

<b>Well Name:</b> POKER LAKE UNIT 22 DTD	<b>Well Location:</b> T24S / R30E / SEC 22 / NENW /	<b>County or Parish/State:</b>
<b>Well Number:</b> 183H	<b>Type of Well:</b> CONVENTIONAL GAS WELL	<b>Allottee or Tribe Name:</b>
<b>Lease Number:</b> NMNM068905	<b>Unit or CA Name:</b>	<b>Unit or CA Number:</b>
<b>US Well Number:</b> 3001549887	<b>Well Status:</b> Approved Application for Permit to Drill	<b>Operator:</b> XTO PERMIAN OPERATING LLC

## Notice of Intent

**Sundry ID: 2761885**

Type of Submission: Notice of Intent

**Type of Action:** APD Change

**Date Sundry Submitted: 11/28/2023**

**Time Sundry Submitted: 12:10**

**Date proposed operation will begin: 11/27/2023**

**Procedure Description:** XTO Permian Operating LLC. respectfully requests approval to make changes to the Approved APD as follows: SHL, BHL, FTP, LTP and Directional Drilling Plan, Casing and cement changes SHL: FROM: 203' FNL & 1536' FWL TO: 13' FNL & 2024' FWL of Section 22-T24S-R30E BHL: FROM: 198' FNL & 1870' FWL TO: 50' FNL & 1810' FWL of Section 3-T24S-R30E FTP: FROM: 100' FNL & 1536' FWL TO: 500' FNL & 1810' FWL of Section 22-T24S-R30E LTP: FROM: 328' FNL & 1870' FWL TO: 100' FNL & 1810' FWL of Section 3-T24S-R30E CASING CHANGES: 6" 26# P-110 casing will be run instead of 5-1/2" 23# P-110. ATTACHMENTS: New C-102, Directional Plan, Drilling Plan, Wellhead Design

## NOI Attachments

## Procedure Description

POKER\_LAKE\_UNIT\_22\_DTD\_183H\_signed\_11\_10\_2023\_20231214155154.pdf

Poker\_Lake\_Unit\_22\_DTD\_183H\_sundry\_attachments\_11\_16\_2023\_20231128120954.pdf

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Conditions of Approval

**Additional**

Sec\_22\_24S\_30E\_NMP\_Sundry\_2761885\_Poker\_Lake\_Unit\_22\_DTD\_183H\_COAs\_20231226113314.pdf

Sec\_22\_24S\_30E\_NMP\_Sundry\_2761885\_Poker\_Lake\_Unit\_22\_DTD\_183H\_Eng\_Worksheet\_20231226113314.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:** RANELL (RUSTY) KLEIN      **Signed on:** DEC 14, 2023 03:52 PM

**Name:** XTO PERMIAN OPERATING LLC

**Title:** Regulatory Analyst

**Street Address:** 6401 HOLIDAY HILL ROAD BLDG 5

**City:** MIDLAND      **State:** TX

**Phone:** (432) 620-6700

**Email address:** RANELL.KLEIN@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:** 12/28/2023

**Signature:** Chris Walls

Form 3160-5  
(June 2019)UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB No. 1004-0137  
Expires: October 31, 2021**SUNDRY NOTICES AND REPORTS ON WELLS**  
**Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.**5. Lease Serial No. **NMLC068905**

6. If Indian, Allottee or Tribe Name

**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other2. Name of Operator **XTO PERMIAN OPERATING LLC**3a. Address **6401 HOLIDAY HILL ROAD BLDG 5, MIDLAND,** 3b. Phone No. (include area code)  
**(432) 683-2277**4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
**SEC 22/T24S/R30E/NMP**

7. If Unit of CA/Agreement, Name and/or No.

8. Well Name and No. **POKER LAKE UNIT 22 DTD/183H**9. API Well No. **3001549887**10. Field and Pool or Exploratory Area  
**PURPLE SAGE/WOLFCAMP (GAS)**11. Country or Parish, State  
**EDDY/NM****12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA**

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

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

XTO Permian Operating LLC. respectfully requests approval to make changes to the Approved APD as follows: SHL, BHL, FTP, LTP and Directional Drilling Plan, Casing and cement changes

SHL: FROM: 203 FNL & 1536 FWL TO: 13 FNL & 2024 FWL of Section 22-T24S-R30E

BHL: FROM: 198 FNL & 1870 FWL TO: 50 FNL & 1810 FWL of Section 3-T24S-R30E

FTP: FROM: 100 FNL & 1536 FWL TO: 500 FNL & 1810 FWL of Section 22-T24S-R30E

LTP: FROM: 328 FNL & 1870 FWL TO: 100 FNL & 1810 FWL of Section 3-T24S-R30E

CASING CHANGES: 6 26# P-110 casing will be run instead of 5-1/2 23# P-110.

ATTACHMENTS: New C-102, Directional Plan, Drilling Plan, Wellhead Design

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)  
**RANEL (RUSTY) KLEIN / Ph: (432) 620-6700**

Title **Regulatory Analyst**

(Electronic Submission)  
Signature

Date **12/14/2023**

**THE SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

**CHRISTOPHER WALLS / Ph: (575) 234-2234 / Approved**

Title **Petroleum Engineer**

Date **12/28/2023**

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office **CARLSBAD**

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

(Instructions on page 2)

## GENERAL INSTRUCTIONS

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

## SPECIFIC INSTRUCTIONS

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

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

## NOTICES

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

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

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

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

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

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

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

Response to this request is mandatory.

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

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

## Additional Information

### Location of Well

0. SHL: NENW / 203 FNL / 1536 FWL / TWSP: 24S / RANGE: 30E / SECTION: 22 / LAT: 32.20997 / LONG: -103.872621 ( TVD: 0 feet, MD: 0 feet )

PPP: SENW / 100 FSL / 1577 FWL / TWSP: 24S / RANGE: 30E / SECTION: 15 / LAT: 32.210805 / LONG: -103.872488 ( TVD: 11607 feet, MD: 14574 feet )

PPP: SESW / 100 FSL / 1870 FWL / TWSP: 24S / RANGE: 30E / SECTION: 15 / LAT: 32.210811 / LONG: -103.87154 ( TVD: 11607 feet, MD: 11934 feet )

PPP: SENW / 300 FNL / 313 FWL / TWSP: 24S / RANGE: 30E / SECTION: 10 / LAT: 32.253158 / LONG: -103.876545 ( TVD: 11607 feet, MD: 17214 feet )

BHL: LOT 3 / 198 FNL / 1870 FWL / TWSP: 24S / RANGE: 30E / SECTION: 3 / LAT: 32.253529 / LONG: -103.871511 ( TVD: 11607 feet, MD: 27484 feet )

## PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

<b>OPERATOR'S NAME:</b>	XTO Permian Operating LLC
<b>WELL NAME &amp; NO.:</b>	Poker Lake Unit 22 DTD 183H
<b>LOCATION:</b>	Sec 22-24S-30E-NMP
<b>COUNTY:</b>	Eddy County, New Mexico

*Changes approved through engineering via **Sundry 2761885** on 12/26/2023. Any previous COAs not addressed within the updated COAs still apply.*

### COA

<b>H<sub>2</sub>S</b>	<input checked="" type="radio"/> No	<input type="radio"/> Yes		
<b>Potash / WIPP</b>	<input checked="" type="radio"/> None	<input type="radio"/> Secretary	<input type="radio"/> R-111-P	<input type="checkbox"/> WIPP
<b>Cave / Karst</b>	<input checked="" type="radio"/> Low	<input type="radio"/> Medium	<input type="radio"/> High	<input type="radio"/> Critical
<b>Wellhead</b>	<input type="radio"/> Conventional	<input checked="" type="radio"/> Multibowl	<input type="radio"/> Both	<input type="radio"/> Diverter
<b>Cementing</b>	<input type="checkbox"/> Primary Squeeze	<input checked="" type="checkbox"/> Cont. Squeeze	<input checked="" type="checkbox"/> EchoMeter	<input type="checkbox"/> DV Tool
<b>Special Req</b>	<input checked="" type="checkbox"/> Break Testing	<input type="checkbox"/> Water Disposal	<input type="checkbox"/> COM	<input checked="" type="checkbox"/> Unit
<b>Variance</b>	<input checked="" type="checkbox"/> Flex Hose	<input type="checkbox"/> Casing Clearance	<input type="checkbox"/> Pilot Hole	<input type="checkbox"/> Capitan Reef
<b>Variance</b>	<input type="checkbox"/> Four-String	<input checked="" type="checkbox"/> Offline Cementing	<input type="checkbox"/> Fluid-Filled	<input type="checkbox"/> Open Annulus
<input type="checkbox"/> <b>Batch APD / Sundry</b>				

### A. HYDROGEN SULFIDE

Hydrogen Sulfide (H<sub>2</sub>S) monitors shall be installed prior to drilling out the surface shoe. If H<sub>2</sub>S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet 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.

### B. CASING

1. The **13-3/8** inch surface casing shall be set at approximately 802 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 **8**

**hours** or 500 pounds compressive strength, 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 **9-5/8** inch intermediate casing is:

Operator has proposed to cement in two stages by conventionally cementing the first stage and performing a bradenhead squeeze on the second stage, contingent upon no returns to surface.

- a. First stage: Operator will cement with intent to reach the top of the **Brushy Canyon at 6163'**
- b. Second stage:
  - Operator will perform bradenhead squeeze and top-out. Cement to surface. If cement does not reach surface, the appropriate BLM office shall be notified.

**Operator has proposed to pump down 13-3/8" X 9-5/8" annulus after primary cementing stage. Operator must run Echo-meter to verify Cement Slurry/Fluid top in the annulus OR operator shall run a CBL from TD of the 9-5/8" casing to surface after the second stage BH to verify TOC.**

**Submit results to the BLM. No displacement fluid/wash out shall be utilized at the top of the cement slurry between second stage BH and top out.**

**If cement does not reach surface, the next casing string must come to surface.**

**Operator must use a limited flush fluid volume of 1 bbl following backside cementing procedures.**

3. The minimum required fill of cement behind the **6** inch production casing is:
  - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

### **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)**

##### **Unit Wells**

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

##### **Commercial Well Determination**

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

##### **BOPE Break Testing Variance**

- BOPE Break Testing is ONLY permitted for 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 (575-361-2822 Eddy County) 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 Onshore Oil and Gas Order No. 2.
- 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.

## GENERAL REQUIREMENTS

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

- Spudding well (minimum of 24 hours)
  - Setting and/or Cementing of all casing strings (minimum of 4 hours)
  - BOPE tests (minimum of 4 hours)
    - **Eddy County (API No. / US Well No. contains 30-015-#####)**  
Email or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, **BLM\_NM\_CFO\_DrillingNotifications@BLM.GOV**  
(575) 361-2822
    - **Lea County (API No. / US Well No. contains 30-025-#####)**  
Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240,  
(575) 689-5981
- 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.
    - 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).
    - When the operator proposes to set surface casing with Spudder Rig
      - Notify the BLM when moving in and removing the Spudder Rig.
      - Notify the BLM when moving in the 2<sup>nd</sup> Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
      - BOP/BOPE test to be conducted per **43 CFR part 3170 Subpart 3172** as soon as 2nd Rig is rigged up on well.
  - 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. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

#### 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, 2) until cement has been in place at least 24 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-P 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 part 3170 Subpart 3172** and **API STD 53 Sec. 5.3**.
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:
  - 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. Whenever any seal subject to test pressure is broken, all the tests in **43 CFR part 3170 Subpart 3172** must be followed.

