Well Number: 178H

Type of Well: CONVENTIONAL GAS WELL

Allottee or Tribe Name:

Lease Number: NMLC0068431

Unit or CA Name: POKER LAKE UNIT

Unit or CA Number: NMNM71016X

US Well Number: 3001553261

Operator: XTO PERMIAN OPERATING LLC

Notice of Intent

Sundry ID: 2784142

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 04/09/2024

Time Sundry Submitted: 01:39

Date proposed operation will begin: 04/30/2024

Procedure Description: XTO Permian Operating, LLC. respectfully requests approval to make the following changes to the approved APD. Changes to include SHL, FTP, LTP, BHL, Casing sizes, Cement, Proposed total Depth, and formation (Pool). FROM: TO: SHL: 1557' FNL & 1395' FEL OF SECTION 21-T24S-R30E 1367' FNL & 1396' FEL OF SECTION 21-T24S-R30E FTP: 381' FNL & 901' FEL OF SECTION 21-T24S-R30E 100' FNL & 1829' FEL OF SECTION 21-T24S-R30E LTP: 329' FNL & 870' FEL OF SECTION 33-T23S-R30E 2539' FNL & 1825' FEL OF SECTION 33-T24S-R30E BHL: 200' FNL & 870' FEL OF SECTION 33-T23S-R30E 2629' FNL & 1826' FEL OF SECTION 33-T24S-R30E The proposed total depth is changing from 33062’ MD; 11371’ TVD (Wolfcamp) to 24059’ MD; 10959’ TVD (Wolfcamp X/Y). See attached Drilling Plan for updated cement and casing program. A saturated salt brine will be utilized while drilling through the salt formations. Attachments: C-102, Drilling Plan, Directional Plan, MBS

NOI Attachments

Procedure Description

PLU_21_DTD_178H_Sundry_Documents_20240726152249.pdf

NMNM71016X

US Well Number: 3001553261 **Operator:** XTO PERMIAN OPERATING LLC

Conditions of Approval

Additional

POKER_LAKE_UNIT_21_DTD_178H_COA_20240911165135.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: TERRA SEBASTIAN **Signed on:** JUL 26, 2024 03:22 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:** 09/13/2024

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. NMLC068431

6. If Indian, Allottee or Tribe Name

7. If Unit of CA/Agreement, Name and/or No. POKER LAKE UNIT/NMNM71016X

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

8. Well Name and No. POKER LAKE UNIT 21 DTD/178H

2. Name of Operator XTO PERMIAN OPERATING LLC

9. API Well No. 3001553261

3a. Address 6401 HOLIDAY HILL ROAD BLDG 5, MIDLAND,

3b. Phone No. *(include area code)* (432) 683-2277

10. Field and Pool or Exploratory Area PURPLE SAGE/WOLFCAMP

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)* SEC 21/T24S/R30E/NMP

11. Country or Parish, State EDDY/NM

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

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ 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.)

XTO Permian Operating, LLC. respectfully requests approval to make the following changes to the approved APD. Changes to include SHL, FTP, LTP, BHL, Casing sizes, Cement, Proposed total Depth, and formation (Pool).

FROM: TO:
SHL: 1557' FNL & 1395' FEL OF SECTION 21-T24S-R30E 1367' FNL & 1396' FEL OF SECTION 21-T24S-R30E
FTP: 381' FNL & 901' FEL OF SECTION 21-T24S-R30E 100' FNL & 1829' FEL OF SECTION 21-T24S-R30E
LTP: 329' FNL & 870' FEL OF SECTION 33-T23S-R30E 2539' FNL & 1825' FEL OF SECTION 33-T24S-R30E
BHL: 200' FNL & 870' FEL OF SECTION 33-T23S-R30E 2629' FNL & 1826' FEL OF SECTION 33-T24S-R30E

The proposed total depth is changing from 33062 MD; 11371 TVD (Wolfcamp) to 24059 MD; 10959 TVD (Wolfcamp X/Y).

See attached Drilling Plan for updated cement and casing program.

