

|                                           |                                                                      |                                   |
|-------------------------------------------|----------------------------------------------------------------------|-----------------------------------|
| Well Name: JAMES RANCH UNIT DI 11 EKALAKA | Well Location: T22S / R30E / SEC 17 / NWSE / 32.391405 / -103.902622 | County or Parish/State: EDDY / NM |
| Well Number: 904H                         | Type of Well: OIL WELL                                               | Allottee or Tribe Name:           |
| Lease Number: NMNM0002951A                | Unit or CA Name: JAMES RANCH                                         | Unit or CA Number: NMNM070965Z    |
| US Well Number:                           | Operator: XTO PERMIAN OPERATING LLC                                  |                                   |

Notice of Intent

Sundry ID: 2642453

|                                                |                              |
|------------------------------------------------|------------------------------|
| Type of Submission: Notice of Intent           | Type of Action: Other        |
| Date Sundry Submitted: 11/02/2021              | Time Sundry Submitted: 09:02 |
| Date proposed operation will begin: 11/04/2021 |                              |

Procedure Description: \*\*Name Change, 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 904H to James Ranch Unit DI 11 Ekalaka 122H Change BHL fr/2310'FNL & 50'FEL, Section 15-22S-30E to 2420'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\_122H\_NOI\_Attachments\_20211102090246.pdf

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|                                           |                                                                      |                                   |
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| Well Number: 904H                         | Type of Well: OIL WELL                                               | Allottee or Tribe Name:           |
| Lease Number: NMNM0002951A                | Unit or CA Name: JAMES RANCH                                         | Unit or CA Number: NMNM070965Z    |
| US Well Number:                           | Operator: XTO PERMIAN OPERATING LLC                                  |                                   |

Operator

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

|                                                  |                                  |
|--------------------------------------------------|----------------------------------|
| Operator Electronic Signature: STEPHANIE RABADUE | Signed on: NOV 02, 2021 09:02 AM |
| Name: XTO PERMIAN OPERATING LLC                  |                                  |
| Title: Regulatory Coordinator                    |                                  |
| Street Address: 500 W. Illinois St, Ste 100      |                                  |
| City: Midland                                    | State: TX                        |
| Phone: (432) 620-6714                            |                                  |
| Email address: STEPHANIE.RABADUE@EXXONMOBIL.COM  |                                  |

Field

|                      |        |      |
|----------------------|--------|------|
| Representative Name: |        |      |
| Street Address:      |        |      |
| City:                | State: | Zip: |
| Phone:               |        |      |
| Email address:       |        |      |

BLM Point of Contact

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

|                                                                                                                                                                              |                                                                          |                                                                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|-----------------------------------------------------------------|
| Form 3160-5<br>(June 2019)                                                                                                                                                   | UNITED STATES<br>DEPARTMENT OF THE INTERIOR<br>BUREAU OF LAND MANAGEMENT | FORM APPROVED<br>OMB No. 1004-0137<br>Expires: October 31, 2021 |
| <b>SUNDRY NOTICES AND REPORTS ON WELLS</b><br><i>Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.</i> |                                                                          | 5. Lease Serial No.                                             |
|                                                                                                                                                                              |                                                                          | 6. If Indian, Allottee or Tribe Name                            |
|                                                                                                                                                                              |                                                                          | 7. If Unit of CA/Agreement, Name and/or No.                     |

|                                                                                                                       |             |                                        |
|-----------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------------|
| <b>SUBMIT IN TRIPLICATE - Other instructions on page 2</b>                                                            |             | 8. Well Name and No.                   |
| 1. Type of Well<br><input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other |             | 9. API Well No.                        |
| 2. Name of Operator                                                                                                   | 3a. Address | 10. Field and Pool or Exploratory Area |
| 3b. Phone No. (include area code)                                                                                     |             | 11. Country or Parish, State           |
| 4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)                                                  |             |                                        |

|                                                                                      |                                               |                                               |                                                    |                                         |
|--------------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------------|----------------------------------------------------|-----------------------------------------|
| 12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA |                                               |                                               |                                                    |                                         |
| TYPE OF SUBMISSION                                                                   | TYPE OF ACTION                                |                                               |                                                    |                                         |
| <input type="checkbox"/> Notice of Intent                                            | <input type="checkbox"/> Acidize              | <input type="checkbox"/> Deepen               | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off |
| <input 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 type="checkbox"/> Other          |
|                                                                                      | <input type="checkbox"/> Change Plans         | <input type="checkbox"/> Plug and Abandon     | <input type="checkbox"/> Temporarily Abandon       |                                         |
|                                                                                      | <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Plug Back            | <input type="checkbox"/> Water Disposal            |                                         |

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be perfonned 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 detennined that the site is ready for final inspection.)

|                                                                                   |       |  |
|-----------------------------------------------------------------------------------|-------|--|
| 14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) |       |  |
|                                                                                   | Title |  |
| Signature                                                                         | Date  |  |

|                                                                                                                                                                                                                                                           |        |      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------|
| <b>THE SPACE FOR FEDERAL OR STATE OFFICE USE</b>                                                                                                                                                                                                          |        |      |
| Approved by                                                                                                                                                                                                                                               | Title  | Date |
| Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. | Office |      |

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)

## GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

## SPECIFIC INSTRUCTIONS

*Item 4* - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

*Item 13*: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

## NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

**BURDEN HOURS STATEMENT:** Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

## Additional Information

### Additional Remarks

Drilling Program

Directional Plan

Multibowl Diagram

### Location of Well

0. SHL: NWSE / 2335 FSL / 2366 FEL / TWSP: 22S / RANGE: 30E / SECTION: 17 / LAT: 32.391405 / LONG: -103.902622 ( TVD: 0 feet, MD: 0 feet )

PPP: SWNE / 2310 FNL / 2540 FEL / TWSP: 22S / RANGE: 30E / SECTION: 17 / LAT: 32.393142 / LONG: -103.903188 ( TVD: 10483 feet, MD: 10862 feet )

BHL: SENE / 2310 FNL / 50 FEL / TWSP: 22S / RANGE: 30E / SECTION: 15 / LAT: 32.393058 / LONG: -103.860404 ( TVD: 10483 feet, MD: 24069 feet )

## 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- 49034 | <sup>2</sup> Pool Code<br>98344                              | <sup>3</sup> Pool Name<br>WC 015 G08 S223017 K Wolfcamp |
| <sup>4</sup> Property Code               | <sup>5</sup> Property Name<br>JAMES RANCH UNIT DI 11 EKALAKA | <sup>6</sup> Well Number<br>122H                        |
| <sup>7</sup> OGRID No.<br>373075         | <sup>8</sup> Operator Name<br>XTO PERMIAN OPERATING, LLC.    | <sup>9</sup> Elevation<br>3,111'                        |

<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   |         | 2,335         | SOUTH            | 2,366         | 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 |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| I             | 15      | 22S      | 30E   |         | 2,420         | SOUTH            | 50            | EAST           | EDDY   |

|                                      |                               |                                  |                         |
|--------------------------------------|-------------------------------|----------------------------------|-------------------------|
| <sup>12</sup> Dedicated Acres<br>800 | <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.

|                                                                                                                                                                                                                                                                                                                                           |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <sup>16</sup>                                                                                                                                                                                                                                                                                                                             |  |  |  | <sup>17</sup> OPERATOR CERTIFICATION<br>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.<br>Signature: <u>Stephanie Rabadue</u> Date: <u>10/01/2021</u><br>Printed Name: <u>Stephanie Rabadue</u><br>E-mail Address: <u>stephanie.rabadue@exxonmobil.com</u> |  |
| <sup>18</sup> SURVEYOR CERTIFICATION<br>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.<br>Date of Survey: <u>9-30-2021</u><br>Signature and Seal of Professional Surveyor: |  |  |  | MARK DILLON HARP 23786<br>Certificate Number: <u>RM</u> 2019072059                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |

