89.360 | 89.880 | 10075.323 | 65.485 | 0.000 | 72.366 | 0.000 | 65.468 | 0.000 | 0.000 | 72.534 | 40.913 | 94.609 | MWD+IFR1+MS |
| 17300.000 | 89.360 | 89.880 | 10076.425 | 66.191 | 0.000 | 73.039 | 0.000 | 66.174 | 0.000 | 0.000 | 73.208 | 40.983 | 94.572 | MWD+IFR1+MS |
| 17400.000 | 89.360 | 89.880 | 10077.528 | 66.905 | 0.000 | 73.714 | 0.000 | 66.888 | 0.000 | 0.000 | 73.882 | 41.041 | 94.537 | MWD+IFR1+MS |
| 17500.000 | 89.360 | 89.880 | 10078.631 | 67.618 | 0.000 | 74.396 | 0.000 | 67.602 | 0.000 | 0.000 | 74.564 | 41.112 | 94.500 | MWD+IFR1+MS |
| 17600.000 | 89.360 | 89.880 | 10079.734 | 68.331 | 0.000 | 75.078 | 0.000 | 68.315 | 0.000 | 0.000 | 75.247 | 41.182 | 94.466 | MWD+IFR1+MS |
| 17700.000 | 89.360 | 89.880 | 10080.837 | 69.045 | 0.000 | 75.761 | 0.000 | 69.029 | 0.000 | 0.000 | 75.929 | 41.252 | 94.431 | MWD+IFR1+MS |