Continued on page 3 additional information

14. I hereby certify that the foregoing is true and correct. Name *(Printed/Typed)* TERRA SEBASTIAN / Ph: (432) 999-3107

Title Regulatory Advisor

Signature (Electronic Submission)

Date 07/26/2024

THE SPACE FOR FEDERAL OR STATE OFICE USE

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

Title Petroleum Engineer

Date 09/13/2024

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

Office CARLSBAD

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

(Instructions on page 2)

GENERAL INSTRUCTIONS

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

SPECIFIC INSTRUCTIONS

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

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

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.
AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.
PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c)and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.
ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.
EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:
The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.
Response to this request is mandatory.
The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect 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

Additional Remarks

A saturated salt brine will be utilized while drilling through the salt formations.

Attachments: C-102, Drilling Plan, Directional Plan, MBS

Location of Well

0. SHL: SWNE / 1557 FNL / 1395 FEL / TWSP: 24S / RANGE: 30E / SECTION: 21 / LAT: 32.206207 / LONG: -103.8821 (TVD: 0 feet, MD: 0 feet)

PPP: NENE / 381 FNL / 901 FEL / TWSP: 24S / RANGE: 30E / SECTION: 21 / LAT: 32.209443 / LONG: -103.880501 (TVD: 11371 feet, MD: 11800 feet)

BHL: NENE / 200 FNL / 870 FEL / TWSP: 23S / RANGE: 30E / SECTION: 33 / LAT: 32.268077 / LONG: -103.880402 (TVD: 11371 feet, MD: 33062 feet)

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO
LEASE NO.:	**NMLC068431**
LOCATION:	Sec. 21, T.24 S, R 30 E
COUNTY:	Eddy County, New Mexico
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 2784142**__ on 9-11-2024__. 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 WIPP
	Choose an option (including blank option.)			
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 Four-String	Casing Clearance Offline Cementing	Pilot Hole Fluid-Filled	Break Testing

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 **1000** 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 1st Intermediate casing is:
   - Cement to surface. If cement does not circulate see B.1.a, c-d above.

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

3. The minimum required fill of cement behind the **7-5/8** inch 2nd 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 6340'**

   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.**

Operator has proposed to pump down Intermediate 1 X Intermediate 2 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 Intermediate 2 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.

4. The minimum required fill of cement behind the **5-1/2** inch production casing is:
   - Cement should tie-back **100 feet** into the previous casing. 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 Production 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 9/11/2024
575-234-5998 / zstevens@blm.gov

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
30-015- 5326	9822	PURPLE SAGE;WOLFCAMP

[4] Property Code	[5] Property Name	[6] Well Number
333571	POKER LAKE UNIT 21 DTD	178H

[7] OGRID No.	[8] Operator Name	[9] Elevation
373075	XTO PERMIAN OPERATING, LLC.	3,377'

