

U.S. Department of the Interior BUREAU OF LAND MANAGEMENT Sundry Print Repor

County or Parish/State: EDDY /

Well Name: JRU APACHE U FEDERAL Well Location: T22S / R30E / SEC 24 /

NENE / 32.383801 / -103.828919 COM

Well Number: 708H Type of Well: OIL WELL Allottee or Tribe Name:

Lease Number: NMNM89051 **Unit or CA Name: Unit or CA Number:**

US Well Number: Operator: XTO PERMIAN OPERATING

LLC

Notice of Intent

Sundry ID: 2834135

Type of Submission: Notice of Intent Type of Action: APD Change

Date Sundry Submitted: 01/28/2025 **Time Sundry Submitted: 11:08**

Date proposed operation will begin: 02/07/2025

Procedure Description: JRU APACHE U FEDERAL COM 708H APD ID# 10400081579 SUNDRY LANGUAGE XTO Permian Operating, LLC. respectfully requests approval to make the following changes to the approved APD. Changes to include SHL, KOP, FTP, LTP, BHL, casing design, cement program, mud circulation system and proposed total depth. FROM: TO: SHL: 381' FNL & 1029' FEL OF SECTION 24-T22S-R30E 380' FNL & 949' FEL OF SECTION 24-T22S-R30E KOP: 381' FNL & 1029' FEL OF SECTION 24-T22S-R30E 610' FNL & 330' FEL OF SECTION 24-T22S-R30E FTP: 330' FSL & 330' FEL OF SECTION 13-T22S-R30E 610' FNL & 330' FEL OF SECTION 24-T22S-R30E LTP: 330' FSL & 2540' FEL OF SECTION 14-T22S-R30E 610' FNL & 2579' FEL OF SECTION 23-T22S-R30E BHL: 330' FSL & 2590' FEL OF SECTION 14-T22S-R30E 610' FNL & 2629' FEL OF SECTION 23-T22S-R30E The proposed total depth is changing from 17703' MD/9532' TVD to 17185.75' MD/9809' TVD There are no changes requested to the facilities/surface usage that was approved along with the APD. See attached drilling program for the updated casing design, cement program and the mud circulation system. Attachments: C-102, Drilling Program, Directional Plan, Choke Manifold Diagram, BOP Diagram, Spec documents for Non-API Casing, MBS diagram, Well Bore Diagram.

NOI Attachments

Procedure Description

Sundry_Attachments___James_Ranch_Unit_Apache_708H_20250128110802.pdf

Name: JRU APACHE U FEDERAL Well Location: T22S / R30E / SEC 24 /

COM

NENE / 32.383801 / -103.828919

County or Parish/State: Page 2 of

Well Number: 708H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM89051

Unit or CA Name:

Unit or CA Number:

US Well Number:

Operator: XTO PERMIAN OPERATING

Conditions of Approval

Additional

JRU_Apache_U_Fed_Com_708H_COA_20250226165351.pdf

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: SRINIVAS LAGHUVARAPU Signed on: JAN 28, 2025 09:34 AM

Name: XTO PERMIAN OPERATING LLC

Title: REGULATORY ANALYST

Street Address: 22777 SPRINGWOODS VILLAGE PARKWAY

City: SPRING State: TX

Phone: (720) 539-1673

Email address: SRINIVAS.N.LAGHUVARAPU@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: 02/28/2025

Signature: Chris Walls

Page 2 of 2

Form 3160-5 (June 2019)

UNITED STATES DEPARTMENT OF THE INTERIOR

| FORM APPROVED |
|---------------------------|
| OMB No. 1004-0137 |
| Expires: October 31, 2021 |

| BURI | EAU OF LAND MANAGEMENT | 5. Lease Serial No. | | | |
|--|--|--|---|--|--|
| Do not use this f | OTICES AND REPORTS ON Worm for proposals to drill or to Use Form 3160-3 (APD) for suc | o re-enter an | 6. If Indian, Allottee or Tribe Name | | |
| SUBMIT IN 1 | TRIPLICATE - Other instructions on pag | ne 2 | 7. If Unit of CA/Agreement, Name and/or No. | | |
| 1. Type of Well Oil Well Gas W | /ell Other | | 8. Well Name and No. | | |
| 2. Name of Operator | | | 9. API Well No. | | |
| 3a. Address | 3b. Phone No. | (include area code) | 10. Field and Pool or Explora | tory Area | |
| 4. Location of Well (Footage, Sec., T.,R | .,M., or Survey Description) | 11. Country or Parish, State | | | |
| 12. CHE | CK THE APPROPRIATE BOX(ES) TO IN | DICATE NATURE (| DF NOTICE, REPORT OR OTI | HER DATA | |
| TYPE OF SUBMISSION | | TYPI | E OF ACTION | | |
| Notice of Intent | Acidize Deep Alter Casing Hydr | oen raulic Fracturing | Production (Start/Resume) Reclamation | Water Shut-Off Well Integrity | |
| Subsequent Report | | Construction and Abandon | Recomplete Temporarily Abandon | Other | |
| Final Abandonment Notice | | Back | Water Disposal | | |
| is ready for final inspection.) | | | | | |
| 14. I hereby certify that the foregoing is | true and correct. Name (Printed/Typed) | TOTAL STATE OF THE | | | |
| | | Title | | | |
| Signature | | Date | | | |
| | THE SPACE FOR FED | ERAL OR STA | TE OFICE USE | | |
| Approved by | | | | | |
| | | Title | | Date | |
| | ned. Approval of this notice does not warrar equitable title to those rights in the subject led duct operations thereon. | | | | |
| | 3 U.S.C Section 1212, make it a crime for a ents or representations as to any matter with | | and willfully to make to any do | epartment or agency of the United States | |

(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, 3162.3-4.

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

(Form 3160-5, page 2)

Additional Information

Additional Remarks

LTP: 330' FSL & 2540' FEL OF SECTION 14-T22S-R30E 610' FNL & 2579' FEL OF SECTION 23-T22S-R30E BHL: 330' FSL & 2590' FEL OF SECTION 14-T22S-R30E 610' FNL & 2629' FEL OF SECTION 23-T22S-R30E

The proposed total depth is changing from 17703 MD/9532 TVD to 17185.75 MD/9809 TVD

There are no changes requested to the facilities/surface usage that was approved along with the APD.

See attached drilling program for the updated casing design, cement program and the mud circulation system.

Attachments: C-102, Drilling Program, Directional Plan, Choke Manifold Diagram, BOP Diagram, Spec documents for Non-API Casing, MBS diagram, Well Bore Diagram.

Location of Well

0. SHL: NENE / 381 FNL / 1029 FEL / TWSP: 22S / RANGE: 30E / SECTION: 24 / LAT: 32.383801 / LONG: -103.828919 (TVD: 0 feet, MD: 0 feet) PPP: SWSW / 332 FSL / 1334 FWL / TWSP: 22S / RANGE: 30E / SECTION: 13 / LAT: 32.385773 / LONG: -103.838557 (TVD: 9572 feet, MD: 14200 feet) PPP: SESE / 330 FSL / 330 FEL / TWSP: 22S / RANGE: 30E / SECTION: 13 / LAT: 32.385754 / LONG: -103.826654 (TVD: 9617 feet, MD: 10200 feet) BHL: SWSE / 330 FSL / 2590 FEL / TWSP: 22S / RANGE: 30E / SECTION: 14 / LAT: 32.385791 / LONG: -103.85127 (TVD: 9532 feet, MD: 17703 feet)

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: XTO
LEASE NO.: NMNM89051
LOCATION: Sec. 24, T.22 S, R 30 E

COUNTY: Eddy County, New Mexico

WELL NAME & NO.: JRU Apache U Fed Com 708H
SURFACE HOLE FOOTAGE: 380'/N & 949'/E
BOTTOM HOLE FOOTAGE: 610'/N & 2629'/E

Changes approved through engineering via **Sundry 2834135**____ on _2-26-2025__. Any previous COAs not addressed within the updated COAs still apply.

COA

| H_2S | • | No | 0 | Yes |
|-------------------|-----------------------|--------------------------|------------------|--------------------|
| Potash / | O None | Secretary | ⊙ R-111-Q | Open Annulus |
| WIPP | 3-String D | esign: Open Production C | Casing Annulus | ✓ WIPP |
| Cave / Karst | • Low | Medium | O High | Critical |
| Wellhead | Conventional | • Multibowl | O Both | O Diverter |
| Cementing | ☐ Primary Squeeze | ☐ Cont. Squeeze | ☐ EchoMeter | ☐ DV Tool |
| Special Req | ☐ Capitan Reef | ☐ Water Disposal | ▼ COM | ☐ Unit |
| Waste Prev. | © Self-Certification | C Waste Min. Plan | APD Submitted p | rior to 06/10/2024 |
| Additional | | Casing Clearance | ☐ Pilot Hole | Break Testing |
| Language | \square Four-String | Offline Cementing | ☐ Fluid-Filled | |

A. HYDROGEN SULFIDE

Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet 43 CFR 3176 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

APD is within the R-111-Q defined boundary. Operator must follow all procedures and requirements listed within the updated order.

B. CASING

- 1. The 9-5/8 inch surface casing shall be set at approximately 673 feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of <u>8 hours</u> or <u>500 pounds compressive strength</u>, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The minimum required fill of cement behind the **7-5/8** inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, or potash.
- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back 500 feet into the previous casing but not higher than USGS
 Marker Bed No. 126. Operator must verify top of cement per R-111-Q requirements.
 Submit results to the BLM. If cement does not circulate, contact the appropriate BLM office. Operator shall provide method of verification.
 - ❖ A monitored open annulus will be incorporated during completion by leaving the Intermediate Casing x Production Casing annulus un-cemented and monitored inside the Intermediate String. Operator must follow monitoring requirements listed within R-111-Q. Tieback requirements shall be met within 180 days.

C. PRESSURE CONTROL

- 1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).
 - 2. Operator has proposed a multi-bowl wellhead assembly. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000** (**5M**) psi.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one-inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172 must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in 43 CFR 3171 and 3172.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

WIPP Requirements

The proposed surface well or bottom hole is located within 330 feet of the WIPP Land Withdrawal Area boundary. As a result, the operator is required to submit daily drilling reports, logs and deviation survey information to the Bureau of Land Management Engineering Department and the U.S. Department of Energy per requirements of the Joint Powers Agreement until a total vertical depth of 7,000 feet is reached. These reports will have at a minimum, the depth of any excess mud returns (brine flows), the rate of penetration and a clearly marked

section showing the deviation for each 500-foot interval. Operator may be required to do more frequent deviation surveys based on the daily information submitted and may be required to take other corrective measures. Information will also be provided to the New Mexico Oil Conservation Division after drilling activities have been completed. Upon completion of the well, the operator shall submit a complete directional survey. Any future entry into the well for purposes of completing additional drilling will require supplemental information.

Any oil and gas well operator drilling within one mile of the WIPP Boundary must notify WIPP as soon as possible if any of the following conditions are encountered during oil and gas operations: R-111-Q Amendment - Notification to Operators (Potash)

- a) Indication of any well collision event,
- b) Suspected well fluid flow (oil, gas, or produced water) outside of casing,
- c) Sustained annulus pressure between the 1st intermediate and next innermost casing string in excess of 500 psi above the baseline pressure of the well, or above 1500 psi total,
- d) Increasing pressure buildup rates (psi/day) across multiple successive bleed-off cycles on the annulus between the 1st intermediate and next innermost casing during well production, or
- e) Sustained losses in excess of 50% through the salt formation during drilling.

The operator can email the required information to OilGasReports@wipp.ws. Attached files must not be greater than 20 MB. Call WIPP Tech Support at 575-234-7422, during the hours 7:00am to 4:30pm, if there are any issues sending to this address.

BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for intervals utilizing a 5M BOPE or less. (Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP.)
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer (575-706-2779) prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted Choose an item. 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per **43 CFR 3172**.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

Offline Cementing

Contact the BLM prior to the commencement of any offline cementing procedure.

Engineer may elect to vary this language. Speak with Chris about implementing changes and whether that change seems reasonable.

