U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Sundry Print Report

10/21/2024

Well Name: POKER LAKE UNIT 21 DTD

Well Location: T24S / R30E / SEC 21 / NWNW / 32.209387 / -103.892143

County or Parish/State: EDDY / NM

Well Number: 171H

Type of Well: CONVENTIONAL GAS WELL

Allottee or Tribe Name:

Lease Number: NMLC068430

Unit or CA Name: POKER LAKE UNIT

Unit or CA Number: NMNM71016X

US Well Number: 3001553381

Operator: XTO PERMIAN OPERATING LLC

Notice of Intent

Sundry ID: 2815425

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 10/04/2024

Time Sundry Submitted: 10:30

Date proposed operation will begin: 10/08/2024

Procedure Description: XTO Permian Operating requests to change the casing plan, TD'ing our Intermediate casing shallower so that they could bore the hole with Fresh water. No Additional Surface Disturbance.

NOI Attachments

Procedure Description

PLU_21_DTD_171H_Sundry_Attachments_20241018122932.pdf

Conditions of Approval

Additional

Poker_Lake_Unit_21_DTD_105H__178H__171_H_COA__20241021131944.pdf

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Operator: XTO PERMIAN OPERATING LLC

Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: TERRA SEBASTIAN

Signed on: OCT 18, 2024 12:29 PM

Name: XTO PERMIAN OPERATING LLC

Title: Regulatory Advisor

Street Address: 6401 HOLIDAY HILL ROAD SUITE 200

City: MIDLAND **State:** TX

Phone: (432) 999-3107

Email address: TERRA.B.SEBASTIAN@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: 10/21/2024

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.

SUBMIT IN TRIPLICATE *- Other instructions on page 2*

5. Lease Serial No.

6. If Indian, Allottee or Tribe Name

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

1. Type of Well
☐ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.

2. Name of Operator

9. API Well No.

3a. Address

3b. Phone No. *(include area code)*

10. Field and Pool or 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			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
☐ Final Abandonment Notice	☐ Convert to Injection	☐ Plug Back	☐ 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 perfonned or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

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

Title

Signature

Date

THE SPACE FOR FEDERAL OR STATE OFICE 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 ofthis form to U.S. Department ofthe Interior, Bureau ofLand 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: NWNW / 391 FNL / 848 FWL / TWSP: 24S / RANGE: 30E / SECTION: 21 / LAT: 32.209387 / LONG: -103.892143 (TVD: 0 feet, MD: 0 feet)

PPP: NWNW / 100 FNL / 1352 FWL / TWSP: 24S / RANGE: 30E / SECTION: 21 / LAT: 32.2094 / LONG: -103.892014 (TVD: 10943 feet, MD: 11290 feet)

BHL: NWNW / 200 FNL / 890 FWL / TWSP: 23S / RANGE: 30E / SECTION: 33 / LAT: 32.268083 / LONG: -103.832004 (TVD: 10943 feet, MD: 32637 feet)

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO
LEASE NO.:	**NMLC068430**
LOCATION:	Sec. 21, T.24 S, R 30 E
COUNTY:	Eddy County, New Mexico
WELL NAME & NO.:	Poker Lake Unit 21 DTD 105H
SURFACE HOLE FOOTAGE:	396'/N & 2247'/W
BOTTOM HOLE FOOTAGE:	2629'/N & 2335'/E

WELL NAME & NO.:	Poker Lake Unit 21 DTD 171H
SURFACE HOLE FOOTAGE:	391'/N & 848'/W
BOTTOM HOLE FOOTAGE:	2631'/N & 1352'/W

WELL NAME & NO.:	Poker Lake Unit 21 DTD 178H
SURFACE HOLE FOOTAGE:	1367'/N & 1396'/E
BOTTOM HOLE FOOTAGE:	2629'/N & 1826'/E

*Changes approved through engineering via **Sundry 2782718, 2815425, 2812755_** on 10-21-2024. Any previous COAs not addressed within the updated COAs still apply.*

COA

H_2S	○ No		○ Yes	
Potash / WIPP	◉ None	○ Secretary	○ R-111-Q	☐ Open Annulus
	Choose an option (including blank option.)			☐ WIPP
Cave / Karst	○ Low	◉ Medium	○ High	○ Critical
Wellhead	○ Conventional	◉ Multibowl	○ Both	○ Diverter
Cementing	☑ Primary Squeeze	☐ Cont. Squeeze	☑ EchoMeter	☐ DV Tool
Special Req	☐ Capitan Reef	☐ Water Disposal	☐ COM	☑ Unit
Waste Prev.	○ Self-Certification	○ Waste Min. Plan	◉ APD Submitted prior to 06/10/2024	
Additional Language	☑ Flex Hose	☑ Casing Clearance	☐ Pilot Hole	☑ Break Testing
	☐ Four-String	☑ Offline Cementing	☐ Fluid-Filled	

A. HYDROGEN SULFIDE

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

items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

1. The **9-5/8** inch surface casing shall be set at approximately **932** 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 **7-5/8** 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 6265'**

    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.

Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst.

- ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

Operator has proposed to pump down Surface X Intermediate 1 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 Surface casing to tieback requirements listed above 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. Operator must use a limited flush fluid volume of 1 bbl following backside cementing procedures.

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

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. **(This is not necessary for secondary recovery unit wells)**

BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for intervals utilizing a 5M BOPE or less. **(Annular preventer must be tested to a minimum of 70% of BOPE working**

pressure and shall be higher than the MASP.)

- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer **(575-706-2779)** prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (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 **43 CFR 3172**.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

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

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

Casing Clearance
String does not meet 0.422" clearance requirement per 43 CFR 3172. Cement tieback requirement increased 100' for 2nd Intermediate casing tieback. Operator may contact approving engineer to discuss changing casing set depth or grade to meet clearance requirement.

GENERAL REQUIREMENTS

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

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

Contact Eddy County Petroleum Engineering Inspection Staff:

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

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

A. CASING

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

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

B. PRESSURE CONTROL

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

requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.

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

open. (only applies to single stage cement jobs, prior to the cement setting up.)

iii. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

iv. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.

v. The results of the test shall be reported to the appropriate BLM office.

vi. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.

vii. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.

viii. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR 3172**.