[10] Surface Location

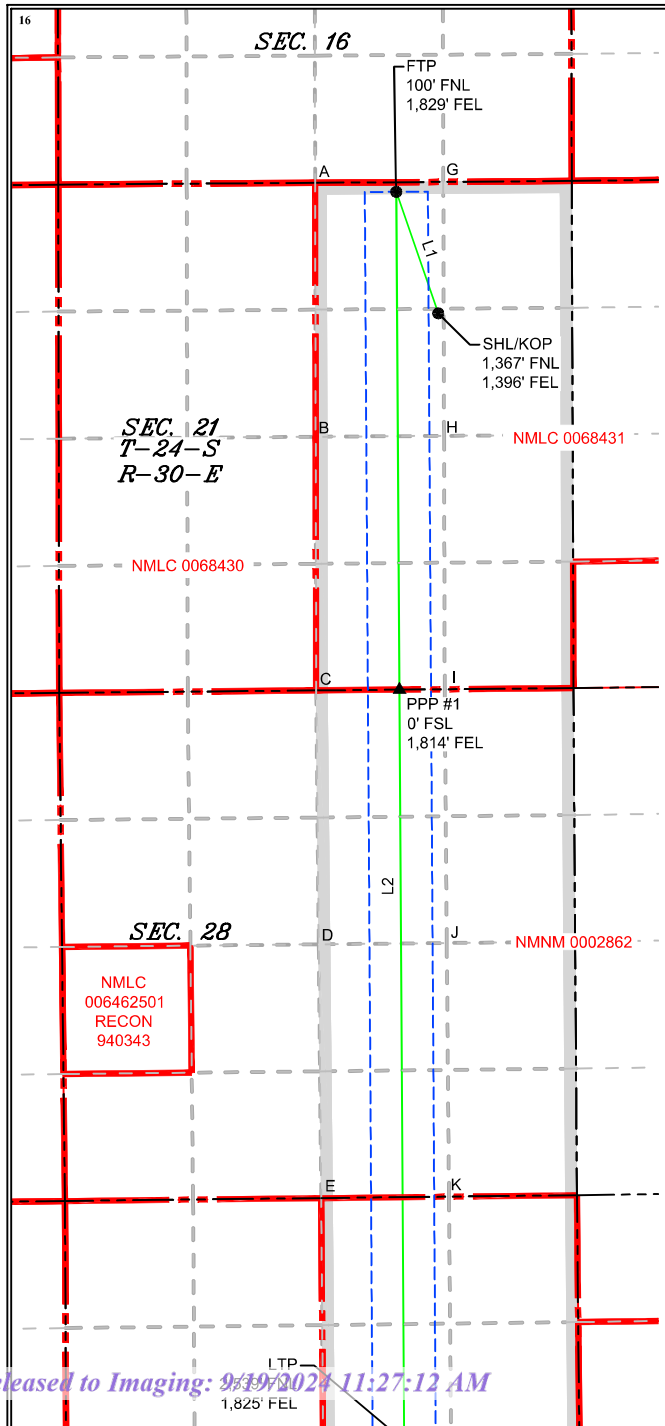
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	21	24S	30E		1,367	NORTH	1,396	EAST	EDDY

[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	33	24S	30E		2,629	NORTH	1,826	EAST	EDDY

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
800.00			

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

LINE TABLE		
LINE	AZIMUTH	LENGTH
L1	340°54'09"	1,337.14'
L2	179°38'24"	13,083.98'

[17] 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.

Emily Rivera 7/25/202
Signature Date

Emily Rive
Printed Name

emily.a.rivera@exxonmob
E-mail Address

[18] 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.

7/11/2024
Date of Survey

Signature and Seal of Professional Surveyor:

MARK DILLON HARP
NEW MEXICO
23786
PROFESSIONAL SURVEYOR

Intent [X] As Drilled [ ]

API #
30-15-

Operator Name:	Property Name:	Well Number
XTO PERMAIN OPERATING, LLC.	POKER LAKE UNIT 21 DTD	178H

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	21	24S	30E		100	NORTH	1,829	EAST	EDDY

Latitude	Longitude	NAD
32.210207	-103.883499	83

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
G	33	24S	30E		2,539	NORTH	1,825	EAST	EDDY

Latitude	Longitude	NAD
32.174489	-103.883410	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 21 DTD 178H
Projected TD: 23999' MD / 11020' TVD
SHL: 1367' FNL & 1396' FEL , Section 21, T24S, R30E
BHL: 2629' FNL & 1826' FEL , 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	1004'	Water
Top of Salt	1407'	Water
Base of Salt	3600'	Water
Delaware	3794'	Water
Brushy Canyon	6340'	Water/Oil/Gas
Bone Spring	7664'	Water
Avalon	8357'	Water/Oil/Gas
1st Bone Spring	8373'	Water/Oil/Gas
2nd Bone Spring	8958'	Water/Oil/Gas
Wolfcamp	10969'	Water/Oil/Gas
Wolfcamp X	10990'	Water/Oil/Gas
Target/Land Curve	11020'	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 @ 1382' (25' above the salt) and circulating cement back to surface. The salt will be isolated by setting 9.625 inch casing at 3700' and circulating cement to surface. The second intermediate will isolate from the salt down to the next casing seat by setting 7.625 inch casing at 10104' and cementing to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 23999 MD/TD and 5.5 inch production casing will be set at TD and cemented back up to 2nd intermediate (estimated TOC 9804 feet) per Potash regulations.