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

XTO Energy Inc.  
James Ranch Unit DI 11 Ekalaka U 122H  
Projected TD: 22816' MD / 10787' TVD  
SHL: 2335' FSL & 2366' FEL , Section 17, T22S, R30E  
BHL: 2420' FNL & 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            | 64'              | Water         |
| Top of Salt        | 687'             | Water         |
| Base of Salt       | 3194'            | Water         |
| Delaware           | 3422'            | Water         |
| Brushy Canyon      | 5983'            | Water/Oil/Gas |
| Bone Spring        | 7213'            | Water         |
| 1st Bone Spring Ss | 8168'            | Water/Oil/Gas |
| 2nd Bone Spring Ss | 8783'            | Water/Oil/Gas |
| 3rd Bone Spring Ss | 10162'           | Water/Oil/Gas |
| Wolfcamp           | 10527'           | Water/Oil/Gas |
| Wolfcamp X         | 10543'           | Water/Oil/Gas |
| Wolfcamp Y         | 10601'           | Water/Oil/Gas |
| Target/Land Curve  | 10627'           | 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 @ 662' (25' above the salt) and circulating cement back to surface. The salt will be isolated by setting 9.625 inch casing at 3294' 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 9638' and cementing to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 22816 MD/TD and 5.5 inch production casing will be set at TD and cemented back up to 2nd intermediate (estimated TOC 9138 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' – 662'       | 13.375 | 54.5   | J-55     | BTC          | New      | 2.77     | 3.86        | 23.64      |
| 12.25     | 0' – 3294'      | 9.625  | 40     | J-55     | BTC          | New      | 1.80     | 2.56        | 4.78       |
| 8.75      | 0' – 3394'      | 7.625  | 29.7   | RY P-110 | Flush Joint  | New      | 2.97     | 3.52        | 1.95       |
| 8.75      | 3394' – 9638'   | 7.625  | 29.7   | HC L-80  | Flush Joint  | New      | 2.16     | 3.76        | 2.19       |
| 6.75      | 0' – 9538'      | 5.5    | 23     | RY P-110 | Semi-Premium | New      | 1.21     | 2.96        | 2.09       |
| 6.75      | 9538' - 10300'  | 5.5    | 23     | RY P-110 | Semi-Flush   | New      | 1.21     | 2.74        | 4.66       |
| 6.75      | 10300' - 22816' | 5.5    | 23     | RY P-110 | Semi-Flush   | New      | 1.21     | 2.62        | 5.39       |

- 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 +/- 662'**

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 +/- 3294'**

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 +/- 9638'**

###### 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: 3094  
 Tail: 340 sxs Class C (mixed at 14.8 ppg, 1.35 ft<sup>3</sup>/sx, 6.39 gal/sx water)  
 TOC: Brushy Canyon @ 5983  
 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 (5983') 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 +/- 22816'**

Lead: 30 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft<sup>3</sup>/sx, 15.00 gal/sx water) Top of Cement: 9138 feet  
 Tail: 920 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft<sup>3</sup>/sx, 8.38 gal/sx water) Top of Cement: 9956 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 5M Hydril and a 13-5/8" minimum 5M Double Ram BOP. MASP should not exceed 3180 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, 5M bradenhead and flange, the BOP test will be limited to 5000 psi. When nipping up on the 7.625, the BOP 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.

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' - 662'       | 17.5      | FW/Native         | 8.5-9       | 35-40                 | NC                 |
| 662' - 3294'    | 12.25     | Brine             | 10-10.5     | 30-32                 | NC                 |
| 3294' to 9638'  | 8.75      | FW / Cut<br>Brine | 8.6-9.1     | 30-32                 | NC                 |
| 9638' to 22816' | 6.75      | OBM               | 9.9-10.4    | 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 170 to 190 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 5553 psi.

## 10. Anticipated Starting Date and Duration of Operations

Anticipated spud date will be after Remuda South 25 State drilling is completed and BLM approval. Move in operations and drilling is expected to take 40 days.

Well Plan Report - JRU DI11 Ekalaka 122H

|                                |                          |       |               |
|--------------------------------|--------------------------|-------|---------------|
| Measured Depth:                | 22816.00 ft              | Slot: | JRU DI 11-D24 |
| TVD RKB:                       | 10787.00 ft              |       |               |
| Location                       |                          |       |               |
| Cartographic Reference System: | New Mexico East - NAD 27 |       |               |
| Northing:                      | 506330.93 ft             |       |               |
| Easting:                       | 633102.12 ft             |       |               |
| RKB:                           | 3132.00 ft               |       |               |
| Ground Level:                  | 3102.00 ft               |       |               |
| North Reference:               | Grid                     |       |               |
| Convergence Angle:             | 0.23 Deg                 |       |               |

| Plan Sections JRU DI11 Ekalaka 122H |             |         |          |          |          |             |             |             |             |
|-------------------------------------|-------------|---------|----------|----------|----------|-------------|-------------|-------------|-------------|
| 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        |             |
| 3200.00                             | 0.00        | 0.00    | 3200.00  | -0.00    | 0.00     | 0.00        | 0.00        | 0.00        |             |
| 3686.96                             | 9.74        | 81.65   | 3684.61  | 5.99     | 40.85    | 2.00        | 0.00        | 2.00        |             |
| 6660.58                             | 9.74        | 81.65   | 6615.39  | 79.01    | 538.55   | 0.00        | 0.00        | 0.00        |             |
| 7147.54                             | 0.00        | 0.00    | 7100.00  | 85.00    | 579.40   | -2.00       | 0.00        | 2.00        |             |
| 9956.54                             | 0.00        | 0.00    | 9909.00  | 85.00    | 579.40   | 0.00        | 0.00        | 0.00        |             |
| 11081.53                            | 90.00       | 90.00   | 10625.20 | 85.00    | 1295.60  | 8.00        | 0.00        | 8.00        | Rev 2 FTP 2 |
| 22816.51                            | 88.42       | 89.75   | 10787.00 | 110.60   | 13029.05 | -0.01       | -0.00       | 0.01        | Rev 2 BHL 2 |