|           |        |        |           |         |       |         |       |         |       |       |         |        |        |             |
|-----------|--------|--------|-----------|---------|-------|---------|-------|---------|-------|-------|---------|--------|--------|-------------|
| 17800.000 | 89.360 | 89.880 | 10081.940 | 69.765  | 0.000 | 76.450  | 0.000 | 69.750  | 0.000 | 0.000 | 76.619  | 41.310 | 94.396 | MWD+IFR1+MS |
| 17900.000 | 89.360 | 89.880 | 10083.043 | 70.478  | 0.000 | 77.140  | 0.000 | 70.463  | 0.000 | 0.000 | 77.309  | 41.381 | 94.361 | MWD+IFR1+MS |
| 18000.000 | 89.360 | 89.880 | 10084.146 | 71.197  | 0.000 | 77.831  | 0.000 | 71.183  | 0.000 | 0.000 | 77.999  | 41.463 | 94.327 | MWD+IFR1+MS |
| 18100.000 | 89.360 | 89.880 | 10085.248 | 71.917  | 0.000 | 78.528  | 0.000 | 71.903  | 0.000 | 0.000 | 78.696  | 41.533 | 94.294 | MWD+IFR1+MS |
| 18200.000 | 89.360 | 89.880 | 10086.351 | 72.643  | 0.000 | 79.225  | 0.000 | 72.629  | 0.000 | 0.000 | 79.393  | 41.603 | 94.260 | MWD+IFR1+MS |
| 18300.000 | 89.360 | 89.880 | 10087.454 | 73.362  | 0.000 | 79.922  | 0.000 | 73.348  | 0.000 | 0.000 | 80.090  | 41.672 | 94.226 | MWD+IFR1+MS |
| 18400.000 | 89.360 | 89.880 | 10088.557 | 74.087  | 0.000 | 80.626  | 0.000 | 74.074  | 0.000 | 0.000 | 80.794  | 41.754 | 94.195 | MWD+IFR1+MS |
| 18500.000 | 89.360 | 89.880 | 10089.660 | 74.812  | 0.000 | 81.330  | 0.000 | 74.800  | 0.000 | 0.000 | 81.497  | 41.824 | 94.161 | MWD+IFR1+MS |
| 18600.000 | 89.360 | 89.880 | 10090.763 | 75.544  | 0.000 | 82.033  | 0.000 | 75.531  | 0.000 | 0.000 | 82.201  | 41.905 | 94.130 | MWD+IFR1+MS |
| 18700.000 | 89.360 | 89.880 | 10091.866 | 76.268  | 0.000 | 82.743  | 0.000 | 76.256  | 0.000 | 0.000 | 82.910  | 41.975 | 94.097 | MWD+IFR1+MS |
| 18800.000 | 89.360 | 89.880 | 10092.969 | 76.999  | 0.000 | 83.453  | 0.000 | 76.987  | 0.000 | 0.000 | 83.620  | 42.056 | 94.067 | MWD+IFR1+MS |
| 18900.000 | 89.360 | 89.880 | 10094.071 | 77.729  | 0.000 | 84.163  | 0.000 | 77.717  | 0.000 | 0.000 | 84.329  | 42.138 | 94.036 | MWD+IFR1+MS |
| 19000.000 | 89.360 | 89.880 | 10095.174 | 78.459  | 0.000 | 84.879  | 0.000 | 78.447  | 0.000 | 0.000 | 85.045  | 42.219 | 94.005 | MWD+IFR1+MS |
| 19100.000 | 89.360 | 89.880 | 10096.277 | 79.194  | 0.000 | 85.594  | 0.000 | 79.183  | 0.000 | 0.000 | 85.760  | 42.288 | 93.973 | MWD+IFR1+MS |
| 19200.000 | 89.360 | 89.880 | 10097.380 | 79.929  | 0.000 | 86.310  | 0.000 | 79.919  | 0.000 | 0.000 | 86.475  | 42.369 | 93.944 | MWD+IFR1+MS |
| 19300.000 | 89.360 | 89.880 | 10098.483 | 80.664  | 0.000 | 87.031  | 0.000 | 80.654  | 0.000 | 0.000 | 87.195  | 42.450 | 93.913 | MWD+IFR1+MS |
| 19400.000 | 89.360 | 89.880 | 10099.586 | 81.398  | 0.000 | 87.751  | 0.000 | 81.388  | 0.000 | 0.000 | 87.916  | 42.542 | 93.885 | MWD+IFR1+MS |
| 19500.000 | 89.360 | 89.880 | 10100.689 | 82.132  | 0.000 | 88.472  | 0.000 | 82.122  | 0.000 | 0.000 | 88.636  | 42.623 | 93.856 | MWD+IFR1+MS |
| 19600.000 | 89.360 | 89.880 | 10101.792 | 82.871  | 0.000 | 89.198  | 0.000 | 82.861  | 0.000 | 0.000 | 89.361  | 42.703 | 93.827 | MWD+IFR1+MS |
| 19700.000 | 89.360 | 89.880 | 10102.894 | 83.609  | 0.000 | 89.923  | 0.000 | 83.600  | 0.000 | 0.000 | 90.086  | 42.783 | 93.798 | MWD+IFR1+MS |
| 19800.000 | 89.360 | 89.880 | 10103.997 | 84.347  | 0.000 | 90.649  | 0.000 | 84.339  | 0.000 | 0.000 | 90.811  | 42.875 | 93.770 | MWD+IFR1+MS |
| 19900.000 | 89.360 | 89.880 | 10105.100 | 85.085  | 0.000 | 91.379  | 0.000 | 85.076  | 0.000 | 0.000 | 91.541  | 42.955 | 93.742 | MWD+IFR1+MS |
| 20000.000 | 89.360 | 89.880 | 10106.203 | 85.828  | 0.000 | 92.110  | 0.000 | 85.820  | 0.000 | 0.000 | 92.271  | 43.047 | 93.715 | MWD+IFR1+MS |
| 20100.000 | 89.360 | 89.880 | 10107.306 | 86.570  | 0.000 | 92.839  | 0.000 | 86.562  | 0.000 | 0.000 | 93.000  | 43.138 | 93.688 | MWD+IFR1+MS |
| 20200.000 | 89.360 | 89.880 | 10108.409 | 87.312  | 0.000 | 93.574  | 0.000 | 87.304  | 0.000 | 0.000 | 93.735  | 43.218 | 93.661 | MWD+IFR1+MS |
| 20300.000 | 89.360 | 89.880 | 10109.512 | 88.053  | 0.000 | 94.303  | 0.000 | 88.045  | 0.000 | 0.000 | 94.463  | 43.309 | 93.635 | MWD+IFR1+MS |