- e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
- a. 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).
  - b. 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.)
  - c. 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 part 3170 Subpart 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 water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
  - d. 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.
  - e. The results of the test shall be reported to the appropriate BLM office.
  - f. 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.

- g. 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.
- h. 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 part 3170 Subpart 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.

## Sec 22-24S-30E-NMP Sundry 2761885 Poker Lake Unit 22 DTD 183H Eng Worksheet

## Poker Lake Unit 22 DTD 183H

13 3/8	surface csg in a	17 1/2	inch hole.	Design Factors					Surface		
Segment	#/ft	Grade	Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	54.50	J 55	BTC	19.52	3.01	1.38	802	8	2.50	5.69	43,709
"B"			BTC				0				0
w/8.4#/g mud, 30min Sfc Csg Test psig: 1,500				Tail Cmt	does not	circ to sfc.	Totals:	802			43,709
Comparison of Proposed to Minimum Required Cement Volumes											
Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE			Min Dist Hole-Cplg
17 1/2	0.6946	670	1097	557	97	9.00	1094	2M			1.56
Site plat (pipe racks S or E) as per O O 1 DED 41, not found.											

9 5/8	casing inside the	13 3/8	Design Factors					Int 1				
Segment	#/ft	Grade	Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight	
"A"	40.00	HCP 110	BTC	7.87	2.14	1.49	4,000	4	2.36	3.87	160,000	
"B"	40.00	HCL 80	BTC	∞	2.14	1.09	4,954	3	1.72	3.87	198,160	
w/8.4#/g mud, 30min Sfc Csg Test psig:							Totals:	8,954			358,160	
The cement volume(s) are intended to achieve a top of				0	ft from surface or a				802			overlap.
Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE			Min Dist Hole-Cplg	
12 1/4	0.3132	1840	3961	2844	39	9.50	3342	5M			0.81	

Tail cmt											
6	casing inside the		9 5/8	Design Factors					Prod 1		
Segment	#/ft	Grade	Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	26.00	RY P 110	semi-Premiur	4.14	2.94	3.01	8,854	3	4.76	4.65	230,204
"B"	26.00	RY P 110	semi-Premiur	∞	2.94	3.01	17,901	3	4.76	4.65	465,426
w/8.4#/g mud, 30min Sfc Csg Test psig: 1,948						Totals:	26,755			695,630	
The cement volume(s) are intended to achieve a top of				8400	ft from surface or a		554			overlap.	
Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE			Min Dist Hole-Cplg
8 1/2	0.1977	3020	4631	3647	27	11.50					0.81
Class 'C' tail cmt yld > 1.35											

#N/A											
0	6			Design Factors				<Choose Casing>			
Segment	#/ft	Grade	Coupling	#N/A	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"			0.00				0				0
"B"			0.00				0				0
w/8.4#/g mud, 30min Sfc Csg Test psig:							Totals:	0			0
Cmt vol calc below includes this csg, TOC intended				#N/A	ft from surface or a		#N/A				overlap.
Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE			Min Dist Hole-Cplg
0		#N/A	#N/A	0	#N/A						
#N/A Capitan Reef est top XXXX.											



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

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

Form C-102  
Revised August 1, 2011  
Submit one copy to appropriate  
District Office

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

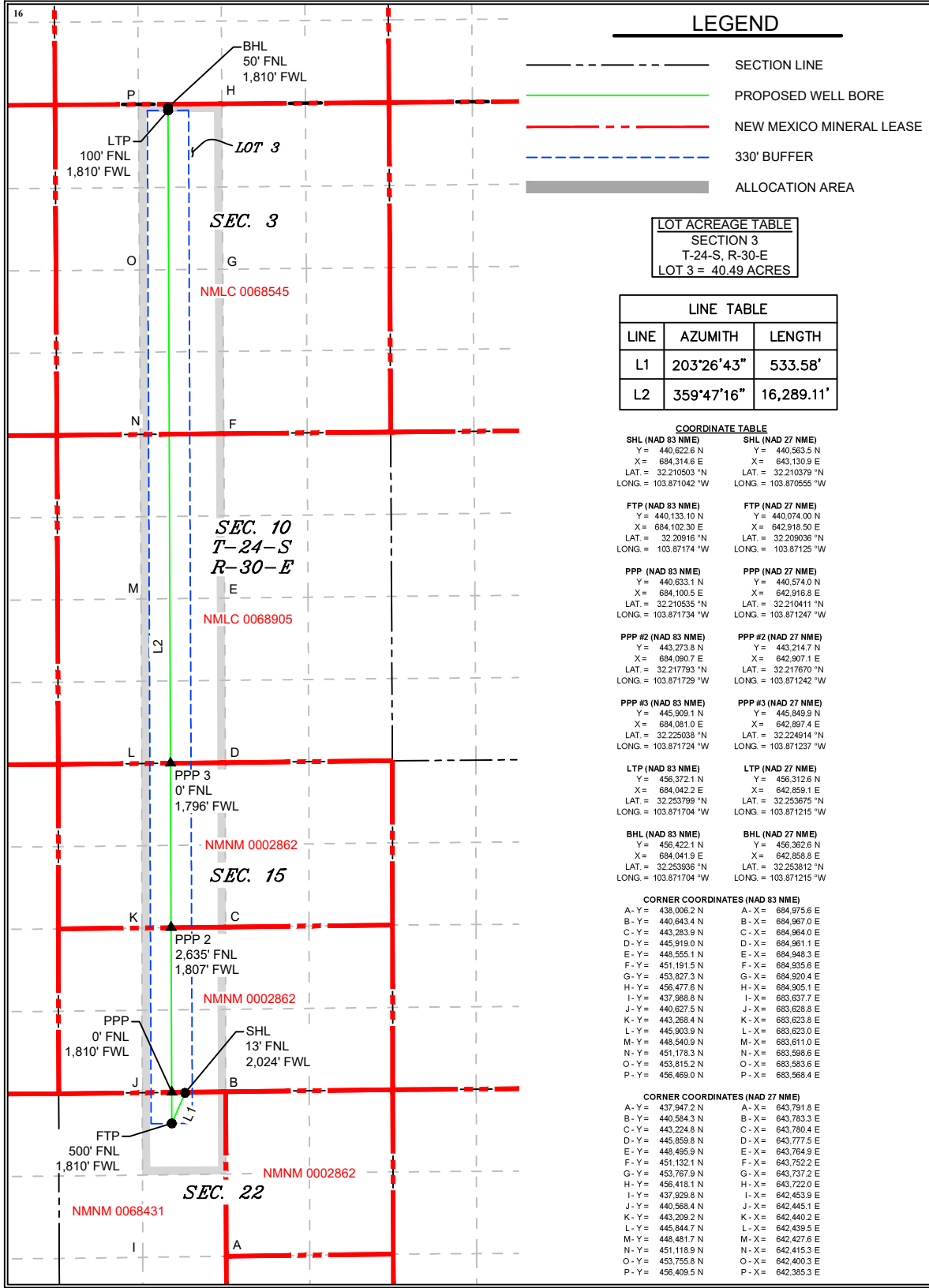
<sup>1</sup> API Number 30-015- 49887	<sup>2</sup> Pool Code 98220	<sup>3</sup> Pool Name Purple Sage; Wolfcamp (gas)
<sup>4</sup> Property Code 333192	<sup>5</sup> Property Name POKER LAKE UNIT 22 DTD	<sup>6</sup> Well Number 183H
<sup>7</sup> OGRID No. 373075	<sup>8</sup> Operator Name XTO PERMIAN OPERATING, LLC.	<sup>9</sup> Elevation 3,431'

<sup>10</sup> Surface Location									
UL or lot no. C	Section 22	Township 24S	Range 30E	Lot Idn	Feet from the 13	North/South line NORTH	Feet from the 2,024	East/West line WEST	County EDDY

<sup>11</sup> Bottom Hole Location If Different From Surface									
UL or lot no. 3	Section 3	Township 24S	Range 30E	Lot Idn	Feet from the 50	North/South line NORTH	Feet from the 1,810	East/West line WEST	County EDDY

<sup>12</sup> Dedicated Acres 960.98	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
---	-------------------------------	----------------------------------	-------------------------

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



<sup>17</sup> OPERATOR CERTIFICATION

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

Rusty Klein 11-10-23  
Signature Date

RUSTY KLEIN  
Printed Name

ranell.klein@exxonmobil.com  
E-mail Address

<sup>18</sup> SURVEYOR CERTIFICATION

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

10-31-2023  
Date of Survey

Signature and Seal of Professional Surveyor:



MARK DILLON HARP 23786  
Certificate Number

KC/RP 618.013003.08-14



Intent ☒ As Drilled ☐

API # <b>30015</b>		
Operator Name: <b>XTO PERMIAN OPERATING, LLC</b>	Property Name: <b>Poker Lake Unit 22 DTD</b>	Well Number <b>183H</b>

## Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

## First Take Point (FTP)

UL <b>C</b>	Section <b>22</b>	Township <b>24S</b>	Range <b>30E</b>	Lot	Feet <b>500</b>	From N/S <b>North</b>	Feet <b>1,810</b>	From E/W <b>West</b>	County <b>Eddy</b>
Latitude <b>32.20916</b>					Longitude <b>103.87174</b>				NAD <b>83</b>

## Last Take Point (LTP)

UL <b>3</b>	Section <b>3</b>	Township <b>24S</b>	Range <b>30E</b>	Lot	Feet <b>100</b>	From N/S <b>North</b>	Feet <b>1,810</b>	From E/W <b>West</b>	County <b>Eddy</b>
Latitude <b>32.253799</b>					Longitude <b>103.871704</b>				NAD <b>83</b>

Is this well the defining well for the Horizontal Spacing Unit? ☐Is this well an infill well? ☐

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018

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1625 N French Dr., Hobbs, NM 88240  
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☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number <b>30-015-49887</b>	<sup>2</sup> Pool Code 98220	<sup>3</sup> Pool Name Purple Sage, Wolfcamp (gas)
<sup>4</sup> Property Code 333192	<sup>5</sup> Property Name <b>POKER LAKE UNIT 22 DTD</b>	<sup>6</sup> Well Number <b>183H</b>
<sup>7</sup> OGRID No. <b>373075</b>	<sup>8</sup> Operator Name <b>XTO PERMIAN OPERATING, LLC.</b>	<sup>9</sup> Elevation <b>3,431'</b>

<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<b>C</b>	<b>22</b>	<b>24S</b>	<b>30E</b>		<b>13</b>	<b>NORTH</b>	<b>2,024</b>	<b>WEST</b>	<b>EDDY</b>