| Position Uncertainty JRU DI11 Ekalaka 122H |             |         |              |       |       |         |       |          |       |           |       |            |            |             |
|--------------------------------------------|-------------|---------|--------------|-------|-------|---------|-------|----------|-------|-----------|-------|------------|------------|-------------|
| Measured                                   |             |         | TVD Highside |       |       | Lateral |       | Vertical |       | Magnitude |       | Semi-major | Semi-minor | Semi-minor  |
| Depth                                      | Inclination | Azimuth | RKB          | Error | Bias  | Error   | Bias  | Error    | Bias  | of Bias   | Error | Error      | Azimuth    | Tool        |
| (ft)                                       | (°)         | (°)     | (ft)         | (ft)  | (ft)  | (ft)    | (ft)  | (ft)     | (ft)  | (ft)      | (ft)  | (ft)       | (°)        | Used        |
| 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 | 0.000 | 0.000  | 2900.000 | 10.872 | 0.000 | 10.872 | 0.000 | 4.179  | 0.000 | 0.000 | 11.332 | 10.392 | 135.000 | MWD+IFR1+MS |
| 3000.000 | 0.000 | 0.000  | 3000.000 | 11.234 | 0.000 | 11.234 | 0.000 | 4.294  | 0.000 | 0.000 | 11.695 | 10.753 | 135.000 | MWD+IFR1+MS |
| 3100.000 | 0.000 | 0.000  | 3100.000 | 11.593 | 0.000 | 11.593 | 0.000 | 4.412  | 0.000 | 0.000 | 12.055 | 11.112 | 135.000 | MWD+IFR1+MS |
| 3200.000 | 0.000 | 0.000  | 3200.000 | 11.950 | 0.000 | 11.950 | 0.000 | 4.533  | 0.000 | 0.000 | 12.413 | 11.468 | 135.000 | MWD+IFR1+MS |
| 3300.000 | 1.999 | 81.650 | 3299.980 | 12.502 | 0.000 | 12.154 | 0.000 | 4.656  | 0.000 | 0.000 | 12.795 | 11.853 | -42.280 | MWD+IFR1+MS |
| 3400.000 | 4.000 | 81.650 | 3399.838 | 13.019 | 0.000 | 12.503 | 0.000 | 4.782  | 0.000 | 0.000 | 13.224 | 12.314 | -35.065 | MWD+IFR1+MS |
| 3500.000 | 6.000 | 81.650 | 3499.452 | 13.510 | 0.000 | 12.850 | 0.000 | 4.912  | 0.000 | 0.000 | 13.673 | 12.737 | -28.309 | MWD+IFR1+MS |
| 3600.000 | 7.999 | 81.650 | 3598.702 | 13.974 | 0.000 | 13.199 | 0.000 | 5.048  | 0.000 | 0.000 | 14.134 | 13.135 | -22.722 | MWD+IFR1+MS |
| 3686.900 | 9.739 | 81.650 | 3684.615 | 14.318 | 0.000 | 13.495 | 0.000 | 5.166  | 0.000 | 0.000 | 14.505 | 13.454 | -19.576 | MWD+IFR1+MS |
| 3700.000 | 9.739 | 81.650 | 3697.471 | 14.362 | 0.000 | 13.539 | 0.000 | 5.182  | 0.000 | 0.000 | 14.550 | 13.499 | -19.514 | MWD+IFR1+MS |
| 3800.000 | 9.739 | 81.650 | 3796.030 | 14.678 | 0.000 | 13.880 | 0.000 | 5.318  | 0.000 | 0.000 | 14.860 | 13.841 | -19.370 | MWD+IFR1+MS |
| 3900.000 | 9.739 | 81.650 | 3894.589 | 15.006 | 0.000 | 14.229 | 0.000 | 5.458  | 0.000 | 0.000 | 15.178 | 14.196 | -18.738 | MWD+IFR1+MS |
| 4000.000 | 9.739 | 81.650 | 3993.147 | 15.340 | 0.000 | 14.576 | 0.000 | 5.602  | 0.000 | 0.000 | 15.502 | 14.549 | -17.966 | MWD+IFR1+MS |
| 4100.000 | 9.739 | 81.650 | 4091.706 | 15.673 | 0.000 | 14.929 | 0.000 | 5.748  | 0.000 | 0.000 | 15.827 | 14.906 | -17.302 | MWD+IFR1+MS |
| 4200.000 | 9.739 | 81.650 | 4190.265 | 16.006 | 0.000 | 15.280 | 0.000 | 5.897  | 0.000 | 0.000 | 16.152 | 15.261 | -16.617 | MWD+IFR1+MS |
| 4300.000 | 9.739 | 81.650 | 4288.824 | 16.345 | 0.000 | 15.633 | 0.000 | 6.049  | 0.000 | 0.000 | 16.482 | 15.618 | -15.859 | MWD+IFR1+MS |
| 4400.000 | 9.739 | 81.650 | 4387.383 | 16.683 | 0.000 | 15.988 | 0.000 | 6.204  | 0.000 | 0.000 | 16.813 | 15.976 | -15.142 | MWD+IFR1+MS |
| 4500.000 | 9.739 | 81.650 | 4485.942 | 17.023 | 0.000 | 16.341 | 0.000 | 6.362  | 0.000 | 0.000 | 17.146 | 16.332 | -14.355 | MWD+IFR1+MS |
| 4600.000 | 9.739 | 81.650 | 4584.500 | 17.365 | 0.000 | 16.698 | 0.000 | 6.522  | 0.000 | 0.000 | 17.481 | 16.692 | -13.605 | MWD+IFR1+MS |
| 4700.000 | 9.739 | 81.650 | 4683.059 | 17.710 | 0.000 | 17.054 | 0.000 | 6.686  | 0.000 | 0.000 | 17.819 | 17.049 | -12.794 | MWD+IFR1+MS |
| 4800.000 | 9.739 | 81.650 | 4781.618 | 18.056 | 0.000 | 17.411 | 0.000 | 6.852  | 0.000 | 0.000 | 18.159 | 17.408 | -11.969 | MWD+IFR1+MS |
| 4900.000 | 9.739 | 81.650 | 4880.177 | 18.401 | 0.000 | 17.767 | 0.000 | 7.021  | 0.000 | 0.000 | 18.498 | 17.765 | -11.137 | MWD+IFR1+MS |
| 5000.000 | 9.739 | 81.650 | 4978.736 | 18.748 | 0.000 | 18.124 | 0.000 | 7.192  | 0.000 | 0.000 | 18.840 | 18.123 | -10.296 | MWD+IFR1+MS |
| 5100.000 | 9.739 | 81.650 | 5077.294 | 19.097 | 0.000 | 18.485 | 0.000 | 7.367  | 0.000 | 0.000 | 19.184 | 18.485 | -9.484  | MWD+IFR1+MS |
| 5200.000 | 9.739 | 81.650 | 5175.853 | 19.447 | 0.000 | 18.842 | 0.000 | 7.544  | 0.000 | 0.000 | 19.529 | 18.842 | -8.595  | MWD+IFR1+MS |
| 5300.000 | 9.739 | 81.650 | 5274.412 | 19.799 | 0.000 | 19.202 | 0.000 | 7.723  | 0.000 | 0.000 | 19.877 | 19.202 | -7.739  | MWD+IFR1+MS |
| 5400.000 | 9.739 | 81.650 | 5372.971 | 20.150 | 0.000 | 19.561 | 0.000 | 7.906  | 0.000 | 0.000 | 20.223 | 19.561 | -6.879  | MWD+IFR1+MS |
| 5500.000 | 9.739 | 81.650 | 5471.530 | 20.502 | 0.000 | 19.921 | 0.000 | 8.091  | 0.000 | 0.000 | 20.572 | 19.920 | -6.019  | MWD+IFR1+MS |
| 5600.000 | 9.739 | 81.650 | 5570.089 | 20.856 | 0.000 | 20.282 | 0.000 | 8.279  | 0.000 | 0.000 | 20.922 | 20.280 | -5.160  | MWD+IFR1+MS |
| 5700.000 | 9.739 | 81.650 | 5668.647 | 21.211 | 0.000 | 20.644 | 0.000 | 8.469  | 0.000 | 0.000 | 21.273 | 20.641 | -4.302  | MWD+IFR1+MS |
| 5800.000 | 9.739 | 81.650 | 5767.206 | 21.567 | 0.000 | 21.005 | 0.000 | 8.663  | 0.000 | 0.000 | 21.626 | 21.000 | -3.434  | MWD+IFR1+MS |
| 5900.000 | 9.739 | 81.650 | 5865.765 | 21.922 | 0.000 | 21.369 | 0.000 | 8.859  | 0.000 | 0.000 | 21.979 | 21.362 | -2.597  | MWD+IFR1+MS |
| 6000.000 | 9.739 | 81.650 | 5964.324 | 22.280 | 0.000 | 21.729 | 0.000 | 9.058  | 0.000 | 0.000 | 22.334 | 21.720 | -1.743  | MWD+IFR1+MS |
| 6100.000 | 9.739 | 81.650 | 6062.883 | 22.637 | 0.000 | 22.092 | 0.000 | 9.259  | 0.000 | 0.000 | 22.689 | 22.082 | -0.915  | MWD+IFR1+MS |
| 6200.000 | 9.739 | 81.650 | 6161.442 | 22.996 | 0.000 | 22.456 | 0.000 | 9.463  | 0.000 | 0.000 | 23.046 | 22.443 | -0.096  | MWD+IFR1+MS |
| 6300.000 | 9.739 | 81.650 | 6260.000 | 23.353 | 0.000 | 22.818 | 0.000 | 9.669  | 0.000 | 0.000 | 23.401 | 22.803 | 0.714   | MWD+IFR1+MS |
| 6400.000 | 9.739 | 81.650 | 6358.559 | 23.713 | 0.000 | 23.182 | 0.000 | 9.878  | 0.000 | 0.000 | 23.760 | 23.164 | 1.506   | MWD+IFR1+MS |
| 6500.000 | 9.739 | 81.650 | 6457.118 | 24.073 | 0.000 | 23.544 | 0.000 | 10.090 | 0.000 | 0.000 | 24.117 | 23.524 | 2.281   | MWD+IFR1+MS |
| 6600.000 | 9.739 | 81.650 | 6555.677 | 24.433 | 0.000 | 23.909 | 0.000 | 10.300 | 0.000 | 0.000 | 24.476 | 23.886 | 3.047   | MWD+IFR1+MS |
| 6660.500 | 9.739 | 81.650 | 6615.385 | 24.648 | 0.000 | 24.126 | 0.000 | 10.436 | 0.000 | 0.000 | 24.690 | 24.102 | 3.257   | MWD+IFR1+MS |
| 6700.000 | 8.949 | 81.650 | 6654.280 | 24.813 | 0.000 | 24.267 | 0.000 | 10.521 | 0.000 | 0.000 | 24.829 | 24.243 | 3.329   | MWD+IFR1+MS |
| 6800.000 | 6.950 | 81.650 | 6753.313 | 25.259 | 0.000 | 24.626 | 0.000 | 10.742 | 0.000 | 0.000 | 25.233 | 24.598 | 3.659   | MWD+IFR1+MS |
| 6900.000 | 4.950 | 81.650 | 6852.769 | 25.728 | 0.000 | 24.987 | 0.000 | 10.968 | 0.000 | 0.000 | 25.690 | 24.952 | 4.111   | MWD+IFR1+MS |