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
17.5	0' – 1382'	13.375	54.5	J-55	BTC	New	3.12	1.87	12.07
12.25	0' – 3700'	9.625	40	J-55	BTC	New	1.65	3.07	4.26
8.75	0' – 3800'	7.625	29.7	RY P-110	Flush Joint	New	2.27	3.08	1.86
8.75	3800' – 10104'	7.625	29.7	HC L-80	Flush Joint	New	1.65	3.37	2.17
6.75	0' – 10004'	5.5	20	RY P-110	Semi-Premium	New	1.05	1.86	2.01
6.75	10004' - 23999'	5.5	20	RY P-110	Semi-Flush	New	1.05	1.68	5.38

· Production casing meets the clearance requirements as tapered string crosses over before encountering the intermediate shoe, per Onshore Order 2.3.B.1
· XTO requests the option to utilize a spudder rig (Atlas Copco RD20 or Equivalent) to set and cement surface and intermediate 1 casing per this Sundry

· 9.625 Collapse analyzed using 50% evacuation based on regional experience.
· 7.625 Collapse analyzed using 50% evacuation based on regional experience.
· 5.5 Tension calculated using vertical hanging weight plus the lateral weight multiplied by a friction factor of 0.35

Wellhead:

Permanent Wellhead – Multibowl System
A. Starting Head: 20" 10M top flange x 13-3/8" bottom
B. Tubing Head: 13-5/8" 10M bottom flange x 7-1/16" 15M top flange
· Wellhead will be installed by manufacturer's representatives.
· Manufacturer will monitor welding process to ensure appropriate temperature of seal.

4. Cement Program

Surface Casing: 13.375, 54.5 New BTC, J-55 casing to be set at +/- 1382'

Optional Lead: 1130 sxs EconoCem-HLTRRC (mixed at 12.8 ppg, 1.33 ft3/sx, 10.13 gal/sx water)
Tail: 310 sxs Class C + 2% CaCl (mixed at 14.8 ppg, 1.33 ft3/sx, 6.39 gal/sx water)
Top of Cement: Surface
Compressives: 12-hr = 250 psi 24 hr = 500 psi

Due to the high probability of not getting cement to surface during conventional top-out jobs in the area, ~10-20 ppb gravel will be added on the backside of the 1" to get cement to surface, if required.

1st Intermediate Casing: 9.625, 40 New BTC, J-55 casing to be set at +/- 3700'

Lead: 770 sxs Class C (mixed at 14.8 ppg, 2.06 ft3/sx, 10.13 gal/sx water)
Tail: 60 sxs Class C + 2% CaCl (mixed at 15.6 ppg, 2.06 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 +/- 10104'
1st Stage
Optional Lead: 140 sxs Class C (mixed at 10.5 ppg, 2.77 ft3/sx, 15.59 gal/sx water)
TOC: 3400
Tail: 400 sxs Class C (mixed at 14.8 ppg, 1.27 ft3/sx, 6.39 gal/sx water)
TOC: Brushy Canyon @ 6340
Compressives: 12-hr = 900 psi 24 hr = 1150 psi

2nd Stage - bradenhead contingency
Tail: 140 sxs Class C (mixed at 14.8 ppg, 2.77 ft3/sx, 6.39 gal/sx water)
Top of Cement: 3400
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 (6340') and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface.

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

XTO requests the option to conduct the bradenhead squeeze and TOC verification offline as per standard approval from BLM when unplanned remediation is needed and batch drilling is approved. In the event the bradenhead is conducted, we will ensure the first stage cement job is cemented properly and the well is static with floats holding and no pressure on the csg annulus as with all other casing strings where batch drilling operations occur before moving off the rig. The TA cap will also be installed per wellhead provider 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 +/- 23999'

Lead: 20 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft3/sx, 15.00 gal/sx water) Top of Cement: 9804 feet
Tail: 850 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft3/sx, 8.38 gal/sx water) Top of Cement: 10507 feet
Compressives: 12-hr = 1375 psi 24 hr = 2285 psi

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

5. Pressure Control Equipment

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

XTO will use a Multi-Bowl system which is attached.