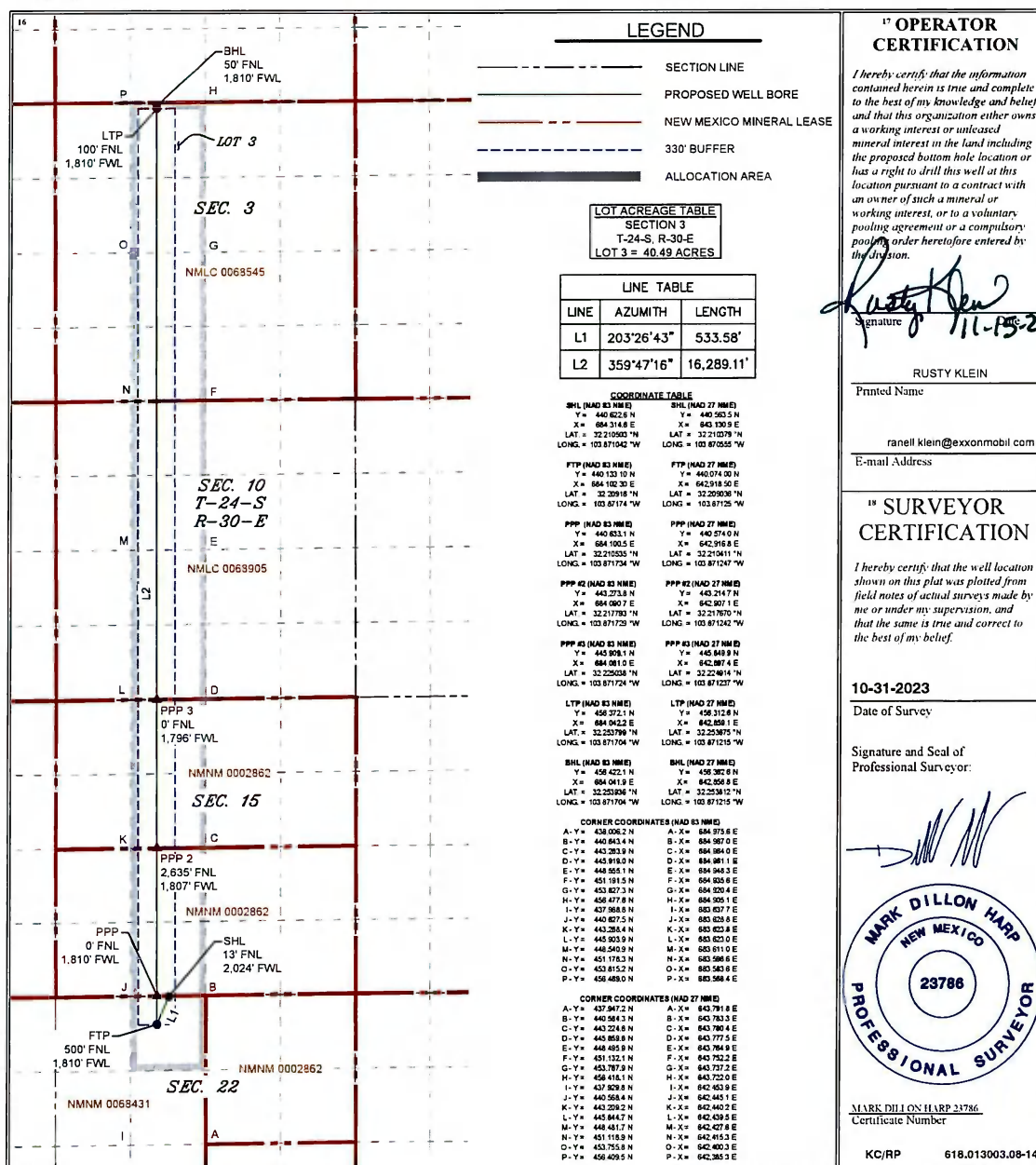
<sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<b>3</b>	<b>3</b>	<b>24S</b>	<b>30E</b>		<b>50</b>	<b>NORTH</b>	<b>1,810</b>	<b>WEST</b>	<b>EDDY</b>

<sup>12</sup> Dedicated Acres	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
960.98			

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

P:\618.013 XTO Energy - NM\003 POKER LAKE Unit\08 - PLU 22 DTD - EDDY\Wells\14 - PLU 22 DTD - 183H\DWG\183H C-102.dwg



<sup>17</sup> OPERATOR  
CERTIFICATION

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

*Rusty Klein*  
Signature  
11-15-2023

RUSTY KLEIN

Printed Name

ranell.klein@exxonmobil.com

E-mail Address

<sup>18</sup> SURVEYOR  
CERTIFICATION

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

10-31-2023

Date of Survey

Signature and Seal of  
Professional Surveyor:



MARK DILLON HARP 23786  
Certificate Number

KC/RP 618.013003.08-14

Intent ☒ As Drilled ☐API #  
30015

Operator Name: XTO PERMIAN OPERATING, LLC	Property Name: Poker Lake Unit 22 DTD	Well Number 183H
--	--	---------------------

## Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude			NAD	

## First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
C	22	24S	30E		500	North	1,810	West	Eddy
Latitude 32.20916					Longitude 103.87174			NAD 83	

## Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
3	3	24S	30E		100	North	1,810	West	Eddy
Latitude 32.253799					Longitude 103.871704			NAD 83	

Is this well the defining well for the Horizontal Spacing Unit? ☐Is this well an infill well? ☐

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #

Operator Name:	Property Name:	Well Number
----------------	----------------	-------------

KZ 06/29/2018

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

XTO Energy Inc.  
POKER LAKE UNIT 22 DTD 183H  
Projected TD: 26755' MD / 9870' TVD  
SHL: 13' FNL & 2024' FWL , Section 22, T24S, R30E  
BHL: 50' FNL & 1810' FWL , Section 3, T24S, R30E  
Eddy County, NM

**1. Geologic Name of Surface Formation**

A. Quaternary

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

Formation	Well Depth (TVD)	Water/Oil/Gas
Rustler	702'	Water
Top of Salt	1109'	Water
Base of Salt	3747'	Water
Delaware	3990'	Water
Brushy Canyon	6163'	Water/Oil/Gas
Bone Spring	7832'	Water
1st Bone Spring	8627'	Water/Oil/Gas
2nd Bone Spring	9148'	Water/Oil/Gas
Target/Land Curve	9870'	Water/Oil/Gas

\*\*\* Hydrocarbons @ Brushy Canyon

\*\*\* Groundwater depth 40' (per NM State Engineers Office).

No other formations are expected to yield oil, gas or fresh water in measurable volumes. The surface fresh water sands will be protected by setting 13.375 inch casing @ 802' (307' 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 9.625 inch casing at 8954' and cemented to surface. A 8.5 inch curve and 8.5 inch lateral hole will be drilled to 26755 MD/TD and 6 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 8654 feet).

**3. Casing Design**

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
17.5	0' – 802'	13.375	54.5	J-55	BTC	New	1.23	3.19	20.80
12.25	0' – 4000'	9.625	40	HC P-110	BTC	New	2.28	2.26	3.53
12.25	4000' – 8954'	9.625	40	HC L-80	BTC	New	1.66	1.87	4.62
8.5	0' – 8854'	6	26	P-110	Semi-Flush	New	1.17	2.68	1.77
8.5	8854' - 26755'	6	26	P-110	Semi-Flush	New	1.17	2.40	1.99

- XTO requests the option to utilize a spudder rig (Atlas Copco RD20 or Equivalent) to set and cement surface casing per this Sundry
- XTO requests to not utilize centralizers in the curve and lateral
- 9.625 Collapse analyzed using 50% evacuation based on regional experience.
- 6 Tension calculated using vertical hanging weight plus the lateral weight multiplied by a friction factor of 0.35
- XTO requests the option to use 5" BTC Float equipment for the the production casing

**Wellhead:**

Permanent Wellhead – Multibowl System

- A. Starting Head: 13-5/8" 10M top flange x 13-3/8" SOW bottom (or equivalent)
- B. Tubing Head: 13-5/8" 10M bottom flange x 7-1/16" 15M top flange (or equivalent)
  - Wellhead will be installed by manufacturer's representatives.
  - Manufacturer will monitor welding process to ensure appropriate temperature of seal.
  - Operator will test the 9-5/8" casing per BLM Onshore Order 2
  - Wellhead Manufacturer representative will not be present for BOP test plug installation

#### 4. Cement Program

##### **Surface Casing: 13.375, 54.5 New BTC, J-55 casing to be set at +/- 802'**

Lead: 370 sxs EconoCem-HLTRRC (mixed at 10.5 ppg, 1.87 ft<sup>3</sup>/sx, 10.13 gal/sx water)

Tail: 300 sxs Class C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft<sup>3</sup>/sx, 6.39 gal/sx water)

Top of Cement: Surface

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

##### **2nd Intermediate Casing: 9.625, 40 New casing to be set at +/- 8954'**

###### 1st Stage

Optional Lead: 1040 sxs Class C (mixed at 10.5 ppg, 2.77 ft<sup>3</sup>/sx, 15.59 gal/sx water)

TOC: Surface

Tail: 800 sxs Class C (mixed at 14.8 ppg, 1.35 ft<sup>3</sup>/sx, 6.39 gal/sx water)

TOC: Brushy Canyon @ 6163

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

###### 2nd Stage

Lead: 0 sxs Class C (mixed at 12.9 ppg, 2.16 ft<sup>3</sup>/sx, 9.61 gal/sx water)

Tail: 2170 sxs Class C (mixed at 14.8 ppg, 1.33 ft<sup>3</sup>/sx, 6.39 gal/sx water)

Top of Cement: 0

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

XTO requests to pump a two stage cement job on the 7-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brush Canyon (6163') and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If cement is not visually confirmed to circulate to surface, the final cement top after the second stage job will be verified by Echo-meter. If necessary, a top out consisting of 1,500 sack of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. If cement is still unable to circulate to surface, another Echo-meter run will be performed for cement top verification.

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

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

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

##### **Production Casing: 6, 26 New Semi-Flush, P-110 casing to be set at +/- 26755'**

Lead: 60 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft<sup>3</sup>/sx, 15.00 gal/sx water) Top of Cement: 8654 feet

Tail: 2960 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft<sup>3</sup>/sx, 8.38 gal/sx water) Top of Cement: 9340 feet

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

XTO requests the option to offline cement and remediate (if needed) surface and intermediate casing strings where batch drilling is approved and if unplanned remediation is needed. XTO will ensure well is static with no pressure on the csg annulus, as with all other casing strings where batch drilling operations occur before moving off the rig. The TA cap will also be installed when applicable per Cactus procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops. Offline cement operations will then be conducted after the rig is moved off the current well to the next well in the batch sequence.



## 5. Pressure Control Equipment

Once the permanent WH is installed on the 13.375 casing, the blow out preventer equipment (BOP) will consist of a 13-5/8" minimum 5M Hydril and a 13-5/8" minimum 5M Double Ram BOP. MASP should not exceed 3474 psi. In any instance where 10M BOP is required by BLM, XTO requests a variance to utilize 5M annular with 10M ram preventers (a common BOP configuration, which allows use of 10M rams in unlikely event that pressures exceed 5M).

All BOP testing will be done by an independent service company. Annular pressure tests will be limited to 50% of the working pressure. When nipping up on the 13.375, 5M bradenhead and flange, the BOP test will be limited to 5000 psi. When nipping up on the 9.625, the BOP will be tested to a minimum of 5000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 5M BOP diagrams are attached. Blind rams will be functioned tested each trip, pipe rams will be functioned tested each day.