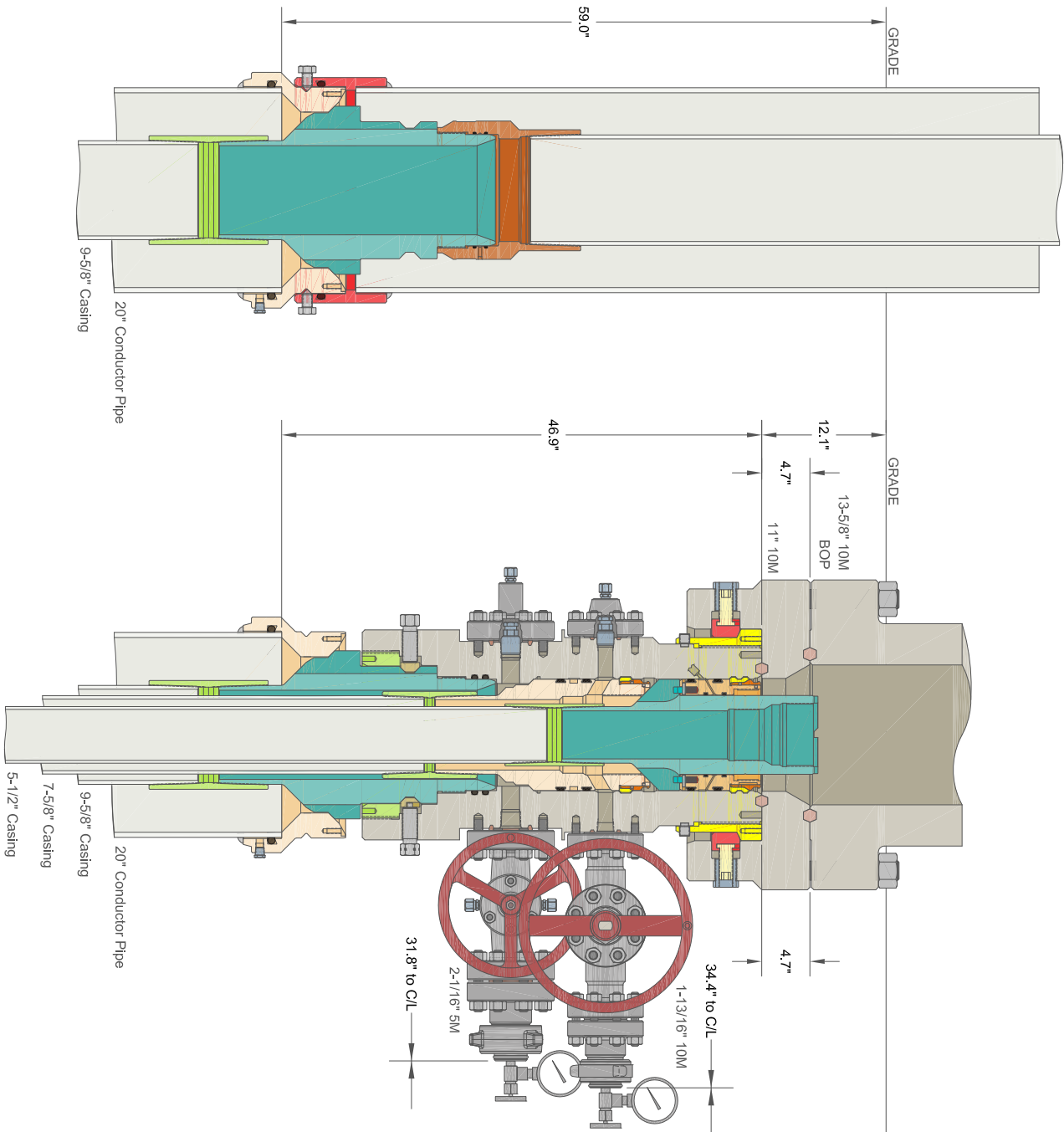
|           |        |        |           |        |       |        |       |        |       |       |        |        |        |             |
|-----------|--------|--------|-----------|--------|-------|--------|-------|--------|-------|-------|--------|--------|--------|-------------|
| 7000.000  | 2.950  | 81.650 | 6952.527  | 26.165 | 0.000 | 25.345 | 0.000 | 11.189 | 0.000 | 0.000 | 26.143 | 25.303 | 4.427  | MWD+IFR1+MS |
| 7100.000  | 0.951  | 81.650 | 7052.464  | 26.570 | 0.000 | 25.701 | 0.000 | 11.411 | 0.000 | 0.000 | 26.590 | 25.653 | 4.677  | MWD+IFR1+MS |
| 7147.500  | 0.000  | 0.000  | 7100.000  | 25.824 | 0.000 | 26.749 | 0.000 | 11.515 | 0.000 | 0.000 | 26.755 | 25.818 | 4.516  | MWD+IFR1+MS |
| 7200.000  | 0.000  | 0.000  | 7152.462  | 26.008 | 0.000 | 26.924 | 0.000 | 11.632 | 0.000 | 0.000 | 26.930 | 26.002 | 4.470  | MWD+IFR1+MS |
| 7300.000  | 0.000  | 0.000  | 7252.462  | 26.355 | 0.000 | 27.258 | 0.000 | 11.857 | 0.000 | 0.000 | 27.263 | 26.350 | 4.258  | MWD+IFR1+MS |
| 7400.000  | 0.000  | 0.000  | 7352.462  | 26.708 | 0.000 | 27.597 | 0.000 | 12.087 | 0.000 | 0.000 | 27.601 | 26.704 | 3.870  | MWD+IFR1+MS |
| 7500.000  | 0.000  | 0.000  | 7452.462  | 27.059 | 0.000 | 27.937 | 0.000 | 12.317 | 0.000 | 0.000 | 27.941 | 27.056 | 3.472  | MWD+IFR1+MS |
| 7600.000  | 0.000  | 0.000  | 7552.462  | 27.410 | 0.000 | 28.275 | 0.000 | 12.550 | 0.000 | 0.000 | 28.278 | 27.407 | 3.078  | MWD+IFR1+MS |
| 7700.000  | 0.000  | 0.000  | 7652.462  | 27.761 | 0.000 | 28.616 | 0.000 | 12.787 | 0.000 | 0.000 | 28.618 | 27.760 | 2.675  | MWD+IFR1+MS |
| 7800.000  | 0.000  | 0.000  | 7752.462  | 28.114 | 0.000 | 28.957 | 0.000 | 13.027 | 0.000 | 0.000 | 28.958 | 28.113 | 2.276  | MWD+IFR1+MS |
| 7900.000  | 0.000  | 0.000  | 7852.462  | 28.466 | 0.000 | 29.298 | 0.000 | 13.270 | 0.000 | 0.000 | 29.299 | 28.465 | 1.871  | MWD+IFR1+MS |
| 8000.000  | 0.000  | 0.000  | 7952.462  | 28.818 | 0.000 | 29.640 | 0.000 | 13.513 | 0.000 | 0.000 | 29.640 | 28.818 | 1.468  | MWD+IFR1+MS |
| 8100.000  | 0.000  | 0.000  | 8052.462  | 29.172 | 0.000 | 29.982 | 0.000 | 13.762 | 0.000 | 0.000 | 29.982 | 29.172 | 1.064  | MWD+IFR1+MS |
| 8200.000  | 0.000  | 0.000  | 8152.462  | 29.523 | 0.000 | 30.323 | 0.000 | 14.014 | 0.000 | 0.000 | 30.323 | 29.523 | 0.655  | MWD+IFR1+MS |
| 8300.000  | 0.000  | 0.000  | 8252.462  | 29.876 | 0.000 | 30.666 | 0.000 | 14.269 | 0.000 | 0.000 | 30.666 | 29.876 | 0.247  | MWD+IFR1+MS |
| 8400.000  | 0.000  | 0.000  | 8352.462  | 30.229 | 0.000 | 31.010 | 0.000 | 14.526 | 0.000 | 0.000 | 31.010 | 30.229 | -0.163 | MWD+IFR1+MS |
| 8500.000  | 0.000  | 0.000  | 8452.462  | 30.583 | 0.000 | 31.353 | 0.000 | 14.785 | 0.000 | 0.000 | 31.353 | 30.583 | -0.573 | MWD+IFR1+MS |
| 8600.000  | 0.000  | 0.000  | 8552.462  | 30.935 | 0.000 | 31.686 | 0.000 | 15.050 | 0.000 | 0.000 | 31.686 | 30.935 | -0.998 | MWD+IFR1+MS |
| 8700.000  | 0.000  | 0.000  | 8652.462  | 31.289 | 0.000 | 32.031 | 0.000 | 15.317 | 0.000 | 0.000 | 32.032 | 31.289 | -1.414 | MWD+IFR1+MS |
| 8800.000  | 0.000  | 0.000  | 8752.462  | 31.639 | 0.000 | 32.373 | 0.000 | 15.585 | 0.000 | 0.000 | 32.374 | 31.638 | -1.830 | MWD+IFR1+MS |
| 8900.000  | 0.000  | 0.000  | 8852.462  | 31.984 | 0.000 | 32.726 | 0.000 | 15.856 | 0.000 | 0.000 | 32.727 | 31.983 | -2.197 | MWD+IFR1+MS |
| 9000.000  | 0.000  | 0.000  | 8952.462  | 32.342 | 0.000 | 33.061 | 0.000 | 16.131 | 0.000 | 0.000 | 33.062 | 32.340 | -2.657 | MWD+IFR1+MS |
| 9100.000  | 0.000  | 0.000  | 9052.462  | 32.696 | 0.000 | 33.407 | 0.000 | 16.410 | 0.000 | 0.000 | 33.409 | 32.693 | -3.070 | MWD+IFR1+MS |
| 9200.000  | 0.000  | 0.000  | 9152.462  | 33.045 | 0.000 | 33.764 | 0.000 | 16.691 | 0.000 | 0.000 | 33.766 | 33.043 | -3.410 | MWD+IFR1+MS |
| 9300.000  | 0.000  | 0.000  | 9252.462  | 33.407 | 0.000 | 34.103 | 0.000 | 16.974 | 0.000 | 0.000 | 34.106 | 33.403 | -3.892 | MWD+IFR1+MS |
