

Well Name: POKER LAKE UNIT 22 DTD	Well Location: T24S / R30E / SEC 22 / NENE /	County or Parish/State:
Well Number: 127H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMNM068905	Unit or CA Name:	Unit or CA Number:
US Well Number: 3001549868	Well Status: Approved Application for Permit to Drill	Operator: XTO PERMIAN OPERATING LLC

Notice of Intent

Sundry ID: 2762133

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 11/17/2023

Time Sundry Submitted: 06:03

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, Directional Drilling Plan, Casing and cement change SHL: FROM: 423' FNL & 1355' FWL TO: 328' FNL & 866' FEL of Section 22-T24S-R30E BHL: FROM: 200' FNL & 1077' FEL TO: 50' FNL & 1570' FEL of Section 3-T24S-R30E FTP: FROM: 100' FNL & 1136' FEL TO: 500' FNL & 1570' FEL of Section 22-T24S-R30E LTP: FROM: 330' FNL & 1078' FEL TO: 100' FNL & 1570' FEL of Section 3-T24S-R30E DRILLING AND CASING PLAN: 6" P-110 26# production casing will be run instead of 5-1/2" P-110 23# production casing. ATTACHMENTS: New C-102, Drilling and Casing Plan, Directional Plan, Wellhead Design, Casing Spec Sheet

NOI Attachments

Procedure Description

POKER_LAKE_UNIT_22_DTD_127H_C_102_signed_12_20_2023_20231220154750.pdf

Poker_Lake_Unit__127H_sundry_attachments_11_16_2023_20231220154732.pdf

Well Name: POKER LAKE UNIT 22
DTD

Well Location: T24S / R30E / SEC 22 /
NENE /

County or Parish/State:

Well Number: 127H

Type of Well: CONVENTIONAL GAS
WELL

Allottee or Tribe Name:

Lease Number: NMNM068905

Unit or CA Name:

Unit or CA Number:

US Well Number: 3001549868

Well Status: Approved Application for
Permit to Drill

Operator: XTO PERMIAN
OPERATING LLC

Conditions of Approval

Additional

Sundry_2762133_Poker_Lake_Unit_22_DTD_127H_COAs_20231226115809.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 20, 2023 03:48 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: 01/26/2024

Signature: Chris Walls

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM 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.
6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other	7. If Unit of CA/Agreement, Name and/or No.
2. Name of Operator	8. Well Name and No.
3a. Address	9. API Well No.
3b. Phone No. (include area code)	10. Field and Pool or Exploratory Area
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)	11. Country or Parish, State

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

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

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

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

THE SPACE FOR FEDERAL OR STATE OFFICE USE

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

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

(Instructions on page 2)

GENERAL INSTRUCTIONS

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

SPECIFIC INSTRUCTIONS

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

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

NOTICES

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

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

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

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

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

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

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

Response to this request is mandatory.

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

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

Additional Information

Location of Well

0. SHL: NWNE / 423 FNL / 1355 FWL / TWSP: 24S / RANGE: 30E / SECTION: 22 / LAT: 32.209417 / LONG: -103.864662 (TVD: 0 feet, MD: 0 feet)

PPP: SENE / 100 FSL / 1577 FWL / TWSP: 24S / RANGE: 30E / SECTION: 15 / LAT: 32.210805 / LONG: -103.872488 (TVD: 11392 feet, MD: 14361 feet)

PPP: SESE / 100 FSL / 1136 FEL / TWSP: 24S / RANGE: 30E / SECTION: 15 / LAT: 32.21086 / LONG: -103.863951 (TVD: 11392 feet, MD: 11721 feet)

PPP: SESE / 300 FNL / 313 FWL / TWSP: 24S / RANGE: 30E / SECTION: 10 / LAT: 32.253158 / LONG: -103.876545 (TVD: 11392 feet, MD: 17001 feet)

BHL: LOT 1 / 200 FNL / 1077 FEL / TWSP: 24S / RANGE: 30E / SECTION: 3 / LAT: 32.253545 / LONG: -103.863733 (TVD: 11392 feet, MD: 27249 feet)

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO Permian Operating LLC
WELL NAME & NO.:	Poker Lake Unit 22 DTD 127H
LOCATION:	Sec 22-24S-30E-NMP
COUNTY:	Eddy County, New Mexico

*Changes approved through engineering via **Sundry 2762133** on 12/26/2023. Any previous COAs not addressed within the updated COAs still apply.*

COA

H₂S	<input checked="" type="radio"/> No	<input type="radio"/> Yes		
Potash / WIPP	<input checked="" type="radio"/> None	<input type="radio"/> Secretary	<input type="radio"/> R-111-P	<input type="checkbox"/> WIPP
Cave / Karst	<input checked="" type="radio"/> Low	<input type="radio"/> Medium	<input type="radio"/> High	<input type="radio"/> Critical
Wellhead	<input type="radio"/> Conventional	<input checked="" type="radio"/> Multibowl	<input type="radio"/> Both	<input type="radio"/> Diverter
Cementing	<input type="checkbox"/> Primary Squeeze	<input checked="" type="checkbox"/> Cont. Squeeze	<input checked="" type="checkbox"/> EchoMeter	<input type="checkbox"/> DV Tool
Special Req	<input checked="" type="checkbox"/> Break Testing	<input type="checkbox"/> Water Disposal	<input type="checkbox"/> COM	<input checked="" type="checkbox"/> Unit
Variance	<input checked="" type="checkbox"/> Flex Hose	<input type="checkbox"/> Casing Clearance	<input type="checkbox"/> Pilot Hole	<input type="checkbox"/> Capitan Reef
Variance	<input type="checkbox"/> Four-String	<input checked="" type="checkbox"/> Offline Cementing	<input type="checkbox"/> Fluid-Filled	<input type="checkbox"/> Open Annulus
<input type="checkbox"/> Batch APD / Sundry				

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.

B. CASING

1. The **13-3/8** inch surface casing shall be set at approximately 797 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 6214'**
- 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 **5-1/2** inch production casing is:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

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:

- a. Spudding well (minimum of 24 hours)
 - b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
 - c. BOPE tests (minimum of 4 hours)
 - **Eddy County (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
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
 - Notify the BLM when moving in and removing the Spudder Rig.
 - 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.
 - BOP/BOPE test to be conducted per **43 CFR part 3170 Subpart 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. 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.

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

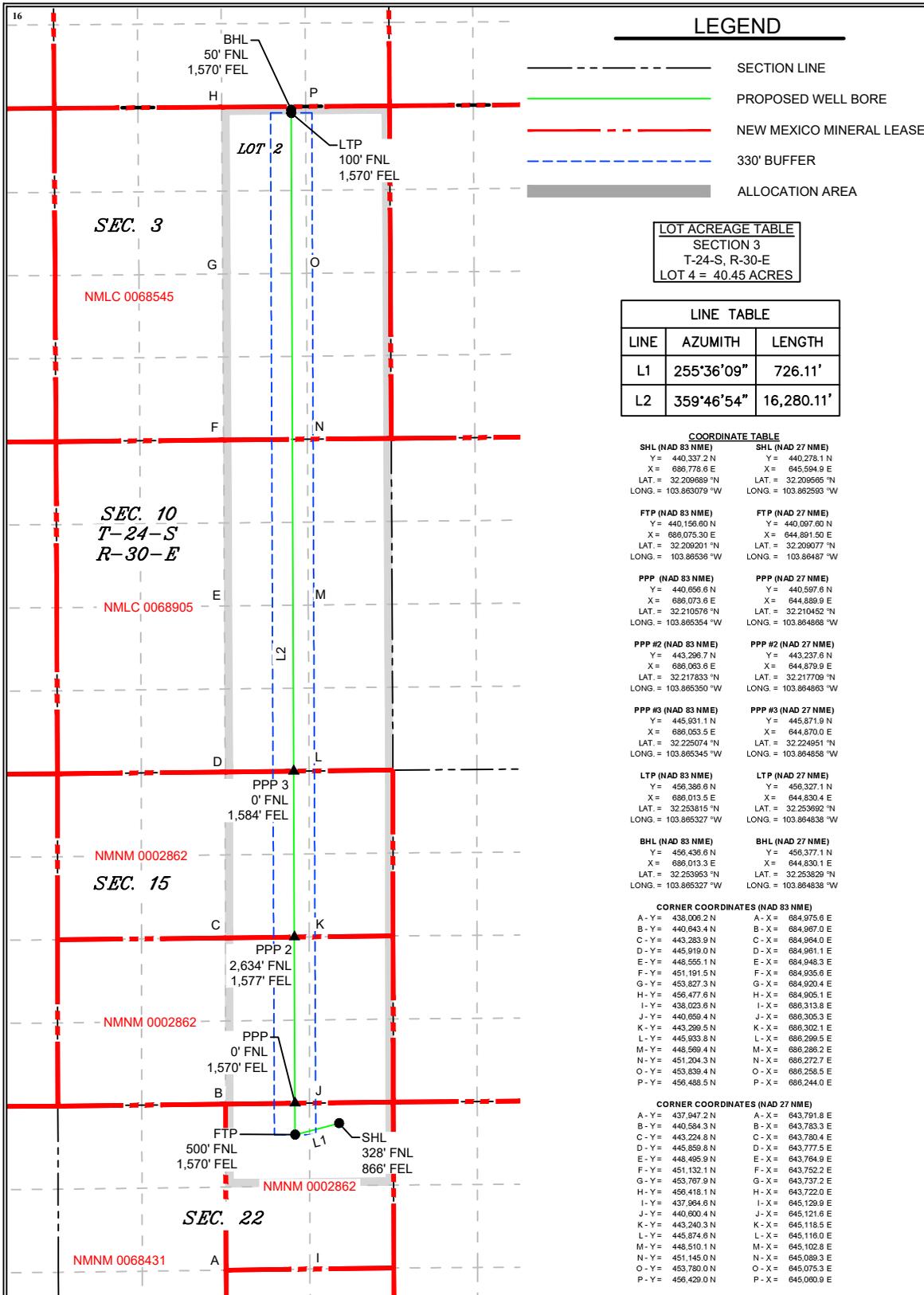
Table with 3 columns: API Number (30-015-49868), Pool Code (98220), Pool Name (Purple Sage Wolfcamp; Gas), Property Code (333192), Property Name (POKER LAKE UNIT 22 DTD), Well Number (127H), OGRID No. (373075), Operator Name (XTO PERMIAN OPERATING, LLC.), Elevation (3,430')