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

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

Approved by Zota Stevens on 10/21/2024
575-234-5998 / zstevens@blm.gov

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

XTO Energy Inc.
POKER LAKE UNIT 21 DTD SOUTH 171H
Projected TD: 22429.53' MD / 9601' TVD
SHL: 391' FNL & 848' FWL , Section 21, T24S, R30E
BHL: 2631' FNL & 1352' FWL , Section 33, T23S, 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	880'	Water
Top of Salt	1283'	Water
Base of Salt	3476'	Water
Delaware	3670'	Water
Brushy Canyon	6216'	Water/Oil/Gas
Bone Spring	7540'	Water
Avalon	8233'	Water/Oil/Gas
1st Bone Spring	8249'	Water/Oil/Gas
2nd Bone Spring	8834'	Water/Oil/Gas
Target/Land Curve	9601'	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 9.625 inch casing @ 980' (303' above the salt) and circulating cement back to surface. The intermediate will isolate from the top of salt down to the next casing seat by setting 7.625 inch casing at 7560' and cemented to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 22429.53 MD/TD and 5.5 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 7260 feet).

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0' – 980'	9.625	40	J-55	BTC	New	2.20	6.42	16.07
8.75	0' – 4000'	7.625	29.7	RY P-110	Flush Joint	New	3.02	2.92	2.49
8.75	4000' – 7560'	7.625	29.7	HC L-80	Flush Joint	New	2.20	3.16	3.84
6.75	0' – 7460'	5.5	20	RY P-110	Semi-Premium	New	1.05	2.73	2.23
6.75	7460' - 22429.53'	5.5	20	RY P-110	Semi-Flush	New	1.05	2.12	2.23

· XTO requests the option to utilize a spudder rig (Atlas Copco RD20 or Equivalent) to set and cement surface casing per this Sundry
· 7.625 Collapse analyzed using 50% evacuation based on regional experience.
· 5.5 Tension calculated using vertical hanging weight plus the lateral weight multiplied by a friction factor of 0.35

Wellhead:

Permanent Wellhead – Multibowl System

A. Starting Head: 11” 10M top flange x 9-5/8” bottom

B. Tubing Head: 11” 10M bottom flange x 7-1/16” 15M top flange

- Wellhead will be installed by manufacturer’s representatives.
- Manufacturer will monitor welding process to ensure appropriate temperature of seal.

4. Cement Program

Surface Casing: 9.625, 40 New BTC, J-55 casing to be set at +/- 980'

Lead: 220 sxs EconoCem-HLTRRC (mixed at 10.5 ppg, 1.87 ft3/sx, 10.13 gal/sx water)
Tail: 130 sxs Class C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)
Top of Cement: Surface
Compressives: 12-hr = 900 psi 24 hr = 1500 psi

2nd Intermediate Casing: 7.625, 29.7 New casing to be set at +/- 7560'
1st Stage
Optional Lead: 330 sxs Class C (mixed at 10.5 ppg, 2.77 ft3/sx, 15.59 gal/sx water)
TOC: Surface
Tail: 120 sxs Class C (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)
TOC: Brushy Canyon @ 6216
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: 700 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 (6216') 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, 20 New Semi-Flush, RY P-110 casing to be set at +/- 22429.53'

Lead: 60 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft3/sx, 15.00 gal/sx water) Top of Cement: 7260 feet
Tail: 970 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft3/sx, 8.38 gal/sx water) Top of Cement: 8925.77 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 9.625 casing, the blow out preventer equipment (BOP) will consist of a 13-5/8" minimum 5M Hydril and a 13-5/8" minimum 10M Double Ram BOP. MASP should not exceed 3130 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 nippling up on the 9.625, 10M bradenhead and flange, the BOP test will be limited to 10000 psi. When nippling up on the 7.625, the BOP will be tested to a minimum of 10000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 10M BOP diagrams are attached. Blind rams will be functioned tested each trip, pipe rams will be functioned tested each week.

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' - 980'	12.25	FW/Native	8.4-8.9	35-40	NC
980' - 7560'	8.75	FW / Cut Brine / Direct Emulsion	8.8-9.3	30-32	NC
7560' - 22429.53'	6.75	FW/OBM	10.5-11	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. 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 9.625 casing.

8. Logging, Coring and Testing Program

Open hole logging will not be done on this well.

9. Abnormal Pressures and Temperatures / Potential Hazards

None Anticipated. BHT of 160 to 180 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 5242 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.

Well Plan Report - Poker Lake Unit 21 DTD South 171H

Measured Depth:	22429.53 ft
TVD RKB:	9601.00 ft
Location	
Cartographic Reference System:	New Mexico East - NAD 27
Northing:	440129.80 ft
Easting:	636606.40 ft
RKB:	3350.00 ft
Ground Level:	3318.00 ft
North Reference:	Grid
Convergence Angle:	0.24 Deg

Plan Sections Poker Lake Unit 21 DTD South 171H

Measured Depth (ft)	Inclination (Deg)	Azimuth (Deg)	TVD RKB (ft)	Y Offset (ft)	X Offset (ft)	Build Rate (Deg/100ft)	Turn Rate (Deg/100ft)	Dogleg Rate (Deg/100ft)	Target
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	
1516.34	8.33	59.68	1514.87	15.25	26.07	2.00	0.00	2.00	
5124.63	8.33	59.68	5085.13	279.05	477.13	0.00	0.00	0.00	
5540.97	0.00	0.00	5500.00	294.30	503.20	-2.00	0.00	2.00	
8925.77	0.00	0.00	8884.80	294.30	503.20	0.00	0.00	0.00	
10050.77	90.00	179.64	9601.00	-421.88	507.67	8.00	0.00	8.00	
22339.69	90.00	179.64	9601.00	-12710.57	584.46	0.00	0.00	0.00	LTP 14
22429.53	90.00	179.64	9601.00	-12800.40	585.02	0.00	0.00	0.00	BHL 14