All BOP testing will be done by an independent service company. Annular pressure tests will be conducted to at least 50% of the rated working pressure. When nippling up on the 13.375, 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. 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		
0' - 1382'	17.5		
1382' - 3794'	12.25	Brine	8.8-9.3
3794' to 10104'	8.75	BDE/OBM or FW/Brine	
10104' to 23999'	6.75		

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

Spud with fresh water/native mud. Drill out from under surface casing with Saturated Salt solution. Saturated Salt 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

Open hole logging will not be done on this well.

9. Abnormal Pressures and Temperatures / Potential Hazards

None Anticipated. BHT of 175 to 195 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 6590 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 178H

Measured Depth:	23999.29 ft
TVD RKB:	11020.00 ft
Location	
Cartographic Reference System:	New Mexico East - NAD 27
Northing:	439175.80 ft
Easting:	639716.00 ft
RKB:	3409.00 ft
Ground Level:	3377.00 ft
North Reference:	Grid
Convergence Angle:	0.24 Deg

Plan Sections Poker Lake Unit 21 DTD South 178H

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	
2033.18	18.66	340.91	2016.76	142.36	-49.28	2.00	0.00	2.00	
5269.86	18.66	340.91	5083.24	1121.14	-388.12	0.00	0.00	0.00	
6203.04	0.00	0.00	6000.00	1263.50	-437.40	-2.00	0.00	2.00	
10506.84	0.00	0.00	10303.80	1263.50	-437.40	0.00	0.00	0.00	
11631.84	90.00	179.64	11020.00	547.32	-432.93	8.00	0.00	8.00	
23909.38	90.00	179.64	11020.00	-11729.99	-356.21	0.00	0.00	0.00	LTP 19
23999.29	90.00	179.64	11020.00	-11819.90	-355.65	0.00	0.00	0.00	BHL 19