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

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

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



**6. Proposed Mud Circulation System**

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)
0' - 802'	17.5	FW/Native	8.5-9	35-40	NC
802' - 8954'	12.25	FW / Cut Brine / Direct Emulsion	9-9.5	30-32	NC
8954' - 26755'	8.5	OBM	11-11.5	50-60	NC - 20

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

Spud with fresh water/native mud. Drill out from under 9-5/8" surface casing with brine solution. A 9.7 ppg - 10.2 ppg cut brine mud will be used while drilling through the salt formation. Use fibrous materials as needed to control seepage and lost circulation. Pump viscous sweeps as needed for hole cleaning. Pump speed will be recorded on a daily drilling report after mudding up. A Pason or Totco will be used to detect changes in loss or gain of mud volume. A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system.

**7. Auxiliary Well Control and Monitoring Equipment**

- A. A Kelly cock will be in the drill string at all times.
- B. A full opening drill pipe stabbing valve having appropriate connections will be on the rig floor at all times.
- C. H2S monitors will be on location when drilling below the 13.375 casing.

**8. Logging, Coring and Testing Program**

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

Open hole logging will not be done on this well.

**9. Abnormal Pressures and Temperatures / Potential Hazards**

None Anticipated. BHT of 165 to 185 F is anticipated. No H2S is expected but monitors will be in place to detect any H2S occurrences. Should these circumstances be encountered the operator and drilling contractor are prepared to take all necessary steps to ensure safety of all personnel and environment. Lost circulation could occur but is not expected to be a serious problem in this area and hole seepage will be compensated for by additions of small amounts of LCM in the drilling fluid. The maximum anticipated bottom hole pressure for this well is 5646 psi.

**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.

11/8/23, 12:25 PM

Well Plan Report

Well Plan Report - POKER LAKE UNIT 22 DTD 183H 30-015-49887

Measured Depth: 26754.56 ft  
TVD RKB: 9870.00 ft  
Location  
Cartographic Reference System: New Mexico East - NAD 27  
Northing: 440563.50 ft  
Easting: 643130.90 ft  
RKB: 3463.00 ft  
Ground Level: 3431.00 ft  
North Reference: Grid  
Convergence Angle: 0.25 Deg

Plan Sections POKER LAKE UNIT 22 DTD 183H

Measured	Depth (ft)	Inclination (Deg)	Azimuth (Deg)	TVD RKB (ft)	Y Offset (ft)	X Offset (ft)	Build		Turn		Dogleg	
							Rate (Deg/100ft)	Rate (Deg/100ft)	Rate (Deg/100ft)	Rate (Deg/100ft)	Rate (Deg/100ft)	Target
	0.00	0.00	0.00	-23.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	1100.00	0.00	0.00	1077.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	1911.08	16.22	189.87	1877.29	-112.36	-19.55	2.00	0.00	0.00	0.00	2.00	2.00
	5475.41	16.22	189.87	5299.71	-1093.33	-190.23	0.00	0.00	0.00	0.00	0.00	0.00
	6286.49	0.00	0.00	6100.00	-1205.69	-209.78	-2.00	0.00	0.00	0.00	2.00	2.00
	9340.29	0.00	0.00	9153.80	-1205.69	-209.78	0.00	0.00	0.00	0.00	0.00	0.00
	10465.29	90.00	359.79	9870.00	-489.50	-212.40	8.00	0.00	0.00	0.00	8.00	FTP 15
	26704.00	90.00	359.79	9870.00	15749.10	-271.80	0.00	0.00	0.00	0.00	0.00	LTP 15
	26754.56	90.00	359.79	9870.00	15799.66	-271.98	0.00	0.00	0.00	0.00	0.00	BHL 15

Position Uncertainty POKER LAKE UNIT 22 DTD 183H

Measured	TVD	Highside	Lateral	Vertical	Magnitude	Semi-major	Semi-minor	Semi-minor	Tool
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## Well Plan Report

11/8/23, 12:25 PM

Depth (ft)	Inclination (°)	Azimuth (°)	RKB (ft)	Error (ft)	Bias (ft)	Error (ft)	Bias (ft)	Error (ft)	Bias (ft)	Error (ft)	of Bias (ft)	Error (ft)	Error (ft)	Azimuth (°)	Used
0.000	0.000	0.000	-23.000	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	77.000	0.700	0.000	0.350	0.000	2.300	0.000	0.751	0.000	0.751	0.220	112.264	MWD+IFR1+MS
200.000	0.000	0.000	177.000	1.112	0.000	0.861	0.000	2.310	0.000	1.259	0.000	1.259	0.627	122.711	MWD+IFR1+MS
300.000	0.000	0.000	277.000	1.497	0.000	1.271	0.000	2.326	0.000	1.698	0.000	1.698	0.986	125.469	MWD+IFR1+MS
400.000	0.000	0.000	377.000	1.871	0.000	1.658	0.000	2.347	0.000	2.108	0.000	2.108	1.344	126.713	MWD+IFR1+MS
500.000	0.000	0.000	477.000	2.240	0.000	2.034	0.000	2.375	0.000	2.503	0.000	2.503	1.701	127.419	MWD+IFR1+MS
600.000	0.000	0.000	577.000	2.607	0.000	2.405	0.000	2.407	0.000	2.888	0.000	2.888	2.059	127.873	MWD+IFR1+MS
700.000	0.000	0.000	677.000	2.971	0.000	2.773	0.000	2.445	0.000	3.267	0.000	3.267	2.417	128.190	MWD+IFR1+MS
800.000	0.000	0.000	777.000	3.334	0.000	3.138	0.000	2.487	0.000	3.642	0.000	3.642	2.775	128.423	MWD+IFR1+MS
900.000	0.000	0.000	877.000	3.696	0.000	3.502	0.000	2.533	0.000	4.014	0.000	4.014	3.133	128.602	MWD+IFR1+MS
1000.000	0.000	0.000	977.000	4.058	0.000	3.865	0.000	2.583	0.000	4.384	0.000	4.384	3.491	128.744	MWD+IFR1+MS
1100.000	0.000	0.000	1077.000	4.419	0.000	4.228	0.000	2.637	0.000	4.752	0.000	4.752	3.849	128.859	MWD+IFR1+MS
1200.000	2.000	189.870	1176.980	4.920	-0.000	4.396	0.000	2.693	0.000	5.089	0.000	5.089	4.201	126.624	MWD+IFR1+MS
1300.000	4.000	189.870	1276.838	5.698	-0.000	4.740	0.000	2.754	0.000	5.866	0.000	5.866	4.541	121.316	MWD+IFR1+MS
1400.000	6.000	189.870	1376.452	6.395	-0.000	5.085	0.000	2.819	0.000	6.577	0.000	6.577	4.873	119.090	MWD+IFR1+MS
1500.000	8.000	189.870	1475.702	7.034	-0.000	5.434	0.000	2.893	0.000	7.236	0.000	7.236	5.207	117.896	MWD+IFR1+MS
1600.000	10.000	189.870	1574.465	7.628	-0.000	5.786	0.000	2.976	0.000	7.853	0.000	7.853	5.544	117.172	MWD+IFR1+MS
1700.000	12.000	189.870	1672.623	8.187	-0.000	6.142	0.000	3.070	0.000	8.439	0.000	8.439	5.888	116.707	MWD+IFR1+MS
1800.000	14.000	189.870	1770.055	8.715	-0.000	6.505	0.000	3.178	0.000	8.997	0.000	8.997	6.237	116.404	MWD+IFR1+MS
1900.000	16.000	189.870	1866.643	9.218	-0.000	6.874	0.000	3.302	0.000	9.533	0.000	9.533	6.595	116.216	MWD+IFR1+MS
1911.078	16.222	189.870	1877.286	9.241	-0.000	6.912	0.000	3.303	0.000	9.563	0.000	9.563	6.635	116.201	MWD+IFR1+MS
2000.000	16.222	189.870	1962.668	9.477	-0.000	7.229	0.000	3.380	0.000	9.789	0.000	9.789	6.961	116.325	MWD+IFR1+MS
2100.000	16.222	189.870	2058.687	9.761	-0.000	7.610	0.000	3.474	0.000	10.066	0.000	10.066	7.343	116.725	MWD+IFR1+MS
2200.000	16.222	189.870	2154.705	10.055	-0.000	7.998	0.000	3.572	0.000	10.353	0.000	10.353	7.730	117.185	MWD+IFR1+MS
2300.000	16.222	189.870	2250.724	10.357	-0.000	8.390	0.000	3.674	0.000	10.648	0.000	10.648	8.121	117.668	MWD+IFR1+MS
2400.000	16.222	189.870	2346.743	10.667	-0.000	8.786	0.000	3.780	0.000	10.951	0.000	10.951	8.515	118.175	MWD+IFR1+MS
2500.000	16.222	189.870	2442.762	10.983	-0.000	9.184	0.000	3.889	0.000	11.259	0.000	11.259	8.912	118.706	MWD+IFR1+MS
2600.000	16.222	189.870	2538.781	11.305	-0.000	9.586	0.000	4.001	0.000	11.574	0.000	11.574	9.310	119.263	MWD+IFR1+MS
2700.000	16.222	189.870	2634.800	11.632	-0.000	9.990	0.000	4.116	0.000	11.893	0.000	11.893	9.711	119.848	MWD+IFR1+MS
2800.000	16.222	189.870	2730.819	11.965	-0.000	10.397	0.000	4.233	0.000	12.219	0.000	12.219	10.113	120.461	MWD+IFR1+MS
2900.000	16.222	189.870	2826.837	12.302	-0.000	10.805	0.000	4.353	0.000	12.548	0.000	12.548	10.516	121.105	MWD+IFR1+MS