Position Uncertainty Poker Lake Unit 21 DTD South 171H

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

Depth	Inclination	Azimuth	RKB	Error	Bias	Error	Bias	Error	Bias	of Bias	Error	Error	Azimuth	Used
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	MWD+IFR1+MS
100.000	0.000	0.000	100.000	0.700	0.000	0.350	0.000	2.300	0.000	0.000	0.751	0.220	112.264	MWD+IFR1+MS
200.000	0.000	0.000	200.000	1.112	0.000	0.861	0.000	2.309	0.000	0.000	1.259	0.627	122.711	MWD+IFR1+MS
300.000	0.000	0.000	300.000	1.497	0.000	1.271	0.000	2.325	0.000	0.000	1.698	0.986	125.469	MWD+IFR1+MS
400.000	0.000	0.000	400.000	1.871	0.000	1.658	0.000	2.347	0.000	0.000	2.108	1.344	126.713	MWD+IFR1+MS
500.000	0.000	0.000	500.000	2.240	0.000	2.034	0.000	2.374	0.000	0.000	2.503	1.701	127.419	MWD+IFR1+MS
600.000	0.000	0.000	600.000	2.607	0.000	2.405	0.000	2.406	0.000	0.000	2.888	2.059	127.873	MWD+IFR1+MS
700.000	0.000	0.000	700.000	2.971	0.000	2.773	0.000	2.443	0.000	0.000	3.267	2.417	128.190	MWD+IFR1+MS
800.000	0.000	0.000	800.000	3.334	0.000	3.138	0.000	2.485	0.000	0.000	3.642	2.775	128.423	MWD+IFR1+MS
900.000	0.000	0.000	900.000	3.696	0.000	3.502	0.000	2.530	0.000	0.000	4.014	3.133	128.602	MWD+IFR1+MS
1000.000	0.000	0.000	1000.000	4.058	0.000	3.865	0.000	2.580	0.000	0.000	4.384	3.491	128.744	MWD+IFR1+MS
1100.000	0.000	0.000	1100.000	4.419	0.000	4.228	0.000	2.633	0.000	0.000	4.752	3.849	128.859	MWD+IFR1+MS
1200.000	2.000	59.678	1199.980	5.185	0.000	4.326	0.000	2.690	0.000	0.000	5.247	4.254	134.840	MWD+IFR1+MS
1300.000	4.000	59.678	1299.838	5.940	0.000	4.710	0.000	2.750	0.000	0.000	5.955	4.702	-34.618	MWD+IFR1+MS
1400.000	6.000	59.678	1399.452	6.621	0.000	5.090	0.000	2.815	0.000	0.000	6.642	5.090	-29.282	MWD+IFR1+MS
1500.000	8.000	59.678	1498.702	7.248	0.000	5.468	0.000	2.888	0.000	0.000	7.291	5.457	-26.271	MWD+IFR1+MS
1516.336	8.327	59.678	1514.872	7.289	0.000	5.524	0.000	2.894	0.000	0.000	7.337	5.514	-26.282	MWD+IFR1+MS
1600.000	8.327	59.678	1597.654	7.514	0.000	5.819	0.000	2.952	0.000	0.000	7.561	5.808	-26.221	MWD+IFR1+MS
1700.000	8.327	59.678	1696.600	7.801	0.000	6.191	0.000	3.025	0.000	0.000	7.846	6.179	-25.672	MWD+IFR1+MS
1800.000	8.327	59.678	1795.546	8.098	0.000	6.567	0.000	3.101	0.000	0.000	8.143	6.552	-24.993	MWD+IFR1+MS
1900.000	8.327	59.678	1894.492	8.401	0.000	6.942	0.000	3.179	0.000	0.000	8.445	6.924	-24.320	MWD+IFR1+MS
2000.000	8.327	59.678	1993.437	8.709	0.000	7.317	0.000	3.260	0.000	0.000	8.753	7.296	-23.655	MWD+IFR1+MS
2100.000	8.327	59.678	2092.383	9.023	0.000	7.691	0.000	3.343	0.000	0.000	9.066	7.666	-22.998	MWD+IFR1+MS
2200.000	8.327	59.678	2191.329	9.341	0.000	8.065	0.000	3.428	0.000	0.000	9.383	8.037	-22.350	MWD+IFR1+MS
2300.000	8.327	59.678	2290.275	9.662	0.000	8.438	0.000	3.516	0.000	0.000	9.705	8.407	-21.711	MWD+IFR1+MS
2400.000	8.327	59.678	2389.221	9.988	0.000	8.811	0.000	3.605	0.000	0.000	10.029	8.776	-21.083	MWD+IFR1+MS
2500.000	8.327	59.678	2488.167	10.316	0.000	9.183	0.000	3.696	0.000	0.000	10.357	9.145	-20.464	MWD+IFR1+MS
2600.000	8.327	59.678	2587.112	10.647	0.000	9.555	0.000	3.788	0.000	0.000	10.688	9.514	-19.857	MWD+IFR1+MS
2700.000	8.327	59.678	2686.058	10.982	0.000	9.927	0.000	3.883	0.000	0.000	11.022	9.883	-19.260	MWD+IFR1+MS
2800.000	8.327	59.678	2785.004	11.318	0.000	10.298	0.000	3.979	0.000	0.000	11.358	10.251	-18.676	MWD+IFR1+MS
2900.000	8.327	59.678	2883.950	11.657	0.000	10.670	0.000	4.076	0.000	0.000	11.696	10.619	-18.103	MWD+IFR1+MS