Table with 10 columns: UL or lot no. (A), Section (22), Township (24S), Range (30E), Lot Idn, Feet from the (328), North/South line (NORTH), Feet from the (866), East/West line (EAST), County (EDDY)

Table with 10 columns: UL or lot no. (2), Section (3), Township (24S), Range (30E), Lot Idn, Feet from the (50), North/South line (NORTH), Feet from the (1,570), East/West line (EAST), County (EDDY)

Table with 4 columns: Dedicated Acres (960.84), Joint or Infill, Consolidation Code, 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.



LEGEND

- SECTION LINE
PROPOSED WELL BORE
NEW MEXICO MINERAL LEASE
330' BUFFER
ALLOCATION AREA

LOT ACREAGE TABLE
SECTION 3
T-24-S, R-30-E
LOT 4 = 40.45 ACRES

LINE TABLE
LINE AZUMITH LENGTH
L1 255°36'09" 726.11'
L2 359°46'54" 16,280.11'

COORDINATE TABLE
SHL (NAD 83 NME)
FTP (NAD 83 NME)
PPP (NAD 83 NME)
PPP #2 (NAD 83 NME)
PPP #3 (NAD 83 NME)
LTP (NAD 83 NME)
BHL (NAD 83 NME)
SHL (NAD 27 NME)
FTP (NAD 27 NME)
PPP (NAD 27 NME)
PPP #2 (NAD 27 NME)
PPP #3 (NAD 27 NME)
LTP (NAD 27 NME)
BHL (NAD 27 NME)

CORNER COORDINATES (NAD 83 NME)
A-Y = 438,908.2 N
B-Y = 440,643.4 N
C-Y = 443,283.9 N
D-Y = 445,919.0 N
E-Y = 448,555.1 N
F-Y = 451,191.5 N
G-Y = 453,827.3 N
H-Y = 456,477.6 N
I-Y = 438,023.6 N
J-Y = 440,659.4 N
K-Y = 443,295.5 N
L-Y = 445,933.8 N
M-Y = 448,599.4 N
N-Y = 451,204.3 N
O-Y = 453,839.4 N
P-Y = 456,488.5 N

CORNER COORDINATES (NAD 27 NME)
A-X = 643,791.8 E
B-X = 643,783.3 E
C-X = 643,780.4 E
D-X = 643,777.5 E
E-X = 643,764.9 E
F-X = 643,752.2 E
G-X = 643,737.2 E
H-X = 643,722.0 E
I-X = 645,129.9 E
J-X = 645,121.8 E
K-X = 645,118.5 E
L-X = 645,116.0 E
M-X = 645,102.8 E
N-X = 645,088.3 E
O-X = 645,075.3 E
P-X = 645,060.9 E

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 12-20-23

Signature Date

RUSTY KLEIN
Printed Name

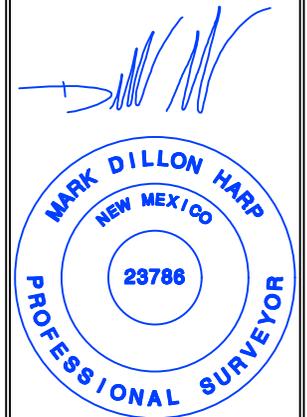
ranell.klein@exxonmobil.com
E-mail Address

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.

10-27-2023
Date of Survey

Signature and Seal of
Professional Surveyor:



MARK DILLON HARP 23786
Certificate Number

KC/RP 618.013003.08-10

P:\618.013 XTO Energy - NM\003 Poker Lake Unit\08 - EDDY\Wells\10 - PLU 22 DTD - EDDY\Wells\10 - PLU 22 DTD - 127H\DWG\127H C-102.dwg

Intent As Drilled

API # 30015		
Operator Name: XTO PERMIAN OPERATING, LLC	Property Name: Poker Lake Unit 22 DTD	Well Number 127H

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
B	22	24S	30E		500	North	1,570	East	Eddy
Latitude 32.209201					Longitude 103.86536				NAD 83

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
2	3	24S	30E		100	North	1,570	East	Eddy
Latitude 32.253815					Longitude 103.865327				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

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

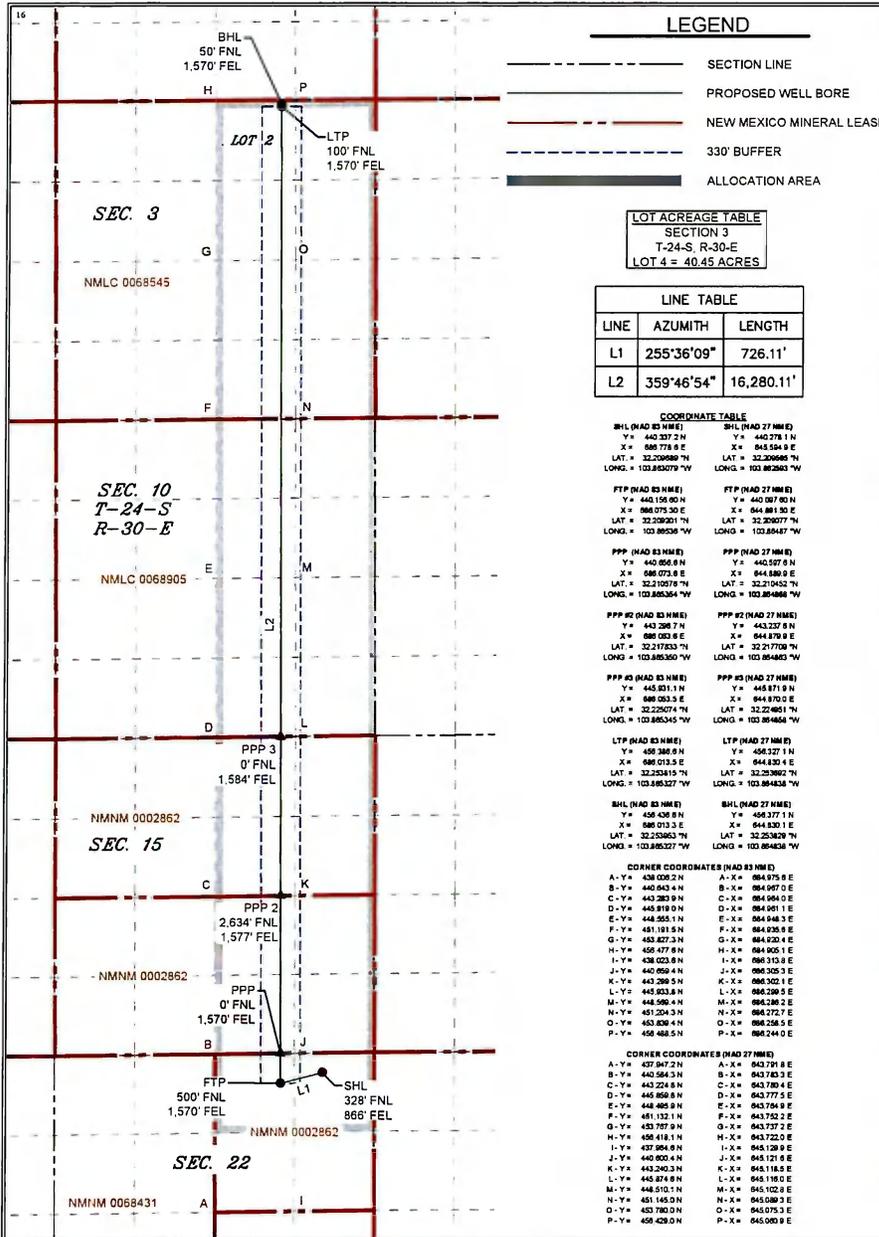
Table with 3 columns: API Number (30-015-49868), Pool Code (98220), Pool Name (Purple Sage Wolfcamp, Gas), Property Code (333192), Property Name (POKER LAKE UNIT 22 DTD), Well Number (127H), OGRID No. (373075), Operator Name (XTO PERMIAN OPERATING, LLC.), Elevation (3,430')