## Well Plan Report

11/8/23, 12:25 PM

3000.000	16.222	189.870	2922.856	12.644	-0.000	11.215	0.000	4.475	0.000	0.000	12.883	10.921	121.779	MWD+IFR1+MS
3100.000	16.222	189.870	3018.875	12.989	-0.000	11.626	0.000	4.599	0.000	0.000	13.221	11.326	122.487	MWD+IFR1+MS
3200.000	16.222	189.870	3114.894	13.338	-0.000	12.039	0.000	4.726	0.000	0.000	13.564	11.733	123.228	MWD+IFR1+MS
3300.000	16.222	189.870	3210.913	13.691	-0.000	12.453	0.000	4.854	0.000	0.000	13.910	12.139	124.004	MWD+IFR1+MS
3400.000	16.222	189.870	3306.932	14.046	-0.000	12.868	0.000	4.985	0.000	0.000	14.260	12.547	124.817	MWD+IFR1+MS
3500.000	16.222	189.870	3402.951	14.405	-0.000	13.284	0.000	5.117	0.000	0.000	14.614	12.954	125.667	MWD+IFR1+MS
3600.000	16.222	189.870	3498.969	14.766	-0.000	13.701	0.000	5.251	0.000	0.000	14.970	13.362	126.555	MWD+IFR1+MS
3700.000	16.222	189.870	3594.988	15.129	-0.000	14.119	0.000	5.387	0.000	0.000	15.330	13.770	127.482	MWD+IFR1+MS
3800.000	16.222	189.870	3691.007	15.495	-0.000	14.538	0.000	5.524	0.000	0.000	15.692	14.177	128.448	MWD+IFR1+MS
3900.000	16.222	189.870	3787.026	15.863	-0.000	14.957	0.000	5.664	0.000	0.000	16.058	14.585	129.453	MWD+IFR1+MS
4000.000	16.222	189.870	3883.045	16.233	-0.000	15.377	0.000	5.804	0.000	0.000	16.426	14.992	130.496	MWD+IFR1+MS
4100.000	16.222	189.870	3979.064	16.605	-0.000	15.798	0.000	5.947	0.000	0.000	16.796	15.400	131.578	MWD+IFR1+MS
4200.000	16.222	189.870	4075.083	16.979	-0.000	16.219	0.000	6.090	0.000	0.000	17.170	15.806	132.696	MWD+IFR1+MS
4300.000	16.222	189.870	4171.102	17.354	-0.000	16.641	0.000	6.236	0.000	0.000	17.546	16.213	133.849	MWD+IFR1+MS
4400.000	16.222	189.870	4267.120	17.730	-0.000	17.063	0.000	6.383	0.000	0.000	17.924	16.618	144.966	MWD+IFR1+MS
4500.000	16.222	189.870	4363.139	18.109	-0.000	17.485	0.000	6.531	0.000	0.000	18.305	17.024	143.752	MWD+IFR1+MS
4600.000	16.222	189.870	4459.158	18.488	-0.000	17.908	0.000	6.681	0.000	0.000	18.688	17.428	142.512	MWD+IFR1+MS
4700.000	16.222	189.870	4555.177	18.869	-0.000	18.331	0.000	6.833	0.000	0.000	19.073	17.832	141.251	MWD+IFR1+MS
4800.000	16.222	189.870	4651.196	19.251	-0.000	18.755	0.000	6.986	0.000	0.000	19.461	18.236	139.973	MWD+IFR1+MS
4900.000	16.222	189.870	4747.215	19.634	-0.000	19.179	0.000	7.140	0.000	0.000	19.851	18.638	138.683	MWD+IFR1+MS
5000.000	16.222	189.870	4843.234	20.018	-0.000	19.603	0.000	7.296	0.000	0.000	20.243	19.040	137.386	MWD+IFR1+MS
5100.000	16.222	189.870	4939.252	20.403	-0.000	20.028	0.000	7.453	0.000	0.000	20.637	19.441	136.088	MWD+IFR1+MS
5200.000	16.222	189.870	5035.271	20.789	-0.000	20.453	0.000	7.612	0.000	0.000	21.032	19.841	134.794	MWD+IFR1+MS
5300.000	16.222	189.870	5131.290	21.176	-0.000	20.878	0.000	7.773	0.000	0.000	21.430	20.241	133.509	MWD+IFR1+MS
5400.000	16.222	189.870	5227.309	21.564	-0.000	21.303	0.000	7.935	0.000	0.000	21.830	20.640	132.239	MWD+IFR1+MS
5475.407	16.222	189.870	5299.714	21.854	-0.000	21.621	0.000	8.058	0.000	0.000	22.127	20.940	131.287	MWD+IFR1+MS
5500.000	15.730	189.870	5323.357	21.959	-0.000	21.723	0.000	8.098	0.000	0.000	22.222	21.038	130.979	MWD+IFR1+MS
5600.000	13.730	189.870	5420.066	22.413	-0.000	22.136	0.000	8.267	0.000	0.000	22.635	21.445	130.875	MWD+IFR1+MS
5700.000	11.730	189.870	5517.603	22.904	-0.000	22.542	0.000	8.438	0.000	0.000	23.090	21.868	132.549	MWD+IFR1+MS
5800.000	9.730	189.870	5615.850	23.358	-0.000	22.936	0.000	8.598	0.000	0.000	23.536	22.279	134.231	MWD+IFR1+MS
5900.000	7.730	189.870	5714.686	23.773	-0.000	23.318	0.000	8.747	0.000	0.000	23.974	22.678	135.896	MWD+IFR1+MS
6000.000	5.730	189.870	5813.992	24.150	-0.000	23.687	0.000	8.886	0.000	0.000	24.402	23.065	137.524	MWD+IFR1+MS
6100.000	3.730	189.870	5913.646	24.489	-0.000	24.044	0.000	9.019	0.000	0.000	24.821	23.437	139.096	MWD+IFR1+MS



11/8/23, 12:25 PM

## Well Plan Report

6200.000	1.730	189.870	6013.528	24.789	-0.000	24.388	0.000	9.144	0.000	0.000	25.230	23.797	-40.597	MWD+IFR1+MS
6286.485	0.000	0.000	6100.000	24.673	0.000	24.896	0.000	9.249	0.000	0.000	25.483	24.066	-40.470	MWD+IFR1+MS
6300.000	0.000	0.000	6113.515	24.712	0.000	24.933	0.000	9.265	0.000	0.000	25.520	24.106	-40.490	MWD+IFR1+MS
6400.000	0.000	0.000	6213.515	25.001	0.000	25.215	0.000	9.386	0.000	0.000	25.798	24.399	-40.590	MWD+IFR1+MS
6500.000	0.000	0.000	6313.515	25.297	0.000	25.504	0.000	9.509	0.000	0.000	26.088	24.694	-40.721	MWD+IFR1+MS
6600.000	0.000	0.000	6413.515	25.594	0.000	25.795	0.000	9.635	0.000	0.000	26.379	24.991	-40.849	MWD+IFR1+MS
6700.000	0.000	0.000	6513.515	25.893	0.000	26.087	0.000	9.763	0.000	0.000	26.673	25.289	-40.975	MWD+IFR1+MS
6800.000	0.000	0.000	6613.515	26.193	0.000	26.380	0.000	9.895	0.000	0.000	26.967	25.589	-41.100	MWD+IFR1+MS
6900.000	0.000	0.000	6713.515	26.495	0.000	26.676	0.000	10.029	0.000	0.000	27.263	25.890	-41.222	MWD+IFR1+MS
7000.000	0.000	0.000	6813.515	26.799	0.000	26.973	0.000	10.166	0.000	0.000	27.561	26.193	-41.343	MWD+IFR1+MS
7100.000	0.000	0.000	6913.515	27.103	0.000	27.271	0.000	10.306	0.000	0.000	27.860	26.497	-41.462	MWD+IFR1+MS
7200.000	0.000	0.000	7013.515	27.409	0.000	27.571	0.000	10.448	0.000	0.000	28.161	26.803	-41.579	MWD+IFR1+MS
7300.000	0.000	0.000	7113.515	27.716	0.000	27.872	0.000	10.594	0.000	0.000	28.463	27.110	-41.694	MWD+IFR1+MS
7400.000	0.000	0.000	7213.515	28.025	0.000	28.175	0.000	10.742	0.000	0.000	28.766	27.418	-41.808	MWD+IFR1+MS
7500.000	0.000	0.000	7313.515	28.334	0.000	28.479	0.000	10.894	0.000	0.000	29.070	27.727	-41.920	MWD+IFR1+MS
7600.000	0.000	0.000	7413.515	28.645	0.000	28.784	0.000	11.048	0.000	0.000	29.376	28.037	-42.031	MWD+IFR1+MS
7700.000	0.000	0.000	7513.515	28.957	0.000	29.090	0.000	11.206	0.000	0.000	29.683	28.349	-42.139	MWD+IFR1+MS
7800.000	0.000	0.000	7613.515	29.270	0.000	29.397	0.000	11.366	0.000	0.000	29.991	28.661	-42.247	MWD+IFR1+MS
7900.000	0.000	0.000	7713.515	29.584	0.000	29.706	0.000	11.529	0.000	0.000	30.300	28.975	-42.352	MWD+IFR1+MS
8000.000	0.000	0.000	7813.515	29.899	0.000	30.016	0.000	11.696	0.000	0.000	30.610	29.290	-42.457	MWD+IFR1+MS
8100.000	0.000	0.000	7913.515	30.215	0.000	30.327	0.000	11.865	0.000	0.000	30.922	29.605	-42.559	MWD+IFR1+MS
8200.000	0.000	0.000	8013.515	30.532	0.000	30.638	0.000	12.038	0.000	0.000	31.234	29.922	-42.661	MWD+IFR1+MS
8300.000	0.000	0.000	8113.515	30.849	0.000	30.951	0.000	12.213	0.000	0.000	31.547	30.240	-42.761	MWD+IFR1+MS
8400.000	0.000	0.000	8213.515	31.168	0.000	31.265	0.000	12.392	0.000	0.000	31.862	30.558	-42.859	MWD+IFR1+MS
8500.000	0.000	0.000	8313.515	31.487	0.000	31.580	0.000	12.574	0.000	0.000	32.177	30.877	-42.956	MWD+IFR1+MS
8600.000	0.000	0.000	8413.515	31.808	0.000	31.896	0.000	12.759	0.000	0.000	32.493	31.197	-43.052	MWD+IFR1+MS
8700.000	0.000	0.000	8513.515	32.129	0.000	32.212	0.000	12.947	0.000	0.000	32.810	31.518	-43.147	MWD+IFR1+MS
8800.000	0.000	0.000	8613.515	32.451	0.000	32.530	0.000	13.138	0.000	0.000	33.128	31.840	-43.240	MWD+IFR1+MS
8900.000	0.000	0.000	8713.515	32.773	0.000	32.848	0.000	13.332	0.000	0.000	33.446	32.163	-43.332	MWD+IFR1+MS
9000.000	0.000	0.000	8813.515	33.097	0.000	33.167	0.000	13.530	0.000	0.000	33.766	32.486	-43.422	MWD+IFR1+MS
9100.000	0.000	0.000	8913.515	33.421	0.000	33.487	0.000	13.730	0.000	0.000	34.086	32.810	-43.512	MWD+IFR1+MS
9200.000	0.000	0.000	9013.515	33.746	0.000	33.808	0.000	13.934	0.000	0.000	34.407	33.135	-43.600	MWD+IFR1+MS
9300.000	0.000	0.000	9113.515	34.071	0.000	34.129	0.000	14.141	0.000	0.000	34.729	33.460	-43.687	MWD+IFR1+MS