| 9400.000  | 0.000  | 0.000  | 9352.462  | 33.764 | 0.000 | 34.453 | 0.000 | 17.263 | 0.000 | 0.000 | 34.457 | 33.760 | -4.300 | MWD+IFR1+MS |
| 9500.000  | 0.000  | 0.000  | 9452.462  | 34.117 | 0.000 | 34.799 | 0.000 | 17.553 | 0.000 | 0.000 | 34.804 | 34.113 | -4.707 | MWD+IFR1+MS |
| 9600.000  | 0.000  | 0.000  | 9552.462  | 34.467 | 0.000 | 35.143 | 0.000 | 17.844 | 0.000 | 0.000 | 35.148 | 34.462 | -5.111 | MWD+IFR1+MS |
| 9700.000  | 0.000  | 0.000  | 9652.462  | 34.828 | 0.000 | 35.482 | 0.000 | 18.141 | 0.000 | 0.000 | 35.489 | 34.822 | -5.630 | MWD+IFR1+MS |
| 9800.000  | 0.000  | 0.000  | 9752.462  | 35.171 | 0.000 | 35.833 | 0.000 | 18.439 | 0.000 | 0.000 | 35.840 | 35.164 | -5.914 | MWD+IFR1+MS |
| 9900.000  | 0.000  | 0.000  | 9852.462  | 35.525 | 0.000 | 36.180 | 0.000 | 18.743 | 0.000 | 0.000 | 36.188 | 35.516 | -6.312 | MWD+IFR1+MS |
| 9956.500  | 0.000  | 0.000  | 9909.000  | 35.735 | 0.000 | 36.373 | 0.000 | 18.913 | 0.000 | 0.000 | 36.381 | 35.727 | -6.515 | MWD+IFR1+MS |
| 10000.000 | 3.476  | 90.000 | 9952.435  | 36.586 | 0.000 | 35.875 | 0.000 | 19.047 | 0.000 | 0.000 | 36.546 | 35.867 | -6.256 | MWD+IFR1+MS |
| 10100.000 | 11.470 | 90.000 | 10051.505 | 37.272 | 0.000 | 36.235 | 0.000 | 19.383 | 0.000 | 0.000 | 37.471 | 36.234 | -1.533 | MWD+IFR1+MS |
| 10200.000 | 19.470 | 90.000 | 10147.800 | 37.983 | 0.000 | 36.592 | 0.000 | 19.837 | 0.000 | 0.000 | 38.859 | 36.592 | 1.010  | MWD+IFR1+MS |
| 10300.000 | 27.470 | 90.000 | 10239.448 | 38.171 | 0.000 | 36.946 | 0.000 | 20.460 | 0.000 | 0.000 | 40.103 | 36.942 | 1.941  | MWD+IFR1+MS |
| 10400.000 | 35.470 | 90.000 | 10324.663 | 37.870 | 0.000 | 37.283 | 0.000 | 21.284 | 0.000 | 0.000 | 41.165 | 37.275 | 2.474  | MWD+IFR1+MS |
| 10500.000 | 43.470 | 90.000 | 10401.789 | 37.157 | 0.000 | 37.603 | 0.000 | 22.320 | 0.000 | 0.000 | 42.046 | 37.591 | 2.860  | MWD+IFR1+MS |
| 10600.000 | 51.470 | 90.000 | 10469.322 | 36.106 | 0.000 | 37.921 | 0.000 | 23.552 | 0.000 | 0.000 | 42.723 | 37.905 | 3.210  | MWD+IFR1+MS |
| 10700.000 | 59.470 | 90.000 | 10525.950 | 34.848 | 0.000 | 38.210 | 0.000 | 24.946 | 0.000 | 0.000 | 43.227 | 38.190 | 3.532  | MWD+IFR1+MS |
| 10800.000 | 67.470 | 90.000 | 10570.570 | 33.515 | 0.000 | 38.484 | 0.000 | 26.459 | 0.000 | 0.000 | 43.553 | 38.459 | 3.864  | MWD+IFR1+MS |
| 10900.000 | 75.470 | 90.000 | 10602.313 | 32.284 | 0.000 | 38.730 | 0.000 | 28.037 | 0.000 | 0.000 | 43.752 | 38.701 | 4.180  | MWD+IFR1+MS |
| 11000.000 | 83.470 | 90.000 | 10620.561 | 31.338 | 0.000 | 38.962 | 0.000 | 29.629 | 0.000 | 0.000 | 43.835 | 38.930 | 4.492  | MWD+IFR1+MS |
| 11081.000 | 90.000 | 90.000 | 10625.197 | 30.525 | 0.000 | 39.115 | 0.000 | 30.525 | 0.000 | 0.000 | 43.859 | 39.081 | 4.679  | MWD+IFR1+MS |
| 11100.000 | 90.000 | 90.000 | 10625.197 | 30.558 | 0.000 | 39.154 | 0.000 | 30.558 | 0.000 | 0.000 | 43.860 | 39.119 | 4.725  | MWD+IFR1+MS |
| 11200.000 | 89.980 | 89.980 | 10625.214 | 30.711 | 0.000 | 39.345 | 0.000 | 30.707 | 0.000 | 0.000 | 43.884 | 39.309 | 4.943  | MWD+IFR1+MS |
| 11300.000 | 89.970 | 89.980 | 10625.253 | 30.884 | 0.000 | 39.560 | 0.000 | 30.877 | 0.000 | 0.000 | 43.898 | 39.522 | 5.221  | MWD+IFR1+MS |
| 11400.000 | 89.950 | 89.980 | 10625.316 | 31.079 | 0.000 | 39.787 | 0.000 | 31.068 | 0.000 | 0.000 | 43.912 | 39.746 | 5.537  | MWD+IFR1+MS |
| 11500.000 | 89.940 | 89.980 | 10625.403 | 31.290 | 0.000 | 40.025 | 0.000 | 31.276 | 0.000 | 0.000 | 43.937 | 39.981 | 5.885  | MWD+IFR1+MS |
| 11600.000 | 89.930 | 89.980 | 10625.513 | 31.519 | 0.000 | 40.287 | 0.000 | 31.502 | 0.000 | 0.000 | 43.952 | 40.239 | 6.331  | MWD+IFR1+MS |
| 11700.000 | 89.910 | 89.980 | 10625.647 | 31.754 | 0.000 | 40.559 | 0.000 | 31.733 | 0.000 | 0.000 | 43.979 | 40.507 | 6.833  | MWD+IFR1+MS |
| 11800.000 | 89.900 | 89.980 | 10625.804 | 32.023 | 0.000 | 40.854 | 0.000 | 32.000 | 0.000 | 0.000 | 44.007 | 40.797 | 7.462  | MWD+IFR1+MS |
| 11900.000 | 89.880 | 89.980 | 10625.984 | 32.307 | 0.000 | 41.159 | 0.000 | 32.280 | 0.000 | 0.000 | 44.024 | 41.096 | 8.259  | MWD+IFR1+MS |