Position Uncertainty Poker Lake Unit 21 DTD South 178H

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

Depth (ft)	Inclination (°)	Azimuth (°)	RKB (ft)	Error (ft)	Bias (ft)	Error (ft)	Bias (ft)	Error (ft)	Bias (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	MWD+IFR1+MS
100.000	0.000	0.000	100.000	0.700	0.000	0.350	0.000	2.300	0.000	0.000	0.751	0.220	112.264	MWD+IFR1+MS
200.000	0.000	0.000	200.000	1.112	0.000	0.861	0.000	2.310	0.000	0.000	1.259	0.627	122.711	MWD+IFR1+MS
300.000	0.000	0.000	300.000	1.497	0.000	1.271	0.000	2.325	0.000	0.000	1.698	0.986	125.469	MWD+IFR1+MS
400.000	0.000	0.000	400.000	1.871	0.000	1.658	0.000	2.347	0.000	0.000	2.108	1.344	126.713	MWD+IFR1+MS
500.000	0.000	0.000	500.000	2.240	0.000	2.034	0.000	2.374	0.000	0.000	2.503	1.701	127.419	MWD+IFR1+MS
600.000	0.000	0.000	600.000	2.607	0.000	2.405	0.000	2.407	0.000	0.000	2.888	2.059	127.873	MWD+IFR1+MS
700.000	0.000	0.000	700.000	2.971	0.000	2.773	0.000	2.444	0.000	0.000	3.267	2.417	128.190	MWD+IFR1+MS
800.000	0.000	0.000	800.000	3.334	0.000	3.138	0.000	2.486	0.000	0.000	3.642	2.775	128.423	MWD+IFR1+MS
900.000	0.000	0.000	900.000	3.696	0.000	3.502	0.000	2.532	0.000	0.000	4.014	3.133	128.602	MWD+IFR1+MS
1000.000	0.000	0.000	1000.000	4.058	0.000	3.865	0.000	2.581	0.000	0.000	4.384	3.491	128.744	MWD+IFR1+MS
1100.000	0.000	0.000	1100.000	4.419	0.000	4.228	0.000	2.635	0.000	0.000	4.752	3.849	128.859	MWD+IFR1+MS
1200.000	2.000	340.905	1199.980	4.663	0.000	4.868	0.000	2.691	0.000	0.000	5.224	4.263	122.009	MWD+IFR1+MS
1300.000	4.000	340.905	1299.838	5.505	0.000	5.209	0.000	2.751	0.000	0.000	5.906	4.758	108.190	MWD+IFR1+MS
1400.000	6.000	340.905	1399.452	6.247	0.000	5.551	0.000	2.817	0.000	0.000	6.595	5.154	100.980	MWD+IFR1+MS
1500.000	8.000	340.905	1498.702	6.922	0.000	5.895	0.000	2.890	0.000	0.000	7.255	5.517	97.068	MWD+IFR1+MS
1600.000	10.000	340.905	1597.465	7.545	0.000	6.240	0.000	2.973	0.000	0.000	7.882	5.868	94.716	MWD+IFR1+MS
1700.000	12.000	340.905	1695.623	8.127	0.000	6.588	0.000	3.067	0.000	0.000	8.478	6.214	93.186	MWD+IFR1+MS
1800.000	14.000	340.905	1793.055	8.676	0.000	6.937	0.000	3.175	0.000	0.000	9.047	6.560	92.134	MWD+IFR1+MS
1900.000	16.000	340.905	1889.643	9.197	0.000	7.290	0.000	3.299	0.000	0.000	9.593	6.908	91.387	MWD+IFR1+MS
2000.000	18.000	340.905	1985.268	9.694	0.000	7.646	0.000	3.438	0.000	0.000	10.120	7.258	90.847	MWD+IFR1+MS
2033.179	18.664	340.905	2016.764	9.776	0.000	7.758	0.000	3.462	0.000	0.000	10.220	7.374	90.823	MWD+IFR1+MS
2100.000	18.664	340.905	2080.071	9.968	0.000	7.987	0.000	3.523	0.000	0.000	10.402	7.609	90.908	MWD+IFR1+MS
2200.000	18.664	340.905	2174.812	10.264	0.000	8.346	0.000	3.624	0.000	0.000	10.687	7.971	91.226	MWD+IFR1+MS
2300.000	18.664	340.905	2269.553	10.574	0.000	8.716	0.000	3.732	0.000	0.000	10.987	8.340	91.637	MWD+IFR1+MS
2400.000	18.664	340.905	2364.295	10.891	0.000	9.089	0.000	3.844	0.000	0.000	11.294	8.712	92.047	MWD+IFR1+MS
2500.000	18.664	340.905	2459.036	11.216	0.000	9.466	0.000	3.960	0.000	0.000	11.607	9.086	92.456	MWD+IFR1+MS
2600.000	18.664	340.905	2553.778	11.547	0.000	9.845	0.000	4.080	0.000	0.000	11.926	9.463	92.862	MWD+IFR1+MS
2700.000	18.664	340.905	2648.519	11.884	0.000	10.226	0.000	4.203	0.000	0.000	12.250	9.842	93.267	MWD+IFR1+MS
2800.000	18.664	340.905	2743.260	12.226	0.000	10.609	0.000	4.330	0.000	0.000	12.579	10.223	93.670	MWD+IFR1+MS
2900.000	18.664	340.905	2838.002	12.574	0.000	10.994	0.000	4.460	0.000	0.000	12.913	10.606	94.071	MWD+IFR1+MS