Casing Clearance

String does not meet 0.422" clearance requirement per 43 CFR 3172. Cement tieback requirement increased 100' for Choose an item. casing tieback. Operator may contact approving engineer to discuss changing casing set depth or grade to meet clearance requirement. Engineer may elect to vary this language. Speak with Chris about implementing changes and whether that change seems reasonable.

Casing Clearance

String does not meet 0.422" clearance requirement per 43 CFR 3172. Cement tieback requirement increased 100' for Choose an item. casing tieback. Operator may contact approving engineer to discuss changing casing set depth or grade to meet clearance requirement.

GENERAL REQUIREMENTS

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

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

Contact Eddy County Petroleum Engineering Inspection Staff:

Email or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220; **BLM_NM_CFO_DrillingNotifications@BLM.GOV**; (575) 361-2822

- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - i. Notify the BLM when moving in and removing the Spudder Rig.
 - ii. Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - iii. BOP/BOPE test to be conducted per **43 CFR 3172** as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

A. CASING

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

- 2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-Q potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in 43 CFR 3172.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's

- requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - ii. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - iii. Manufacturer representative shall install the test plug for the initial BOP test.
 - iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
 - v. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - i. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - ii. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve

- open. (only applies to single stage cement jobs, prior to the cement setting up.)
- iii. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- iv. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- v. The results of the test shall be reported to the appropriate BLM office.
- vi. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- vii. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- viii. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per 43 CFR 3172.

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

Approved by Zota Stevens on 2/26/2025 575-234-5998 / zstevens@blm.gov

| C | ת |
|---|--------|
| ₹ | |
| _ | 1 |
| 2 | į |
| 7 | - |
| | |
| C |) |
| ш | ļ |
| Ħ | |
| Ç |) |
| Δ | • |
| ₫ | 7 |
| | |
| I | - |
| 000 | 5 |
| \sim | |
| / | _ |
| Ç |) |
| 2 | : |
| 5 | , |
| Í | |
| 708 |) |
| 2 |) |
| 1. | • |
| -1 | |
| | |
| 36 |) |
| 17 | , |
| _ | _ |
| v |) |
| = | 5 |
| ⋠ | |
| 7 | _ |
| \succeq | |
| FIN | ן נ |
| FD | ı |
| | • |
| - 1 | |
| _ | |
| \subseteq |) |
| ш | J |
| _ | |
| \overline{C} | 5 |
| ⋖ | |
| Δ, | |
| | 2 |
| ⋖ | |
| _ | |
| 1 | |
| _ |) |
| 1 |) |
| 1 | |
| 1 |) |
| 1 - 01 /+! |) |
| Unit \ 10 - 7 | |
| 4 - 01 / tinii 4 | |
| 1 - 01 /tiuli | · |
| 4 - 01 / Init / 10 - 7 | ` |
| Ranch Unit/ 10 - 7 | |
| Ranch Unit/ 10 - 7 | |
| es Ranch Init 10 - 1 | |
| Ranch Unit/ 10 - 7 | |
| es Ranch Init 10 - 1 | |
| 1 - 01 /tinll House | |
| 1 - 01 /tinll House | |
| 1 - 01 /tinll House | |
| 1007 James Ranch Unit 10 - 1 | |
| 1007 James Ranch Unit 10 - 1 | |
| 4 - 01 /tiull dannes Ranch 11nit/ 10 - 4 | |
| 4 - 01 /tiull dannes Ranch 11nit/ 10 - 4 | |
| 1 - 01 /tin11 dans Ranch 1011/10 - 1 | |
| 4 - 01 /tin11 Hongs Rangl, 200/MN - vp | |
| 4 - 01 /tiull dannes Ranch 11nit/ 10 - 4 | (6) |
| neray - NM\002 James Ranch Unit\10 - 7 | |
| neray - NM\002 James Ranch Unit\10 - 7 | (6) |
| neray - NM\002 James Ranch Unit\10 - 7 | |
| neray - NM\002 James Ranch Unit\10 - 7 | |
| 0 Fnergy - NM\002 .lames Ranch Unit/ 10 - 4 | |
| XTO Frency - NM\002 James Ranch Unit/ 10 - 4 | |
| 13 XTO Frency — NM\002 James Ranch Unit\10 — 4 | |
| 013 XTO Final V $\sim NM \setminus 0.02$, James Ranch Unit $\setminus 1.0$ $= 1.0$ | |
| 013 XTO Final V $\sim NM \setminus 0.02$, James Ranch Unit $\setminus 1.0$ $= 1.0$ | |
| 18 013 XTO Frency - NM/002 James Ranch Unit/10 - 7 | |
| /618 013 XTO Frency — NM/002 James Ranch Unit/ 10 — 7 | |
| 18 013 XTO Frency - NM/002 James Ranch Unit/10 - 7 | |
| P:/618 013 XTO Frency - NM/002 James Ranch Unit/10 - 7 | |
| P:/618 013 XTO Frency - NM/002 James Ranch Unit/10 - 7 | |
| P:/618 013 XTO Frency - NM/002 James Ranch Unit/10 - 7 | |

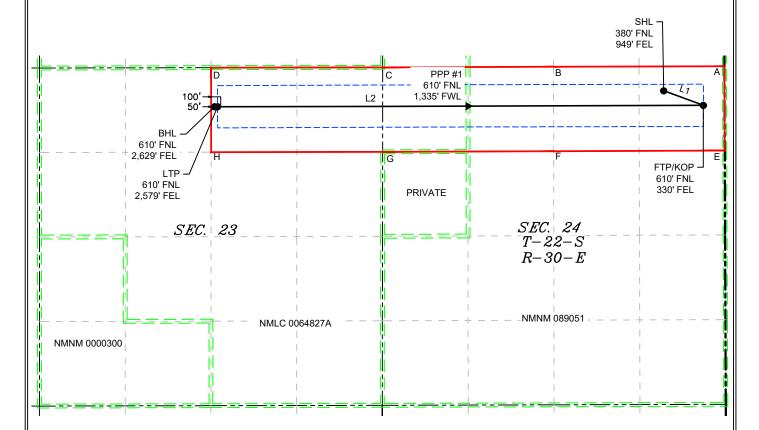
| | 2 electronically D Permitting | | State of New Mexico Energy, Minerals & Natural Resources Department OIL CONVERSION DIVISION | | | | | | 1 | evised July, 09 2024 |
|--|--|--|--|--|--------------------|--|--|--|--|--|
| | | | | | | | | Submital | ☐ Initial Subi | |
| | | | | | | | | Туре: | ☐ As Drilled | керогі |
| | | | | | | | | | As Dillied | |
| API Nu | ımber | | Pool Code | | | Pool Name | | | | |
| | 30-01 | 5- | | 402 | | | Medanos; | Bone Sp | ring | |
| Propert | y Code | | Property Name JRU Apache | | | U Federal Com | | | Well Number | 708H |
| OGRID | No. 37307 | '5 | Operator Name XTO PERMIA | | | N OPERATING, LLO | D. | | Ground Level | Elevation |
| Surface | Owner: S | tate Fee | Tribal ⊠ Fe | deral | | Mineral Owner: □State □Fee □Tribal ☑Federal | | | | |
| | | | | | | L | | | | |
| TT. |] a .: | T 1: | D | T -4 | | e Hole Location | I r viv 1 | т. | 5-1 | Country |
| UL | Section | Township | Range | Lot | Ft. from N/S | Ft. from E/W | Latitude | | ongitude | County |
| Α | 24 | 22\$ | 30E | | 380 FNL | 949 FEL | 32.383 | 805 -1 | 103.828660 | EDDY |
| | T | T | - | 1. | | Hole Location | T | 1 - | | |
| UL _ | Section | Township | Range | Lot | Ft. from N/S | Ft. from E/W | Latitude | | ongitude | County |
| В | 23 | 22\$ | 30E | | 610 FNL | 2,629 FEL | 32.383 | 3208 -1 | 103.851405 | EDDY |
| | ted Acres | Infill or Defi | ning Well | Defining | Well API | Overlapping Spacing V | Unit (Y/N) | Consolidation | on Code | |
| Order N | Numbers. | | R-279-C | | | Well Setbacks are und | er Common O | wnership: | ¥Yes □No | |
| | | | | | | 1 | | | | |
| | Ι | I | T., | T | 1 | off Point (KOP) | I | | | _ |
| UL | Section | Township | Range | Lot | Ft. from N/S | Ft. from E/W | Latitude | | ongitude | County |
| Α | 24 | 22\$ | 30E | | 610 FNL | 330 FEL | 32.383 | 3170 -1 | 103.826655 | EDDY |
| | | 1 | | | 1 | ake Point (FTP) | | | | Г |
| UL | Section | Township | Range | Lot | Ft. from N/S | Ft. from E/W | Latitude | | ongitude | County |
| Α | 24 | 22\$ | 30E | | 610 FNL | 330 FEL | 32.383 | 3170 -1 | 03.826655 | EDDY |
| | | 1 | _ | 1 - | 1 | ake Point (LTP) | 1 | | | Γ |
| UL | Section | Township | Range | Lot | Ft. from N/S | Ft. from E/W | Latitude | L | ongitude | County |
| В | 23 | 22\$ | 30E | | C10 ENI | | | | | |
| | | | | | 610 FNL | 2,579 FEL | 32.383 | 208 -1 | 03.851243 | EDDY |
| Unitize | d Area of Are | ea of Interest | | Spacing U | nit Type : 🏻 Horiz | | | nd Elevation | 3,375 | EDDY |
| | | M-070965X | | Spacing U | | | Grour | | | EDDY |
| OPERA I hereby best of i that this in the la at this li unlease pooling If this w received | NMNI ATOR CERTI We certify that it my knowledge Sorganization and including ocation pursu d mineral inte order of here well is a horize d the consent | FICATIONS the information e and belief, and a either owns a the proposed be tant to a contract erest, or a volun etofore entered tontal well, I furi of at least one l | l, if the well is working interestom hole locate with an own tary pooling to the division there certify the essee or owne | ein is true an vertical or a st or unleast ation or has er of a work igreement or | nit Type: Moriz | ontal □Vertical | Groun ATIONS well location shape or under my | nd Elevation nown on this p supervision, | 3,375' plat was plotted fand that the same | from field notes of the is true and |
| OPERA I hereby best of i that this li unlease pooling If this w receive unlease which a compul: | ATOR CERTI w certify that the service of the consent of the consent of the cory pooling of the cory pooli | FICATIONS the information of an either owns a with the proposed because to a contract erest, or a volunctofore entered contal well, I furnitude in the proposed because the prop | l, if the well is working intercontom hole locate with an own tary pooling a by the division ther certify the essee or owner (in the targed interval windivision. | ein is true an vertical or a vertical or a sist or unleass ation or has ser of a work agreement or a this organir of a workir et pool or in | nit Type: Moriz | SURVEYOR CERTIFIC I hereby certify that the wactual surveys made by no correct to the best of my to | ATIONS vell location shae or under my belief | nd Elevation | 3,375' plat was plotted fand that the same | from field notes of the is true and |
| OPERA I hereby best of it that this in the la at this launlease pooling If this wreceived in the launlease which a compuls | NMNI ATOR CERTI We certify that the serious constant including to contain pursuad mineral intention of the consent of the consent of the corry pooling to the corry pooling to the course of the corry pooling to the corry pooling to the course of the course of the corry pooling to the course of the cou | FICATIONS the information of an either owns a value to a contraction of a contraction of a tile and to a contraction of at least one laction of at least one laction of a contraction of a contra | l, if the well is working interestatom hole locat with an own tary pooling to by the division her certify the essee or owned tin the targed interval with a working the division where we want to the targed interval with working in w | ein is true an vertical or a vertical or a stor unleass ation or has er of a work agreement or a this organir of a workir et pool or in l be located | nit Type: Moriz | ontal | ATIONS vell location shae or under my belief | nd Elevation | 3,375' plat was plotted fand that the same | from field notes of the is true and |
| OPERA I hereby best of it that this in the la at this launlease pooling If this we receive every eve | NMNI ATOR CERTI In vertify that the service of the consent of th | FICATIONS the information of an either owns a value to a contraction of a contraction of a tile and to a contraction of at least one laction of at least one laction of a contraction of a contra | I, if the well is working intervition hole locate with an own tary pooling on the division the certify the essee or owned interval will ivision. Date | ein is true an vertical or a vertical or a set or unlease ation or has er of a work agreement or of a working t pool or in a l be located | nit Type: Moriz | SURVEYOR CERTIFIC I hereby certify that the wactual surveys made by n correct to the best of my surveys surveys and seal of Programmer a | ATIONS well location shae or under my belief | nd Elevation | 3,375' plat was plotted fand that the same | from field notes of the is true and |
| OPERA I hereby best of it that this in the la authics to be the cooling of this we received which a compuls Signature | NMNI ATOR CERTI In vertify that the solution pursue of the consent of the consent of the sory pooling of | FICATIONS the information of an either owns a value to a contract everst, or a volunce tofore entered to the least on the extension of at least one the event in each to a contract well's complete order from the action of the least one than the extension of the least one than the extension of the least order from the action of the least order from the least order | I, if the well is working intercontour hole locate with an own tary pooling on the certify the essee or owned interval will invision. Date huvarapu | ein is true an vertical or a vertical this organist this organist pool or in a located | nit Type: Moriz | SURVEYOR CERTIFIC I hereby certify that the wactual surveys made by no correct to the best of my to | ATIONS vell location shale or under my belief fessional Surv | nd Elevation | 3,375' colat was plotted from that the same of the sa | from field notes of the is true and |
| DPERA I hereby best of that this leat this leat this leannease pooling If this we received interest which a signature. Printed Srin | NMNI ATOR CERTI In vertify that the solution pursue of the consent of the consent of the sory pooling of | FICATIONS the information of an either owns a value to a contraction of a contraction of a contraction of a telestone entered of at least one laction of at least one laction of a contraction o | I, if the well is working intercontour hole locate with an own tary pooling on the certify the essee or owned interval will invision. Date huvarapu | ein is true an vertical or a vertical this organist this organist pool or in a located | nit Type: Moriz | SURVEYOR CERTIFIC I hereby certify that the wactual surveys made by macorrect to the best of my to Signature and Seal of Promotion Mark dillon harp 2378 | ATIONS vell location shale or under my belief fessional Surv | nd Elevation nown on this particular in the supervision, reyor | 3,375' colat was plotted from that the same of the sa | from field notes of the is true and |