|           |        |        |           |        |       |        |       |        |       |       |        |        |        |             |
|-----------|--------|--------|-----------|--------|-------|--------|-------|--------|-------|-------|--------|--------|--------|-------------|
| 12000.000 | 89.870 | 89.980 | 10626.188 | 32.602 | 0.000 | 41.473 | 0.000 | 32.573 | 0.000 | 0.000 | 44.055 | 41.403 | 9.219  | MWD+IFR1+MS |
| 12100.000 | 89.860 | 89.970 | 10626.416 | 32.925 | 0.000 | 41.798 | 0.000 | 32.894 | 0.000 | 0.000 | 44.087 | 41.717 | 10.440 | MWD+IFR1+MS |
| 12200.000 | 89.840 | 89.970 | 10626.667 | 33.247 | 0.000 | 42.143 | 0.000 | 33.211 | 0.000 | 0.000 | 44.123 | 42.049 | 12.104 | MWD+IFR1+MS |
| 12300.000 | 89.830 | 89.970 | 10626.942 | 33.594 | 0.000 | 42.498 | 0.000 | 33.556 | 0.000 | 0.000 | 44.164 | 42.385 | 14.378 | MWD+IFR1+MS |
| 12400.000 | 89.810 | 89.970 | 10627.240 | 33.954 | 0.000 | 42.872 | 0.000 | 33.912 | 0.000 | 0.000 | 44.225 | 42.733 | 17.619 | MWD+IFR1+MS |
| 12500.000 | 89.800 | 89.950 | 10627.561 | 34.337 | 0.000 | 43.256 | 0.000 | 34.293 | 0.000 | 0.000 | 44.292 | 43.072 | 22.629 | MWD+IFR1+MS |
| 12600.000 | 89.790 | 89.950 | 10627.907 | 34.716 | 0.000 | 43.647 | 0.000 | 34.670 | 0.000 | 0.000 | 44.389 | 43.389 | 30.330 | MWD+IFR1+MS |
| 12700.000 | 89.780 | 89.950 | 10628.275 | 35.119 | 0.000 | 44.046 | 0.000 | 35.071 | 0.000 | 0.000 | 44.548 | 43.663 | 40.952 | MWD+IFR1+MS |
| 12800.000 | 89.760 | 89.950 | 10628.667 | 35.534 | 0.000 | 44.464 | 0.000 | 35.482 | 0.000 | 0.000 | 44.787 | 43.865 | 53.539 | MWD+IFR1+MS |
| 12900.000 | 89.750 | 89.950 | 10629.083 | 35.956 | 0.000 | 44.890 | 0.000 | 35.903 | 0.000 | 0.000 | 45.108 | 44.003 | 63.387 | MWD+IFR1+MS |
| 13000.000 | 89.730 | 89.950 | 10629.522 | 36.403 | 0.000 | 45.333 | 0.000 | 36.346 | 0.000 | 0.000 | 45.489 | 44.088 | 70.285 | MWD+IFR1+MS |
| 13100.000 | 89.720 | 89.950 | 10629.985 | 36.856 | 0.000 | 45.783 | 0.000 | 36.797 | 0.000 | 0.000 | 45.903 | 44.158 | 74.581 | MWD+IFR1+MS |
| 13200.000 | 89.700 | 89.950 | 10630.471 | 37.318 | 0.000 | 46.239 | 0.000 | 37.256 | 0.000 | 0.000 | 46.336 | 44.215 | 77.462 | MWD+IFR1+MS |
| 13300.000 | 89.700 | 89.950 | 10630.980 | 37.785 | 0.000 | 46.702 | 0.000 | 37.723 | 0.000 | 0.000 | 46.783 | 44.265 | 79.487 | MWD+IFR1+MS |
| 13400.000 | 89.680 | 89.950 | 10631.513 | 38.262 | 0.000 | 47.181 | 0.000 | 38.197 | 0.000 | 0.000 | 47.250 | 44.311 | 81.008 | MWD+IFR1+MS |
| 13500.000 | 89.670 | 89.940 | 10632.070 | 38.758 | 0.000 | 47.666 | 0.000 | 38.691 | 0.000 | 0.000 | 47.726 | 44.353 | 82.159 | MWD+IFR1+MS |
| 13600.000 | 89.660 | 89.940 | 10632.650 | 39.260 | 0.000 | 48.167 | 0.000 | 39.192 | 0.000 | 0.000 | 48.220 | 44.394 | 83.078 | MWD+IFR1+MS |
| 13700.000 | 89.640 | 89.940 | 10633.254 | 39.771 | 0.000 | 48.673 | 0.000 | 39.699 | 0.000 | 0.000 | 48.720 | 44.445 | 83.792 | MWD+IFR1+MS |
| 13800.000 | 89.630 | 89.940 | 10633.881 | 40.285 | 0.000 | 49.184 | 0.000 | 40.212 | 0.000 | 0.000 | 49.227 | 44.483 | 84.389 | MWD+IFR1+MS |
| 13900.000 | 89.620 | 89.930 | 10634.531 | 40.817 | 0.000 | 49.710 | 0.000 | 40.743 | 0.000 | 0.000 | 49.748 | 44.521 | 84.895 | MWD+IFR1+MS |
| 14000.000 | 89.590 | 89.930 | 10635.205 | 41.359 | 0.000 | 50.240 | 0.000 | 41.280 | 0.000 | 0.000 | 50.275 | 44.569 | 85.310 | MWD+IFR1+MS |
| 14100.000 | 89.590 | 89.930 | 10635.903 | 41.900 | 0.000 | 50.775 | 0.000 | 41.821 | 0.000 | 0.000 | 50.807 | 44.605 | 85.670 | MWD+IFR1+MS |
| 14200.000 | 89.580 | 89.930 | 10636.624 | 42.447 | 0.000 | 51.314 | 0.000 | 42.367 | 0.000 | 0.000 | 51.344 | 44.652 | 85.975 | MWD+IFR1+MS |
| 14300.000 | 89.560 | 89.930 | 10637.369 | 43.013 | 0.000 | 51.866 | 0.000 | 42.930 | 0.000 | 0.000 | 51.894 | 44.699 | 86.244 | MWD+IFR1+MS |
| 14400.000 | 89.550 | 89.920 | 10638.137 | 43.581 | 0.000 | 52.432 | 0.000 | 43.497 | 0.000 | 0.000 | 52.458 | 44.746 | 86.485 | MWD+IFR1+MS |
| 14500.000 | 89.530 | 89.920 | 10638.928 | 44.155 | 0.000 | 52.992 | 0.000 | 44.068 | 0.000 | 0.000 | 53.016 | 44.792 | 86.693 | MWD+IFR1+MS |
| 14600.000 | 89.520 | 89.920 | 10639.744 | 44.731 | 0.000 | 53.564 | 0.000 | 44.643 | 0.000 | 0.000 | 53.587 | 44.838 | 86.883 | MWD+IFR1+MS |
| 14700.000 | 89.510 | 89.920 | 10640.582 | 45.322 | 0.000 | 54.140 | 0.000 | 45.233 | 0.000 | 0.000 | 54.161 | 44.884 | 87.050 | MWD+IFR1+MS |
| 14800.000 | 89.480 | 89.920 | 10641.444 | 45.908 | 0.000 | 54.728 | 0.000 | 45.815 | 0.000 | 0.000 | 54.748 | 44.930 | 87.205 | MWD+IFR1+MS |
| 14900.000 | 89.480 | 89.910 | 10642.330 | 46.504 | 0.000 | 55.319 | 0.000 | 46.411 | 0.000 | 0.000 | 55.337 | 44.975 | 87.343 | MWD+IFR1+MS |
| 15000.000 | 89.470 | 89.910 | 10643.239 | 47.104 | 0.000 | 55.912 | 0.000 | 47.011 | 0.000 | 0.000 | 55.930 | 45.021 | 87.469 | MWD+IFR1+MS |
| 15100.000 | 89.450 | 89.910 | 10644.172 | 47.720 | 0.000 | 56.517 | 0.000 | 47.624 | 0.000 | 0.000 | 56.534 | 45.077 | 87.583 | MWD+IFR1+MS |
| 15200.000 | 89.440 | 89.910 | 10645.128 | 48.336 | 0.000 | 57.124 | 0.000 | 48.239 | 0.000 | 0.000 | 57.140 | 45.122 | 87.688 | MWD+IFR1+MS |
| 15300.000 | 89.430 | 89.910 | 10646.107 | 48.945 | 0.000 | 57.733 | 0.000 | 48.847 | 0.000 | 0.000 | 57.749 | 45.178 | 87.784 | MWD+IFR1+MS |
| 15400.000 | 89.410 | 89.900 | 10647.110 | 49.578 | 0.000 | 58.354 | 0.000 | 49.477 | 0.000 | 0.000 | 58.368 | 45.234 | 87.873 | MWD+IFR1+MS |
| 15500.000 | 89.400 | 89.900 | 10648.137 | 50.201 | 0.000 | 58.976 | 0.000 | 50.100 | 0.000 | 0.000 | 58.990 | 45.279 | 87.956 | MWD+IFR1+MS |
| 15600.000 | 89.390 | 89.900 | 10649.187 | 50.837 | 0.000 | 59.600 | 0.000 | 50.735 | 0.000 | 0.000 | 59.613 | 45.335 | 88.032 | MWD+IFR1+MS |
| 15700.000 | 89.370 | 89.900 | 10650.261 | 51.466 | 0.000 | 60.234 | 0.000 | 51.361 | 0.000 | 0.000 | 60.247 | 45.390 | 88.103 | MWD+IFR1+MS |
| 15800.000 | 89.360 | 89.890 | 10651.358 | 52.105 | 0.000 | 60.870 | 0.000 | 52.000 | 0.000 | 0.000 | 60.882 | 45.446 | 88.169 | MWD+IFR1+MS |
| 15900.000 | 89.340 | 89.890 | 10652.478 | 52.758 | 0.000 | 61.508 | 0.000 | 52.650 | 0.000 | 0.000 | 61.519 | 45.501 | 88.231 | MWD+IFR1+MS |
| 16000.000 | 89.330 | 89.890 | 10653.622 | 53.400 | 0.000 | 62.155 | 0.000 | 53.292 | 0.000 | 0.000 | 62.166 | 45.557 | 88.289 | MWD+IFR1+MS |
| 16100.000 | 89.310 | 89.890 | 10654.790 | 54.055 | 0.000 | 62.803 | 0.000 | 53.944 | 0.000 | 0.000 | 62.814 | 45.623 | 88.342 | MWD+IFR1+MS |
| 16200.000 | 89.310 | 89.890 | 10655.981 | 54.708 | 0.000 | 63.452 | 0.000 | 54.599 | 0.000 | 0.000 | 63.463 | 45.678 | 88.393 | MWD+IFR1+MS |
| 16300.000 | 89.290 | 89.880 | 10657.196 | 55.366 | 0.000 | 64.111 | 0.000 | 55.254 | 0.000 | 0.000 | 64.121 | 45.733 | 88.441 | MWD+IFR1+MS |
| 16400.000 | 89.280 | 89.880 | 10658.434 | 56.032 | 0.000 | 64.771 | 0.000 | 55.920 | 0.000 | 0.000 | 64.780 | 45.799 | 88.486 | MWD+IFR1+MS |
| 16500.000 | 89.270 | 89.880 | 10659.695 | 56.691 | 0.000 | 65.431 | 0.000 | 56.577 | 0.000 | 0.000 | 65.440 | 45.865 | 88.528 | MWD+IFR1+MS |
| 16600.000 | 89.250 | 89.880 | 10660.980 | 57.361 | 0.000 | 66.100 | 0.000 | 57.245 | 0.000 | 0.000 | 66.109 | 45.919 | 88.569 | MWD+IFR1+MS |
| 16700.000 | 89.230 | 89.880 | 10662.289 | 58.040 | 0.000 | 66.770 | 0.000 | 57.922 | 0.000 | 0.000 | 66.779 | 45.985 | 88.607 | MWD+IFR1+MS |
| 16800.000 | 89.230 | 89.870 | 10663.621 | 58.708 | 0.000 | 67.441 | 0.000 | 58.592 | 0.000 | 0.000 | 67.449 | 46.050 | 88.642 | MWD+IFR1+MS |
| 16900.000 | 89.200 | 89.870 | 10664.977 | 59.391 | 0.000 | 68.119 | 0.000 | 59.271 | 0.000 | 0.000 | 68.127 | 46.116 | 88.676 | MWD+IFR1+MS |
| 17000.000 | 89.200 | 89.870 | 10666.356 | 60.061 | 0.000 | 68.799 | 0.000 | 59.942 | 0.000 | 0.000 | 68.806 | 46.181 | 88.709 | MWD+IFR1+MS |
| 17100.000 | 89.180 | 89.870 | 10667.758 | 60.751 | 0.000 | 69.478 | 0.000 | 60.630 | 0.000 | 0.000 | 69.486 | 46.246 | 88.740 | MWD+IFR1+MS |
| 17200.000 | 89.170 | 89.860 | 10669.184 | 61.433 | 0.000 | 70.166 | 0.000 | 61.311 | 0.000 | 0.000 | 70.173 | 46.311 | 88.769 | MWD+IFR1+MS |
| 17300.000 | 89.160 | 89.860 | 10670.634 | 62.114 | 0.000 | 70.854 | 0.000 | 61.992 | 0.000 | 0.000 | 70.861 | 46.387 | 88.796 | MWD+IFR1+MS |