Surface Location table with columns: UL or lot no. (A), Section (22), Township (24S), Range (30E), Lot Idn, Feet from the (328), North/South line (NORTH), Feet from the (866), East/West line (EAST), County (EDDY)

Bottom Hole Location If Different From Surface table with columns: UL or lot no. (2), Section (3), Township (24S), Range (30E), Lot Idn, Feet from the (50), North/South line (NORTH), Feet from the (1,570), East/West line (EAST), County (EDDY). Includes Dedicated Acres (960.84), Joint or Infill, Consolidation Code, and 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.

P:\618.013 XTO Energy - NM\003 Poker Lake Unit\08 - PLU 22 DTD - EDDY\Wells\10 - PLU 22 DTD - 127H\DWG\127H C-102.dwg



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.
Signature: Rusty Klein
Date:
Printed Name: RUSTY KLEIN
E-mail Address: ranell.klein@exxonmobil.com

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.
Date of Survey: 10-27-2023
Signature and Seal of Professional Surveyor: Mark Dillon Harp
Professional Surveyor Seal: MARK DILLON HARP NEW MEXICO 23786 PROFESSIONAL SURVEYOR
Certificate Number: 23786
KC/RP 618.013003.08-10

Intent As Drilled

API # 30015		
Operator Name: XTO PERMIAN OPERATING, LLC	Property Name: Poker Lake Unit 22 DTD	Well Number 127H

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
B	22	24S	30E		500	North	1,570	East	Eddy
Latitude 32.209201					Longitude 103.86536			NAD 83	

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
2	3	24S	30E		100	North	1,570	East	Eddy
Latitude 32.253815					Longitude 103.865327			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 127H
 Projected TD: 26701' MD / 9871' TVD
 SHL: 328' FNL & 866' FEL , Section 22, T24S, R30E
 BHL: 50' FNL & 1570' FEL , 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	697'	Water
Top of Salt	1050'	Water
Base of Salt	3782'	Water
Delaware	4003'	Water
Brushy Canyon	6214'	Water/Oil/Gas
Bone Spring	7863'	Water
1st Bone Spring	8662'	Water/Oil/Gas
2nd Bone Spring	9192'	Water/Oil/Gas
Target/Land Curve	9871'	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 @ 797' (253' 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 8955' and cemented to surface. A 8.5 inch curve and 8.5 inch lateral hole will be drilled to 26701 MD/TD and 5.5 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 8655 feet).

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
17.5	0' – 797'	13.375	54.5	J-55	BTC	New	1.23	3.21	20.93
12.25	0' – 4000'	9.625	40	HC P-110	BTC	New	2.28	2.26	3.53
12.25	4000' – 8955'	9.625	40	HC L-80	BTC	New	1.65	1.87	4.62
8.5	0' – 8855'	5.5	23	RY P-110	Semi-Premium	New	1.21	2.87	1.83
8.5	8855' - 26701'	5.5	23	RY P-110	Semi-Flush	New	1.21	2.58	1.91

- 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.
- 5.5 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 +/- 797'

Lead: 360 sxs EconoCem-HLTRRC (mixed at 10.5 ppg, 1.87 ft³/sx, 10.13 gal/sx water)

Tail: 300 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

2nd Intermediate Casing: 9.625, 40 New casing to be set at +/- 8955'

1st Stage

Optional Lead: 1050 sxs Class C (mixed at 10.5 ppg, 2.77 ft³/sx, 15.59 gal/sx water)

TOC: Surface

Tail: 790 sxs Class C (mixed at 14.8 ppg, 1.35 ft³/sx, 6.39 gal/sx water)

TOC: Brushy Canyon @ 6214

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

2nd Stage

Lead: 0 sxs Class C (mixed at 12.9 ppg, 2.16 ft³/sx, 9.61 gal/sx water)

Tail: 2190 sxs Class C (mixed at 14.8 ppg, 1.33 ft³/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 (6214') 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: 5.5, 23 New Semi-Flush, RY P-110 casing to be set at +/- 26701'

Lead: 70 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft³/sx, 15.00 gal/sx water) Top of Cement: 8655 feet

Tail: 3430 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft³/sx, 8.38 gal/sx water) Top of Cement: 9296 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 3475 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 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' - 797'	17.5	FW/Native	8.5 - 9.0	35-40	NC
797' - 8955'	12.25	FW / Cut Brine / Direct Emulsion	8.5 - 9.5	30-32	NC
8955' - 26701'	8.5	OBM	10.5 - 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, 11:57 AM

Well Plan Report

Well Plan Report - POKER LAKE UNIT 22 DTD 127H 30-015-49868

Measured Depth: 26700.80 ft
TVD RKB: 9871.00 ft
Location
 New Mexico East - NAD 27
Northing: 440278.10 ft
Easting: 645594.90 ft
RKB: 3462.00 ft
Ground Level: 3430.00 ft
North Reference: Grid
Convergence Angle: 0.25 Deg

Plan Sections POKER LAKE UNIT 22 DTD 127H

Measured Depth (ft)	Inclination (Deg)	Azimuth (Deg)	RKB (ft)	TVD	Y Offset (ft)	X Offset (ft)	Build		Turn		Dogleg	
							Rate (Deg/100ft)	Magnitude	Rate (Deg/100ft)	Semi-minor	Rate (Deg/100ft)	Semi-minor
0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1100.00	0.00	0.00	1100.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1850.28	15.01	218.01	1841.73		-76.97	-60.15	2.00	0.00	0.00	0.00	2.00	0.00
5490.96	15.01	218.01	5358.27		-819.72	-640.55	0.00	0.00	0.00	0.00	0.00	0.00
6241.24	0.00	0.00	6100.00		-896.69	-700.70	-2.00	0.00	0.00	0.00	2.00	0.00
9296.04	0.00	0.00	9154.80		-896.69	-700.70	0.00	0.00	0.00	0.00	0.00	0.00
10421.04	90.00	359.78	9871.00		-180.50	-703.40	8.00	0.00	0.00	0.00	8.00	FTP 18
26650.66	90.00	359.78	9871.00		16049.00	-764.50	0.00	0.00	0.00	0.00	0.00	LTP 18
26700.80	90.00	359.78	9871.00		16099.14	-764.69	0.00	0.00	0.00	0.00	0.00	BHL 18

Position Uncertainty POKER LAKE UNIT 22 DTD 127H

Measured	TVD	Highside	Lateral	Vertical	Magnitude	Semi-major	Semi-minor	Semi-minor	Tool