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

ACREAGE DEDICATION PLATS

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is a directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other then the First Take Point and Last Take Point) that is closest to any outer boundary of the tract.

Surveyor shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land in not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.



| | LINE TABLE | | | | | | |
|------|---------------|----------|--|--|--|--|--|
| LINE | AZIMUTH | LENGTH | | | | | |
| L1 | 11010'28.65" | 660.44 | | | | | |
| L2 | 269°50'14.30" | 7,640.22 | | | | | |

| | LEC | <u>GEND</u> |
|------|-----|--------------------------|
| | | SECTION LINE |
| | | PROPOSED WELL BORE |
| ==== | === | NEW MEXICO MINERAL LEASE |
| | | 330' BUFFER |
| | | ALLOCATION AREA |

| COORDINATE TABLE | | | | | | | | | | |
|------------------|------------|-----------|------------------|------------|----|--|--|--|--|--|
| SHL (I | VAD 83 NME | <u>:)</u> | SHL (I | NAD 27 NME | () | | | | | |
| Y = | 503,727.1 | Ν | Y = | 503,666.5 | Ν | | | | | |
| X = | 697,125.9 | Ш | X = | 655,944.4 | Е | | | | | |
| LAT. = | 32.383805 | ۶ | LAT. = | 32.383682 | °N | | | | | |
| LONG. = | 103.828660 | °W | LONG. = | 103.828166 | °W | | | | | |
| FTP/KOF | NAD 83 NI | FTP/KOF | (NAD 27 NI | VIE) | | | | | | |
| Y = | 503,499.3 | Ν | Y = | 503,438.8 | Ν | | | | | |
| X = | 697,745.9 | Е | X = | 656,564.3 | Ε | | | | | |
| LAT. = | 32.383170 | °N | LAT. = | 32.383048 | °N | | | | | |
| LONG. = | 103.826655 | °W | LONG. = | 103.826162 | °W | | | | | |
| PPP #1 | (NAD 83 NM | E) | PPP #1 | (NAD 83 NM | E) | | | | | |
| Y = | 503,487.6 | Z | Y = | 503,427.0 | Z | | | | | |
| X = | 694,069.7 | Ш | X = | 652,888.2 | Ш | | | | | |
| LAT. = | 32.383186 | °N | LAT. = | 32.383063 | °N | | | | | |
| LONG. = | 103.838564 | °W | LONG. = | 103.838070 | °W | | | | | |
| LTP (I | NAD 83 NME |) | LTP (I | NAD 27 NME |) | | | | | |
| Y = | 503,477.7 | Ν | Y = | 503,417.1 | Ν | | | | | |
| X = | 690,155.7 | Е | X = | 648,974.1 | Е | | | | | |
| LAT. = | 32.383208 | °N | LAT. = | 32.383085 | °N | | | | | |
| LONG. = | 103.851243 | °W | LONG. = | 103.850749 | °W | | | | | |
| BHL (I | VAD 83 NME | :) | BHL (NAD 27 NME) | | | | | | | |
| Y = | 503,477.6 | Ν | Y = | 503,417.0 | Ν | | | | | |
| X = | 690,105.7 | Е | X = | 648,924.1 | Е | | | | | |
| LAT. = | 32.383208 | °N | LAT. = | 32.383085 | °N | | | | | |
| LONG. = | 103.851405 | °W | LONG. = | 103.850911 | °W | | | | | |

| CORNER COORDINATES (NAD 83 NME) | | | | | | | | | | |
|---------------------------------|-----------|-----|----------|------------|---|--|--|--|--|--|
| A - Y = | 504,110.5 | Ν | A - X = | 698,073.3 | Е | | | | | |
| B-Y= | 504,101.3 | N | B-X= | 695,403.9 | Е | | | | | |
| C - Y = | 504,092.8 | Ν | C - X = | 692,735.3 | П | | | | | |
| D-Y= | 504,087.6 | Ν | D-X= | 690,056.2 | Е | | | | | |
| E-Y= | 504,081.7 | Ν | E - X = | 687,374.1 | Е | | | | | |
| F-Y= | 502,793.0 | Ν | F-X= | 698,078.8 | Е | | | | | |
| G - Y= | 502,783.1 | Ν | G-X= | 695,405.9 | Е | | | | | |
| H-Y= | 502,773.8 | Ν | H-X= | 692,733.8 | Ε | | | | | |
| I- Y= | 502,768.1 | Ν | I-X= | 690,055.0 | П | | | | | |
| J-Y= | 502,762.3 | Ν | J-X= | 687,374.3 | Ε | | | | | |
| COR | NER COOR | DIN | ATES (NA | AD 27 NME) | | | | | | |
| A - Y = | 504,049.9 | Ν | A - X = | 656,891.7 | Ε | | | | | |
| B - Y = | 504,040.7 | Ν | B-X= | 654,222.4 | П | | | | | |
| C - Y= | 504,032.2 | Ν | C - X = | 651,553.8 | Е | | | | | |
| D - Y = | 504,026.9 | Ν | D - X = | 648,874.7 | П | | | | | |
| E-Y= | 504,021.0 | Ν | E-X= | 646,192.7 | П | | | | | |
| F-Y= | 502,732.5 | Ν | F-X= | 656,897.2 | Е | | | | | |
| G-Y= | 502,722.6 | N | G-X= | 654,224.3 | Е | | | | | |
| H-Y= | 502,713.2 | N | H-X= | 651,552.3 | Е | | | | | |
| I- Y= | 502,707.5 | Ν | I-X= | 648,873.4 | Е | | | | | |
| J-Y= | 502,701.6 | Ν | J-X= | 646,192.8 | Е | | | | | |

KT 618.013002.10-36

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

XTO Energy Inc.

JRU Apache U Federal Com 708H
Projected TD: 17185.75' MD / 9809' TVD
SHL: 380' FNL & 949' FEL , Section 24, T22S, R30E
BHL: 610' FNL & 2629' FEL , Section 23, T22S, R30E
EDDY County, NM

1. Geologic Name of Surface Formation

Quaternary

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

| Formation | Well Depth (TVD) | Water/Oil/Gas |
|-------------------|------------------|---------------|
| Rustler | 483' | Water |
| Top of Salt | 773' | Water |
| MB 126 | 1467' | Water |
| Base of Salt | 3628' | Water |
| Delaware | 3886' | Water/Oil/Gas |
| Brushy Canyon | 6629' | Water |
| Bone Spring | 7765' | Water/Oil/Gas |
| Avalon | 7841' | Water/Oil/Gas |
| 1st Bone Spring | 8685' | Water/Oil/Gas |
| 2nd Bone Spring | 9271' | Water/Oil/Gas |
| Target/Land Curve | 9809' | Water/Oil/Gas |
| | | |

^{***} Hydrocarbons @ Brushy Canyon

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 surface casing casing @ 673' (100' above the salt) and circulating cement back to surface. The intermediate will isolate from the top of salt down to the next casing seat by setting 7.625 inch casing at 3871' and cemented to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 17185.75 MD/TD and 5.5 inch production casing will be set at TD.

3. Casing Design

| Hole Size | Depth | OD Csg | Weight | Grade | Collar | New/Used | SF Burst | SF Collapse | SF Tension |
|-----------|----------------------|--------|--------|----------|------------------------|----------|-------------|----------------|---------------|
| 12.25 | 0' – 673' | 9.625 | 40 | J-55 | втс | New | 3.72 | 9.35 | 23.40 |
| 8.75 | 0' – 3871' | 7.625 | 29.7 | RY P-110 | Flush Joint | New | 3.81 | 2.87 | 4.85 |
| 6.75 | 0' – 3771' | 5.5 | 20 | RY P-110 | Semi-Premium / Freedom | New | 1.26 | 6.22 | 2.53 |
| 6.75 | 3771' - 17185.75' | 5.5 | 20 | RY P-110 | Semi-Flush / Talon | New | 1.26 | 2.39 | 2.53 |

[·] XTO requests the option to utilize a spudder rig (Atlas Copco RD20 or Equivalent) to set and cement surface casing

^{***} Groundwater depth 40' (per NM State Engineers Office).

Wellhead:

Permanent Wellhead Multibowl System for 3 String desing as per attachement.

4. Cement Program

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.

Surface Casing: 9.625, 40 New BTC, J-55 casing to be set at +/- 673'

Lead: 120 sxs EconoCem-HLTRRC (mixed at 10.5 ppg, 1.87 ft3/sx, 10.13 gal/sx water)
Tail: 130 sxs Class C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)

Top of Cement: Surface

Compressives: 12-hr = 900 psi 24 hr = 1500 psi

1St Intermediate Casing: 7.625, 29.7 New casing to be set at +/- 3871'

Lead: 190 sxs Class C (mixed at 10.5 ppg, 2.77 ft3/sx, 15.59 gal/sx water)

TOC: Surface

Tail: 30 sxs Class C (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)

TOC:@ 3571

Compressives: 12-hr = 900 psi 24 hr = 1150 psi

Production Casing: 5.5, 20 New Semi-Flush / Talon, RY P-110 casing to be set at +/- 17185.75'

Lead: 100 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft3/sx, 15.00 gal/sx water) Top of Cement: 6629 feet
Tail: 570 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft3/sx, 8.38 gal/sx water) Top of Cement: 9136.72 feet

Compressives: 12-hr = 800 psi 24 hr = 1500 psi

5. Pressure Control Equipment

Once the permanent WH is installed on the casing, the blow out preventer equipment (BOP) will consist of 5M Hydril and 10M 3-Ram BOP.

All BOP testing will be done by an independent service company. Operator will test as per CFR43-3172

A variance is requested to allow use of a flex hose as the choke line from the BOP to the Choke Manifold.

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 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.