|           |        |        |           |         |       |         |       |         |       |       |         |        |        |             |
|-----------|--------|--------|-----------|---------|-------|---------|-------|---------|-------|-------|---------|--------|--------|-------------|
| 17400.000 | 89.140 | 89.860 | 10672.107 | 62.806  | 0.000 | 71.542  | 0.000 | 62.682  | 0.000 | 0.000 | 71.549  | 46.452 | 88.823 | MWD+IFR1+MS |
| 17500.000 | 89.130 | 89.860 | 10673.604 | 63.497  | 0.000 | 72.238  | 0.000 | 63.372  | 0.000 | 0.000 | 72.244  | 46.516 | 88.849 | MWD+IFR1+MS |
| 17600.000 | 89.120 | 89.860 | 10675.124 | 64.196  | 0.000 | 72.933  | 0.000 | 64.070  | 0.000 | 0.000 | 72.940  | 46.592 | 88.873 | MWD+IFR1+MS |
| 17700.000 | 89.090 | 89.840 | 10676.667 | 64.890  | 0.000 | 73.636  | 0.000 | 64.761  | 0.000 | 0.000 | 73.642  | 46.667 | 88.896 | MWD+IFR1+MS |
| 17800.000 | 89.090 | 89.840 | 10678.234 | 65.588  | 0.000 | 74.333  | 0.000 | 65.460  | 0.000 | 0.000 | 74.338  | 46.731 | 88.918 | MWD+IFR1+MS |
| 17900.000 | 89.080 | 89.840 | 10679.825 | 66.287  | 0.000 | 75.042  | 0.000 | 66.159  | 0.000 | 0.000 | 75.048  | 46.806 | 88.939 | MWD+IFR1+MS |
| 18000.000 | 89.060 | 89.840 | 10681.439 | 66.988  | 0.000 | 75.745  | 0.000 | 66.858  | 0.000 | 0.000 | 75.751  | 46.881 | 88.959 | MWD+IFR1+MS |
| 18100.000 | 89.050 | 89.840 | 10683.077 | 67.688  | 0.000 | 76.455  | 0.000 | 67.557  | 0.000 | 0.000 | 76.460  | 46.956 | 88.979 | MWD+IFR1+MS |
| 18200.000 | 89.040 | 89.840 | 10684.738 | 68.395  | 0.000 | 77.164  | 0.000 | 68.264  | 0.000 | 0.000 | 77.170  | 47.030 | 88.998 | MWD+IFR1+MS |
| 18300.000 | 89.020 | 89.840 | 10686.422 | 69.104  | 0.000 | 77.874  | 0.000 | 68.971  | 0.000 | 0.000 | 77.879  | 47.105 | 89.015 | MWD+IFR1+MS |
| 18400.000 | 89.010 | 89.840 | 10688.130 | 69.811  | 0.000 | 78.590  | 0.000 | 69.678  | 0.000 | 0.000 | 78.595  | 47.179 | 89.033 | MWD+IFR1+MS |
| 18500.000 | 89.000 | 89.840 | 10689.862 | 70.526  | 0.000 | 79.305  | 0.000 | 70.392  | 0.000 | 0.000 | 79.310  | 47.264 | 89.049 | MWD+IFR1+MS |
| 18600.000 | 88.980 | 89.830 | 10691.617 | 71.234  | 0.000 | 80.027  | 0.000 | 71.099  | 0.000 | 0.000 | 80.032  | 47.338 | 89.065 | MWD+IFR1+MS |
| 18700.000 | 88.970 | 89.830 | 10693.395 | 71.948  | 0.000 | 80.743  | 0.000 | 71.812  | 0.000 | 0.000 | 80.747  | 47.423 | 89.080 | MWD+IFR1+MS |
| 18800.000 | 88.950 | 89.830 | 10695.197 | 72.663  | 0.000 | 81.464  | 0.000 | 72.526  | 0.000 | 0.000 | 81.468  | 47.496 | 89.095 | MWD+IFR1+MS |
| 18900.000 | 88.940 | 89.830 | 10697.023 | 73.377  | 0.000 | 82.191  | 0.000 | 73.239  | 0.000 | 0.000 | 82.195  | 47.581 | 89.109 | MWD+IFR1+MS |
| 19000.000 | 88.930 | 89.830 | 10698.872 | 74.098  | 0.000 | 82.918  | 0.000 | 73.959  | 0.000 | 0.000 | 82.922  | 47.665 | 89.122 | MWD+IFR1+MS |
| 19100.000 | 88.920 | 89.810 | 10700.744 | 74.818  | 0.000 | 83.645  | 0.000 | 74.679  | 0.000 | 0.000 | 83.649  | 47.749 | 89.135 | MWD+IFR1+MS |
| 19200.000 | 88.900 | 89.810 | 10702.641 | 75.539  | 0.000 | 84.371  | 0.000 | 75.399  | 0.000 | 0.000 | 84.375  | 47.832 | 89.148 | MWD+IFR1+MS |
| 19300.000 | 88.890 | 89.810 | 10704.560 | 76.259  | 0.000 | 85.102  | 0.000 | 76.118  | 0.000 | 0.000 | 85.106  | 47.916 | 89.160 | MWD+IFR1+MS |
| 19400.000 | 88.870 | 89.810 | 10706.503 | 76.980  | 0.000 | 85.834  | 0.000 | 76.837  | 0.000 | 0.000 | 85.837  | 47.999 | 89.172 | MWD+IFR1+MS |
| 19500.000 | 88.860 | 89.810 | 10708.470 | 77.706  | 0.000 | 86.570  | 0.000 | 77.563  | 0.000 | 0.000 | 86.574  | 48.083 | 89.184 | MWD+IFR1+MS |
| 19600.000 | 88.840 | 89.810 | 10710.460 | 78.432  | 0.000 | 87.301  | 0.000 | 78.288  | 0.000 | 0.000 | 87.304  | 48.166 | 89.194 | MWD+IFR1+MS |
| 19700.000 | 88.830 | 89.810 | 10712.473 | 79.158  | 0.000 | 88.042  | 0.000 | 79.013  | 0.000 | 0.000 | 88.046  | 48.259 | 89.205 | MWD+IFR1+MS |
| 19800.000 | 88.810 | 89.810 | 10714.510 | 79.890  | 0.000 | 88.777  | 0.000 | 79.743  | 0.000 | 0.000 | 88.781  | 48.342 | 89.215 | MWD+IFR1+MS |
| 19900.000 | 88.810 | 89.810 | 10716.571 | 80.613  | 0.000 | 89.518  | 0.000 | 80.467  | 0.000 | 0.000 | 89.521  | 48.435 | 89.225 | MWD+IFR1+MS |
| 20000.000 | 88.790 | 89.800 | 10718.655 | 81.345  | 0.000 | 90.258  | 0.000 | 81.197  | 0.000 | 0.000 | 90.261  | 48.528 | 89.235 | MWD+IFR1+MS |
| 20100.000 | 88.780 | 89.800 | 10720.762 | 82.074  | 0.000 | 91.003  | 0.000 | 81.927  | 0.000 | 0.000 | 91.006  | 48.610 | 89.244 | MWD+IFR1+MS |
| 20200.000 | 88.770 | 89.800 | 10722.893 | 82.804  | 0.000 | 91.741  | 0.000 | 82.656  | 0.000 | 0.000 | 91.744  | 48.703 | 89.253 | MWD+IFR1+MS |
| 20300.000 | 88.750 | 89.800 | 10725.047 | 83.540  | 0.000 | 92.490  | 0.000 | 83.391  | 0.000 | 0.000 | 92.493  | 48.795 | 89.262 | MWD+IFR1+MS |
| 20400.000 | 88.730 | 89.800 | 10727.225 | 84.276  | 0.000 | 93.233  | 0.000 | 84.125  | 0.000 | 0.000 | 93.236  | 48.887 | 89.270 | MWD+IFR1+MS |
| 20500.000 | 88.730 | 89.790 | 10729.427 | 85.009  | 0.000 | 93.981  | 0.000 | 84.859  | 0.000 | 0.000 | 93.984  | 48.979 | 89.278 | MWD+IFR1+MS |
| 20600.000 | 88.700 | 89.790 | 10731.652 | 85.745  | 0.000 | 94.729  | 0.000 | 85.592  | 0.000 | 0.000 | 94.731  | 49.081 | 89.286 | MWD+IFR1+MS |
| 20700.000 | 88.700 | 89.790 | 10733.900 | 86.483  | 0.000 | 95.480  | 0.000 | 86.331  | 0.000 | 0.000 | 95.483  | 49.173 | 89.294 | MWD+IFR1+MS |
| 20800.000 | 88.690 | 89.790 | 10736.172 | 87.216  | 0.000 | 96.226  | 0.000 | 87.063  | 0.000 | 0.000 | 96.229  | 49.264 | 89.301 | MWD+IFR1+MS |
| 20900.000 | 88.670 | 89.790 | 10738.468 | 87.955  | 0.000 | 96.982  | 0.000 | 87.801  | 0.000 | 0.000 | 96.985  | 49.366 | 89.309 | MWD+IFR1+MS |
| 21000.000 | 88.660 | 89.780 | 10740.787 | 88.693  | 0.000 | 97.732  | 0.000 | 88.538  | 0.000 | 0.000 | 97.734  | 49.457 | 89.316 | MWD+IFR1+MS |
| 21100.000 | 88.650 | 89.780 | 10743.129 | 89.435  | 0.000 | 98.486  | 0.000 | 89.280  | 0.000 | 0.000 | 98.489  | 49.558 | 89.322 | MWD+IFR1+MS |
| 21200.000 | 88.630 | 89.780 | 10745.495 | 90.178  | 0.000 | 99.240  | 0.000 | 90.022  | 0.000 | 0.000 | 99.242  | 49.659 | 89.329 | MWD+IFR1+MS |
| 21300.000 | 88.620 | 89.780 | 10747.884 | 90.915  | 0.000 | 99.998  | 0.000 | 90.758  | 0.000 | 0.000 | 100.000 | 49.759 | 89.335 | MWD+IFR1+MS |
| 21400.000 | 88.610 | 89.780 | 10750.297 | 91.661  | 0.000 | 100.750 | 0.000 | 91.504  | 0.000 | 0.000 | 100.752 | 49.860 | 89.341 | MWD+IFR1+MS |
| 21500.000 | 88.590 | 89.770 | 10752.734 | 92.403  | 0.000 | 101.492 | 0.000 | 92.244  | 0.000 | 0.000 | 101.494 | 49.960 | 89.347 | MWD+IFR1+MS |
| 21600.000 | 88.580 | 89.770 | 10755.194 | 93.143  | 0.000 | 102.228 | 0.000 | 92.984  | 0.000 | 0.000 | 102.230 | 50.060 | 89.353 | MWD+IFR1+MS |
| 21700.000 | 88.560 | 89.770 | 10757.677 | 93.888  | 0.000 | 103.008 | 0.000 | 93.728  | 0.000 | 0.000 | 103.010 | 50.160 | 89.359 | MWD+IFR1+MS |
| 21800.000 | 88.550 | 89.770 | 10760.184 | 94.633  | 0.000 | 103.782 | 0.000 | 94.472  | 0.000 | 0.000 | 103.783 | 50.269 | 89.364 | MWD+IFR1+MS |
| 21900.000 | 88.540 | 89.760 | 10762.714 | 95.382  | 0.000 | 104.550 | 0.000 | 95.221  | 0.000 | 0.000 | 104.551 | 50.368 | 89.370 | MWD+IFR1+MS |
| 22000.000 | 88.520 | 89.760 | 10765.268 | 96.126  | 0.000 | 105.312 | 0.000 | 95.964  | 0.000 | 0.000 | 105.314 | 50.478 | 89.375 | MWD+IFR1+MS |
| 22100.000 | 88.510 | 89.760 | 10767.846 | 96.873  | 0.000 | 106.069 | 0.000 | 96.711  | 0.000 | 0.000 | 106.071 | 50.577 | 89.380 | MWD+IFR1+MS |
| 22200.000 | 88.500 | 89.760 | 10770.446 | 97.621  | 0.000 | 106.821 | 0.000 | 97.458  | 0.000 | 0.000 | 106.822 | 50.685 | 89.385 | MWD+IFR1+MS |
| 22300.000 | 88.480 | 89.760 | 10773.071 | 98.368  | 0.000 | 107.567 | 0.000 | 98.204  | 0.000 | 0.000 | 107.569 | 50.793 | 89.389 | MWD+IFR1+MS |
| 22400.000 | 88.470 | 89.750 | 10775.719 | 99.114  | 0.000 | 108.354 | 0.000 | 98.949  | 0.000 | 0.000 | 108.356 | 50.902 | 89.394 | MWD+IFR1+MS |
| 22500.000 | 88.450 | 89.750 | 10778.390 | 99.865  | 0.000 | 109.090 | 0.000 | 99.700  | 0.000 | 0.000 | 109.092 | 51.010 | 89.398 | MWD+IFR1+MS |
| 22600.000 | 88.440 | 89.750 | 10781.085 | 100.615 | 0.000 | 109.867 | 0.000 | 100.449 | 0.000 | 0.000 | 109.868 | 51.117 | 89.403 | MWD+IFR1+MS |