Well Plan Report

11/8/23, 11:57 AM

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	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	0.751	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	1.259	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	2.326	0.000	1.698	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	2.108	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	2.375	0.000	2.503	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	2.888	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	2.445	0.000	3.267	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	3.642	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	2.533	0.000	4.014	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	2.583	0.000	4.384	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	2.636	0.000	4.752	0.000	4.752	3.849	128.859 MWD+IFR1+MS
1200.000	2.000	218.005	1199.980	5.087	-0.000	4.198	0.000	2.693	0.000	5.090	0.000	5.090	4.197	129.646 MWD+IFR1+MS
1300.000	4.000	218.005	1299.838	5.841	-0.000	4.566	0.000	2.753	0.000	5.866	0.000	5.866	4.546	134.611 MWD+IFR1+MS
1400.000	6.000	218.005	1399.452	6.521	-0.000	4.934	0.000	2.818	0.000	6.576	0.000	6.576	4.889	-43.281 MWD+IFR1+MS
1500.000	8.000	218.005	1498.702	7.147	-0.000	5.302	0.000	2.892	0.000	7.233	0.000	7.233	5.232	-42.119 MWD+IFR1+MS
1600.000	10.000	218.005	1597.465	7.731	-0.000	5.672	0.000	2.975	0.000	7.849	0.000	7.849	5.580	-41.371 MWD+IFR1+MS
1700.000	12.000	218.005	1695.623	8.280	-0.000	6.045	0.000	3.069	0.000	8.433	0.000	8.433	5.932	-40.833 MWD+IFR1+MS
1800.000	14.000	218.005	1793.055	8.801	-0.000	6.422	0.000	3.177	0.000	8.990	0.000	8.990	6.292	-40.408 MWD+IFR1+MS
1850.282	15.006	218.005	1841.734	8.945	-0.000	6.604	0.000	3.215	0.000	9.156	0.000	9.156	6.474	-40.375 MWD+IFR1+MS
1900.000	15.006	218.005	1889.757	9.078	-0.000	6.783	0.000	3.254	0.000	9.285	0.000	9.285	6.656	-40.347 MWD+IFR1+MS
2000.000	15.006	218.005	1986.347	9.349	-0.000	7.161	0.000	3.341	0.000	9.549	0.000	9.549	7.036	-40.081 MWD+IFR1+MS
2100.000	15.006	218.005	2082.937	9.638	-0.000	7.555	0.000	3.434	0.000	9.832	0.000	9.832	7.427	-39.593 MWD+IFR1+MS
2200.000	15.006	218.005	2179.527	9.935	-0.000	7.951	0.000	3.531	0.000	10.123	0.000	10.123	7.820	-39.076 MWD+IFR1+MS
2300.000	15.006	218.005	2276.117	10.239	-0.000	8.350	0.000	3.630	0.000	10.421	0.000	10.421	8.215	-38.530 MWD+IFR1+MS
2400.000	15.006	218.005	2372.707	10.550	-0.000	8.751	0.000	3.734	0.000	10.726	0.000	10.726	8.612	-37.952 MWD+IFR1+MS
2500.000	15.006	218.005	2469.297	10.867	-0.000	9.154	0.000	3.839	0.000	11.037	0.000	11.037	9.011	-37.341 MWD+IFR1+MS
2600.000	15.006	218.005	2565.887	11.189	-0.000	9.559	0.000	3.948	0.000	11.353	0.000	11.353	9.411	-36.695 MWD+IFR1+MS
2700.000	15.006	218.005	2662.477	11.517	-0.000	9.966	0.000	4.059	0.000	11.675	0.000	11.675	9.812	-36.011 MWD+IFR1+MS
2800.000	15.006	218.005	2759.067	11.849	-0.000	10.373	0.000	4.173	0.000	12.001	0.000	12.001	10.214	-35.288 MWD+IFR1+MS
2900.000	15.006	218.005	2855.657	12.185	-0.000	10.782	0.000	4.289	0.000	12.332	0.000	12.332	10.616	-34.523 MWD+IFR1+MS

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3000.000	15.006	218.005	3048.837	12.869	-0.000	11.603	0.000	4.527	0.000	0.000	13.007	11.422	-32.862	MWD+IFR1+MS
3100.000	15.006	218.005	3145.427	13.216	-0.000	12.015	0.000	4.649	0.000	0.000	13.351	11.826	-31.962	MWD+IFR1+MS
3200.000	15.006	218.005	3242.017	13.567	-0.000	12.427	0.000	4.773	0.000	0.000	13.698	12.229	-31.012	MWD+IFR1+MS
3300.000	15.006	218.005	3338.607	13.920	-0.000	12.840	0.000	4.898	0.000	0.000	14.048	12.633	-30.012	MWD+IFR1+MS
3400.000	15.006	218.005	3435.198	14.275	-0.000	13.254	0.000	5.026	0.000	0.000	14.402	13.036	-28.960	MWD+IFR1+MS
3500.000	15.006	218.005	3531.788	14.634	-0.000	13.669	0.000	5.155	0.000	0.000	14.759	13.439	-27.857	MWD+IFR1+MS
3600.000	15.006	218.005	3628.378	14.994	-0.000	14.083	0.000	5.285	0.000	0.000	15.119	13.842	-26.700	MWD+IFR1+MS
3700.000	15.006	218.005	3724.968	15.357	-0.000	14.499	0.000	5.418	0.000	0.000	15.482	14.244	-25.493	MWD+IFR1+MS
3800.000	15.006	218.005	3821.558	15.721	-0.000	14.915	0.000	5.552	0.000	0.000	15.847	14.646	-24.235	MWD+IFR1+MS
3900.000	15.006	218.005	3918.148	16.087	-0.000	15.331	0.000	5.687	0.000	0.000	16.216	15.047	-22.929	MWD+IFR1+MS
4000.000	15.006	218.005	4014.738	16.456	-0.000	15.747	0.000	5.824	0.000	0.000	16.588	15.447	-21.578	MWD+IFR1+MS
4100.000	15.006	218.005	4111.328	16.825	-0.000	16.164	0.000	5.963	0.000	0.000	16.962	15.847	-20.187	MWD+IFR1+MS
4200.000	15.006	218.005	4207.918	17.196	-0.000	16.581	0.000	6.103	0.000	0.000	17.338	16.246	-18.761	MWD+IFR1+MS
4300.000	15.006	218.005	4304.508	17.569	-0.000	16.999	0.000	6.244	0.000	0.000	17.718	16.644	-17.306	MWD+IFR1+MS
4400.000	15.006	218.005	4401.098	17.943	-0.000	17.417	0.000	6.387	0.000	0.000	18.099	17.041	-15.830	MWD+IFR1+MS
4500.000	15.006	218.005	4497.688	18.318	-0.000	17.835	0.000	6.532	0.000	0.000	18.484	17.437	-14.339	MWD+IFR1+MS
4600.000	15.006	218.005	4594.278	18.694	-0.000	18.253	0.000	6.678	0.000	0.000	18.870	17.832	-12.844	MWD+IFR1+MS
4700.000	15.006	218.005	4690.868	19.071	-0.000	18.671	0.000	6.826	0.000	0.000	19.259	18.226	-11.351	MWD+IFR1+MS
4800.000	15.006	218.005	4787.458	19.450	-0.000	19.090	0.000	6.975	0.000	0.000	19.650	18.620	-9.869	MWD+IFR1+MS
4900.000	15.006	218.005	4884.048	19.829	-0.000	19.509	0.000	7.126	0.000	0.000	20.043	19.012	-8.407	MWD+IFR1+MS
5000.000	15.006	218.005	4980.638	20.209	-0.000	19.928	0.000	7.278	0.000	0.000	20.438	19.404	-6.971	MWD+IFR1+MS
5100.000	15.006	218.005	5077.228	20.590	-0.000	20.347	0.000	7.432	0.000	0.000	20.834	19.795	-5.568	MWD+IFR1+MS
5200.000	15.006	218.005	5173.818	20.972	-0.000	20.766	0.000	7.587	0.000	0.000	21.233	20.185	-4.203	MWD+IFR1+MS
5300.000	15.006	218.005	5270.408	21.355	-0.000	21.186	0.000	7.744	0.000	0.000	21.633	20.574	-2.882	MWD+IFR1+MS
5400.000	15.006	218.005	5367.002	21.740	-0.000	21.603	0.000	7.888	0.000	0.000	21.996	20.928	-1.712	MWD+IFR1+MS
5490.959	14.825	218.005	5464.100	22.129	-0.000	22.010	0.000	8.065	0.000	0.000	22.437	21.359	-1.593	MWD+IFR1+MS
5500.000	12.825	218.005	5561.973	22.512	-0.000	22.411	0.000	8.232	0.000	0.000	22.890	21.777	-1.320	MWD+IFR1+MS
5600.000	10.825	218.005	5660.501	23.121	-0.000	22.800	0.000	8.388	0.000	0.000	23.336	22.183	-3.354	MWD+IFR1+MS
5700.000	8.825	218.005	5759.565	23.536	-0.000	23.176	0.000	8.535	0.000	0.000	23.773	22.577	-5.363	MWD+IFR1+MS
5800.000	6.825	218.005	5859.044	23.913	-0.000	23.540	0.000	8.673	0.000	0.000	24.201	22.958	-7.320	MWD+IFR1+MS
5900.000	4.825	218.005	5958.816	24.253	-0.000	23.892	0.000	8.805	0.000	0.000	24.620	23.326	-9.201	MWD+IFR1+MS
6000.000	2.825	218.005											-10.986	MWD+IFR1+MS