3000.000	18.664	340.905	2932.743	12.926	0.000	11.381	0.000	4.592	0.000	0.000	13.251	10.990	94.471	MWD+IFR1+MS
3100.000	18.664	340.905	3027.485	13.282	0.000	11.770	0.000	4.728	0.000	0.000	13.593	11.375	94.867	MWD+IFR1+MS
3200.000	18.664	340.905	3122.226	13.642	0.000	12.159	0.000	4.866	0.000	0.000	13.939	11.762	95.262	MWD+IFR1+MS
3300.000	18.664	340.905	3216.967	14.006	0.000	12.550	0.000	5.006	0.000	0.000	14.288	12.149	95.654	MWD+IFR1+MS
3400.000	18.664	340.905	3311.709	14.373	0.000	12.943	0.000	5.148	0.000	0.000	14.640	12.538	96.044	MWD+IFR1+MS
3500.000	18.664	340.905	3406.450	14.743	0.000	13.336	0.000	5.293	0.000	0.000	14.995	12.927	96.431	MWD+IFR1+MS
3600.000	18.664	340.905	3501.191	15.116	0.000	13.730	0.000	5.440	0.000	0.000	15.353	13.318	96.816	MWD+IFR1+MS
3700.000	18.664	340.905	3595.933	15.492	0.000	14.125	0.000	5.588	0.000	0.000	15.714	13.709	97.198	MWD+IFR1+MS
3800.000	18.664	340.905	3690.674	15.870	0.000	14.520	0.000	5.739	0.000	0.000	16.076	14.101	97.577	MWD+IFR1+MS
3900.000	18.664	340.905	3785.416	16.250	0.000	14.917	0.000	5.891	0.000	0.000	16.441	14.493	97.952	MWD+IFR1+MS
4000.000	18.664	340.905	3880.157	16.633	0.000	15.314	0.000	6.045	0.000	0.000	16.809	14.886	98.325	MWD+IFR1+MS
4100.000	18.664	340.905	3974.898	17.017	0.000	15.712	0.000	6.200	0.000	0.000	17.178	15.280	98.695	MWD+IFR1+MS
4200.000	18.664	340.905	4069.640	17.404	0.000	16.110	0.000	6.358	0.000	0.000	17.549	15.674	99.062	MWD+IFR1+MS
4300.000	18.664	340.905	4164.381	17.792	0.000	16.509	0.000	6.517	0.000	0.000	17.921	16.068	99.425	MWD+IFR1+MS
4400.000	18.664	340.905	4259.123	18.181	0.000	16.908	0.000	6.677	0.000	0.000	18.295	16.463	99.785	MWD+IFR1+MS
4500.000	18.664	340.905	4353.864	18.572	0.000	17.308	0.000	6.839	0.000	0.000	18.671	16.858	100.141	MWD+IFR1+MS
4600.000	18.664	340.905	4448.605	18.965	0.000	17.708	0.000	7.003	0.000	0.000	19.048	17.254	100.494	MWD+IFR1+MS
4700.000	18.664	340.905	4543.347	19.359	0.000	18.109	0.000	7.168	0.000	0.000	19.427	17.650	100.843	MWD+IFR1+MS
4800.000	18.664	340.905	4638.088	19.754	0.000	18.510	0.000	7.334	0.000	0.000	19.807	18.046	101.188	MWD+IFR1+MS
4900.000	18.664	340.905	4732.830	20.151	0.000	18.911	0.000	7.502	0.000	0.000	20.188	18.443	101.530	MWD+IFR1+MS
5000.000	18.664	340.905	4827.571	20.548	0.000	19.313	0.000	7.672	0.000	0.000	20.570	18.840	101.867	MWD+IFR1+MS
5100.000	18.664	340.905	4922.312	20.947	0.000	19.715	0.000	7.843	0.000	0.000	20.954	19.237	102.201	MWD+IFR1+MS
5200.000	18.664	340.905	5017.054	21.346	0.000	20.117	0.000	8.015	0.000	0.000	21.338	19.634	102.530	MWD+IFR1+MS
5269.856	18.664	340.905	5083.236	21.623	0.000	20.395	0.000	8.136	0.000	0.000	21.602	19.912	102.708	MWD+IFR1+MS
5300.000	18.061	340.905	5111.845	21.759	0.000	20.514	0.000	8.188	0.000	0.000	21.714	20.031	102.765	MWD+IFR1+MS
5400.000	16.061	340.905	5207.440	22.238	0.000	20.905	0.000	8.369	0.000	0.000	22.128	20.426	102.435	MWD+IFR1+MS
5500.000	14.061	340.905	5304.000	22.751	0.000	21.295	0.000	8.554	0.000	0.000	22.600	20.821	101.459	MWD+IFR1+MS
5600.000	12.061	340.905	5401.408	23.226	0.000	21.676	0.000	8.724	0.000	0.000	23.065	21.207	100.544	MWD+IFR1+MS
5700.000	10.061	340.905	5499.546	23.662	0.000	22.049	0.000	8.881	0.000	0.000	23.523	21.584	99.693	MWD+IFR1+MS
5800.000	8.061	340.905	5598.293	24.059	0.000	22.413	0.000	9.026	0.000	0.000	23.972	21.953	98.909	MWD+IFR1+MS
5900.000	6.061	340.905	5697.529	24.417	0.000	22.769	0.000	9.162	0.000	0.000	24.412	22.311	98.192	MWD+IFR1+MS
6000.000	4.061	340.905	5797.135	24.735	0.000	23.115	0.000	9.289	0.000	0.000	24.841	22.660	97.542	MWD+IFR1+MS
6100.000	2.061	340.905	5896.987	25.014	0.000	23.452	0.000	9.409	0.000	0.000	25.259	22.999	96.956	MWD+IFR1+MS