|           |        |        |           |         |       |         |       |         |       |       |         |        |        |             |
|-----------|--------|--------|-----------|---------|-------|---------|-------|---------|-------|-------|---------|--------|--------|-------------|
| 22700.000 | 88.430 | 89.750 | 10783.803 | 101.359 | 0.000 | 110.638 | 0.000 | 101.193 | 0.000 | 0.000 | 110.639 | 51.225 | 89.407 | MWD+IFR1+MS |
| 22800.000 | 88.420 | 89.750 | 10786.545 | 102.098 | 0.000 | 111.403 | 0.000 | 101.931 | 0.000 | 0.000 | 111.405 | 51.332 | 89.412 | MWD+IFR1+MS |
| 22816.000 | 88.410 | 89.730 | 10787.000 | 102.197 | 0.000 | 111.538 | 0.000 | 102.029 | 0.000 | 0.000 | 111.539 | 51.351 | 89.413 | MWD+IFR1+MS |

| Plan Targets  |  | JRU DI11 Ekalaka 122H |               |              |         |              |  |  |  |
|---------------|--|-----------------------|---------------|--------------|---------|--------------|--|--|--|
|               |  | Measured Depth        | Grid Northing | Grid Easting | TVD MSL | Target Shape |  |  |  |
| Target Name   |  | (ft)                  | (ft)          | (ft)         | (ft)    |              |  |  |  |
| Kick Off Pt 2 |  | 10804.70              | 505647.10     | 633204.80    | 6731.80 | CIRCLE       |  |  |  |
| FTP 2         |  | 11377.36              | 505647.10     | 633921.00    | 7448.00 | RECTANGLE    |  |  |  |
| Rev 2 FTP 2   |  | 11090.23              | 506415.90     | 634398.50    | 7484.00 | CIRCLE       |  |  |  |
| Rev 2 BHL 2   |  | 22826.00              | 506441.50     | 646131.15    | 7645.00 | CIRCLE       |  |  |  |
| BHL 2         |  | 23614.25              | 505670.59     | 646134.72    | 7448.00 | 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 400037

CONDITIONS

|                                                                                            |                                                          |
|--------------------------------------------------------------------------------------------|----------------------------------------------------------|
| Operator:<br><br>XTO PERMIAN OPERATING LLC.<br>6401 HOLIDAY HILL ROAD<br>MIDLAND, TX 79707 | OGRID:<br><br>373075                                     |
|                                                                                            | Action Number:<br><br>400037                             |
|                                                                                            | Action Type:<br><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     |