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6200.000	0.825	218.005	6058.760	24.555	-0.000	24.231	0.000	8.931	0.000	25.029	23.680	-12.659	MWD+IFR1+MS
6241.241	0.000	0.000	6100.000	23.876	0.000	25.091	0.000	8.982	0.000	25.153	23.810	-12.594	MWD+IFR1+MS
6300.000	0.000	0.000	6158.759	24.057	0.000	25.255	0.000	9.054	0.000	25.317	23.992	-12.648	MWD+IFR1+MS
6400.000	0.000	0.000	6258.759	24.367	0.000	25.541	0.000	9.179	0.000	25.603	24.301	-12.792	MWD+IFR1+MS
6500.000	0.000	0.000	6358.759	24.680	0.000	25.831	0.000	9.306	0.000	25.895	24.613	-13.044	MWD+IFR1+MS
6600.000	0.000	0.000	6458.759	24.994	0.000	26.122	0.000	9.436	0.000	26.188	24.926	-13.298	MWD+IFR1+MS
6700.000	0.000	0.000	6558.759	25.310	0.000	26.416	0.000	9.569	0.000	26.482	25.240	-13.554	MWD+IFR1+MS
6800.000	0.000	0.000	6658.759	25.627	0.000	26.711	0.000	9.704	0.000	26.779	25.556	-13.811	MWD+IFR1+MS
6900.000	0.000	0.000	6758.759	25.945	0.000	27.007	0.000	9.842	0.000	27.077	25.872	-14.071	MWD+IFR1+MS
7000.000	0.000	0.000	6858.759	26.264	0.000	27.305	0.000	9.983	0.000	27.376	26.190	-14.332	MWD+IFR1+MS
7100.000	0.000	0.000	6958.759	26.584	0.000	27.604	0.000	10.127	0.000	27.677	26.508	-14.595	MWD+IFR1+MS
7200.000	0.000	0.000	7058.759	26.905	0.000	27.905	0.000	10.274	0.000	27.979	26.828	-14.860	MWD+IFR1+MS
7300.000	0.000	0.000	7158.759	27.227	0.000	28.207	0.000	10.423	0.000	28.283	27.148	-15.127	MWD+IFR1+MS
7400.000	0.000	0.000	7258.759	27.550	0.000	28.511	0.000	10.576	0.000	28.588	27.469	-15.396	MWD+IFR1+MS
7500.000	0.000	0.000	7358.759	27.873	0.000	28.815	0.000	10.731	0.000	28.894	27.791	-15.666	MWD+IFR1+MS
7600.000	0.000	0.000	7458.759	28.198	0.000	29.121	0.000	10.890	0.000	29.202	28.114	-15.938	MWD+IFR1+MS
7700.000	0.000	0.000	7558.759	28.523	0.000	29.428	0.000	11.051	0.000	29.510	28.438	-16.211	MWD+IFR1+MS
7800.000	0.000	0.000	7658.759	28.849	0.000	29.736	0.000	11.215	0.000	29.820	28.762	-16.486	MWD+IFR1+MS
7900.000	0.000	0.000	7758.759	29.176	0.000	30.046	0.000	11.382	0.000	30.131	29.088	-16.763	MWD+IFR1+MS
8000.000	0.000	0.000	7858.759	29.504	0.000	30.356	0.000	11.552	0.000	30.443	29.414	-17.041	MWD+IFR1+MS
8100.000	0.000	0.000	7958.759	29.832	0.000	30.668	0.000	11.726	0.000	30.756	29.740	-17.321	MWD+IFR1+MS
8200.000	0.000	0.000	8058.759	30.161	0.000	30.980	0.000	11.902	0.000	31.070	30.068	-17.602	MWD+IFR1+MS
8300.000	0.000	0.000	8158.759	30.490	0.000	31.294	0.000	12.081	0.000	31.386	30.396	-17.885	MWD+IFR1+MS
8400.000	0.000	0.000	8258.759	30.821	0.000	31.608	0.000	12.263	0.000	31.702	30.724	-18.169	MWD+IFR1+MS
8500.000	0.000	0.000	8358.759	31.152	0.000	31.923	0.000	12.449	0.000	32.019	31.054	-18.454	MWD+IFR1+MS
8600.000	0.000	0.000	8458.759	31.483	0.000	32.240	0.000	12.637	0.000	32.337	31.383	-18.741	MWD+IFR1+MS
8700.000	0.000	0.000	8558.759	31.815	0.000	32.557	0.000	12.829	0.000	32.656	31.714	-19.028	MWD+IFR1+MS
8800.000	0.000	0.000	8658.759	32.148	0.000	32.875	0.000	13.024	0.000	32.975	32.045	-19.317	MWD+IFR1+MS
8900.000	0.000	0.000	8758.759	32.481	0.000	33.194	0.000	13.221	0.000	33.296	32.376	-19.608	MWD+IFR1+MS
9000.000	0.000	0.000	8858.759	32.815	0.000	33.513	0.000	13.422	0.000	33.617	32.708	-19.899	MWD+IFR1+MS
9100.000	0.000	0.000	8958.759	33.149	0.000	33.833	0.000	13.626	0.000	33.939	33.041	-20.191	MWD+IFR1+MS
9200.000	0.000	0.000	9058.759	33.484	0.000	34.155	0.000	13.834	0.000	34.262	33.374	-20.484	MWD+IFR1+MS
9296.044	0.000	0.000	9154.803	33.806	0.000	34.463	0.000	14.036	0.000	34.572	33.694	-20.747	MWD+IFR1+MS

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9300.000	0.316	359.784	9158.759	33.800	0.000	34.478	0.000	14.044	0.000	0.000	34.585	33.707	-20.748	MWD+IFR1+MS
9400.000	8.316	359.784	9258.394	33.755	0.000	34.789	0.000	14.266	0.000	0.000	34.968	34.286	-31.161	MWD+IFR1+MS
9500.000	16.316	359.784	9356.013	34.094	0.000	35.088	0.000	14.596	0.000	0.000	36.052	34.952	110.200	MWD+IFR1+MS
9600.000	24.316	359.784	9449.716	33.915	0.000	35.366	0.000	15.126	0.000	0.000	37.282	35.276	101.862	MWD+IFR1+MS
9700.000	32.316	359.784	9537.679	33.287	0.000	35.624	0.000	15.918	0.000	0.000	38.347	35.545	99.218	MWD+IFR1+MS
9800.000	40.316	359.784	9618.189	32.301	0.000	35.858	0.000	16.995	0.000	0.000	39.215	35.783	98.067	MWD+IFR1+MS
9900.000	48.316	359.784	9689.680	31.075	0.000	36.068	0.000	18.339	0.000	0.000	39.882	35.993	97.547	MWD+IFR1+MS
10000.000	56.316	359.784	9750.760	29.762	0.000	36.255	0.000	19.905	0.000	0.000	40.359	36.178	97.380	MWD+IFR1+MS
10100.000	64.316	359.784	9800.241	28.541	0.000	36.419	0.000	21.631	0.000	0.000	40.667	36.338	97.451	MWD+IFR1+MS
10200.000	72.316	359.784	9837.159	27.614	0.000	36.561	0.000	23.452	0.000	0.000	40.837	36.474	97.696	MWD+IFR1+MS
10300.000	80.316	359.784	9860.796	27.173	0.000	36.681	0.000	25.301	0.000	0.000	40.908	36.587	98.060	MWD+IFR1+MS
10400.000	88.316	359.784	9870.691	27.365	0.000	36.779	0.000	27.119	0.000	0.000	40.927	36.677	98.470	MWD+IFR1+MS
10421.044	90.000	359.784	9871.000	27.185	0.000	36.795	0.000	27.185	0.000	0.000	40.929	36.691	98.544	MWD+IFR1+MS
10500.000	90.000	359.784	9871.000	27.359	0.000	36.861	0.000	27.359	0.000	0.000	40.935	36.752	98.856	MWD+IFR1+MS
10600.000	90.000	359.784	9871.000	27.581	0.000	36.969	0.000	27.581	0.000	0.000	40.945	36.851	99.311	MWD+IFR1+MS
10700.000	90.000	359.784	9871.000	27.826	0.000	37.098	0.000	27.826	0.000	0.000	40.957	36.970	99.834	MWD+IFR1+MS
10800.000	90.000	359.784	9871.000	28.090	0.000	37.247	0.000	28.090	0.000	0.000	40.970	37.109	100.436	MWD+IFR1+MS
10900.000	90.000	359.784	9871.000	28.373	0.000	37.417	0.000	28.373	0.000	0.000	40.985	37.266	101.133	MWD+IFR1+MS
11000.000	90.000	359.784	9871.000	28.675	0.000	37.606	0.000	28.675	0.000	0.000	41.003	37.441	101.944	MWD+IFR1+MS
11100.000	90.000	359.784	9871.000	28.996	0.000	37.815	0.000	28.996	0.000	0.000	41.023	37.633	102.897	MWD+IFR1+MS
11200.000	90.000	359.784	9871.000	29.333	0.000	38.043	0.000	29.333	0.000	0.000	41.048	37.841	104.024	MWD+IFR1+MS
11300.000	90.000	359.784	9871.000	29.688	0.000	38.290	0.000	29.688	0.000	0.000	41.077	38.065	105.372	MWD+IFR1+MS
11400.000	90.000	359.784	9871.000	30.059	0.000	38.556	0.000	30.059	0.000	0.000	41.111	38.302	107.000	MWD+IFR1+MS
11500.000	90.000	359.784	9871.000	30.445	0.000	38.840	0.000	30.445	0.000	0.000	41.153	38.550	108.989	MWD+IFR1+MS
11600.000	90.000	359.784	9871.000	30.847	0.000	39.141	0.000	30.847	0.000	0.000	41.205	38.806	111.441	MWD+IFR1+MS
11700.000	90.000	359.784	9871.000	31.263	0.000	39.460	0.000	31.263	0.000	0.000	41.271	39.066	114.484	MWD+IFR1+MS
11800.000	90.000	359.784	9871.000	31.694	0.000	39.796	0.000	31.694	0.000	0.000	41.355	39.326	118.255	MWD+IFR1+MS
11900.000	90.000	359.784	9871.000	32.137	0.000	40.148	0.000	32.137	0.000	0.000	41.465	39.576	122.862	MWD+IFR1+MS
12000.000	90.000	359.784	9871.000	32.594	0.000	40.517	0.000	32.594	0.000	0.000	41.609	39.810	128.290	MWD+IFR1+MS
12100.000	90.000	359.784	9871.000	33.063	0.000	40.901	0.000	33.063	0.000	0.000	41.796	40.017	134.297	MWD+IFR1+MS
12200.000	90.000	359.784	9871.000	33.543	0.000	41.300	0.000	33.543	0.000	0.000	42.031	40.191	-39.594	MWD+IFR1+MS
12300.000	90.000	359.784	9871.000	34.035	0.000	41.714	0.000	34.035	0.000	0.000	42.314	40.333	-33.906	MWD+IFR1+MS
12400.000	90.000	359.784	9871.000	34.538	0.000	42.143	0.000	34.538	0.000	0.000	42.641	40.445	-28.978	MWD+IFR1+MS