6. Proposed Mud Circulation System

| INTERVAL | Hole Size | Mud Type | MW | Viscosity | Fluid Loss | Additional | |
|----------------------|--------------------|--------------------------------|----------|-----------|------------|------------------------------------|--|
| INTERVAL | INTERVAL Hole Size | | (ppg) | (sec/qt) | (cc) | Comments | |
| 0' - 673' | 12.25 | FW/Native | 8.4-8.9 | 35-40 | NC | Fresh water or native water | |
| 673' - 3871' | 8.75 | Saturated brine for salt | 9.5-10.5 | 30-32 | NC | Fully saturated salt across salado | |
| 3871' - 17185.75' | 6.75 | ОВМ | 9.1-9.6 | 50-60 | NC - 20 | N/A | |

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 surface casing with Saturated Salt. A saturated salt 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 9.625 casing.

8. Logging, Coring and Testing Program

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.

10. Anticipated Starting Date and Duration of Operations

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

Н

Well Plan Report

Measured Depth: 17185.75 ft Site:

TVD RKB: 9809.00 ft Slot: James Ranch Unit
Apache 708H

Location

New Mexico East -Cartographic Reference System: NAD 27 Northing: 503666.50 ft Easting: 655944.40 ft **RKB**: 3407.00 ft **Ground Level:** 3375.00 ft Grid North Reference: Convergence Angle: 0.27 Deg

Plan Sections

| Measured | | | TVD | | | Build | Turn | Dogleg |
|----------|-------------|---------|---------|-----------------|----------|---------------|-------------|--------------------|
| Depth | Inclination | Azimuth | RKB | Y Offset | X Offset | Rate | Rate | Rate |
| (ft) | (Deg) | (Deg) | (ft) | (ft) | (ft) | (Deg/100ft) | (Deg/100ft) | (Deg/100ft) Target |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3700.00 | 0.00 | 0.00 | 3700.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4091.01 | 7.82 | 110.17 | 4089.80 | - 9.19 | 25.01 | 2.00 | 0.00 | 2.00 |
| 8552.91 | 7.82 | 110.17 | 8510.20 | - 218.51 | 594.89 | 0.00 | 0.00 | 0.00 |
| 8943.92 | 0.00 | 0.00 | 8900.00 | - 227.70 | 619.90 | - 2.00 | 0.00 | 2.00 |
| 9136.72 | 0.00 | 0.00 | 9092.80 | -227.70 | 619.90 | 0.00 | 0.00 | 0.00 |
| 10261.72 | 90.00 | 269.84 | 9809.00 | -229.75 | -96.29 | 8.00 | 0.00 | 8.00 |
| 17135.69 | 90.00 | 269.84 | 9809.00 | -249.43 | -6970.24 | 0.00 | 0.00 | 0.00 LTP 1 |
| 17185.75 | 90.00 | 269.84 | 9809.00 | -249.57 | -7020.30 | 0.00 | 0.00 | 0.00 BHL 1 |

Position Uncertainty

Measured TVD Highside Lateral Vertical Magnitude Semi-major 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 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | MWD+IFR1+MS |
| 100.000 | 0.000 | 0.000 | 100.000 | 0.700 | 0.000 | 0.350 | 0.000 | 2.300 | 0.000 | 0.000 | 0.751 | 0.220 | 112.264 | MWD+IFR1+MS |
| 200.000 | 0.000 | 0.000 | 200.000 | 1.112 | 0.000 | 0.861 | 0.000 | 2.310 | 0.000 | 0.000 | 1.259 | 0.627 | 122.711 | MWD+IFR1+MS |
| 300.000 | 0.000 | 0.000 | 300.000 | 1.497 | 0.000 | 1.271 | 0.000 | 2.325 | 0.000 | 0.000 | 1.698 | 0.986 | 125.469 | MWD+IFR1+MS |
| 400.000 | 0.000 | 0.000 | 400.000 | 1.871 | 0.000 | 1.658 | 0.000 | 2.347 | 0.000 | 0.000 | 2.108 | 1.344 | 126.713 | MWD+IFR1+MS |
| 500.000 | 0.000 | 0.000 | 500.000 | 2.240 | 0.000 | 2.034 | 0.000 | 2.374 | 0.000 | 0.000 | 2.503 | 1.701 | 127.419 | MWD+IFR1+MS |
| 600.000 | 0.000 | 0.000 | 600.000 | 2.607 | 0.000 | 2.405 | 0.000 | 2.407 | 0.000 | 0.000 | 2.888 | 2.059 | 127.873 | MWD+IFR1+MS |
| 700.000 | 0.000 | 0.000 | 700.000 | 2.971 | 0.000 | 2.773 | 0.000 | 2.444 | 0.000 | 0.000 | 3.267 | 2.417 | 128.190 | MWD+IFR1+MS |
| 800.000 | 0.000 | 0.000 | 800.000 | 3.334 | 0.000 | 3.138 | 0.000 | 2.486 | 0.000 | 0.000 | 3.642 | 2.775 | 128.423 | MWD+IFR1+MS |
| 900.000 | 0.000 | 0.000 | 900.000 | 3.696 | 0.000 | 3.502 | 0.000 | 2.532 | 0.000 | 0.000 | 4.014 | 3.133 | 128.602 | MWD+IFR1+MS |
| 1000.000 | 0.000 | 0.000 | 1000.000 | 4.058 | 0.000 | 3.865 | 0.000 | 2.581 | 0.000 | 0.000 | 4.384 | 3.491 | 128.744 | MWD+IFR1+MS |
| 1100.000 | 0.000 | 0.000 | 1100.000 | 4.419 | 0.000 | 4.228 | 0.000 | 2.635 | 0.000 | 0.000 | 4.752 | 3.849 | 128.859 | MWD+IFR1+MS |
| 1200.000 | 0.000 | 0.000 | 1200.000 | 4.779 | 0.000 | 4.589 | 0.000 | 2.691 | 0.000 | 0.000 | 5.119 | 4.207 | 128.954 | MWD+IFR1+MS |
| 1300.000 | 0.000 | 0.000 | 1300.000 | 5.140 | 0.000 | 4.950 | 0.000 | 2.751 | 0.000 | 0.000 | 5.484 | 4.565 | 129.034 | MWD+IFR1+MS |
| 1400.000 | 0.000 | 0.000 | 1400.000 | 5.500 | 0.000 | 5.311 | 0.000 | 2.814 | 0.000 | 0.000 | 5.849 | 4.924 | 129.102 | MWD+IFR1+MS |
| 1500.000 | 0.000 | 0.000 | 1500.000 | 5.860 | 0.000 | 5.672 | 0.000 | 2.879 | 0.000 | 0.000 | 6.213 | 5.282 | 129.161 | MWD+IFR1+MS |
| 1600.000 | 0.000 | 0.000 | 1600.000 | 6.219 | 0.000 | 6.032 | 0.000 | 2.946 | 0.000 | 0.000 | 6.577 | 5.640 | 129.212 | MWD+IFR1+MS |
| 1700.000 | 0.000 | 0.000 | 1700.000 | 6.579 | 0.000 | 6.392 | 0.000 | 3.016 | 0.000 | 0.000 | 6.939 | 5.999 | 129.257 | MWD+IFR1+MS |
| 1800.000 | 0.000 | 0.000 | 1800.000 | 6.938 | 0.000 | 6.752 | 0.000 | 3.088 | 0.000 | 0.000 | 7.302 | 6.357 | 129.297 | MWD+IFR1+MS |
| 1900.000 | 0.000 | 0.000 | 1900.000 | 7.298 | 0.000 | 7.112 | 0.000 | 3.161 | 0.000 | 0.000 | 7.664 | 6.715 | 129.333 | MWD+IFR1+MS |
| 2000.000 | 0.000 | 0.000 | 2000.000 | 7.657 | 0.000 | 7.471 | 0.000 | 3.237 | 0.000 | 0.000 | 8.026 | 7.074 | 129.365 | MWD+IFR1+MS |
| 2100.000 | 0.000 | 0.000 | 2100.000 | 8.016 | 0.000 | 7.831 | 0.000 | 3.314 | 0.000 | 0.000 | 8.387 | 7.432 | 129.394 | MWD+IFR1+MS |
| 2200.000 | 0.000 | 0.000 | 2200.000 | 8.375 | 0.000 | 8.190 | 0.000 | 3.393 | 0.000 | 0.000 | 8.748 | 7.791 | 129.420 | MWD+IFR1+MS |
| 2300.000 | 0.000 | 0.000 | 2300.000 | 8.734 | 0.000 | 8.550 | 0.000 | 3.473 | 0.000 | 0.000 | 9.109 | 8.149 | 129.444 | MWD+IFR1+MS |
| 2400.000 | 0.000 | 0.000 | 2400.000 | 9.093 | 0.000 | 8.909 | 0.000 | 3.555 | 0.000 | 0.000 | 9.470 | 8.507 | 129.466 | MWD+IFR1+MS |
| 2500.000 | 0.000 | 0.000 | 2500.000 | 9.452 | 0.000 | 9.268 | 0.000 | 3.638 | 0.000 | 0.000 | 9.831 | 8.866 | 129.486 | MWD+IFR1+MS |
| 2600.000 | 0.000 | 0.000 | 2600.000 | 9.811 | 0.000 | 9.627 | 0.000 | 3.722 | 0.000 | 0.000 | 10.191 | 9.224 | 129.505 | MWD+IFR1+MS |
| 2700.000 | 0.000 | 0.000 | 2700.000 | 10.170 | 0.000 | 9.986 | 0.000 | 3.808 | 0.000 | 0.000 | 10.552 | 9.583 | 129.522 | MWD+IFR1+MS |
| 2800.000 | 0.000 | 0.000 | 2800.000 | 10.529 | 0.000 | 10.345 | 0.000 | 3.896 | 0.000 | 0.000 | 10.912 | 9.941 | 129.538 | MWD+IFR1+MS |
| 2900.000 | 0.000 | 0.000 | 2900.000 | 10.888 | 0.000 | 10.705 | 0.000 | 3.984 | 0.000 | 0.000 | 11.272 | 10.299 | 129.552 | MWD+IFR1+MS |
| 3000.000 | 0.000 | 0.000 | 3000.000 | 11.247 | 0.000 | 11.063 | 0.000 | 4.074 | 0.000 | 0.000 | 11.632 | 10.658 | 129.566 | MWD+IFR1+MS |
| | | | | | | | | | | | | | | |