| 20400.000 | 89.360 | 89.880 | 10110.615 | 88.794  | 0.000 | 95.043  | 0.000 | 88.786  | 0.000 | 0.000 | 95.202  | 43.400 | 93.609 | MWD+IFR1+MS |
| 20500.000 | 89.360 | 89.880 | 10111.718 | 89.539  | 0.000 | 95.776  | 0.000 | 89.532  | 0.000 | 0.000 | 95.935  | 43.491 | 93.582 | MWD+IFR1+MS |
| 20600.000 | 89.360 | 89.880 | 10112.820 | 90.284  | 0.000 | 96.514  | 0.000 | 90.277  | 0.000 | 0.000 | 96.673  | 43.581 | 93.557 | MWD+IFR1+MS |
| 20700.000 | 89.360 | 89.880 | 10113.923 | 91.029  | 0.000 | 97.257  | 0.000 | 91.022  | 0.000 | 0.000 | 97.415  | 43.672 | 93.532 | MWD+IFR1+MS |
| 20800.000 | 89.360 | 89.880 | 10115.026 | 91.778  | 0.000 | 97.995  | 0.000 | 91.771  | 0.000 | 0.000 | 98.152  | 43.774 | 93.507 | MWD+IFR1+MS |
| 20900.000 | 89.360 | 89.880 | 10116.129 | 92.521  | 0.000 | 98.737  | 0.000 | 92.515  | 0.000 | 0.000 | 98.894  | 43.864 | 93.482 | MWD+IFR1+MS |
| 21000.000 | 89.360 | 89.880 | 10117.232 | 93.269  | 0.000 | 99.483  | 0.000 | 93.263  | 0.000 | 0.000 | 99.640  | 43.954 | 93.458 | MWD+IFR1+MS |
| 21100.000 | 89.360 | 89.880 | 10118.335 | 94.017  | 0.000 | 100.189 | 0.000 | 94.011  | 0.000 | 0.000 | 100.345 | 44.054 | 93.437 | MWD+IFR1+MS |
| 21200.000 | 89.360 | 89.880 | 10119.438 | 94.769  | 0.000 | 100.935 | 0.000 | 94.763  | 0.000 | 0.000 | 101.091 | 44.144 | 93.413 | MWD+IFR1+MS |
| 21300.000 | 89.360 | 89.880 | 10120.541 | 95.515  | 0.000 | 101.675 | 0.000 | 95.509  | 0.000 | 0.000 | 101.830 | 44.245 | 93.390 | MWD+IFR1+MS |
| 21400.000 | 89.360 | 89.880 | 10121.643 | 96.265  | 0.000 | 102.459 | 0.000 | 96.260  | 0.000 | 0.000 | 102.613 | 44.334 | 93.364 | MWD+IFR1+MS |
| 21500.000 | 89.360 | 89.880 | 10122.746 | 97.016  | 0.000 | 103.188 | 0.000 | 97.010  | 0.000 | 0.000 | 103.342 | 44.434 | 93.342 | MWD+IFR1+MS |
| 21600.000 | 89.360 | 89.880 | 10123.849 | 97.765  | 0.000 | 103.961 | 0.000 | 97.760  | 0.000 | 0.000 | 104.114 | 44.535 | 93.317 | MWD+IFR1+MS |
| 21700.000 | 89.360 | 89.880 | 10124.952 | 98.519  | 0.000 | 104.679 | 0.000 | 98.514  | 0.000 | 0.000 | 104.832 | 44.634 | 93.298 | MWD+IFR1+MS |
| 21800.000 | 89.360 | 89.880 | 10126.055 | 99.272  | 0.000 | 105.441 | 0.000 | 99.267  | 0.000 | 0.000 | 105.593 | 44.734 | 93.274 | MWD+IFR1+MS |
| 21900.000 | 89.360 | 89.880 | 10127.158 | 100.005 | 0.000 | 106.197 | 0.000 | 100.000 | 0.000 | 0.000 | 106.348 | 44.834 | 93.252 | MWD+IFR1+MS |
| 22000.000 | 89.360 | 89.880 | 10128.261 | 100.752 | 0.000 | 106.947 | 0.000 | 100.747 | 0.000 | 0.000 | 107.098 | 44.933 | 93.231 | MWD+IFR1+MS |
| 22100.000 | 89.360 | 89.880 | 10129.364 | 101.493 | 0.000 | 107.693 | 0.000 | 101.489 | 0.000 | 0.000 | 107.843 | 45.032 | 93.210 | MWD+IFR1+MS |
| 22200.000 | 89.360 | 89.880 | 10130.466 | 102.278 | 0.000 | 108.479 | 0.000 | 102.274 | 0.000 | 0.000 | 108.629 | 45.131 | 93.186 | MWD+IFR1+MS |
| 22300.000 | 89.360 | 89.880 | 10131.569 | 103.009 | 0.000 | 109.214 | 0.000 | 103.005 | 0.000 | 0.000 | 109.363 | 45.241 | 93.167 | MWD+IFR1+MS |
| 22400.000 | 89.360 | 89.880 | 10132.672 | 103.782 | 0.000 | 109.989 | 0.000 | 103.779 | 0.000 | 0.000 | 110.138 | 45.340 | 93.145 | MWD+IFR1+MS |
| 22500.000 | 89.360 | 89.880 | 10133.775 | 104.502 | 0.000 | 110.714 | 0.000 | 104.499 | 0.000 | 0.000 | 110.862 | 45.449 | 93.127 | MWD+IFR1+MS |
| 22600.000 | 89.360 | 89.880 | 10134.878 | 105.265 | 0.000 | 111.479 | 0.000 | 105.262 | 0.000 | 0.000 | 111.627 | 45.547 | 93.106 | MWD+IFR1+MS |
| 22700.000 | 89.360 | 89.880 | 10135.981 | 106.022 | 0.000 | 112.239 | 0.000 | 106.019 | 0.000 | 0.000 | 112.386 | 45.656 | 93.086 | MWD+IFR1+MS |
| 22800.000 | 89.360 | 89.880 | 10137.084 | 106.774 | 0.000 | 112.994 | 0.000 | 106.771 | 0.000 | 0.000 | 113.140 | 45.764 | 93.066 | MWD+IFR1+MS |
| 22900.000 | 89.360 | 89.880 | 10138.187 | 107.567 | 0.000 | 113.787 | 0.000 | 107.564 | 0.000 | 0.000 | 113.933 | 45.862 | 93.045 | MWD+IFR1+MS |
| 23000.000 | 89.360 | 89.880 | 10139.289 | 108.308 | 0.000 | 114.532 | 0.000 | 108.305 | 0.000 | 0.000 | 114.677 | 45.970 | 93.026 | MWD+IFR1+MS |