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12500.000	90.000	359.784	9871.000	35.051	0.000	42.585	0.000	35.051	0.000	43.006	40.535	-24.899	MWD+IFR1+MS
12600.000	90.000	359.784	9871.000	35.574	0.000	43.041	0.000	35.574	0.000	43.402	40.607	-21.594	MWD+IFR1+MS
12700.000	90.000	359.784	9871.000	36.107	0.000	43.510	0.000	36.107	0.000	43.824	40.666	-18.930	MWD+IFR1+MS
12800.000	90.000	359.784	9871.000	36.648	0.000	43.991	0.000	36.648	0.000	44.269	40.716	-16.773	MWD+IFR1+MS
12900.000	90.000	359.784	9871.000	37.199	0.000	44.485	0.000	37.199	0.000	44.733	40.759	-15.009	MWD+IFR1+MS
13000.000	90.000	359.784	9871.000	37.757	0.000	44.990	0.000	37.757	0.000	45.215	40.798	-13.551	MWD+IFR1+MS
13100.000	90.000	359.784	9871.000	38.324	0.000	45.507	0.000	38.324	0.000	45.711	40.833	-12.332	MWD+IFR1+MS
13200.000	90.000	359.784	9871.000	38.898	0.000	46.035	0.000	38.898	0.000	46.222	40.865	-11.301	MWD+IFR1+MS
13300.000	90.000	359.784	9871.000	39.479	0.000	46.574	0.000	39.479	0.000	46.747	40.896	-10.421	MWD+IFR1+MS
13400.000	90.000	359.784	9871.000	40.067	0.000	47.123	0.000	40.067	0.000	47.283	40.925	-9.662	MWD+IFR1+MS
13500.000	90.000	359.784	9871.000	40.662	0.000	47.682	0.000	40.662	0.000	47.831	40.953	-9.002	MWD+IFR1+MS
13600.000	90.000	359.784	9871.000	41.264	0.000	48.251	0.000	41.264	0.000	48.390	40.980	-8.423	MWD+IFR1+MS
13700.000	90.000	359.784	9871.000	41.871	0.000	48.828	0.000	41.871	0.000	48.960	41.007	-7.912	MWD+IFR1+MS
13800.000	90.000	359.784	9871.000	42.484	0.000	49.415	0.000	42.484	0.000	49.539	41.033	-7.458	MWD+IFR1+MS
13900.000	90.000	359.784	9871.000	43.103	0.000	50.011	0.000	43.103	0.000	50.128	41.059	-7.052	MWD+IFR1+MS
14000.000	90.000	359.784	9871.000	43.727	0.000	50.614	0.000	43.727	0.000	50.725	41.085	-6.687	MWD+IFR1+MS
14100.000	90.000	359.784	9871.000	44.356	0.000	51.226	0.000	44.356	0.000	51.332	41.111	-6.357	MWD+IFR1+MS
14200.000	90.000	359.784	9871.000	44.990	0.000	51.846	0.000	44.990	0.000	51.946	41.137	-6.058	MWD+IFR1+MS
14300.000	90.000	359.784	9871.000	45.629	0.000	52.472	0.000	45.629	0.000	52.568	41.163	-5.786	MWD+IFR1+MS
14400.000	90.000	359.784	9871.000	46.272	0.000	53.107	0.000	46.272	0.000	53.198	41.189	-5.536	MWD+IFR1+MS
14500.000	90.000	359.784	9871.000	46.920	0.000	53.748	0.000	46.920	0.000	53.836	41.215	-5.308	MWD+IFR1+MS
14600.000	90.000	359.784	9871.000	47.571	0.000	54.396	0.000	47.571	0.000	54.480	41.242	-5.097	MWD+IFR1+MS
14700.000	90.000	359.784	9871.000	48.227	0.000	55.050	0.000	48.227	0.000	55.131	41.269	-4.902	MWD+IFR1+MS
14800.000	90.000	359.784	9871.000	48.886	0.000	55.710	0.000	48.886	0.000	55.788	41.296	-4.722	MWD+IFR1+MS
14900.000	90.000	359.784	9871.000	49.549	0.000	56.377	0.000	49.549	0.000	56.452	41.323	-4.555	MWD+IFR1+MS
15000.000	90.000	359.784	9871.000	50.216	0.000	57.049	0.000	50.216	0.000	57.122	41.351	-4.399	MWD+IFR1+MS
15100.000	90.000	359.784	9871.000	50.886	0.000	57.727	0.000	50.886	0.000	57.797	41.379	-4.253	MWD+IFR1+MS
15200.000	90.000	359.784	9871.000	51.559	0.000	58.411	0.000	51.559	0.000	58.478	41.408	-4.117	MWD+IFR1+MS
15300.000	90.000	359.784	9871.000	52.236	0.000	59.099	0.000	52.236	0.000	59.164	41.437	-3.990	MWD+IFR1+MS
15400.000	90.000	359.784	9871.000	52.915	0.000	59.793	0.000	52.915	0.000	59.856	41.466	-3.870	MWD+IFR1+MS
15500.000	90.000	359.784	9871.000	53.597	0.000	60.491	0.000	53.597	0.000	60.553	41.496	-3.757	MWD+IFR1+MS
15600.000	90.000	359.784	9871.000	54.282	0.000	61.194	0.000	54.282	0.000	61.254	41.526	-3.651	MWD+IFR1+MS
15700.000	90.000	359.784	9871.000	54.970	0.000	61.902	0.000	54.970	0.000	61.960	41.557	-3.551	MWD+IFR1+MS