| 3100.000 | 0.000 | 0.000 | 3100.000 | 11.606 | 0.000 | 11.422 | 0.000 | 4.165 | 0.000 | 0.000 | 11.992 | 11.016 | 129.579 | MWD+IFR1+MS |
|----------|-------|---------|----------|--------|-------|--------|--------|-------|-------|-------|--------|--------|---------|-------------|
| 3200.000 | 0.000 | 0.000 | 3200.000 | 11.965 | 0.000 | 11.781 | 0.000 | 4.258 | 0.000 | 0.000 | 12.352 | 11.375 | 129.591 | MWD+IFR1+MS |
| 3300.000 | 0.000 | 0.000 | 3300.000 | 12.323 | 0.000 | 12.140 | 0.000 | 4.352 | 0.000 | 0.000 | 12.712 | 11.733 | 129.603 | MWD+IFR1+MS |
| 3400.000 | 0.000 | 0.000 | 3400.000 | 12.682 | 0.000 | 12.499 | 0.000 | 4.447 | 0.000 | 0.000 | 13.071 | 12.092 | 129.613 | MWD+IFR1+MS |
| 3500.000 | 0.000 | 0.000 | 3500.000 | 13.041 | 0.000 | 12.858 | 0.000 | 4.543 | 0.000 | 0.000 | 13.431 | 12.450 | 129.623 | MWD+IFR1+MS |
| 3600.000 | 0.000 | 0.000 | 3600.000 | 13.400 | 0.000 | 13.217 | 0.000 | 4.641 | 0.000 | 0.000 | 13.790 | 12.809 | 129.633 | MWD+IFR1+MS |
| 3700.000 | 0.000 | 0.000 | 3700.000 | 13.758 | 0.000 | 13.576 | 0.000 | 4.741 | 0.000 | 0.000 | 14.150 | 13.167 | 129.642 | MWD+IFR1+MS |
| 3800.000 | 2.000 | 110.169 | 3799.980 | 13.680 | 0.000 | 14.372 | -0.000 | 4.841 | 0.000 | 0.000 | 14.484 | 13.569 | 130.952 | MWD+IFR1+MS |
| 3900.000 | 4.000 | 110.169 | 3899.838 | 14.180 | 0.000 | 14.702 | -0.000 | 4.944 | 0.000 | 0.000 | 14.800 | 14.106 | 132.530 | MWD+IFR1+MS |
| 4000.000 | 6.000 | 110.169 | 3999.452 | 14.654 | 0.000 | 15.034 | -0.000 | 5.049 | 0.000 | 0.000 | 15.121 | 14.629 | -44.799 | MWD+IFR1+MS |
| 4091.012 | 7.820 | 110.169 | 4089.799 | 15.036 | 0.000 | 15.335 | -0.000 | 5.146 | 0.000 | 0.000 | 15.415 | 15.063 | -41.242 | MWD+IFR1+MS |
| 4100.000 | 7.820 | 110.169 | 4098.703 | 15.065 | 0.000 | 15.364 | -0.000 | 5.154 | 0.000 | 0.000 | 15.444 | 15.093 | -41.252 | MWD+IFR1+MS |
| 4200.000 | 7.820 | 110.169 | 4197.773 | 15.390 | 0.000 | 15.691 | -0.000 | 5.261 | 0.000 | 0.000 | 15.763 | 15.423 | -42.406 | MWD+IFR1+MS |
| 4300.000 | 7.820 | 110.169 | 4296.843 | 15.724 | 0.000 | 16.028 | -0.000 | 5.370 | 0.000 | 0.000 | 16.086 | 15.768 | -44.459 | MWD+IFR1+MS |
| 4400.000 | 7.820 | 110.169 | 4395.913 | 16.060 | 0.000 | 16.366 | -0.000 | 5.482 | 0.000 | 0.000 | 16.412 | 16.114 | 133.301 | MWD+IFR1+MS |
| 4500.000 | 7.820 | 110.169 | 4494.983 | 16.397 | 0.000 | 16.706 | -0.000 | 5.595 | 0.000 | 0.000 | 16.741 | 16.459 | 130.883 | MWD+IFR1+MS |
| 4600.000 | 7.820 | 110.169 | 4594.053 | 16.736 | 0.000 | 17.047 | -0.000 | 5.710 | 0.000 | 0.000 | 17.073 | 16.804 | 128.309 | MWD+IFR1+MS |
| 4700.000 | 7.820 | 110.169 | 4693.123 | 17.077 | 0.000 | 17.389 | -0.000 | 5.827 | 0.000 | 0.000 | 17.407 | 17.149 | 125.614 | MWD+IFR1+MS |
| 4800.000 | 7.820 | 110.169 | 4792.193 | 17.418 | 0.000 | 17.732 | -0.000 | 5.947 | 0.000 | 0.000 | 17.744 | 17.494 | 122.845 | MWD+IFR1+MS |
| 4900.000 | 7.820 | 110.169 | 4891.263 | 17.761 | 0.000 | 18.077 | -0.000 | 6.068 | 0.000 | 0.000 | 18.084 | 17.839 | 120.058 | MWD+IFR1+MS |
| 5000.000 | 7.820 | 110.169 | 4990.333 | 18.105 | 0.000 | 18.422 | -0.000 | 6.191 | 0.000 | 0.000 | 18.426 | 18.183 | 117.310 | MWD+IFR1+MS |
| 5100.000 | 7.820 | 110.169 | 5089.403 | 18.450 | 0.000 | 18.768 | -0.000 | 6.317 | 0.000 | 0.000 | 18.770 | 18.527 | 114.654 | MWD+IFR1+MS |
| 5200.000 | 7.820 | 110.169 | 5188.473 | 18.796 | 0.000 | 19.116 | -0.000 | 6.444 | 0.000 | 0.000 | 19.116 | 18.871 | 112.134 | MWD+IFR1+MS |
| 5300.000 | 7.820 | 110.169 | 5287.543 | 19.143 | 0.000 | 19.464 | -0.000 | 6.574 | 0.000 | 0.000 | 19.464 | 19.215 | 109.779 | MWD+IFR1+MS |
| 5400.000 | 7.820 | 110.169 | 5386.613 | 19.490 | 0.000 | 19.813 | -0.000 | 6.705 | 0.000 | 0.000 | 19.814 | 19.560 | 107.607 | MWD+IFR1+MS |
| 5500.000 | 7.820 | 110.169 | 5485.683 | 19.839 | 0.000 | 20.163 | -0.000 | 6.839 | 0.000 | 0.000 | 20.164 | 19.904 | 105.624 | MWD+IFR1+MS |
| 5600.000 | 7.820 | 110.169 | 5584.753 | 20.189 | 0.000 | 20.513 | -0.000 | 6.975 | 0.000 | 0.000 | 20.517 | 20.249 | 103.825 | MWD+IFR1+MS |
| 5700.000 | 7.820 | 110.169 | 5683.823 | 20.539 | 0.000 | 20.865 | -0.000 | 7.113 | 0.000 | 0.000 | 20.870 | 20.594 | 102.203 | MWD+IFR1+MS |
| 5800.000 | 7.820 | 110.169 | 5782.893 | 20.890 | 0.000 | 21.217 | -0.000 | 7.254 | 0.000 | 0.000 | 21.224 | 20.940 | 100.743 | MWD+IFR1+MS |
| 5900.000 | 7.820 | 110.169 | 5881.963 | 21.241 | 0.000 | 21.569 | -0.000 | 7.396 | 0.000 | 0.000 | 21.579 | 21.286 | 99.433 | MWD+IFR1+MS |
| 6000.000 | 7.820 | 110.169 | 5981.033 | 21.594 | 0.000 | 21.922 | -0.000 | 7.541 | 0.000 | 0.000 | 21.935 | 21.632 | 98.258 | MWD+IFR1+MS |
| 6100.000 | 7.820 | 110.169 | 6080.103 | 21.947 | 0.000 | 22.276 | -0.000 | 7.688 | 0.000 | 0.000 | 22.292 | 21.979 | 97.203 | MWD+IFR1+MS |
| 6200.000 | 7.820 | 110.169 | 6179.173 | 22.300 | 0.000 | 22.630 | -0.000 | 7.837 | 0.000 | 0.000 | 22.649 | 22.327 | 96.255 | MWD+IFR1+MS |
| | | | | | | | | | | | | | | |

| 6300.000 | 7.820 | 110.169 | 6278.243 | 22.654 | 0.000 | 22.985 | -0.000 | 7.989 | 0.000 | 0.000 | 23.006 | 22.675 | 95.403 MWD+IFR1+MS |
|----------|-------|---------|----------|--------|--------|--------|--------|--------|-------|-------|--------|--------|--------------------|
| 6400.000 | 7.820 | 110.169 | 6377.313 | 23.009 | 0.000 | 23.340 | -0.000 | 8.143 | 0.000 | 0.000 | 23.365 | 23.024 | 94.636 MWD+IFR1+MS |
| 6500.000 | 7.820 | 110.169 | 6476.383 | 23.364 | 0.000 | 23.696 | -0.000 | 8.299 | 0.000 | 0.000 | 23.723 | 23.373 | 93.944 MWD+IFR1+MS |
| 6600.000 | 7.820 | 110.169 | 6575.453 | 23.720 | 0.000 | 24.052 | -0.000 | 8.458 | 0.000 | 0.000 | 24.082 | 23.723 | 93.319 MWD+IFR1+MS |
| 6700.000 | 7.820 | 110.169 | 6674.523 | 24.076 | 0.000 | 24.409 | -0.000 | 8.619 | 0.000 | 0.000 | 24.442 | 24.073 | 92.753 MWD+IFR1+MS |
| 6800.000 | 7.820 | 110.169 | 6773.593 | 24.432 | 0.000 | 24.766 | -0.000 | 8.783 | 0.000 | 0.000 | 24.802 | 24.424 | 92.241 MWD+IFR1+MS |
| 6900.000 | 7.820 | 110.169 | 6872.663 | 24.789 | 0.000 | 25.124 | -0.000 | 8.949 | 0.000 | 0.000 | 25.162 | 24.775 | 91.777 MWD+IFR1+MS |
| 7000.000 | 7.820 | 110.169 | 6971.733 | 25.147 | 0.000 | 25.482 | -0.000 | 9.117 | 0.000 | 0.000 | 25.522 | 25.127 | 91.355 MWD+IFR1+MS |
| 7100.000 | 7.820 | 110.169 | 7070.803 | 25.504 | 0.000 | 25.840 | -0.000 | 9.288 | 0.000 | 0.000 | 25.883 | 25.480 | 90.971 MWD+IFR1+MS |
| 7200.000 | 7.820 | 110.169 | 7169.873 | 25.863 | 0.000 | 26.198 | -0.000 | 9.461 | 0.000 | 0.000 | 26.244 | 25.832 | 90.621 MWD+IFR1+MS |
| 7300.000 | 7.820 | 110.169 | 7268.943 | 26.221 | 0.000 | 26.557 | -0.000 | 9.637 | 0.000 | 0.000 | 26.606 | 26.186 | 90.303 MWD+IFR1+MS |
| 7400.000 | 7.820 | 110.169 | 7368.013 | 26.580 | 0.000 | 26.917 | -0.000 | 9.816 | 0.000 | 0.000 | 26.967 | 26.539 | 90.013 MWD+IFR1+MS |
| 7500.000 | 7.820 | 110.169 | 7467.083 | 26.939 | 0.000 | 27.276 | -0.000 | 9.997 | 0.000 | 0.000 | 27.329 | 26.894 | 89.748 MWD+IFR1+MS |
| 7600.000 | 7.820 | 110.169 | 7566.153 | 27.299 | 0.000 | 27.636 | -0.000 | 10.180 | 0.000 | 0.000 | 27.691 | 27.248 | 89.506 MWD+IFR1+MS |
| 7700.000 | 7.820 | 110.169 | 7665.223 | 27.659 | 0.000 | 27.996 | -0.000 | 10.366 | 0.000 | 0.000 | 28.053 | 27.603 | 89.285 MWD+IFR1+MS |
| 7800.000 | 7.820 | 110.169 | 7764.293 | 28.019 | 0.000 | 28.357 | -0.000 | 10.555 | 0.000 | 0.000 | 28.415 | 27.959 | 89.084 MWD+IFR1+MS |
| 7900.000 | 7.820 | 110.169 | 7863.363 | 28.379 | 0.000 | 28.717 | -0.000 | 10.746 | 0.000 | 0.000 | 28.778 | 28.315 | 88.900 MWD+IFR1+MS |
| 000.000 | 7.820 | 110.169 | 7962.433 | 28.740 | 0.000 | 29.078 | -0.000 | 10.940 | 0.000 | 0.000 | 29.141 | 28.671 | 88.732 MWD+IFR1+MS |
| 8100.000 | 7.820 | 110.169 | 8061.503 | 29.101 | 0.000 | 29.440 | -0.000 | 11.136 | 0.000 | 0.000 | 29.504 | 29.027 | 88.579 MWD+IFR1+MS |
| 8200.000 | 7.820 | 110.169 | 8160.573 | 29.462 | 0.000 | 29.801 | -0.000 | 11.335 | 0.000 | 0.000 | 29.867 | 29.384 | 88.440 MWD+IFR1+MS |
| 8300.000 | 7.820 | 110.169 | 8259.643 | 29.824 | 0.000 | 30.163 | -0.000 | 11.537 | 0.000 | 0.000 | 30.230 | 29.741 | 88.313 MWD+IFR1+MS |
| 8400.000 | 7.820 | 110.169 | 8358.713 | 30.185 | 0.000 | 30.525 | -0.000 | 11.742 | 0.000 | 0.000 | 30.593 | 30.099 | 88.198 MWD+IFR1+MS |
| 8500.000 | 7.820 | 110.169 | 8457.783 | 30.547 | 0.000 | 30.887 | -0.000 | 11.949 | 0.000 | 0.000 | 30.957 | 30.457 | 88.093 MWD+IFR1+MS |
| 8552.910 | 7.820 | 110.169 | 8510.201 | 30.737 | 0.000 | 31.076 | -0.000 | 12.059 | 0.000 | 0.000 | 31.146 | 30.646 | 88.213 MWD+IFR1+MS |
| 8600.000 | 6.878 | 110.169 | 8556.903 | 30.929 | 0.000 | 31.244 | -0.000 | 12.159 | 0.000 | 0.000 | 31.313 | 30.814 | 88.268 MWD+IFR1+MS |
| 8700.000 | 4.878 | 110.169 | 8656.372 | 31.356 | 0.000 | 31.601 | -0.000 | 12.372 | 0.000 | 0.000 | 31.682 | 31.200 | 85.793 MWD+IFR1+MS |
| 8800.000 | 2.878 | 110.169 | 8756.138 | 31.784 | 0.000 | 31.956 | -0.000 | 12.586 | 0.000 | 0.000 | 32.069 | 31.603 | 80.619 MWD+IFR1+MS |
| 8900.000 | 0.878 | 110.169 | 8856.079 | 32.174 | 0.000 | 32.308 | -0.000 | 12.799 | 0.000 | 0.000 | 32.460 | 31.993 | 75.334 MWD+IFR1+MS |
| 8943.922 | 0.000 | 0.000 | 8900.000 | 32.580 | 0.000 | 32.177 | 0.000 | 12.893 | 0.000 | 0.000 | 32.609 | 32.147 | 75.268 MWD+IFR1+MS |
| 9000.000 | 0.000 | 0.000 | 8956.078 | 32.772 | 0.000 | 32.367 | 0.000 | 13.013 | 0.000 | 0.000 | 32.801 | 32.338 | 75.560 MWD+IFR1+MS |
| 9100.000 | 0.000 | 0.000 | 9056.078 | 33.115 | 0.000 | 32.708 | 0.000 | 13.230 | 0.000 | 0.000 | 33.141 | 32.682 | 76.156 MWD+IFR1+MS |
| 9136.722 | 0.000 | 0.000 | 9092.800 | 33.240 | 0.000 | 32.833 | 0.000 | 13.310 | 0.000 | 0.000 | 33.265 | 32.807 | 76.276 MWD+IFR1+MS |
| 9200.000 | 5.062 | 269.836 | 9155.995 | 32.812 | -0.000 | 33.449 | 0.000 | 13.448 | 0.000 | 0.000 | 33.478 | 33.056 | 74.396 MWD+IFR1+MS |
| | | | | | | | | | | | | | |