3000.000	8.327	59.678	2982.896	11.998	0.000	11.041	0.000	4.175	0.000	0.000	12.036	10.987	-17.542	MWD+IFR1+MS
3100.000	8.327	59.678	3081.842	12.340	0.000	11.412	0.000	4.276	0.000	0.000	12.378	11.355	-16.993	MWD+IFR1+MS
3200.000	8.327	59.678	3180.787	12.684	0.000	11.783	0.000	4.378	0.000	0.000	12.722	11.723	-16.457	MWD+IFR1+MS
3300.000	8.327	59.678	3279.733	13.030	0.000	12.154	0.000	4.481	0.000	0.000	13.067	12.091	-15.933	MWD+IFR1+MS
3400.000	8.327	59.678	3378.679	13.378	0.000	12.524	0.000	4.586	0.000	0.000	13.413	12.459	-15.422	MWD+IFR1+MS
3500.000	8.327	59.678	3477.625	13.726	0.000	12.895	0.000	4.692	0.000	0.000	13.761	12.826	-14.923	MWD+IFR1+MS
3600.000	8.327	59.678	3576.571	14.076	0.000	13.265	0.000	4.800	0.000	0.000	14.110	13.194	-14.437	MWD+IFR1+MS
3700.000	8.327	59.678	3675.517	14.427	0.000	13.635	0.000	4.910	0.000	0.000	14.460	13.562	-13.963	MWD+IFR1+MS
3800.000	8.327	59.678	3774.463	14.780	0.000	14.005	0.000	5.020	0.000	0.000	14.811	13.929	-13.501	MWD+IFR1+MS
3900.000	8.327	59.678	3873.408	15.133	0.000	14.375	0.000	5.133	0.000	0.000	15.163	14.297	-13.052	MWD+IFR1+MS
4000.000	8.327	59.678	3972.354	15.487	0.000	14.745	0.000	5.246	0.000	0.000	15.516	14.665	-12.616	MWD+IFR1+MS
4100.000	8.327	59.678	4071.300	15.842	0.000	15.115	0.000	5.362	0.000	0.000	15.870	15.032	-12.191	MWD+IFR1+MS
4200.000	8.327	59.678	4170.246	16.198	0.000	15.485	0.000	5.478	0.000	0.000	16.224	15.400	-11.778	MWD+IFR1+MS
4300.000	8.327	59.678	4269.192	16.554	0.000	15.855	0.000	5.597	0.000	0.000	16.579	15.768	-11.377	MWD+IFR1+MS
4400.000	8.327	59.678	4368.138	16.911	0.000	16.225	0.000	5.717	0.000	0.000	16.935	16.135	-10.988	MWD+IFR1+MS
4500.000	8.327	59.678	4467.083	17.269	0.000	16.594	0.000	5.838	0.000	0.000	17.291	16.503	-10.610	MWD+IFR1+MS
4600.000	8.327	59.678	4566.029	17.628	0.000	16.964	0.000	5.962	0.000	0.000	17.648	16.871	-10.243	MWD+IFR1+MS
4700.000	8.327	59.678	4664.975	17.987	0.000	17.334	0.000	6.086	0.000	0.000	18.005	17.238	-9.887	MWD+IFR1+MS
4800.000	8.327	59.678	4763.921	18.347	0.000	17.703	0.000	6.213	0.000	0.000	18.363	17.606	-9.542	MWD+IFR1+MS
4900.000	8.327	59.678	4862.867	18.707	0.000	18.073	0.000	6.341	0.000	0.000	18.721	17.974	-9.208	MWD+IFR1+MS
5000.000	8.327	59.678	4961.813	19.067	0.000	18.442	0.000	6.471	0.000	0.000	19.080	18.342	-8.884	MWD+IFR1+MS
5100.000	8.327	59.678	5060.758	19.428	0.000	18.812	0.000	6.603	0.000	0.000	19.439	18.710	-8.570	MWD+IFR1+MS
5124.630	8.327	59.678	5085.128	19.515	0.000	18.900	0.000	6.636	0.000	0.000	19.524	18.800	-8.616	MWD+IFR1+MS
5200.000	6.819	59.678	5159.839	19.804	0.000	19.172	0.000	6.737	0.000	0.000	19.797	19.073	-8.858	MWD+IFR1+MS
5300.000	4.819	59.678	5259.319	20.250	0.000	19.534	0.000	6.873	0.000	0.000	20.245	19.434	-9.975	MWD+IFR1+MS
5400.000	2.819	59.678	5359.092	20.695	0.000	19.894	0.000	7.005	0.000	0.000	20.719	19.790	-11.009	MWD+IFR1+MS
5500.000	0.819	59.678	5459.036	21.108	0.000	20.249	0.000	7.133	0.000	0.000	21.185	20.141	-11.764	MWD+IFR1+MS
5540.965	0.000	0.000	5500.000	20.329	0.000	21.281	0.000	7.185	0.000	0.000	21.325	20.283	-11.956	MWD+IFR1+MS
5600.000	0.000	0.000	5559.035	20.535	0.000	21.471	0.000	7.260	0.000	0.000	21.515	20.489	-12.093	MWD+IFR1+MS
5700.000	0.000	0.000	5659.035	20.883	0.000	21.797	0.000	7.387	0.000	0.000	21.843	20.836	-12.408	MWD+IFR1+MS
5800.000	0.000	0.000	5759.035	21.235	0.000	22.127	0.000	7.517	0.000	0.000	22.176	21.184	-12.885	MWD+IFR1+MS
5900.000	0.000	0.000	5859.035	21.587	0.000	22.459	0.000	7.650	0.000	0.000	22.510	21.534	-13.361	MWD+IFR1+MS
6000.000	0.000	0.000	5959.035	21.939	0.000	22.791	0.000	7.785	0.000	0.000	22.844	21.883	-13.838	MWD+IFR1+MS

6100.000	0.000	0.000	6059.035	22.291	0.000	23.123	0.000	7.922	0.000	0.000	23.180	22.232	-14.313	MWD+IFR1+MS
6200.000	0.000	0.000	6159.035	22.644	0.000	23.457	0.000	8.061	0.000	0.000	23.517	22.582	-14.788	MWD+IFR1+MS
6300.000	0.000	0.000	6259.035	22.996	0.000	23.791	0.000	8.203	0.000	0.000	23.854	22.931	-15.261	MWD+IFR1+MS
6400.000	0.000	0.000	6359.035	23.349	0.000	24.126	0.000	8.347	0.000	0.000	24.192	23.281	-15.733	MWD+IFR1+MS
6500.000	0.000	0.000	6459.035	23.702	0.000	24.462	0.000	8.494	0.000	0.000	24.530	23.631	-16.204	MWD+IFR1+MS
6600.000	0.000	0.000	6559.035	24.055	0.000	24.798	0.000	8.644	0.000	0.000	24.870	23.981	-16.672	MWD+IFR1+MS
6700.000	0.000	0.000	6659.035	24.409	0.000	25.135	0.000	8.796	0.000	0.000	25.210	24.331	-17.138	MWD+IFR1+MS
6800.000	0.000	0.000	6759.035	24.762	0.000	25.472	0.000	8.950	0.000	0.000	25.550	24.682	-17.602	MWD+IFR1+MS
6900.000	0.000	0.000	6859.035	25.116	0.000	25.810	0.000	9.107	0.000	0.000	25.891	25.032	-18.064	MWD+IFR1+MS
7000.000	0.000	0.000	6959.035	25.470	0.000	26.149	0.000	9.267	0.000	0.000	26.233	25.383	-18.522	MWD+IFR1+MS
7100.000	0.000	0.000	7059.035	25.824	0.000	26.488	0.000	9.429	0.000	0.000	26.575	25.733	-18.978	MWD+IFR1+MS
7200.000	0.000	0.000	7159.035	26.178	0.000	26.827	0.000	9.594	0.000	0.000	26.918	26.084	-19.430	MWD+IFR1+MS
7300.000	0.000	0.000	7259.035	26.532	0.000	27.167	0.000	9.762	0.000	0.000	27.262	26.435	-19.879	MWD+IFR1+MS
7400.000	0.000	0.000	7359.035	26.886	0.000	27.508	0.000	9.932	0.000	0.000	27.605	26.786	-20.324	MWD+IFR1+MS
7500.000	0.000	0.000	7459.035	27.240	0.000	27.849	0.000	10.105	0.000	0.000	27.950	27.137	-20.765	MWD+IFR1+MS
7600.000	0.000	0.000	7559.035	27.595	0.000	28.190	0.000	10.281	0.000	0.000	28.294	27.488	-21.203	MWD+IFR1+MS
7700.000	0.000	0.000	7659.035	27.950	0.000	28.532	0.000	10.460	0.000	0.000	28.639	27.839	-21.636	MWD+IFR1+MS
7800.000	0.000	0.000	7759.035	28.304	0.000	28.874	0.000	10.641	0.000	0.000	28.985	28.191	-22.066	MWD+IFR1+MS
7900.000	0.000	0.000	7859.035	28.659	0.000	29.217	0.000	10.825	0.000	0.000	29.331	28.542	-22.491	MWD+IFR1+MS
8000.000	0.000	0.000	7959.035	29.014	0.000	29.560	0.000	11.012	0.000	0.000	29.677	28.894	-22.911	MWD+IFR1+MS
8100.000	0.000	0.000	8059.035	29.369	0.000	29.903	0.000	11.202	0.000	0.000	30.024	29.245	-23.327	MWD+IFR1+MS
8200.000	0.000	0.000	8159.035	29.724	0.000	30.247	0.000	11.395	0.000	0.000	30.371	29.597	-23.738	MWD+IFR1+MS
8300.000	0.000	0.000	8259.035	30.079	0.000	30.591	0.000	11.590	0.000	0.000	30.718	29.949	-24.145	MWD+IFR1+MS
8400.000	0.000	0.000	8359.035	30.434	0.000	30.935	0.000	11.788	0.000	0.000	31.066	30.301	-24.546	MWD+IFR1+MS
8500.000	0.000	0.000	8459.035	30.789	0.000	31.280	0.000	11.990	0.000	0.000	31.414	30.653	-24.943	MWD+IFR1+MS
8600.000	0.000	0.000	8559.035	31.145	0.000	31.625	0.000	12.194	0.000	0.000	31.762	31.005	-25.335	MWD+IFR1+MS
8700.000	0.000	0.000	8659.035	31.500	0.000	31.970	0.000	12.401	0.000	0.000	32.111	31.357	-25.721	MWD+IFR1+MS
8800.000	0.000	0.000	8759.035	31.856	0.000	32.316	0.000	12.611	0.000	0.000	32.460	31.709	-26.103	MWD+IFR1+MS
8900.000	0.000	0.000	8859.035	32.211	0.000	32.662	0.000	12.823	0.000	0.000	32.809	32.061	-26.480	MWD+IFR1+MS
8925.765	0.000	0.000	8884.800	32.302	0.000	32.750	0.000	12.879	0.000	0.000	32.897	32.152	-26.517	MWD+IFR1+MS
9000.000	5.939	179.642	8958.902	32.395	0.000	32.994	-0.000	13.039	0.000	0.000	33.160	32.471	-29.865	MWD+IFR1+MS
9100.000	13.939	179.642	9057.321	32.920	0.000	33.299	-0.000	13.327	0.000	0.000	34.051	33.136	114.445	MWD+IFR1+MS
9200.000	21.939	179.642	9152.383	33.229	0.000	33.590	-0.000	13.819	0.000	0.000	35.386	33.493	102.607	MWD+IFR1+MS