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15800.000	90.000	359.784	9871.000	55.660	0.000	62.614	0.000	55.660	0.000	62.670	41.588	-3.457	MWD+IFR1+MS
15900.000	90.000	359.784	9871.000	56.353	0.000	63.331	0.000	56.353	0.000	63.385	41.619	-3.367	MWD+IFR1+MS
16000.000	90.000	359.784	9871.000	57.048	0.000	64.051	0.000	57.048	0.000	64.104	41.651	-3.282	MWD+IFR1+MS
16100.000	90.000	359.784	9871.000	57.745	0.000	64.776	0.000	57.745	0.000	64.827	41.683	-3.201	MWD+IFR1+MS
16200.000	90.000	359.784	9871.000	58.445	0.000	65.504	0.000	58.445	0.000	65.554	41.716	-3.125	MWD+IFR1+MS
16300.000	90.000	359.784	9871.000	59.146	0.000	66.236	0.000	59.146	0.000	66.285	41.749	-3.052	MWD+IFR1+MS
16400.000	90.000	359.784	9871.000	59.850	0.000	66.971	0.000	59.850	0.000	67.019	41.782	-2.982	MWD+IFR1+MS
16500.000	90.000	359.784	9871.000	60.556	0.000	67.710	0.000	60.556	0.000	67.757	41.816	-2.916	MWD+IFR1+MS
16600.000	90.000	359.784	9871.000	61.264	0.000	68.453	0.000	61.264	0.000	68.498	41.851	-2.853	MWD+IFR1+MS
16700.000	90.000	359.784	9871.000	61.973	0.000	69.198	0.000	61.973	0.000	69.243	41.886	-2.792	MWD+IFR1+MS
16800.000	90.000	359.784	9871.000	62.685	0.000	69.947	0.000	62.685	0.000	69.990	41.921	-2.735	MWD+IFR1+MS
16900.000	90.000	359.784	9871.000	63.398	0.000	70.699	0.000	63.398	0.000	70.741	41.957	-2.679	MWD+IFR1+MS
17000.000	90.000	359.784	9871.000	64.112	0.000	71.454	0.000	64.112	0.000	71.495	41.993	-2.626	MWD+IFR1+MS
17100.000	90.000	359.784	9871.000	64.829	0.000	72.211	0.000	64.829	0.000	72.252	42.030	-2.575	MWD+IFR1+MS
17200.000	90.000	359.784	9871.000	65.547	0.000	72.972	0.000	65.547	0.000	73.011	42.068	-2.527	MWD+IFR1+MS
17300.000	90.000	359.784	9871.000	66.266	0.000	73.735	0.000	66.266	0.000	73.773	42.105	-2.480	MWD+IFR1+MS
17400.000	90.000	359.784	9871.000	66.987	0.000	74.500	0.000	66.987	0.000	74.538	42.143	-2.435	MWD+IFR1+MS
17500.000	90.000	359.784	9871.000	67.710	0.000	75.268	0.000	67.710	0.000	75.306	42.182	-2.391	MWD+IFR1+MS
17600.000	90.000	359.784	9871.000	68.433	0.000	76.039	0.000	68.433	0.000	76.076	42.221	-2.350	MWD+IFR1+MS
17700.000	90.000	359.784	9871.000	69.158	0.000	76.812	0.000	69.158	0.000	76.848	42.261	-2.309	MWD+IFR1+MS
17800.000	90.000	359.784	9871.000	69.885	0.000	77.587	0.000	69.885	0.000	77.622	42.301	-2.271	MWD+IFR1+MS
17900.000	90.000	359.784	9871.000	70.612	0.000	78.365	0.000	70.612	0.000	78.399	42.341	-2.233	MWD+IFR1+MS
18000.000	90.000	359.784	9871.000	71.341	0.000	79.144	0.000	71.341	0.000	79.178	42.382	-2.197	MWD+IFR1+MS
18100.000	90.000	359.784	9871.000	72.071	0.000	79.926	0.000	72.071	0.000	79.959	42.424	-2.162	MWD+IFR1+MS
18200.000	90.000	359.784	9871.000	72.802	0.000	80.710	0.000	72.802	0.000	80.742	42.465	-2.129	MWD+IFR1+MS
18300.000	90.000	359.784	9871.000	73.534	0.000	81.496	0.000	73.534	0.000	81.528	42.508	-2.096	MWD+IFR1+MS
18400.000	90.000	359.784	9871.000	74.268	0.000	82.283	0.000	74.268	0.000	82.315	42.551	-2.064	MWD+IFR1+MS
18500.000	90.000	359.784	9871.000	75.002	0.000	83.073	0.000	75.002	0.000	83.104	42.594	-2.034	MWD+IFR1+MS
18600.000	90.000	359.784	9871.000	75.737	0.000	83.864	0.000	75.737	0.000	83.895	42.637	-2.004	MWD+IFR1+MS
18700.000	90.000	359.784	9871.000	76.474	0.000	84.657	0.000	76.474	0.000	84.687	42.682	-1.976	MWD+IFR1+MS
18800.000	90.000	359.784	9871.000	77.211	0.000	85.452	0.000	77.211	0.000	85.482	42.726	-1.948	MWD+IFR1+MS
18900.000	90.000	359.784	9871.000	77.949	0.000	86.249	0.000	77.949	0.000	86.278	42.771	-1.921	MWD+IFR1+MS
19000.000	90.000	359.784	9871.000	78.688	0.000	87.047	0.000	78.688	0.000	87.075	42.817	-1.895	MWD+IFR1+MS

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19100.000	90.000	359.784	9871.000	80.169	0.000	88.648	0.000	80.169	0.000	88.675	42.909	-1.845	MWD+IFR1+MS
19200.000	90.000	359.784	9871.000	80.911	0.000	89.451	0.000	80.911	0.000	89.478	42.956	-1.821	MWD+IFR1+MS
19300.000	90.000	359.784	9871.000	81.654	0.000	90.255	0.000	81.654	0.000	90.282	43.004	-1.798	MWD+IFR1+MS
19400.000	90.000	359.784	9871.000	82.397	0.000	91.061	0.000	82.397	0.000	91.087	43.051	-1.776	MWD+IFR1+MS
19500.000	90.000	359.784	9871.000	83.141	0.000	91.868	0.000	83.141	0.000	91.893	43.100	-1.754	MWD+IFR1+MS
19600.000	90.000	359.784	9871.000	83.886	0.000	92.676	0.000	83.886	0.000	92.701	43.148	-1.732	MWD+IFR1+MS
19700.000	90.000	359.784	9871.000	84.631	0.000	93.486	0.000	84.631	0.000	93.511	43.197	-1.712	MWD+IFR1+MS
19800.000	90.000	359.784	9871.000	85.377	0.000	94.296	0.000	85.377	0.000	94.321	43.247	-1.691	MWD+IFR1+MS
19900.000	90.000	359.784	9871.000	86.124	0.000	95.109	0.000	86.124	0.000	95.133	43.297	-1.672	MWD+IFR1+MS
20000.000	90.000	359.784	9871.000	86.872	0.000	95.922	0.000	86.872	0.000	95.946	43.348	-1.653	MWD+IFR1+MS
20100.000	90.000	359.784	9871.000	87.620	0.000	96.737	0.000	87.620	0.000	96.760	43.399	-1.634	MWD+IFR1+MS
20200.000	90.000	359.784	9871.000	88.369	0.000	97.552	0.000	88.369	0.000	97.576	43.450	-1.616	MWD+IFR1+MS
20300.000	90.000	359.784	9871.000	89.118	0.000	98.369	0.000	89.118	0.000	98.392	43.502	-1.598	MWD+IFR1+MS
20400.000	90.000	359.784	9871.000	89.868	0.000	99.187	0.000	89.868	0.000	99.210	43.554	-1.581	MWD+IFR1+MS
20500.000	90.000	359.784	9871.000	90.619	0.000	100.006	0.000	90.619	0.000	100.028	43.607	-1.564	MWD+IFR1+MS
20600.000	90.000	359.784	9871.000	91.370	0.000	100.826	0.000	91.370	0.000	100.848	43.660	-1.547	MWD+IFR1+MS
20700.000	90.000	359.784	9871.000	92.122	0.000	101.647	0.000	92.122	0.000	101.669	43.713	-1.531	MWD+IFR1+MS
20800.000	90.000	359.784	9871.000	92.874	0.000	102.469	0.000	92.874	0.000	102.491	43.767	-1.515	MWD+IFR1+MS
20900.000	90.000	359.784	9871.000	93.627	0.000	103.292	0.000	93.627	0.000	103.313	43.822	-1.500	MWD+IFR1+MS
21000.000	90.000	359.784	9871.000	94.381	0.000	104.116	0.000	94.381	0.000	104.137	43.877	-1.485	MWD+IFR1+MS
21100.000	90.000	359.784	9871.000	95.134	0.000	104.941	0.000	95.134	0.000	104.962	43.932	-1.470	MWD+IFR1+MS
21200.000	90.000	359.784	9871.000	95.889	0.000	105.767	0.000	95.889	0.000	105.787	43.988	-1.456	MWD+IFR1+MS
21300.000	90.000	359.784	9871.000	96.644	0.000	106.593	0.000	96.644	0.000	106.614	44.044	-1.442	MWD+IFR1+MS
21400.000	90.000	359.784	9871.000	97.399	0.000	107.421	0.000	97.399	0.000	107.441	44.100	-1.428	MWD+IFR1+MS
21500.000	90.000	359.784	9871.000	98.155	0.000	108.249	0.000	98.155	0.000	108.269	44.157	-1.415	MWD+IFR1+MS
21600.000	90.000	359.784	9871.000	98.911	0.000	109.078	0.000	98.911	0.000	109.098	44.215	-1.402	MWD+IFR1+MS
21700.000	90.000	359.784	9871.000	99.668	0.000	109.908	0.000	99.668	0.000	109.928	44.272	-1.389	MWD+IFR1+MS
21800.000	90.000	359.784	9871.000	100.425	0.000	110.739	0.000	100.425	0.000	110.758	44.331	-1.376	MWD+IFR1+MS
21900.000	90.000	359.784	9871.000	101.183	0.000	111.571	0.000	101.183	0.000	111.590	44.389	-1.364	MWD+IFR1+MS
22000.000	90.000	359.784	9871.000	101.941	0.000	112.403	0.000	101.941	0.000	112.422	44.448	-1.352	MWD+IFR1+MS
22100.000	90.000	359.784	9871.000	102.699	0.000	113.236	0.000	102.699	0.000	113.254	44.508	-1.340	MWD+IFR1+MS
22200.000	90.000	359.784	9871.000	103.458	0.000	114.070	0.000	103.458	0.000	114.088	44.568	-1.328	MWD+IFR1+MS
22300.000	90.000	359.784	9871.000										