| 9300.000 | 13.062 | 269.836 | 9254.667 | 33.126 | -0.000 | 33.763 | 0.000 | 13.717 | 0.000 | 0.000 | 34.262 | 33.713 | 17.354 | MWD+IFR1+MS |
|-----------|--------|---------|----------|--------|--------|--------|-------|--------|-------|-------|--------|--------|--------|-------------|
| 9400.000 | 21.062 | 269.836 | 9350.188 | 33.344 | -0.000 | 34.064 | 0.000 | 14.172 | 0.000 | 0.000 | 35.636 | 34.031 | 8.003 | MWD+IFR1+MS |
| 9500.000 | 29.062 | 269.836 | 9440.699 | 33.073 | -0.000 | 34.348 | 0.000 | 14.874 | 0.000 | 0.000 | 36.834 | 34.314 | 6.378 | MWD+IFR1+MS |
| 9600.000 | 37.062 | 269.836 | 9524.439 | 32.385 | -0.000 | 34.613 | 0.000 | 15.859 | 0.000 | 0.000 | 37.827 | 34.576 | 5.816 | MWD+IFR1+MS |
| 9700.000 | 45.062 | 269.836 | 9599.778 | 31.375 | -0.000 | 34.860 | 0.000 | 17.122 | 0.000 | 0.000 | 38.611 | 34.819 | 5.634 | MWD+IFR1+MS |
| 9800.000 | 53.062 | 269.836 | 9665.248 | 30.167 | -0.000 | 35.090 | 0.000 | 18.625 | 0.000 | 0.000 | 39.193 | 35.045 | 5.658 | MWD+IFR1+MS |
| 9900.000 | 61.062 | 269.836 | 9719.577 | 28.915 | -0.000 | 35.306 | 0.000 | 20.308 | 0.000 | 0.000 | 39.589 | 35.256 | 5.826 | MWD+IFR1+MS |
| 10000.000 | 69.062 | 269.836 | 9761.706 | 27.801 | -0.000 | 35.509 | 0.000 | 22.108 | 0.000 | 0.000 | 39.827 | 35.454 | 6.109 | MWD+IFR1+MS |
| 10100.000 | 77.062 | 269.836 | 9790.816 | 27.020 | -0.000 | 35.701 | 0.000 | 23.957 | 0.000 | 0.000 | 39.944 | 35.640 | 6.480 | MWD+IFR1+MS |
| 10200.000 | 85.062 | 269.836 | 9806.339 | 26.751 | -0.000 | 35.881 | 0.000 | 25.794 | 0.000 | 0.000 | 39.982 | 35.814 | 6.901 | MWD+IFR1+MS |
| 10261.722 | 90.000 | 269.836 | 9808.997 | 26.299 | 0.000 | 35.982 | 0.000 | 26.299 | 0.000 | 0.000 | 39.987 | 35.912 | 7.137 | MWD+IFR1+MS |
| 10300.000 | 90.000 | 269.836 | 9808.997 | 26.384 | 0.000 | 36.044 | 0.000 | 26.384 | 0.000 | 0.000 | 39.990 | 35.973 | 7.288 | MWD+IFR1+MS |
| 10400.000 | 90.000 | 269.836 | 9808.997 | 26.559 | 0.000 | 36.235 | 0.000 | 26.559 | 0.000 | 0.000 | 39.997 | 36.158 | 7.759 | MWD+IFR1+MS |
| 10500.000 | 90.000 | 269.836 | 9808.997 | 26.759 | 0.000 | 36.462 | 0.000 | 26.759 | 0.000 | 0.000 | 40.005 | 36.378 | 8.353 | MWD+IFR1+MS |
| 10600.000 | 90.000 | 269.836 | 9808.997 | 26.981 | 0.000 | 36.721 | 0.000 | 26.981 | 0.000 | 0.000 | 40.016 | 36.630 | 9.102 | MWD+IFR1+MS |
| 10700.000 | 90.000 | 269.836 | 9808.997 | 27.223 | 0.000 | 37.013 | 0.000 | 27.223 | 0.000 | 0.000 | 40.030 | 36.911 | 10.061 | MWD+IFR1+MS |
| 10800.000 | 90.000 | 269.836 | 9808.997 | 27.486 | 0.000 | 37.337 | 0.000 | 27.486 | 0.000 | 0.000 | 40.047 | 37.221 | 11.314 | MWD+IFR1+MS |
| 10900.000 | 90.000 | 269.836 | 9808.997 | 27.769 | 0.000 | 37.690 | 0.000 | 27.769 | 0.000 | 0.000 | 40.070 | 37.556 | 12.996 | MWD+IFR1+MS |
| 11000.000 | 90.000 | 269.836 | 9808.997 | 28.071 | 0.000 | 38.074 | 0.000 | 28.071 | 0.000 | 0.000 | 40.101 | 37.914 | 15.335 | MWD+IFR1+MS |
| 11100.000 | 90.000 | 269.836 | 9808.997 | 28.391 | 0.000 | 38.487 | 0.000 | 28.391 | 0.000 | 0.000 | 40.144 | 38.288 | 18.724 | MWD+IFR1+MS |
| 11200.000 | 90.000 | 269.836 | 9808.997 | 28.729 | 0.000 | 38.927 | 0.000 | 28.729 | 0.000 | 0.000 | 40.211 | 38.667 | 23.842 | MWD+IFR1+MS |
| 11300.000 | 90.000 | 269.836 | 9808.997 | 29.084 | 0.000 | 39.394 | 0.000 | 29.084 | 0.000 | 0.000 | 40.322 | 39.030 | 31.686 | MWD+IFR1+MS |
| 11400.000 | 90.000 | 269.836 | 9808.997 | 29.456 | 0.000 | 39.888 | 0.000 | 29.456 | 0.000 | 0.000 | 40.512 | 39.341 | 42.732 | MWD+IFR1+MS |
| 11500.000 | 90.000 | 269.836 | 9808.997 | 29.844 | 0.000 | 40.406 | 0.000 | 29.844 | 0.000 | 0.000 | 40.815 | 39.564 | 54.767 | MWD+IFR1+MS |
| 11600.000 | 90.000 | 269.836 | 9808.997 | 30.248 | 0.000 | 40.949 | 0.000 | 30.248 | 0.000 | 0.000 | 41.227 | 39.703 | 64.334 | MWD+IFR1+MS |
| 11700.000 | 90.000 | 269.836 | 9808.997 | 30.666 | 0.000 | 41.515 | 0.000 | 30.666 | 0.000 | 0.000 | 41.717 | 39.788 | 70.740 | MWD+IFR1+MS |
| 11800.000 | 90.000 | 269.836 | 9808.997 | 31.098 | 0.000 | 42.103 | 0.000 | 31.098 | 0.000 | 0.000 | 42.259 | 39.844 | 74.929 | MWD+IFR1+MS |
| 11900.000 | 90.000 | 269.836 | 9808.997 | 31.544 | 0.000 | 42.713 | 0.000 | 31.544 | 0.000 | 0.000 | 42.838 | 39.884 | 77.765 | MWD+IFR1+MS |
| 12000.000 | 90.000 | 269.836 | 9808.997 | 32.003 | 0.000 | 43.343 | 0.000 | 32.003 | 0.000 | 0.000 | 43.446 | 39.916 | 79.772 | MWD+IFR1+MS |
| 12100.000 | 90.000 | 269.836 | 9808.997 | 32.474 | 0.000 | 43.992 | 0.000 | 32.474 | 0.000 | 0.000 | 44.080 | 39.942 | 81.253 | MWD+IFR1+MS |
| 12200.000 | 90.000 | 269.836 | 9808.997 | 32.958 | 0.000 | 44.660 | 0.000 | 32.958 | 0.000 | 0.000 | 44.737 | 39.966 | 82.383 | MWD+IFR1+MS |
| 12300.000 | 90.000 | 269.836 | 9808.997 | 33.452 | 0.000 | 45.347 | 0.000 | 33.452 | 0.000 | 0.000 | 45.413 | 39.987 | 83.269 | MWD+IFR1+MS |
| 12400.000 | 90.000 | 269.836 | 9808.997 | 33.958 | 0.000 | 46.050 | 0.000 | 33.958 | 0.000 | 0.000 | 46.109 | 40.007 | 83.982 | MWD+IFR1+MS |
| | | | | | | | | | | | | | | |