9300.000	29.939	179.642	9242.236	33.045	0.000	33.863	-0.000	14.573	0.000	0.000	36.580	33.778	99.520	MWD+IFR1+MS
9400.000	37.939	179.642	9325.132	32.435	0.000	34.116	-0.000	15.618	0.000	0.000	37.579	34.031	98.309	MWD+IFR1+MS
9500.000	45.939	179.642	9399.457	31.486	0.000	34.345	-0.000	16.942	0.000	0.000	38.371	34.257	97.817	MWD+IFR1+MS
9600.000	53.939	179.642	9463.766	30.316	0.000	34.552	-0.000	18.499	0.000	0.000	38.963	34.457	97.707	MWD+IFR1+MS
9700.000	61.939	179.642	9516.805	29.069	0.000	34.734	-0.000	20.228	0.000	0.000	39.371	34.631	97.849	MWD+IFR1+MS
9800.000	69.939	179.642	9557.543	27.919	0.000	34.891	-0.000	22.061	0.000	0.000	39.622	34.777	98.172	MWD+IFR1+MS
9900.000	77.939	179.642	9585.187	27.056	0.000	35.022	-0.000	23.933	0.000	0.000	39.750	34.896	98.625	MWD+IFR1+MS
10000.000	85.939	179.642	9599.199	26.665	0.000	35.127	-0.000	25.781	0.000	0.000	39.799	34.988	99.138	MWD+IFR1+MS
10050.765	90.000	179.642	9600.997	26.101	0.000	35.167	-0.000	26.101	0.000	0.000	39.809	35.021	99.377	MWD+IFR1+MS
10100.000	90.000	179.642	9600.997	26.208	0.000	35.203	-0.000	26.208	0.000	0.000	39.817	35.051	99.613	MWD+IFR1+MS
10200.000	90.000	179.642	9600.997	26.386	0.000	35.294	-0.000	26.386	0.000	0.000	39.833	35.128	100.134	MWD+IFR1+MS
10300.000	90.000	179.642	9600.997	26.589	0.000	35.404	-0.000	26.589	0.000	0.000	39.852	35.222	100.706	MWD+IFR1+MS
10400.000	90.000	179.642	9600.997	26.813	0.000	35.529	-0.000	26.813	0.000	0.000	39.873	35.331	101.332	MWD+IFR1+MS
10500.000	90.000	179.642	9600.997	27.058	0.000	35.671	-0.000	27.058	0.000	0.000	39.896	35.455	102.022	MWD+IFR1+MS
10600.000	90.000	179.642	9600.997	27.324	0.000	35.828	-0.000	27.324	0.000	0.000	39.922	35.592	102.783	MWD+IFR1+MS
10700.000	90.000	179.642	9600.997	27.609	0.000	36.001	-0.000	27.609	0.000	0.000	39.950	35.742	103.628	MWD+IFR1+MS
10800.000	90.000	179.642	9600.997	27.914	0.000	36.190	-0.000	27.914	0.000	0.000	39.982	35.905	104.570	MWD+IFR1+MS
10900.000	90.000	179.642	9600.997	28.237	0.000	36.393	-0.000	28.237	0.000	0.000	40.017	36.080	105.626	MWD+IFR1+MS
11000.000	90.000	179.642	9600.997	28.578	0.000	36.612	-0.000	28.578	0.000	0.000	40.057	36.266	106.813	MWD+IFR1+MS
11100.000	90.000	179.642	9600.997	28.936	0.000	36.845	-0.000	28.936	0.000	0.000	40.102	36.461	108.155	MWD+IFR1+MS
11200.000	90.000	179.642	9600.997	29.311	0.000	37.092	-0.000	29.311	0.000	0.000	40.154	36.666	109.678	MWD+IFR1+MS
11300.000	90.000	179.642	9600.997	29.702	0.000	37.354	-0.000	29.702	0.000	0.000	40.212	36.877	111.410	MWD+IFR1+MS
11400.000	90.000	179.642	9600.997	30.108	0.000	37.629	-0.000	30.108	0.000	0.000	40.280	37.094	113.383	MWD+IFR1+MS
11500.000	90.000	179.642	9600.997	30.529	0.000	37.918	-0.000	30.529	0.000	0.000	40.359	37.314	115.628	MWD+IFR1+MS
11600.000	90.000	179.642	9600.997	30.965	0.000	38.219	-0.000	30.965	0.000	0.000	40.451	37.534	118.175	MWD+IFR1+MS
11700.000	90.000	179.642	9600.997	31.413	0.000	38.534	-0.000	31.413	0.000	0.000	40.560	37.752	121.039	MWD+IFR1+MS
11800.000	90.000	179.642	9600.997	31.875	0.000	38.861	-0.000	31.875	0.000	0.000	40.687	37.963	124.216	MWD+IFR1+MS
11900.000	90.000	179.642	9600.997	32.350	0.000	39.201	-0.000	32.350	0.000	0.000	40.836	38.166	127.672	MWD+IFR1+MS
12000.000	90.000	179.642	9600.997	32.836	0.000	39.552	-0.000	32.836	0.000	0.000	41.011	38.355	131.335	MWD+IFR1+MS
12100.000	90.000	179.642	9600.997	33.333	0.000	39.915	-0.000	33.333	0.000	0.000	41.213	38.529	-44.904	MWD+IFR1+MS
12200.000	90.000	179.642	9600.997	33.842	0.000	40.289	-0.000	33.842	0.000	0.000	41.444	38.686	-41.170	MWD+IFR1+MS
12300.000	90.000	179.642	9600.997	34.361	0.000	40.674	-0.000	34.361	0.000	0.000	41.704	38.826	-37.583	MWD+IFR1+MS
12400.000	90.000	179.642	9600.997	34.889	0.000	41.070	-0.000	34.889	0.000	0.000	41.991	38.950	-34.237	MWD+IFR1+MS