11/8/23, 12:25 PM

## Well Plan Report

9340.288	0.000	0.000	9153.803	34.201	0.000	34.257	0.000	14.226	0.000	0.000	34.855	33.591	-43.719	MWD+IFR1+MS
9400.000	4.777	359.790	9213.446	33.974	0.000	34.449	0.000	14.349	0.000	0.000	35.063	33.801	-44.675	MWD+IFR1+MS
9500.000	12.777	359.790	9312.194	33.888	0.000	34.752	0.000	14.599	0.000	0.000	35.863	34.348	120.585	MWD+IFR1+MS
9600.000	20.777	359.790	9407.860	33.739	0.000	35.037	0.000	15.022	0.000	0.000	37.053	34.772	109.404	MWD+IFR1+MS
9700.000	28.777	359.790	9498.581	33.128	0.000	35.300	0.000	15.681	0.000	0.000	38.143	35.083	104.927	MWD+IFR1+MS
9800.000	36.777	359.790	9582.591	32.148	0.000	35.541	0.000	16.620	0.000	0.000	39.057	35.342	102.826	MWD+IFR1+MS
9900.000	44.777	359.790	9658.255	30.917	0.000	35.758	0.000	17.838	0.000	0.000	39.777	35.565	101.786	MWD+IFR1+MS
10000.000	52.777	359.790	9724.101	29.588	0.000	35.951	0.000	19.302	0.000	0.000	40.308	35.758	101.324	MWD+IFR1+MS
10100.000	60.777	359.790	9778.847	28.344	0.000	36.123	0.000	20.958	0.000	0.000	40.664	35.925	101.226	MWD+IFR1+MS
10200.000	68.777	359.790	9821.426	27.390	0.000	36.272	0.000	22.740	0.000	0.000	40.872	36.066	101.368	MWD+IFR1+MS
10300.000	76.777	359.790	9851.011	26.925	0.000	36.400	0.000	24.583	0.000	0.000	40.970	36.185	101.660	MWD+IFR1+MS
10400.000	84.777	359.790	9867.026	27.101	0.000	36.507	0.000	26.423	0.000	0.000	40.998	36.283	102.000	MWD+IFR1+MS
10465.288	90.000	359.790	9870.000	27.022	0.000	36.561	0.000	27.022	0.000	0.000	41.001	36.333	102.168	MWD+IFR1+MS
10500.000	90.000	359.790	9870.000	27.116	0.000	36.587	0.000	27.116	0.000	0.000	41.003	36.358	102.248	MWD+IFR1+MS
10600.000	90.000	359.790	9870.000	27.338	0.000	36.683	0.000	27.338	0.000	0.000	41.009	36.448	102.534	MWD+IFR1+MS
10700.000	90.000	359.790	9870.000	27.584	0.000	36.803	0.000	27.584	0.000	0.000	41.016	36.561	102.892	MWD+IFR1+MS
10800.000	90.000	359.790	9870.000	27.850	0.000	36.943	0.000	27.850	0.000	0.000	41.026	36.692	103.324	MWD+IFR1+MS
10900.000	90.000	359.790	9870.000	28.136	0.000	37.104	0.000	28.136	0.000	0.000	41.038	36.843	103.842	MWD+IFR1+MS
11000.000	90.000	359.790	9870.000	28.440	0.000	37.284	0.000	28.440	0.000	0.000	41.052	37.012	104.459	MWD+IFR1+MS
11100.000	90.000	359.790	9870.000	28.762	0.000	37.485	0.000	28.762	0.000	0.000	41.069	37.199	105.194	MWD+IFR1+MS
11200.000	90.000	359.790	9870.000	29.102	0.000	37.705	0.000	29.102	0.000	0.000	41.089	37.402	106.072	MWD+IFR1+MS
11300.000	90.000	359.790	9870.000	29.460	0.000	37.944	0.000	29.460	0.000	0.000	41.113	37.621	107.123	MWD+IFR1+MS
11400.000	90.000	359.790	9870.000	29.833	0.000	38.202	0.000	29.833	0.000	0.000	41.142	37.855	108.390	MWD+IFR1+MS
11500.000	90.000	359.790	9870.000	30.222	0.000	38.478	0.000	30.222	0.000	0.000	41.178	38.101	109.925	MWD+IFR1+MS
11600.000	90.000	359.790	9870.000	30.627	0.000	38.773	0.000	30.627	0.000	0.000	41.221	38.358	111.798	MWD+IFR1+MS
11700.000	90.000	359.790	9870.000	31.046	0.000	39.085	0.000	31.046	0.000	0.000	41.274	38.623	114.098	MWD+IFR1+MS
11800.000	90.000	359.790	9870.000	31.479	0.000	39.414	0.000	31.479	0.000	0.000	41.341	38.892	116.931	MWD+IFR1+MS
11900.000	90.000	359.790	9870.000	31.925	0.000	39.760	0.000	31.925	0.000	0.000	41.427	39.160	120.409	MWD+IFR1+MS
12000.000	90.000	359.790	9870.000	32.384	0.000	40.123	0.000	32.384	0.000	0.000	41.538	39.420	124.622	MWD+IFR1+MS
12100.000	90.000	359.790	9870.000	32.856	0.000	40.501	0.000	32.856	0.000	0.000	41.681	39.663	129.564	MWD+IFR1+MS
12200.000	90.000	359.790	9870.000	33.339	0.000	40.895	0.000	33.339	0.000	0.000	41.865	39.882	-44.936	MWD+IFR1+MS
12300.000	90.000	359.790	9870.000	33.834	0.000	41.304	0.000	33.834	0.000	0.000	42.095	40.071	-39.243	MWD+IFR1+MS
12400.000	90.000	359.790	9870.000	34.339	0.000	41.727	0.000	34.339	0.000	0.000	42.372	40.227	-33.798	MWD+IFR1+MS

Well Plan Report

11/8/23, 12:25 PM

12500.000	90.000	359.790	9870.000	34.855	0.000	42.165	0.000	34.855	0.000	42.695	40.353	-28.943	MWD+IFR1+MS
12600.000	90.000	359.790	9870.000	35.381	0.000	42.616	0.000	35.381	0.000	43.056	40.454	-24.822	MWD+IFR1+MS
12700.000	90.000	359.790	9870.000	35.916	0.000	43.081	0.000	35.916	0.000	43.451	40.535	-21.419	MWD+IFR1+MS
12800.000	90.000	359.790	9870.000	36.460	0.000	43.558	0.000	36.460	0.000	43.874	40.602	-18.641	MWD+IFR1+MS
12900.000	90.000	359.790	9870.000	37.013	0.000	44.048	0.000	37.013	0.000	44.321	40.658	-16.373	MWD+IFR1+MS
13000.000	90.000	359.790	9870.000	37.574	0.000	44.550	0.000	37.574	0.000	44.789	40.706	-14.511	MWD+IFR1+MS
13100.000	90.000	359.790	9870.000	38.143	0.000	45.064	0.000	38.143	0.000	45.274	40.748	-12.969	MWD+IFR1+MS
13200.000	90.000	359.790	9870.000	38.720	0.000	45.589	0.000	38.720	0.000	45.775	40.786	-11.680	MWD+IFR1+MS
13300.000	90.000	359.790	9870.000	39.303	0.000	46.124	0.000	39.303	0.000	46.292	40.820	-10.592	MWD+IFR1+MS
13400.000	90.000	359.790	9870.000	39.894	0.000	46.670	0.000	39.894	0.000	46.821	40.852	-9.665	MWD+IFR1+MS
13500.000	90.000	359.790	9870.000	40.491	0.000	47.226	0.000	40.491	0.000	47.363	40.882	-8.868	MWD+IFR1+MS
13600.000	90.000	359.790	9870.000	41.095	0.000	47.792	0.000	41.095	0.000	47.917	40.911	-8.177	MWD+IFR1+MS
13700.000	90.000	359.790	9870.000	41.705	0.000	48.368	0.000	41.705	0.000	48.482	40.939	-7.574	MWD+IFR1+MS
13800.000	90.000	359.790	9870.000	42.320	0.000	48.952	0.000	42.320	0.000	49.057	40.966	-7.044	MWD+IFR1+MS
13900.000	90.000	359.790	9870.000	42.941	0.000	49.545	0.000	42.941	0.000	49.643	40.992	-6.574	MWD+IFR1+MS
14000.000	90.000	359.790	9870.000	43.567	0.000	50.147	0.000	43.567	0.000	50.237	41.018	-6.156	MWD+IFR1+MS
14100.000	90.000	359.790	9870.000	44.198	0.000	50.757	0.000	44.198	0.000	50.840	41.044	-5.783	MWD+IFR1+MS
14200.000	90.000	359.790	9870.000	44.834	0.000	51.375	0.000	44.834	0.000	51.452	41.069	-5.447	MWD+IFR1+MS
14300.000	90.000	359.790	9870.000	45.475	0.000	52.000	0.000	45.475	0.000	52.073	41.095	-5.143	MWD+IFR1+MS
14400.000	90.000	359.790	9870.000	46.120	0.000	52.632	0.000	46.120	0.000	52.700	41.120	-4.868	MWD+IFR1+MS
14500.000	90.000	359.790	9870.000	46.770	0.000	53.272	0.000	46.770	0.000	53.336	41.146	-4.618	MWD+IFR1+MS
14600.000	90.000	359.790	9870.000	47.423	0.000	53.918	0.000	47.423	0.000	53.978	41.172	-4.389	MWD+IFR1+MS
14700.000	90.000	359.790	9870.000	48.081	0.000	54.571	0.000	48.081	0.000	54.628	41.197	-4.180	MWD+IFR1+MS
14800.000	90.000	359.790	9870.000	48.742	0.000	55.231	0.000	48.742	0.000	55.284	41.224	-3.987	MWD+IFR1+MS
14900.000	90.000	359.790	9870.000	49.407	0.000	55.896	0.000	49.407	0.000	55.947	41.250	-3.810	MWD+IFR1+MS
15000.000	90.000	359.790	9870.000	50.075	0.000	56.567	0.000	50.075	0.000	56.615	41.277	-3.646	MWD+IFR1+MS
15100.000	90.000	359.790	9870.000	50.747	0.000	57.244	0.000	50.747	0.000	57.290	41.304	-3.494	MWD+IFR1+MS
15200.000	90.000	359.790	9870.000	51.422	0.000	57.927	0.000	51.422	0.000	57.970	41.331	-3.353	MWD+IFR1+MS
15300.000	90.000	359.790	9870.000	52.100	0.000	58.615	0.000	52.100	0.000	58.655	41.359	-3.222	MWD+IFR1+MS
15400.000	90.000	359.790	9870.000	52.781	0.000	59.307	0.000	52.781	0.000	59.346	41.387	-3.100	MWD+IFR1+MS
15500.000	90.000	359.790	9870.000	53.464	0.000	60.005	0.000	53.464	0.000	60.042	41.415	-2.985	MWD+IFR1+MS
15600.000	90.000	359.790	9870.000	54.151	0.000	60.708	0.000	54.151	0.000	60.743	41.444	-2.878	MWD+IFR1+MS
15700.000	90.000	359.790	9870.000	54.840	0.000	61.415	0.000	54.840	0.000	61.448	41.473	-2.778	MWD+IFR1+MS