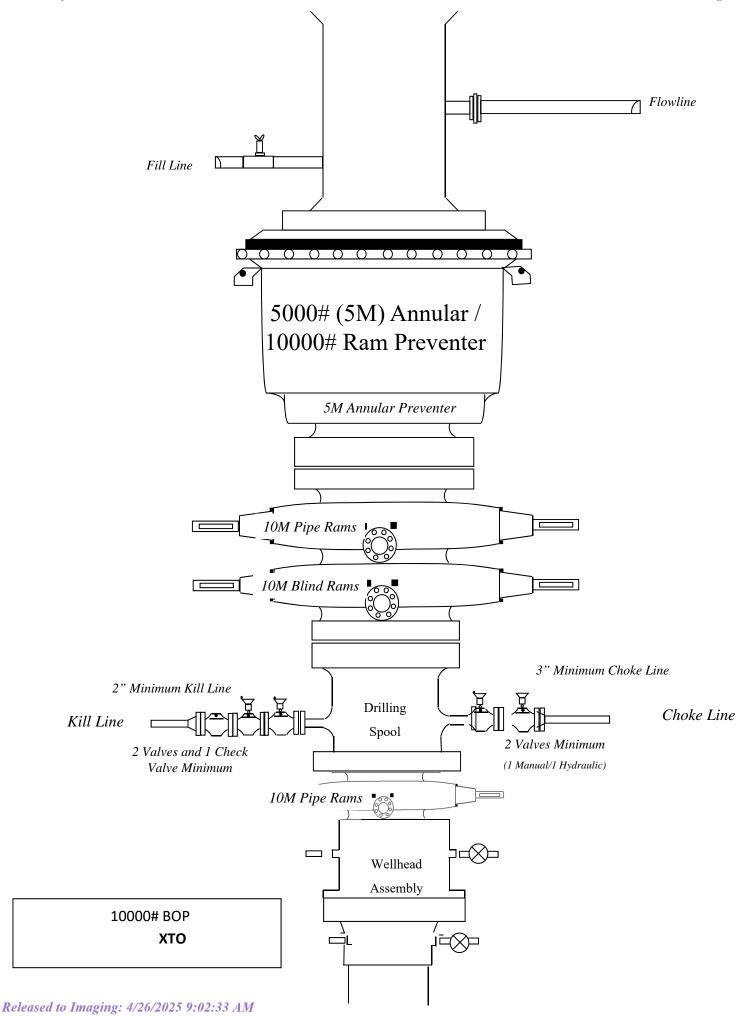
Received, by 1960: 3/7/2025 10:01:59 AM

| 12500.000 | 90.000 | 269.836 | 9808.997 | 34.474 | 0.000 | 46.769 | 0.000 | 34.474 | 0.000 | 0.000 | 46.823 | 40.026 | 84.566 | MWD+IFR1+MS |
|-----------|--------|---------|----------|--------|-------|--------|-------|--------|-------|-------|--------|--------|--------|-------------|
| 12600.000 | 90.000 | 269.836 | 9808.997 | 35.001 | 0.000 | 47.504 | 0.000 | 35.001 | 0.000 | 0.000 | 47.553 | 40.045 | 85.052 | MWD+IFR1+MS |
| 12700.000 | 90.000 | 269.836 | 9808.997 | 35.536 | 0.000 | 48.254 | 0.000 | 35.536 | 0.000 | 0.000 | 48.298 | 40.064 | 85.462 | MWD+IFR1+MS |
| 12800.000 | 90.000 | 269.836 | 9808.997 | 36.081 | 0.000 | 49.019 | 0.000 | 36.081 | 0.000 | 0.000 | 49.059 | 40.082 | 85.813 | MWD+IFR1+MS |
| 12900.000 | 90.000 | 269.836 | 9808.997 | 36.635 | 0.000 | 49.796 | 0.000 | 36.635 | 0.000 | 0.000 | 49.833 | 40.101 | 86.116 | MWD+IFR1+MS |
| 13000.000 | 90.000 | 269.836 | 9808.997 | 37.197 | 0.000 | 50.587 | 0.000 | 37.197 | 0.000 | 0.000 | 50.621 | 40.120 | 86.380 | MWD+IFR1+MS |
| 13100.000 | 90.000 | 269.836 | 9808.997 | 37.766 | 0.000 | 51.390 | 0.000 | 37.766 | 0.000 | 0.000 | 51.421 | 40.139 | 86.612 | MWD+IFR1+MS |
| 13200.000 | 90.000 | 269.836 | 9808.997 | 38.344 | 0.000 | 52.204 | 0.000 | 38.344 | 0.000 | 0.000 | 52.234 | 40.158 | 86.817 | MWD+IFR1+MS |
| 13300.000 | 90.000 | 269.836 | 9808.997 | 38.928 | 0.000 | 53.030 | 0.000 | 38.928 | 0.000 | 0.000 | 53.058 | 40.177 | 87.000 | MWD+IFR1+MS |
| 13400.000 | 90.000 | 269.836 | 9808.997 | 39.520 | 0.000 | 53.867 | 0.000 | 39.520 | 0.000 | 0.000 | 53.893 | 40.197 | 87.163 | MWD+IFR1+MS |
| 13500.000 | 90.000 | 269.836 | 9808.997 | 40.118 | 0.000 | 54.713 | 0.000 | 40.118 | 0.000 | 0.000 | 54.738 | 40.217 | 87.311 | MWD+IFR1+MS |
| 13600.000 | 90.000 | 269.836 | 9808.997 | 40.723 | 0.000 | 55.570 | 0.000 | 40.723 | 0.000 | 0.000 | 55.593 | 40.238 | 87.444 | MWD+IFR1+MS |
| 13700.000 | 90.000 | 269.836 | 9808.997 | 41.333 | 0.000 | 56.435 | 0.000 | 41.333 | 0.000 | 0.000 | 56.457 | 40.259 | 87.565 | MWD+IFR1+MS |
| 13800.000 | 90.000 | 269.836 | 9808.997 | 41.950 | 0.000 | 57.310 | 0.000 | 41.950 | 0.000 | 0.000 | 57.331 | 40.280 | 87.675 | MWD+IFR1+MS |
| 13900.000 | 90.000 | 269.836 | 9808.997 | 42.572 | 0.000 | 58.193 | 0.000 | 42.572 | 0.000 | 0.000 | 58.213 | 40.302 | 87.776 | MWD+IFR1+MS |
| 14000.000 | 90.000 | 269.836 | 9808.997 | 43.199 | 0.000 | 59.084 | 0.000 | 43.199 | 0.000 | 0.000 | 59.103 | 40.324 | 87.869 | MWD+IFR1+MS |
| 14100.000 | 90.000 | 269.836 | 9808.997 | 43.831 | 0.000 | 59.983 | 0.000 | 43.831 | 0.000 | 0.000 | 60.001 | 40.347 | 87.955 | MWD+IFR1+MS |
| 14200.000 | 90.000 | 269.836 | 9808.997 | 44.469 | 0.000 | 60.889 | 0.000 | 44.469 | 0.000 | 0.000 | 60.906 | 40.370 | 88.034 | MWD+IFR1+MS |
| 14300.000 | 90.000 | 269.836 | 9808.997 | 45.110 | 0.000 | 61.802 | 0.000 | 45.110 | 0.000 | 0.000 | 61.819 | 40.394 | 88.107 | MWD+IFR1+MS |
| 14400.000 | 90.000 | 269.836 | 9808.997 | 45.757 | 0.000 | 62.722 | 0.000 | 45.757 | 0.000 | 0.000 | 62.738 | 40.418 | 88.175 | MWD+IFR1+MS |
| 14500.000 | 90.000 | 269.836 | 9808.997 | 46.407 | 0.000 | 63.649 | 0.000 | 46.407 | 0.000 | 0.000 | 63.664 | 40.443 | 88.238 | MWD+IFR1+MS |
| 14600.000 | 90.000 | 269.836 | 9808.997 | 47.062 | 0.000 | 64.582 | 0.000 | 47.062 | 0.000 | 0.000 | 64.596 | 40.468 | 88.297 | MWD+IFR1+MS |
| 14700.000 | 90.000 | 269.836 | 9808.997 | 47.721 | 0.000 | 65.520 | 0.000 | 47.721 | 0.000 | 0.000 | 65.534 | 40.494 | 88.352 | MWD+IFR1+MS |
| 14800.000 | 90.000 | 269.836 | 9808.997 | 48.383 | 0.000 | 66.464 | 0.000 | 48.383 | 0.000 | 0.000 | 66.477 | 40.520 | 88.404 | MWD+IFR1+MS |
| 14900.000 | 90.000 | 269.836 | 9808.997 | 49.049 | 0.000 | 67.414 | 0.000 | 49.049 | 0.000 | 0.000 | 67.427 | 40.546 | 88.452 | MWD+IFR1+MS |
| 15000.000 | 90.000 | 269.836 | 9808.997 | 49.718 | 0.000 | 68.369 | 0.000 | 49.718 | 0.000 | 0.000 | 68.381 | 40.574 | 88.498 | MWD+IFR1+MS |
| 15100.000 | 90.000 | 269.836 | 9808.997 | 50.391 | 0.000 | 69.329 | 0.000 | 50.391 | 0.000 | 0.000 | 69.340 | 40.601 | 88.540 | MWD+IFR1+MS |
| 15200.000 | 90.000 | 269.836 | 9808.997 | 51.067 | 0.000 | 70.293 | 0.000 | 51.067 | 0.000 | 0.000 | 70.305 | 40.629 | 88.581 | MWD+IFR1+MS |
| 15300.000 | 90.000 | 269.836 | 9808.997 | 51.746 | 0.000 | 71.263 | 0.000 | 51.746 | 0.000 | 0.000 | 71.273 | 40.658 | 88.619 | MWD+IFR1+MS |
| 15400.000 | 90.000 | 269.836 | 9808.997 | 52.428 | 0.000 | 72.236 | 0.000 | 52.428 | 0.000 | 0.000 | 72.247 | 40.687 | 88.655 | MWD+IFR1+MS |
| 15500.000 | 90.000 | 269.836 | 9808.997 | 53.113 | 0.000 | 73.214 | 0.000 | 53.113 | 0.000 | 0.000 | 73.224 | 40.717 | 88.689 | MWD+IFR1+MS |
| 15600.000 | 90.000 | 269.836 | 9808.997 | 53.800 | 0.000 | 74.196 | 0.000 | 53.800 | 0.000 | 0.000 | 74.206 | 40.747 | 88.722 | MWD+IFR1+MS |
| 15700.000 | 90.000 | 269.836 | 9808.997 | 54.491 | 0.000 | 75.182 | 0.000 | 54.491 | 0.000 | 0.000 | 75.191 | 40.777 | 88.753 | MWD+IFR1+MS |

| 15800.000 | 90.000 | 269.836 | 9808.997 | 55.183 | 0.000 | 76.171 | 0.000 | 55.183 | 0.000 | 0.000 | 76.181 | 40.809 | 88.782 | MWD+IFR1+MS |
|-----------|--------|---------|----------|--------|-------|--------|-------|--------|-------|-------|--------|--------|--------|-------------|
| 15900.000 | 90.000 | 269.836 | 9808.997 | 55.878 | 0.000 | 77.164 | 0.000 | 55.878 | 0.000 | 0.000 | 77.173 | 40.840 | 88.810 | MWD+IFR1+MS |
| 16000.000 | 90.000 | 269.836 | 9808.997 | 56.576 | 0.000 | 78.161 | 0.000 | 56.576 | 0.000 | 0.000 | 78.170 | 40.872 | 88.836 | MWD+IFR1+MS |
| 16100.000 | 90.000 | 269.836 | 9808.997 | 57.276 | 0.000 | 79.161 | 0.000 | 57.276 | 0.000 | 0.000 | 79.169 | 40.905 | 88.862 | MWD+IFR1+MS |
| 16200.000 | 90.000 | 269.836 | 9808.997 | 57.978 | 0.000 | 80.164 | 0.000 | 57.978 | 0.000 | 0.000 | 80.172 | 40.938 | 88.886 | MWD+IFR1+MS |
| 16300.000 | 90.000 | 269.836 | 9808.997 | 58.682 | 0.000 | 81.171 | 0.000 | 58.682 | 0.000 | 0.000 | 81.178 | 40.972 | 88.909 | MWD+IFR1+MS |
| 16400.000 | 90.000 | 269.836 | 9808.997 | 59.388 | 0.000 | 82.180 | 0.000 | 59.388 | 0.000 | 0.000 | 82.187 | 41.006 | 88.931 | MWD+IFR1+MS |
| 16500.000 | 90.000 | 269.836 | 9808.997 | 60.096 | 0.000 | 83.192 | 0.000 | 60.096 | 0.000 | 0.000 | 83.199 | 41.040 | 88.952 | MWD+IFR1+MS |
| 16600.000 | 90.000 | 269.836 | 9808.997 | 60.806 | 0.000 | 84.207 | 0.000 | 60.806 | 0.000 | 0.000 | 84.214 | 41.076 | 88.972 | MWD+IFR1+MS |
| 16700.000 | 90.000 | 269.836 | 9808.997 | 61.517 | 0.000 | 85.224 | 0.000 | 61.517 | 0.000 | 0.000 | 85.231 | 41.111 | 88.992 | MWD+IFR1+MS |
| 16800.000 | 90.000 | 269.836 | 9808.997 | 62.231 | 0.000 | 86.244 | 0.000 | 62.231 | 0.000 | 0.000 | 86.251 | 41.147 | 89.010 | MWD+IFR1+MS |
| 16900.000 | 90.000 | 269.836 | 9808.997 | 62.946 | 0.000 | 87.267 | 0.000 | 62.946 | 0.000 | 0.000 | 87.274 | 41.184 | 89.028 | MWD+IFR1+MS |
| 17000.000 | 90.000 | 269.836 | 9808.997 | 63.663 | 0.000 | 88.292 | 0.000 | 63.663 | 0.000 | 0.000 | 88.299 | 41.221 | 89.045 | MWD+IFR1+MS |
| 17100.000 | 90.000 | 269.836 | 9808.997 | 64.381 | 0.000 | 89.319 | 0.000 | 64.381 | 0.000 | 0.000 | 89.326 | 41.259 | 89.062 | MWD+IFR1+MS |
| 17135.695 | 90.000 | 269.836 | 9808.997 | 64.637 | 0.000 | 89.686 | 0.000 | 64.637 | 0.000 | 0.000 | 89.692 | 41.272 | 89.067 | MWD+IFR1+MS |
| 17185.754 | 90.000 | 269.836 | 9808.997 | 64.996 | 0.000 | 90.200 | 0.000 | 64.996 | 0.000 | 0.000 | 90.206 | 41.291 | 89.075 | MWD+IFR1+MS |
| | | | | | | | | | | | | | | |