12500.000	90.000	179.642	9600.997	35.428	0.000	41.476	-0.000	35.428	0.000	0.000	42.305	39.058	-31.190	MWD+IFR1+MS
12600.000	90.000	179.642	9600.997	35.975	0.000	41.893	-0.000	35.975	0.000	0.000	42.642	39.154	-28.461	MWD+IFR1+MS
12700.000	90.000	179.642	9600.997	36.531	0.000	42.319	-0.000	36.531	0.000	0.000	43.000	39.238	-26.045	MWD+IFR1+MS
12800.000	90.000	179.642	9600.997	37.095	0.000	42.754	-0.000	37.095	0.000	0.000	43.378	39.313	-23.920	MWD+IFR1+MS
12900.000	90.000	179.642	9600.997	37.667	0.000	43.199	-0.000	37.667	0.000	0.000	43.773	39.380	-22.055	MWD+IFR1+MS
13000.000	90.000	179.642	9600.997	38.247	0.000	43.653	-0.000	38.247	0.000	0.000	44.184	39.441	-20.419	MWD+IFR1+MS
13100.000	90.000	179.642	9600.997	38.834	0.000	44.115	-0.000	38.834	0.000	0.000	44.609	39.497	-18.981	MWD+IFR1+MS
13200.000	90.000	179.642	9600.997	39.428	0.000	44.585	-0.000	39.428	0.000	0.000	45.047	39.549	-17.712	MWD+IFR1+MS
13300.000	90.000	179.642	9600.997	40.028	0.000	45.064	-0.000	40.028	0.000	0.000	45.497	39.598	-16.588	MWD+IFR1+MS
13400.000	90.000	179.642	9600.997	40.635	0.000	45.550	-0.000	40.635	0.000	0.000	45.958	39.644	-15.590	MWD+IFR1+MS
13500.000	90.000	179.642	9600.997	41.248	0.000	46.045	-0.000	41.248	0.000	0.000	46.430	39.688	-14.698	MWD+IFR1+MS
13600.000	90.000	179.642	9600.997	41.866	0.000	46.546	-0.000	41.866	0.000	0.000	46.911	39.729	-13.899	MWD+IFR1+MS
13700.000	90.000	179.642	9600.997	42.490	0.000	47.055	-0.000	42.490	0.000	0.000	47.401	39.770	-13.179	MWD+IFR1+MS
13800.000	90.000	179.642	9600.997	43.119	0.000	47.570	-0.000	43.119	0.000	0.000	47.900	39.809	-12.528	MWD+IFR1+MS
13900.000	90.000	179.642	9600.997	43.753	0.000	48.092	-0.000	43.753	0.000	0.000	48.407	39.847	-11.938	MWD+IFR1+MS
14000.000	90.000	179.642	9600.997	44.392	0.000	48.621	-0.000	44.392	0.000	0.000	48.922	39.885	-11.400	MWD+IFR1+MS
14100.000	90.000	179.642	9600.997	45.036	0.000	49.155	-0.000	45.036	0.000	0.000	49.445	39.922	-10.908	MWD+IFR1+MS
14200.000	90.000	179.642	9600.997	45.684	0.000	49.696	-0.000	45.684	0.000	0.000	49.974	39.958	-10.456	MWD+IFR1+MS
14300.000	90.000	179.642	9600.997	46.336	0.000	50.243	-0.000	46.336	0.000	0.000	50.510	39.994	-10.041	MWD+IFR1+MS
14400.000	90.000	179.642	9600.997	46.992	0.000	50.795	-0.000	46.992	0.000	0.000	51.053	40.030	-9.658	MWD+IFR1+MS
14500.000	90.000	179.642	9600.997	47.653	0.000	51.353	-0.000	47.653	0.000	0.000	51.601	40.066	-9.303	MWD+IFR1+MS
14600.000	90.000	179.642	9600.997	48.317	0.000	51.916	-0.000	48.317	0.000	0.000	52.156	40.101	-8.974	MWD+IFR1+MS
14700.000	90.000	179.642	9600.997	48.984	0.000	52.484	-0.000	48.984	0.000	0.000	52.716	40.137	-8.667	MWD+IFR1+MS
14800.000	90.000	179.642	9600.997	49.655	0.000	53.058	-0.000	49.655	0.000	0.000	53.282	40.173	-8.382	MWD+IFR1+MS
14900.000	90.000	179.642	9600.997	50.329	0.000	53.636	-0.000	50.329	0.000	0.000	53.853	40.208	-8.115	MWD+IFR1+MS
15000.000	90.000	179.642	9600.997	51.007	0.000	54.218	-0.000	51.007	0.000	0.000	54.429	40.244	-7.865	MWD+IFR1+MS
15100.000	90.000	179.642	9600.997	51.687	0.000	54.805	-0.000	51.687	0.000	0.000	55.010	40.280	-7.631	MWD+IFR1+MS
15200.000	90.000	179.642	9600.997	52.370	0.000	55.397	-0.000	52.370	0.000	0.000	55.596	40.316	-7.410	MWD+IFR1+MS
15300.000	90.000	179.642	9600.997	53.057	0.000	55.993	-0.000	53.057	0.000	0.000	56.186	40.353	-7.203	MWD+IFR1+MS
15400.000	90.000	179.642	9600.997	53.745	0.000	56.592	-0.000	53.745	0.000	0.000	56.781	40.389	-7.007	MWD+IFR1+MS
15500.000	90.000	179.642	9600.997	54.437	0.000	57.196	-0.000	54.437	0.000	0.000	57.380	40.426	-6.822	MWD+IFR1+MS
15600.000	90.000	179.642	9600.997	55.131	0.000	57.804	-0.000	55.131	0.000	0.000	57.983	40.463	-6.647	MWD+IFR1+MS
15700.000	90.000	179.642	9600.997	55.827	0.000	58.415	-0.000	55.827	0.000	0.000	58.590	40.500	-6.481	MWD+IFR1+MS