|           |        |        |           |         |       |         |       |         |       |       |         |        |        |             |
|-----------|--------|--------|-----------|---------|-------|---------|-------|---------|-------|-------|---------|--------|--------|-------------|
| 23064.000 | 89.360 | 89.880 | 10140.000 | 108.815 | 0.000 | 115.011 | 0.000 | 108.812 | 0.000 | 0.000 | 115.156 | 46.045 | 93.015 | MWD+IFR1+MS |
|-----------|--------|--------|-----------|---------|-------|---------|-------|---------|-------|-------|---------|--------|--------|-------------|

| Plan Targets   |                        | JRU DI 11 Ekalaka 821H |                      |                 |              |
|----------------|------------------------|------------------------|----------------------|-----------------|--------------|
| Target Name    | Measured Depth<br>(ft) | Grid Northing<br>(ft)  | Grid Easting<br>(ft) | TVD MSL<br>(ft) | Target Shape |
| Kick Off Pt 19 | 9758.90                | 504327.70              | 633111.40            | 5851.80         | CIRCLE       |
| FTP 41         | 10990.00               | 504327.70              | 633627.70            | 6568.00         | RECTANGLE    |
| Rev 2 FTP 6    | 10561.00               | 504655.50              | 633627.00            | 6870.00         | CIRCLE       |
| Rev 2 BHL 6    | 23074.00               | 504681.07              | 646138.94            | 7008.00         | CIRCLE       |
| BHL 41         | 23605.99               | 504351.14              | 646140.56            | 6568.00         | RECTANGLE    |



|                                                                                                                                                                                                                  |                                            |     |         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-----|---------|
| <b>CACTUS WELLHEAD LLC</b><br><br>20" x 9-5/8" x 7-5/8" x 5-1/2" MBU-T-CFL-R-DBLO Wellhead<br>With 11" 10M x 7-1/16" 15M CTH-DBLHPS Tubing Head<br>And 9-5/8", 7-5/8" & 5-1/2" Pin Bottom Mandrel Casing Hangers | <b>XTO ENERGY INC</b><br><b>ICARUS PAD</b> |     |         |
|                                                                                                                                                                                                                  | DRAWN                                      | DLE | 18JAN21 |
|                                                                                                                                                                                                                  | APPRV                                      |     |         |
|                                                                                                                                                                                                                  | DRAWING NO. <b>HBE0000479</b>              |     |         |

*Released to Imaging:*

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

State of New Mexico  
Energy, Minerals and Natural Resources  
Oil Conservation Division  
1220 S. St Francis Dr.  
Santa Fe, NM 87505

CONDITIONS

Action 295160

CONDITIONS

|                                                                                        |                                                      |
|----------------------------------------------------------------------------------------|------------------------------------------------------|
| Operator:<br>XTO PERMIAN OPERATING LLC.<br>6401 HOLIDAY HILL ROAD<br>MIDLAND, TX 79707 | OGRID:<br>373075                                     |
|                                                                                        | Action Number:<br>295160                             |
|                                                                                        | Action Type:<br>[C-103] NOI Change of Plans (C-103A) |

CONDITIONS

| Created By  | Condition                                                                                                                                                                                                                                                                                          | Condition Date |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| ward.rikala | Prior to the submission of this C-104, there was a C-103 NOI submitted for approval. The C-103 NOI was not approved or rejected; however, the work requested in the C-103 NOI was performed and completed without NMOCD approval. This action is currently under review from our legal department. | 11/13/2024     |