Plan Targets

| | Measured Depth | Grid Northing | Grid Easting | TVD MSL Target Shape |
|-------------|----------------|----------------------|---------------------|----------------------|
| Target Name | (ft) | (ft) | (ft) | (ft) |
| FTP 1 | 9996.66 | 503438.80 | 656564.30 | 6402.00 CIRCLE |
| LTP 1 | 17135.76 | 503417.10 | 648974.10 | 6402.00 CIRCLE |
| BHL 1 | 17185.82 | 503417.00 | 648924.10 | 6402.00 CIRCLE |



11/8/2023 1:08:50 PM

U. S. Steel Tubular Products 5.500" 20.00lb/ft (0.361" Wall)

P110 RY USS-FREEDOM HTQ®

| MECHANICAL PROPERTIES | Pipe | USS-FREEDOM HTQ [®] | |
|----------------------------------|---------|------------------------------|------------|
| Minimum Yield Strength | 110,000 | | psi |
| Maximum Yield Strength | 125,000 | | psi |
| Minimum Tensile Strength | 125,000 | | psi |
| DIMENSIONS | Pipe | USS-FREEDOM HTQ® | |
| Outside Diameter | 5.500 | 6.300 | in. |
| Wall Thickness | 0.361 | | in. |
| Inside Diameter | 4.778 | 4.778 | in. |
| Standard Drift | 4.653 | 4.653 | in. |
| Alternate Drift | | | in. |
| Nominal Linear Weight, T&C | 20.00 | | lb/ft |
| Plain End Weight | 19.83 | | lb/ft |
| ECTION AREA | Pipe | USS-FREEDOM HTQ® | |
| Critical Area | 5.828 | 5.828 | sq. in. |
| Joint Efficiency | | 100.0 | % |
| ERFORMANCE | Pipe | USS-FREEDOM HTQ® | |
| Minimum Collapse Pressure | 11,100 | 11,100 | psi |
| Minimum Internal Yield Pressure | 12,640 | 12,640 | psi |
| Minimum Pipe Body Yield Strength | 641,000 | | lb |
| Joint Strength | | 641,000 | lb |
| Compression Rating | | 641,000 | lb |
| Reference Length [4] | | 21,370 | ft |
| Maximum Uniaxial Bend Rating [2] | | 91.7 | deg/100 ft |
| IAKE-UP DATA | Pipe | USS-FREEDOM HTQ [®] | |
| Make-Up Loss | | 4.13 | in. |
| Minimum Make-Up Torque [3] | | 15,000 | ft-lb |
| Maximum Make-Up Torque [3] | | 21,000 | ft-lb |
| Maximum Operating Torque[3] | | 29,500 | ft-lb |

Notes

- 1. Other than proprietary collapse and connection values, performance properties have been calculated using standard equations defined by API 5C3 and do not incorporate any additional design or safety factors. Calculations assume nominal pipe OD, nominal wall thickness, and Specified Minimum Yield Strength (SMYS).
- 2. Uniaxial bending rating shown is structural only, and equal to compression efficiency.
- 3. Torques have been calculated assuming a thread compound friction factor of 1.0 and are recommended only. Field make-up torques may require adjustment based on actual field conditions (e.g. make-up speed, temperature, thread compound, etc.).
- Reference length is calculated by joint strength divided by plain end weight with 1.5 safety factor.

Legal Notice

All material contained in this publication is for general information only. This material should not therefore be used or relied upon for any specific application without independent competent professional examination and verification of accuracy, suitability and applicability. Anyone making use of this material does so at their own risk and assumes any and all liability resulting from such use. U. S. Steel disclaims any and all expressed or implied warranties of fitness for any general or particular application.

U. S. Steel Tubular Products 460 Wildwood Forest Drive, Suite 300S Spring, Texas 77380 1-877-893-9461 connections@uss.com www.usstubular.com

11/29/2021 4·16·04 PM

U. S. Steel Tubular Products 5.500" 20.00lb/ft (0.361" Wall)

P110 RY USS-TALON HTQ™ RD

| MECHANICAL PROPERTIES | Pipe | USS-TALON HTQ™ RD | | [6] |
|----------------------------------|---------|-------------------|------------|-----|
| Minimum Yield Strength | 110,000 | | psi | |
| Maximum Yield Strength | 125,000 | | psi | |
| Minimum Tensile Strength | 125,000 | | psi | |
| DIMENSIONS | Pipe | USS-TALON HTQ™ RD | | |
| Outside Diameter | 5.500 | 5.900 | in. | |
| Wall Thickness | 0.361 | | in. | |
| Inside Diameter | 4.778 | 4.778 | in. | |
| Standard Drift | 4.653 | 4.653 | in. | |
| Alternate Drift | | | in. | |
| Nominal Linear Weight, T&C | 20.00 | | lb/ft | |
| Plain End Weight | 19.83 | | lb/ft | |
| SECTION AREA | Pipe | USS-TALON HTQ™ RD | | |
| Critical Area | 5.828 | 5.828 | sq. in. | |
| Joint Efficiency | | 100.0 | % | [2] |
| PERFORMANCE | Pipe | USS-TALON HTQ™ RD | | |
| Minimum Collapse Pressure | 11,100 | 11,100 | psi | |
| Minimum Internal Yield Pressure | 12,640 | 12,640 | psi | |
| Minimum Pipe Body Yield Strength | 641,000 | | lb | |
| Joint Strength | | 641,000 | lb | |
| Compression Rating | | 641,000 | lb | |
| Reference Length | | 21,370 | ft | [5] |
| Maximum Uniaxial Bend Rating | | 91.7 | deg/100 ft | [3] |
| MAKE-UP DATA | Pipe | USS-TALON HTQ™ RD | | |
| Make-Up Loss | | 5.58 | in. | |
| Minimum Make-Up Torque | | 17,000 | ft-lb | [4] |
| Maximum Make-Up Torque | | 20,000 | ft-lb | [4] |
| Maximum Operating Torque | | 39,500 | ft-lb | [4] |

Notes

- 1. Other than proprietary collapse and connection values, performance properties have been calculated using standard equations defined by API 5C3 and do not incorporate any additional design or safety factors. Calculations assume nominal pipe OD, nominal wall thickness, and Specified Minimum Yield Strength (SMYS).
- 2. Joint efficiencies are calculated by dividing the connection critical area by the pipe body area.
- 3. Uniaxial bend rating shown is structural only.
- 4. Torques have been calculated assuming a thread compound friction factor of 1.0 and are recommended only. Field make-up torques may require adjustment based on actual field conditions (e.g. make-up speed, temperature, thread compound, etc.).
- 5. Reference length is calculated by Joint Strength divided by Nominal Linear Weight, T&C with a 1.5 Safety factor.
- 6. Coupling must meet minimum mechanical properties of the pipe.

Legal Notice

All material contained in this publication is for general information only. This material should not therefore be used or relied upon for any specific application without independent competent professional examination and verification of accuracy, suitability and applicability. Anyone making use of this material does so at their own risk and assumes any and all liability resulting from such use. U. S. Steel disclaims any and all expressed or implied warranties of fitness for any general or particular application.

U. S. Steel Tubular Products 460 Wildwood Forest Drive, Suite 300S Spring, Texas 77380 1-877-893-9461 connections@uss.com www.usstubular.com

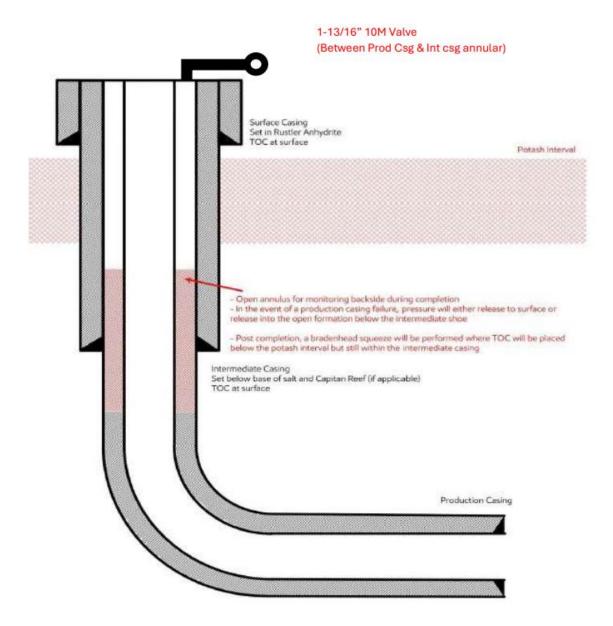


Figure B - 3 String Design - Open Production Casing Annulus (Updated May 2024):

XTO is aware of the R-111-Q update & will comply with these requirements including (but not limited to):

- 1. Alignment with KPLA requirements per schematic above, leaving open annulus for pressure monitoring during frac and utilizing new casing that meets API standards
- 2. Contingency plans in place to divert formation fluids away from salt interval in event of production casing failure
- 3. TOC in the annulus between intermediate & production casing string shall stand uncemented at least 500 feet below the intermediate casing shoe
- 4. Bradenhead squeeze to be completed within 180 days after hydraulic frac operations have been concluded to ensure at least a 500 feet tie-back has been established inside salt string but with top below MB 126

 $C\Delta$

CACTUS WELLHEAD LLC

20" x 9-5/8" x 7-5/8" x 5-1/2" MBU-T-CFL-R-DBLO Wellhead With 11" 10M x 7-1/16" 15M CTH-DBLHPS Tubing Head And 9-5/8", 7-5/8" & 5-1/2" Pin Bottom Mandrel Casing Hangers

ALL DIMENSIONS APPROXIMATE
XTO ENERGY INC
DELAWARE BASIN

DRAWN VJK 31MAR22
APPRV

DRAWING NO. HBE0000479

FORMATION CONTAINED HEREIN IS THE PROPERTY OF CACTUS WELLHEAD, LLC. REPRODUCTION, SCLOSURE, OR USE THEREOF IS PERMISSIBLE ONLY AS PROVIDED BY CONTRACT OR AS EXPRESSLY SUTHORIZED BY CACTUS WELLHEAD, LLC.

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 440298

CONDITIONS

| Operator: | OGRID: |
|----------------------------|--------------------------------------|
| XTO PERMIAN OPERATING LLC. | 373075 |
| 6401 HOLIDAY HILL ROAD | Action Number: |
| MIDLAND, TX 79707 | 440298 |
| | Action Type: |
| | [C-103] NOI Change of Plans (C-103A) |

CONDITIONS

| Created By | Condition | Condition Date |
|-------------|--|-------------------|
| ward.rikala | Operator must comply with all of the R-111-Q requirements. | 4/26/2025 |
| ward.rikala | Any previous COA's not addressed within the updated COA's still apply. | 4/26/2025 |