15800.000	90.000	179.642	9600.997	56.526	0.000	59.030	-0.000	56.526	0.000	0.000	59.200	40.538	-6.324	MWD+IFR1+MS
15900.000	90.000	179.642	9600.997	57.227	0.000	59.649	-0.000	57.227	0.000	0.000	59.815	40.576	-6.175	MWD+IFR1+MS
16000.000	90.000	179.642	9600.997	57.930	0.000	60.270	-0.000	57.930	0.000	0.000	60.433	40.615	-6.033	MWD+IFR1+MS
16100.000	90.000	179.642	9600.997	58.635	0.000	60.895	-0.000	58.635	0.000	0.000	61.054	40.653	-5.897	MWD+IFR1+MS
16200.000	90.000	179.642	9600.997	59.342	0.000	61.524	-0.000	59.342	0.000	0.000	61.679	40.692	-5.768	MWD+IFR1+MS
16300.000	90.000	179.642	9600.997	60.051	0.000	62.155	-0.000	60.051	0.000	0.000	62.307	40.732	-5.645	MWD+IFR1+MS
16400.000	90.000	179.642	9600.997	60.762	0.000	62.789	-0.000	60.762	0.000	0.000	62.938	40.771	-5.527	MWD+IFR1+MS
16500.000	90.000	179.642	9600.997	61.475	0.000	63.427	-0.000	61.475	0.000	0.000	63.572	40.812	-5.414	MWD+IFR1+MS
16600.000	90.000	179.642	9600.997	62.189	0.000	64.067	-0.000	62.189	0.000	0.000	64.209	40.852	-5.307	MWD+IFR1+MS
16700.000	90.000	179.642	9600.997	62.905	0.000	64.709	-0.000	62.905	0.000	0.000	64.849	40.893	-5.203	MWD+IFR1+MS
16800.000	90.000	179.642	9600.997	63.623	0.000	65.355	-0.000	63.623	0.000	0.000	65.492	40.934	-5.104	MWD+IFR1+MS
16900.000	90.000	179.642	9600.997	64.342	0.000	66.003	-0.000	64.342	0.000	0.000	66.137	40.976	-5.009	MWD+IFR1+MS
17000.000	90.000	179.642	9600.997	65.063	0.000	66.653	-0.000	65.063	0.000	0.000	66.785	41.018	-4.918	MWD+IFR1+MS
17100.000	90.000	179.642	9600.997	65.786	0.000	67.306	-0.000	65.786	0.000	0.000	67.435	41.061	-4.830	MWD+IFR1+MS
17200.000	90.000	179.642	9600.997	66.509	0.000	67.961	-0.000	66.509	0.000	0.000	68.088	41.104	-4.745	MWD+IFR1+MS
17300.000	90.000	179.642	9600.997	67.234	0.000	68.619	-0.000	67.234	0.000	0.000	68.743	41.147	-4.664	MWD+IFR1+MS
17400.000	90.000	179.642	9600.997	67.961	0.000	69.279	-0.000	67.961	0.000	0.000	69.401	41.191	-4.585	MWD+IFR1+MS
17500.000	90.000	179.642	9600.997	68.688	0.000	69.941	-0.000	68.688	0.000	0.000	70.061	41.235	-4.510	MWD+IFR1+MS
17600.000	90.000	179.642	9600.997	69.417	0.000	70.605	-0.000	69.417	0.000	0.000	70.723	41.280	-4.437	MWD+IFR1+MS
17700.000	90.000	179.642	9600.997	70.148	0.000	71.271	-0.000	70.148	0.000	0.000	71.387	41.325	-4.366	MWD+IFR1+MS
17800.000	90.000	179.642	9600.997	70.879	0.000	71.939	-0.000	70.879	0.000	0.000	72.053	41.370	-4.298	MWD+IFR1+MS
17900.000	90.000	179.642	9600.997	71.611	0.000	72.609	-0.000	71.611	0.000	0.000	72.721	41.416	-4.233	MWD+IFR1+MS
18000.000	90.000	179.642	9600.997	72.345	0.000	73.280	-0.000	72.345	0.000	0.000	73.391	41.462	-4.169	MWD+IFR1+MS
18100.000	90.000	179.642	9600.997	73.079	0.000	73.954	-0.000	73.079	0.000	0.000	74.063	41.509	-4.108	MWD+IFR1+MS
18200.000	90.000	179.642	9600.997	73.815	0.000	74.630	-0.000	73.815	0.000	0.000	74.737	41.556	-4.048	MWD+IFR1+MS
18300.000	90.000	179.642	9600.997	74.552	0.000	75.307	-0.000	74.552	0.000	0.000	75.412	41.603	-3.990	MWD+IFR1+MS
18400.000	90.000	179.642	9600.997	75.289	0.000	75.986	-0.000	75.289	0.000	0.000	76.089	41.651	-3.934	MWD+IFR1+MS
18500.000	90.000	179.642	9600.997	76.028	0.000	76.666	-0.000	76.028	0.000	0.000	76.768	41.700	-3.880	MWD+IFR1+MS
18600.000	90.000	179.642	9600.997	76.767	0.000	77.348	-0.000	76.767	0.000	0.000	77.449	41.749	-3.828	MWD+IFR1+MS
18700.000	90.000	179.642	9600.997	77.508	0.000	78.032	-0.000	77.508	0.000	0.000	78.131	41.798	-3.777	MWD+IFR1+MS
18800.000	90.000	179.642	9600.997	78.249	0.000	78.717	-0.000	78.249	0.000	0.000	78.815	41.847	-3.727	MWD+IFR1+MS
18900.000	90.000	179.642	9600.997	78.991	0.000	79.403	-0.000	78.991	0.000	0.000	79.500	41.898	-3.679	MWD+IFR1+MS
19000.000	90.000	179.642	9600.997	79.734	0.000	80.091	-0.000	79.734	0.000	0.000	80.186	41.948	-3.632	MWD+IFR1+MS