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22400.000	90.000	359.784	9871.000	104.976	0.000	115.739	0.000	104.976	0.000	115.757	44.689	-1.306	MWD+IFR1+MS
22500.000	90.000	359.784	9871.000	105.736	0.000	116.575	0.000	105.736	0.000	116.593	44.750	-1.295	MWD+IFR1+MS
22600.000	90.000	359.784	9871.000	106.496	0.000	117.411	0.000	106.496	0.000	117.429	44.812	-1.284	MWD+IFR1+MS
22700.000	90.000	359.784	9871.000	107.257	0.000	118.249	0.000	107.257	0.000	118.266	44.873	-1.274	MWD+IFR1+MS
22800.000	90.000	359.784	9871.000	108.018	0.000	119.086	0.000	108.018	0.000	119.103	44.936	-1.264	MWD+IFR1+MS
22900.000	90.000	359.784	9871.000	108.779	0.000	119.925	0.000	108.779	0.000	119.942	44.999	-1.254	MWD+IFR1+MS
23000.000	90.000	359.784	9871.000	109.541	0.000	120.764	0.000	109.541	0.000	120.780	45.062	-1.244	MWD+IFR1+MS
23100.000	90.000	359.784	9871.000	110.303	0.000	121.603	0.000	110.303	0.000	121.620	45.125	-1.234	MWD+IFR1+MS
23200.000	90.000	359.784	9871.000	111.065	0.000	122.443	0.000	111.065	0.000	122.460	45.189	-1.224	MWD+IFR1+MS
23300.000	90.000	359.784	9871.000	111.828	0.000	123.284	0.000	111.828	0.000	123.300	45.254	-1.215	MWD+IFR1+MS
23400.000	90.000	359.784	9871.000	112.591	0.000	124.125	0.000	112.591	0.000	124.141	45.318	-1.206	MWD+IFR1+MS
23500.000	90.000	359.784	9871.000	113.354	0.000	124.967	0.000	113.354	0.000	124.983	45.383	-1.197	MWD+IFR1+MS
23600.000	90.000	359.784	9871.000	114.117	0.000	125.809	0.000	114.117	0.000	125.825	45.449	-1.188	MWD+IFR1+MS
23700.000	90.000	359.784	9871.000	114.881	0.000	126.652	0.000	114.881	0.000	126.668	45.515	-1.179	MWD+IFR1+MS
23800.000	90.000	359.784	9871.000	115.645	0.000	127.495	0.000	115.645	0.000	127.511	45.581	-1.171	MWD+IFR1+MS
23900.000	90.000	359.784	9871.000	116.409	0.000	128.339	0.000	116.409	0.000	128.354	45.648	-1.162	MWD+IFR1+MS
24000.000	90.000	359.784	9871.000	117.174	0.000	129.183	0.000	117.174	0.000	129.199	45.715	-1.154	MWD+IFR1+MS
24100.000	90.000	359.784	9871.000	117.939	0.000	130.028	0.000	117.939	0.000	130.043	45.782	-1.146	MWD+IFR1+MS
24200.000	90.000	359.784	9871.000	118.704	0.000	130.874	0.000	118.704	0.000	130.888	45.850	-1.138	MWD+IFR1+MS
24300.000	90.000	359.784	9871.000	119.469	0.000	131.719	0.000	119.469	0.000	131.734	45.918	-1.130	MWD+IFR1+MS
24400.000	90.000	359.784	9871.000	120.235	0.000	132.566	0.000	120.235	0.000	132.580	45.987	-1.122	MWD+IFR1+MS
24500.000	90.000	359.784	9871.000	121.001	0.000	133.412	0.000	121.001	0.000	133.427	46.056	-1.115	MWD+IFR1+MS
24600.000	90.000	359.784	9871.000	121.767	0.000	134.259	0.000	121.767	0.000	134.274	46.125	-1.107	MWD+IFR1+MS
24700.000	90.000	359.784	9871.000	122.533	0.000	135.107	0.000	122.533	0.000	135.121	46.195	-1.100	MWD+IFR1+MS
24800.000	90.000	359.784	9871.000	123.300	0.000	135.955	0.000	123.300	0.000	135.969	46.265	-1.093	MWD+IFR1+MS
24900.000	90.000	359.784	9871.000	124.067	0.000	136.803	0.000	124.067	0.000	136.817	46.335	-1.086	MWD+IFR1+MS
25000.000	90.000	359.784	9871.000	124.834	0.000	137.652	0.000	124.834	0.000	137.666	46.406	-1.079	MWD+IFR1+MS
25100.000	90.000	359.784	9871.000	125.601	0.000	138.501	0.000	125.601	0.000	138.515	46.477	-1.072	MWD+IFR1+MS
25200.000	90.000	359.784	9871.000	126.368	0.000	139.351	0.000	126.368	0.000	139.364	46.549	-1.065	MWD+IFR1+MS
25300.000	90.000	359.784	9871.000	127.136	0.000	140.201	0.000	127.136	0.000	140.214	46.621	-1.058	MWD+IFR1+MS
25400.000	90.000	359.784	9871.000	127.904	0.000	141.051	0.000	127.904	0.000	141.064	46.693	-1.052	MWD+IFR1+MS
25500.000	90.000	359.784	9871.000	128.672	0.000	141.902	0.000	128.672	0.000	141.915	46.766	-1.045	MWD+IFR1+MS
25600.000	90.000	359.784	9871.000	128.672	0.000	141.902	0.000	128.672	0.000	141.915	46.766	-1.045	MWD+IFR1+MS

Well Plan Report

11/8/23, 11:57 AM	90.000	359.784	9871.000	129.440	0.000	142.753	0.000	129.440	0.000	142.766	46.838	-1.039	MWD+IFR1+MS
25700.000	90.000	359.784	9871.000	129.440	0.000	142.753	0.000	129.440	0.000	142.766	46.838	-1.039	MWD+IFR1+MS
25800.000	90.000	359.784	9871.000	130.209	0.000	143.604	0.000	130.209	0.000	143.617	46.912	-1.033	MWD+IFR1+MS
25900.000	90.000	359.784	9871.000	130.978	0.000	144.456	0.000	130.978	0.000	144.469	46.986	-1.026	MWD+IFR1+MS
26000.000	90.000	359.784	9871.000	131.746	0.000	145.308	0.000	131.746	0.000	145.321	47.060	-1.020	MWD+IFR1+MS
26100.000	90.000	359.784	9871.000	132.515	0.000	146.160	0.000	132.515	0.000	146.173	47.134	-1.014	MWD+IFR1+MS
26200.000	90.000	359.784	9871.000	133.285	0.000	147.013	0.000	133.285	0.000	147.026	47.209	-1.008	MWD+IFR1+MS
26300.000	90.000	359.784	9871.000	134.054	0.000	147.866	0.000	134.054	0.000	147.879	47.284	-1.003	MWD+IFR1+MS
26400.000	90.000	359.784	9871.000	134.824	0.000	148.720	0.000	134.824	0.000	148.732	47.359	-0.997	MWD+IFR1+MS
26500.000	90.000	359.784	9871.000	135.593	0.000	149.573	0.000	135.593	0.000	149.586	47.435	-0.991	MWD+IFR1+MS
26600.000	90.000	359.784	9871.000	136.363	0.000	150.427	0.000	136.363	0.000	150.440	47.511	-0.986	MWD+IFR1+MS
26650.659	90.000	359.784	9871.000	136.753	0.000	150.859	0.000	136.753	0.000	150.872	47.550	-0.983	MWD+IFR1+MS
26700.803	90.000	359.784	9871.000	137.139	0.000	151.287	0.000	137.139	0.000	151.299	47.588	-0.980	MWD+IFR1+MS

POKER LAKE UNIT 22 DTD 127H

Plan Targets	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape
FTP 18	10421.04	440097.60	644891.50	6409.00	RECTANGLE
LTP 18	26650.66	456327.10	644830.40	6409.00	RECTANGLE
BHL 18	26700.66	456377.10	644830.10	6409.00	RECTANGLE



U. S. Steel Tubular Products

2/22/2022 2:07:15 PM

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	—

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

8/27/2021 1:46:58 PM



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]

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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 308860

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 308860
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	All original COA's still apply.	1/30/2024