11/8/23, 12:25 PM

## Well Plan Report

15800.000	90.000	359.790	9870.000	55.532	0.000	62.126	0.000	55.532	0.000	62.159	41.503	-2.684	MWD+IFR1+MS
15900.000	90.000	359.790	9870.000	56.226	0.000	62.842	0.000	56.226	0.000	62.873	41.533	-2.595	MWD+IFR1+MS
16000.000	90.000	359.790	9870.000	56.922	0.000	63.562	0.000	56.922	0.000	63.592	41.563	-2.512	MWD+IFR1+MS
16100.000	90.000	359.790	9870.000	57.621	0.000	64.286	0.000	57.621	0.000	64.314	41.594	-2.433	MWD+IFR1+MS
16200.000	90.000	359.790	9870.000	58.322	0.000	65.014	0.000	58.322	0.000	65.041	41.625	-2.359	MWD+IFR1+MS
16300.000	90.000	359.790	9870.000	59.025	0.000	65.746	0.000	59.025	0.000	65.772	41.657	-2.289	MWD+IFR1+MS
16400.000	90.000	359.790	9870.000	59.730	0.000	66.481	0.000	59.730	0.000	66.506	41.689	-2.222	MWD+IFR1+MS
16500.000	90.000	359.790	9870.000	60.437	0.000	67.220	0.000	60.437	0.000	67.244	41.722	-2.159	MWD+IFR1+MS
16600.000	90.000	359.790	9870.000	61.146	0.000	67.962	0.000	61.146	0.000	67.985	41.755	-2.099	MWD+IFR1+MS
16700.000	90.000	359.790	9870.000	61.857	0.000	68.707	0.000	61.857	0.000	68.729	41.788	-2.042	MWD+IFR1+MS
16800.000	90.000	359.790	9870.000	62.569	0.000	69.456	0.000	62.569	0.000	69.477	41.822	-1.988	MWD+IFR1+MS
16900.000	90.000	359.790	9870.000	63.284	0.000	70.207	0.000	63.284	0.000	70.228	41.857	-1.937	MWD+IFR1+MS
17000.000	90.000	359.790	9870.000	64.000	0.000	70.962	0.000	64.000	0.000	70.982	41.891	-1.888	MWD+IFR1+MS
17100.000	90.000	359.790	9870.000	64.717	0.000	71.719	0.000	64.717	0.000	71.738	41.927	-1.841	MWD+IFR1+MS
17200.000	90.000	359.790	9870.000	65.436	0.000	72.480	0.000	65.436	0.000	72.498	41.963	-1.797	MWD+IFR1+MS
17300.000	90.000	359.790	9870.000	66.157	0.000	73.242	0.000	66.157	0.000	73.260	41.999	-1.754	MWD+IFR1+MS
17400.000	90.000	359.790	9870.000	66.879	0.000	74.008	0.000	66.879	0.000	74.025	42.035	-1.713	MWD+IFR1+MS
17500.000	90.000	359.790	9870.000	67.602	0.000	74.776	0.000	67.602	0.000	74.793	42.073	-1.674	MWD+IFR1+MS
17600.000	90.000	359.790	9870.000	68.327	0.000	75.547	0.000	68.327	0.000	75.563	42.110	-1.637	MWD+IFR1+MS
17700.000	90.000	359.790	9870.000	69.053	0.000	76.320	0.000	69.053	0.000	76.335	42.148	-1.601	MWD+IFR1+MS
17800.000	90.000	359.790	9870.000	69.780	0.000	77.095	0.000	69.780	0.000	77.110	42.187	-1.567	MWD+IFR1+MS
17900.000	90.000	359.790	9870.000	70.509	0.000	77.872	0.000	70.509	0.000	77.887	42.226	-1.534	MWD+IFR1+MS
18000.000	90.000	359.790	9870.000	71.238	0.000	78.652	0.000	71.238	0.000	78.666	42.265	-1.502	MWD+IFR1+MS
18100.000	90.000	359.790	9870.000	71.969	0.000	79.434	0.000	71.969	0.000	79.448	42.305	-1.472	MWD+IFR1+MS
18200.000	90.000	359.790	9870.000	72.701	0.000	80.218	0.000	72.701	0.000	80.231	42.346	-1.443	MWD+IFR1+MS
18300.000	90.000	359.790	9870.000	73.435	0.000	81.003	0.000	73.435	0.000	81.016	42.387	-1.414	MWD+IFR1+MS
18400.000	90.000	359.790	9870.000	74.169	0.000	81.791	0.000	74.169	0.000	81.804	42.428	-1.387	MWD+IFR1+MS
18500.000	90.000	359.790	9870.000	74.904	0.000	82.581	0.000	74.904	0.000	82.593	42.470	-1.361	MWD+IFR1+MS
18600.000	90.000	359.790	9870.000	75.640	0.000	83.372	0.000	75.640	0.000	83.384	42.512	-1.336	MWD+IFR1+MS
18700.000	90.000	359.790	9870.000	76.377	0.000	84.166	0.000	76.377	0.000	84.177	42.555	-1.312	MWD+IFR1+MS
18800.000	90.000	359.790	9870.000	77.115	0.000	84.961	0.000	77.115	0.000	84.972	42.598	-1.289	MWD+IFR1+MS
18900.000	90.000	359.790	9870.000	77.854	0.000	85.757	0.000	77.854	0.000	85.768	42.642	-1.266	MWD+IFR1+MS
19000.000	90.000	359.790	9870.000	78.594	0.000	86.555	0.000	78.594	0.000	86.566	42.686	-1.244	MWD+IFR1+MS

11/8/23, 12:25 PM

## Well Plan Report

19100.000	90.000	359.790	9870.000	79.335	0.000	87.355	0.000	79.335	0.000	0.000	87.366	42.730	-1.223	MWD+IFR1+MS
19200.000	90.000	359.790	9870.000	80.077	0.000	88.157	0.000	80.077	0.000	0.000	88.167	42.775	-1.203	MWD+IFR1+MS
19300.000	90.000	359.790	9870.000	80.819	0.000	88.960	0.000	80.819	0.000	0.000	88.969	42.821	-1.184	MWD+IFR1+MS
19400.000	90.000	359.790	9870.000	81.562	0.000	89.764	0.000	81.562	0.000	0.000	89.773	42.867	-1.165	MWD+IFR1+MS
19500.000	90.000	359.790	9870.000	82.306	0.000	90.570	0.000	82.306	0.000	0.000	90.579	42.913	-1.146	MWD+IFR1+MS
19600.000	90.000	359.790	9870.000	83.051	0.000	91.377	0.000	83.051	0.000	0.000	91.386	42.960	-1.128	MWD+IFR1+MS
19700.000	90.000	359.790	9870.000	83.797	0.000	92.185	0.000	83.797	0.000	0.000	92.194	43.007	-1.111	MWD+IFR1+MS
19800.000	90.000	359.790	9870.000	84.543	0.000	92.995	0.000	84.543	0.000	0.000	93.004	43.055	-1.094	MWD+IFR1+MS
19900.000	90.000	359.790	9870.000	85.290	0.000	93.806	0.000	85.290	0.000	0.000	93.815	43.103	-1.078	MWD+IFR1+MS
20000.000	90.000	359.790	9870.000	86.037	0.000	94.619	0.000	86.037	0.000	0.000	94.627	43.152	-1.063	MWD+IFR1+MS
20100.000	90.000	359.790	9870.000	86.785	0.000	95.432	0.000	86.785	0.000	0.000	95.440	43.201	-1.047	MWD+IFR1+MS
20200.000	90.000	359.790	9870.000	87.534	0.000	96.247	0.000	87.534	0.000	0.000	96.255	43.250	-1.033	MWD+IFR1+MS
20300.000	90.000	359.790	9870.000	88.284	0.000	97.063	0.000	88.284	0.000	0.000	97.070	43.300	-1.018	MWD+IFR1+MS
20400.000	90.000	359.790	9870.000	89.034	0.000	97.880	0.000	89.034	0.000	0.000	97.887	43.351	-1.004	MWD+IFR1+MS
20500.000	90.000	359.790	9870.000	89.785	0.000	98.698	0.000	89.785	0.000	0.000	98.705	43.402	-0.991	MWD+IFR1+MS
20600.000	90.000	359.790	9870.000	90.536	0.000	99.517	0.000	90.536	0.000	0.000	99.524	43.453	-0.978	MWD+IFR1+MS
20700.000	90.000	359.790	9870.000	91.288	0.000	100.337	0.000	91.288	0.000	0.000	100.344	43.505	-0.965	MWD+IFR1+MS
20800.000	90.000	359.790	9870.000	92.040	0.000	101.158	0.000	92.040	0.000	0.000	101.165	43.557	-0.952	MWD+IFR1+MS
20900.000	90.000	359.790	9870.000	92.793	0.000	101.981	0.000	92.793	0.000	0.000	101.987	43.610	-0.940	MWD+IFR1+MS
21000.000	90.000	359.790	9870.000	93.546	0.000	102.804	0.000	93.546	0.000	0.000	102.811	43.663	-0.929	MWD+IFR1+MS
21100.000	90.000	359.790	9870.000	94.300	0.000	103.628	0.000	94.300	0.000	0.000	103.635	43.716	-0.917	MWD+IFR1+MS
21200.000	90.000	359.790	9870.000	95.055	0.000	104.453	0.000	95.055	0.000	0.000	104.459	43.770	-0.906	MWD+IFR1+MS
21300.000	90.000	359.790	9870.000	95.810	0.000	105.279	0.000	95.810	0.000	0.000	105.285	43.825	-0.895	MWD+IFR1+MS
21400.000	90.000	359.790	9870.000	96.565	0.000	106.106	0.000	96.565	0.000	0.000	106.112	43.879	-0.885	MWD+IFR1+MS
21500.000	90.000	359.790	9870.000	97.321	0.000	106.934	0.000	97.321	0.000	0.000	106.940	43.935	-0.874	MWD+IFR1+MS
21600.000	90.000	359.790	9870.000	98.077	0.000	107.762	0.000	98.077	0.000	0.000	107.768	43.990	-0.864	MWD+IFR1+MS
21700.000	90.000	359.790	9870.000	98.834	0.000	108.592	0.000	98.834	0.000	0.000	108.597	44.046	-0.855	MWD+IFR1+MS
21800.000	90.000	359.790	9870.000	99.591	0.000	109.422	0.000	99.591	0.000	0.000	109.427	44.103	-0.845	MWD+IFR1+MS
21900.000	90.000	359.790	9870.000	100.349	0.000	110.253	0.000	100.349	0.000	0.000	110.258	44.160	-0.836	MWD+IFR1+MS
22000.000	90.000	359.790	9870.000	101.107	0.000	111.084	0.000	101.107	0.000	0.000	111.090	44.217	-0.827	MWD+IFR1+MS
22100.000	90.000	359.790	9870.000	101.865	0.000	111.917	0.000	101.865	0.000	0.000	111.922	44.275	-0.818	MWD+IFR1+MS
22200.000	90.000	359.790	9870.000	102.624	0.000	112.750	0.000	102.624	0.000	0.000	112.755	44.333	-0.809	MWD+IFR1+MS
22300.000	90.000	359.790	9870.000	103.383	0.000	113.584	0.000	103.383	0.000	0.000	113.589	44.392	-0.801	MWD+IFR1+MS