19100.000	90.000	179.642	9600.997	80.478	0.000	80.781	-0.000	80.478	0.000	0.000	80.875	41.999	-3.587	MWD+IFR1+MS
19200.000	90.000	179.642	9600.997	81.222	0.000	81.472	-0.000	81.222	0.000	0.000	81.564	42.050	-3.542	MWD+IFR1+MS
19300.000	90.000	179.642	9600.997	81.967	0.000	82.164	-0.000	81.967	0.000	0.000	82.255	42.102	-3.499	MWD+IFR1+MS
19400.000	90.000	179.642	9600.997	82.713	0.000	82.857	-0.000	82.713	0.000	0.000	82.947	42.154	-3.457	MWD+IFR1+MS
19500.000	90.000	179.642	9600.997	83.460	0.000	83.552	-0.000	83.460	0.000	0.000	83.641	42.207	-3.417	MWD+IFR1+MS
19600.000	90.000	179.642	9600.997	84.207	0.000	84.248	-0.000	84.207	0.000	0.000	84.335	42.260	-3.377	MWD+IFR1+MS
19700.000	90.000	179.642	9600.997	84.955	0.000	84.945	-0.000	84.955	0.000	0.000	85.031	42.314	-3.338	MWD+IFR1+MS
19800.000	90.000	179.642	9600.997	85.704	0.000	85.643	-0.000	85.704	0.000	0.000	85.729	42.368	-3.301	MWD+IFR1+MS
19900.000	90.000	179.642	9600.997	86.453	0.000	86.343	-0.000	86.453	0.000	0.000	86.427	42.422	-3.264	MWD+IFR1+MS
20000.000	90.000	179.642	9600.997	87.203	0.000	87.043	-0.000	87.203	0.000	0.000	87.126	42.477	-3.228	MWD+IFR1+MS
20100.000	90.000	179.642	9600.997	87.954	0.000	87.745	-0.000	87.954	0.000	0.000	87.827	42.532	-3.193	MWD+IFR1+MS
20200.000	90.000	179.642	9600.997	88.705	0.000	88.447	-0.000	88.705	0.000	0.000	88.529	42.587	-3.159	MWD+IFR1+MS
20300.000	90.000	179.642	9600.997	89.457	0.000	89.151	-0.000	89.457	0.000	0.000	89.231	42.643	-3.126	MWD+IFR1+MS
20400.000	90.000	179.642	9600.997	90.209	0.000	89.856	-0.000	90.209	0.000	0.000	89.935	42.700	-3.093	MWD+IFR1+MS
20500.000	90.000	179.642	9600.997	90.962	0.000	90.561	-0.000	90.962	0.000	0.000	90.640	42.757	-3.061	MWD+IFR1+MS
20600.000	90.000	179.642	9600.997	91.715	0.000	91.268	-0.000	91.715	0.000	0.000	91.346	42.814	-3.030	MWD+IFR1+MS
20700.000	90.000	179.642	9600.997	92.469	0.000	91.976	-0.000	92.469	0.000	0.000	92.052	42.872	-3.000	MWD+IFR1+MS
20800.000	90.000	179.642	9600.997	93.223	0.000	92.684	-0.000	93.223	0.000	0.000	92.760	42.930	-2.970	MWD+IFR1+MS
20900.000	90.000	179.642	9600.997	93.978	0.000	93.394	-0.000	93.978	0.000	0.000	93.469	42.988	-2.941	MWD+IFR1+MS
21000.000	90.000	179.642	9600.997	94.734	0.000	94.104	-0.000	94.734	0.000	0.000	94.178	43.047	-2.913	MWD+IFR1+MS
21100.000	90.000	179.642	9600.997	95.490	0.000	94.815	-0.000	95.490	0.000	0.000	94.889	43.106	-2.885	MWD+IFR1+MS
21200.000	90.000	179.642	9600.997	96.246	0.000	95.527	-0.000	96.246	0.000	0.000	95.600	43.166	-2.858	MWD+IFR1+MS
21300.000	90.000	179.642	9600.997	97.003	0.000	96.240	-0.000	97.003	0.000	0.000	96.312	43.226	-2.831	MWD+IFR1+MS
21400.000	90.000	179.642	9600.997	97.760	0.000	96.954	-0.000	97.760	0.000	0.000	97.025	43.287	-2.805	MWD+IFR1+MS
21500.000	90.000	179.642	9600.997	98.518	0.000	97.668	-0.000	98.518	0.000	0.000	97.738	43.348	-2.780	MWD+IFR1+MS
21600.000	90.000	179.642	9600.997	99.276	0.000	98.383	-0.000	99.276	0.000	0.000	98.453	43.409	-2.755	MWD+IFR1+MS
21700.000	90.000	179.642	9600.997	100.034	0.000	99.099	-0.000	100.034	0.000	0.000	99.168	43.471	-2.731	MWD+IFR1+MS
21800.000	90.000	179.642	9600.997	100.793	0.000	99.816	-0.000	100.793	0.000	0.000	99.884	43.533	-2.707	MWD+IFR1+MS
21900.000	90.000	179.642	9600.997	101.552	0.000	100.534	-0.000	101.552	0.000	0.000	100.601	43.596	-2.683	MWD+IFR1+MS
22000.000	90.000	179.642	9600.997	102.312	0.000	101.252	-0.000	102.312	0.000	0.000	101.318	43.658	-2.660	MWD+IFR1+MS
22100.000	90.000	179.642	9600.997	103.072	0.000	101.971	-0.000	103.072	0.000	0.000	102.036	43.722	-2.638	MWD+IFR1+MS
22200.000	90.000	179.642	9600.997	103.832	0.000	102.690	-0.000	103.832	0.000	0.000	102.755	43.785	-2.616	MWD+IFR1+MS
22300.000	90.000	179.642	9600.997	104.593	0.000	103.410	-0.000	104.593	0.000	0.000	103.475	43.850	-2.594	MWD+IFR1+MS

22339.691	90.000	179.642	9600.997	104.895	0.000	103.695	-0.000	104.895	0.000	0.000	103.760	43.875	-2.586	MWD+IFR1+MS
22400.000	90.000	179.642	9600.997	105.353	0.000	104.129	-0.000	105.353	0.000	0.000	104.193	43.914	-2.573	MWD+IFR1+MS
22429.527	90.000	179.642	9600.997	105.577	0.000	104.341	-0.000	105.577	0.000	0.000	104.405	43.933	-2.567	MWD+IFR1+MS

Plan Targets Poker Lake Unit 21 DTD South 171H

Target Name	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape
FTP 14	9796.99	440424.10	637109.60	6251.00	RECTANGLE
SHL 13	10079.65	440096.68	636548.94	5959.00	RECTANGLE
LTP 14	22339.52	427419.40	637191.00	6251.00	RECTANGLE
BHL 14	22429.52	427329.40	637191.50	6251.00	RECTANGLE

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 Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 394248

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 394248
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	All original COA's still apply. Additionally, if cement is not circulated to surface during cementing operations, then a CBL is required.	10/21/2024