## Well Plan Report

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22400.000	90.000	359.790	9870.000	104.143	0.000	114.419	0.000	104.143	0.000	0.000	114.424	44.451	-0.793	MWD+IFR1+MS
22500.000	90.000	359.790	9870.000	104.903	0.000	115.254	0.000	104.903	0.000	0.000	115.259	44.510	-0.785	MWD+IFR1+MS
22600.000	90.000	359.790	9870.000	105.663	0.000	116.090	0.000	105.663	0.000	0.000	116.095	44.570	-0.777	MWD+IFR1+MS
22700.000	90.000	359.790	9870.000	106.424	0.000	116.927	0.000	106.424	0.000	0.000	116.931	44.630	-0.769	MWD+IFR1+MS
22800.000	90.000	359.790	9870.000	107.185	0.000	117.764	0.000	107.185	0.000	0.000	117.769	44.691	-0.762	MWD+IFR1+MS
22900.000	90.000	359.790	9870.000	107.946	0.000	118.602	0.000	107.946	0.000	0.000	118.606	44.752	-0.754	MWD+IFR1+MS
23000.000	90.000	359.790	9870.000	108.708	0.000	119.440	0.000	108.708	0.000	0.000	119.445	44.814	-0.747	MWD+IFR1+MS
23100.000	90.000	359.790	9870.000	109.470	0.000	120.279	0.000	109.470	0.000	0.000	120.284	44.875	-0.740	MWD+IFR1+MS
23200.000	90.000	359.790	9870.000	110.233	0.000	121.119	0.000	110.233	0.000	0.000	121.124	44.938	-0.733	MWD+IFR1+MS
23300.000	90.000	359.790	9870.000	110.995	0.000	121.959	0.000	110.995	0.000	0.000	121.964	45.000	-0.727	MWD+IFR1+MS
23400.000	90.000	359.790	9870.000	111.758	0.000	122.800	0.000	111.758	0.000	0.000	122.805	45.064	-0.720	MWD+IFR1+MS
23500.000	90.000	359.790	9870.000	112.522	0.000	123.642	0.000	112.522	0.000	0.000	123.646	45.127	-0.714	MWD+IFR1+MS
23600.000	90.000	359.790	9870.000	113.285	0.000	124.484	0.000	113.285	0.000	0.000	124.488	45.191	-0.707	MWD+IFR1+MS
23700.000	90.000	359.790	9870.000	114.049	0.000	125.326	0.000	114.049	0.000	0.000	125.330	45.255	-0.701	MWD+IFR1+MS
23800.000	90.000	359.790	9870.000	114.813	0.000	126.169	0.000	114.813	0.000	0.000	126.173	45.320	-0.695	MWD+IFR1+MS
23900.000	90.000	359.790	9870.000	115.578	0.000	127.013	0.000	115.578	0.000	0.000	127.017	45.385	-0.689	MWD+IFR1+MS
24000.000	90.000	359.790	9870.000	116.342	0.000	127.857	0.000	116.342	0.000	0.000	127.861	45.450	-0.684	MWD+IFR1+MS
24100.000	90.000	359.790	9870.000	117.107	0.000	128.701	0.000	117.107	0.000	0.000	128.705	45.516	-0.678	MWD+IFR1+MS
24200.000	90.000	359.790	9870.000	117.872	0.000	129.546	0.000	117.872	0.000	0.000	129.550	45.583	-0.672	MWD+IFR1+MS
24300.000	90.000	359.790	9870.000	118.638	0.000	130.392	0.000	118.638	0.000	0.000	130.395	45.649	-0.667	MWD+IFR1+MS
24400.000	90.000	359.790	9870.000	119.404	0.000	131.238	0.000	119.404	0.000	0.000	131.241	45.716	-0.662	MWD+IFR1+MS
24500.000	90.000	359.790	9870.000	120.170	0.000	132.084	0.000	120.170	0.000	0.000	132.088	45.784	-0.656	MWD+IFR1+MS
24600.000	90.000	359.790	9870.000	120.936	0.000	132.931	0.000	120.936	0.000	0.000	132.935	45.851	-0.651	MWD+IFR1+MS
24700.000	90.000	359.790	9870.000	121.702	0.000	133.778	0.000	121.702	0.000	0.000	133.782	45.920	-0.646	MWD+IFR1+MS
24800.000	90.000	359.790	9870.000	122.469	0.000	134.626	0.000	122.469	0.000	0.000	134.629	45.988	-0.641	MWD+IFR1+MS
24900.000	90.000	359.790	9870.000	123.236	0.000	135.474	0.000	123.236	0.000	0.000	135.477	46.057	-0.637	MWD+IFR1+MS
25000.000	90.000	359.790	9870.000	124.003	0.000	136.323	0.000	124.003	0.000	0.000	136.326	46.126	-0.632	MWD+IFR1+MS
25100.000	90.000	359.790	9870.000	124.770	0.000	137.172	0.000	124.770	0.000	0.000	137.175	46.196	-0.627	MWD+IFR1+MS
25200.000	90.000	359.790	9870.000	125.538	0.000	138.021	0.000	125.538	0.000	0.000	138.024	46.266	-0.623	MWD+IFR1+MS
25300.000	90.000	359.790	9870.000	126.306	0.000	138.871	0.000	126.306	0.000	0.000	138.874	46.336	-0.618	MWD+IFR1+MS
25400.000	90.000	359.790	9870.000	127.074	0.000	139.721	0.000	127.074	0.000	0.000	139.724	46.407	-0.614	MWD+IFR1+MS
25500.000	90.000	359.790	9870.000	127.842	0.000	140.571	0.000	127.842	0.000	0.000	140.574	46.478	-0.610	MWD+IFR1+MS
25600.000	90.000	359.790	9870.000	128.610	0.000	141.422	0.000	128.610	0.000	0.000	141.425	46.550	-0.605	MWD+IFR1+MS

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## Well Plan Report

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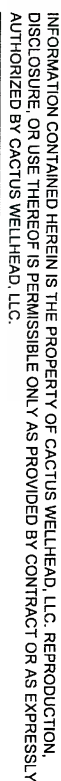
25700.000	90.000	359.790	9870.000	129.379	0.000	142.274	0.000	129.379	0.000	0.000	142.276	46.622	-0.601	MWD+IFR1+MS
25800.000	90.000	359.790	9870.000	130.148	0.000	143.125	0.000	130.148	0.000	0.000	143.128	46.694	-0.597	MWD+IFR1+MS
25900.000	90.000	359.790	9870.000	130.917	0.000	143.977	0.000	130.917	0.000	0.000	143.980	46.766	-0.593	MWD+IFR1+MS
26000.000	90.000	359.790	9870.000	131.686	0.000	144.829	0.000	131.686	0.000	0.000	144.832	46.839	-0.589	MWD+IFR1+MS
26100.000	90.000	359.790	9870.000	132.455	0.000	145.682	0.000	132.455	0.000	0.000	145.685	46.913	-0.585	MWD+IFR1+MS
26200.000	90.000	359.790	9870.000	133.225	0.000	146.535	0.000	133.225	0.000	0.000	146.538	46.986	-0.582	MWD+IFR1+MS
26300.000	90.000	359.790	9870.000	133.994	0.000	147.388	0.000	133.994	0.000	0.000	147.391	47.060	-0.578	MWD+IFR1+MS
26400.000	90.000	359.790	9870.000	134.764	0.000	148.242	0.000	134.764	0.000	0.000	148.245	47.135	-0.574	MWD+IFR1+MS
26500.000	90.000	359.790	9870.000	135.534	0.000	149.096	0.000	135.534	0.000	0.000	149.098	47.209	-0.571	MWD+IFR1+MS
26600.000	90.000	359.790	9870.000	136.304	0.000	149.950	0.000	136.304	0.000	0.000	149.953	47.284	-0.567	MWD+IFR1+MS
26703.997	90.000	359.790	9870.000	137.106	0.000	150.839	0.000	137.106	0.000	0.000	150.841	47.363	-0.563	MWD+IFR1+MS
26754.556	90.000	359.790	9870.000	137.495	0.000	151.270	0.000	137.495	0.000	0.000	151.273	47.401	-0.562	MWD+IFR1+MS

## POKER LAKE UNIT 22 DTD 183H

## Plan Targets

Target Name	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape
FTP 15	10465.27	440074.00	642918.50	6407.00	RECTANGLE
LTP 15	26704.00	456312.60	642859.10	6407.00	RECTANGLE
BHL 15	26754.00	456362.60	642858.80	6407.00	RECTANGLE





**XTO ENERGY INC  
DELAWARE BASIN**

DRAWN	DLE	04NOV22
APPRV		

DRAWING NO. HBE0000833

# ALL DIMENSIONS APPROXIMATE



# U. S. Steel Tubular Products

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## 6.000" 26.00lb/ft (0.436" Wall) P110 HP USS-FREEDOM HTQ®

MECHANICAL PROPERTIES	Pipe	USS-FREEDOM HTQ®		
Minimum Yield Strength	125,000	—	psi	—
Maximum Yield Strength	140,000	—	psi	—
Minimum Tensile Strength	130,000	—	psi	—
DIMENSIONS	Pipe	USS-FREEDOM HTQ®		
Outside Diameter	6.000	6.875	in.	—
Wall Thickness	0.436	—	in.	—
Inside Diameter	5.128	5.128	in.	—
Standard Drift	5.003	5.003	in.	—
Alternate Drift	—	—	in.	—
Nominal Linear Weight, T&C	26.00	—	lb/ft	—
Plain End Weight	25.93	—	lb/ft	—
SECTION AREA	Pipe	USS-FREEDOM HTQ®		
Critical Area	7.621	7.621	sq. in.	—
Joint Efficiency	—	100.0	%	—
PERFORMANCE	Pipe	USS-FREEDOM HTQ®		
Minimum Collapse Pressure	15,550	15,550	psi	—
Minimum Internal Yield Pressure	15,920	15,920	psi	—
Minimum Pipe Body Yield Strength	953,000	—	lb	—
Joint Strength	—	953,000	lb	—
Compression Rating	—	953,000	lb	—
Reference Length [4]	—	24,492	ft	—
Maximum Uniaxial Bend Rating [2]	—	95.5	deg/100 ft	—
MAKE-UP DATA	Pipe	USS-FREEDOM HTQ®		
Make-Up Loss	—	4.31	in.	—
Minimum Make-Up Torque [3]	—	15,000	ft-lb	—
Maximum Make-Up Torque [3]	—	21,000	ft-lb	—
Maximum Operating Torque[3]	—	44,000	ft-lb	—

UNCONTROLLED

## Notes

- 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).
- Uniaxial bending rating shown is structural only, and equal to compression efficiency.
- 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.

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# U. S. Steel Tubular Products

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**6.000" 26.00lb/ft (0.436" Wall) P110 RY USS-TALON HTQ™**


MECHANICAL PROPERTIES	Pipe	USS-TALON HTQ™		[6]
Minimum Yield Strength	110,000	—	psi	—
Maximum Yield Strength	125,000	—	psi	—
Minimum Tensile Strength	125,000	—	psi	—
DIMENSIONS	Pipe	USS-TALON HTQ™		—
Outside Diameter	6.000	6.875	in.	—
Wall Thickness	0.436	—	in.	—
Inside Diameter	5.128	5.128	in.	—
Standard Drift	5.003	5.003	in.	—
Alternate Drift	—	—	in.	—
Nominal Linear Weight, T&C	26.00	—	lb/ft	—
Plain End Weight	25.93	—	lb/ft	—
SECTION AREA	Pipe	USS-TALON HTQ™		—
Critical Area	7.621	7.621	sq. in.	—
Joint Efficiency	—	100.0	%	[2]
PERFORMANCE	Pipe	USS-TALON HTQ™		—
Minimum Collapse Pressure	13,570	13,570	psi	—
Minimum Internal Yield Pressure	14,010	14,010	psi	—
Minimum Pipe Body Yield Strength	838,000	—	lb	—
Joint Strength	—	838,000	lb	—
Compression Rating	—	838,000	lb	—
Reference Length	—	21,490	ft	[5]
Maximum Uniaxial Bend Rating	—	84.0	deg/100 ft	[3]
MAKE-UP DATA	Pipe	USS-TALON HTQ™		—
Make-Up Loss	—	5.58	in.	—
Minimum Make-Up Torque	—	22,500	ft-lb	[4]
Maximum Make-Up Torque	—	25,500	ft-lb	[4]
Maximum Operating Torque	—	48,900	ft-lb	[4]

**UNCONTROLLED**

## Notes

- 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).
- Joint efficiencies are calculated by dividing the connection critical area by the pipe body area.
- Uniaxial bend rating shown is structural only.
- 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 Nominal Linear Weight, T&C with a 1.5 Safety factor.
- Coupling must meet minimum mechanical properties of the pipe.

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

CONDITIONS

Action 298280

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 298280
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	All original COA's still apply.	12/29/2023