6203.035	0.000	0.000	6000.000	25.654	0.000	23.369	0.000	9.527	0.000	0.000	25.687	23.333	96.916	MWD+IFR1+MS
6300.000	0.000	0.000	6096.965	25.978	0.000	23.687	0.000	9.637	0.000	0.000	26.015	23.647	97.286	MWD+IFR1+MS
6400.000	0.000	0.000	6196.965	26.279	0.000	24.015	0.000	9.753	0.000	0.000	26.317	23.973	97.526	MWD+IFR1+MS
6500.000	0.000	0.000	6296.965	26.581	0.000	24.345	0.000	9.872	0.000	0.000	26.622	24.301	97.769	MWD+IFR1+MS
6600.000	0.000	0.000	6396.965	26.885	0.000	24.675	0.000	9.993	0.000	0.000	26.928	24.629	98.011	MWD+IFR1+MS
6700.000	0.000	0.000	6496.965	27.190	0.000	25.007	0.000	10.117	0.000	0.000	27.235	24.958	98.252	MWD+IFR1+MS
6800.000	0.000	0.000	6596.965	27.496	0.000	25.339	0.000	10.244	0.000	0.000	27.543	25.287	98.491	MWD+IFR1+MS
6900.000	0.000	0.000	6696.965	27.804	0.000	25.671	0.000	10.373	0.000	0.000	27.853	25.618	98.729	MWD+IFR1+MS
7000.000	0.000	0.000	6796.965	28.112	0.000	26.005	0.000	10.506	0.000	0.000	28.164	25.949	98.966	MWD+IFR1+MS
7100.000	0.000	0.000	6896.965	28.422	0.000	26.339	0.000	10.641	0.000	0.000	28.476	26.280	99.201	MWD+IFR1+MS
7200.000	0.000	0.000	6996.965	28.733	0.000	26.673	0.000	10.779	0.000	0.000	28.789	26.612	99.435	MWD+IFR1+MS
7300.000	0.000	0.000	7096.965	29.045	0.000	27.009	0.000	10.921	0.000	0.000	29.104	26.945	99.667	MWD+IFR1+MS
7400.000	0.000	0.000	7196.965	29.358	0.000	27.344	0.000	11.065	0.000	0.000	29.419	27.279	99.898	MWD+IFR1+MS
7500.000	0.000	0.000	7296.965	29.673	0.000	27.681	0.000	11.212	0.000	0.000	29.736	27.613	100.127	MWD+IFR1+MS
7600.000	0.000	0.000	7396.965	29.988	0.000	28.018	0.000	11.362	0.000	0.000	30.054	27.947	100.355	MWD+IFR1+MS
7700.000	0.000	0.000	7496.965	30.304	0.000	28.355	0.000	11.515	0.000	0.000	30.372	28.282	100.582	MWD+IFR1+MS
7800.000	0.000	0.000	7596.965	30.621	0.000	28.693	0.000	11.672	0.000	0.000	30.691	28.618	100.807	MWD+IFR1+MS
7900.000	0.000	0.000	7696.965	30.939	0.000	29.032	0.000	11.831	0.000	0.000	31.012	28.954	101.030	MWD+IFR1+MS
8000.000	0.000	0.000	7796.965	31.258	0.000	29.371	0.000	11.994	0.000	0.000	31.333	29.290	101.252	MWD+IFR1+MS
8100.000	0.000	0.000	7896.965	31.578	0.000	29.710	0.000	12.159	0.000	0.000	31.655	29.627	101.472	MWD+IFR1+MS
8200.000	0.000	0.000	7996.965	31.898	0.000	30.050	0.000	12.328	0.000	0.000	31.978	29.965	101.691	MWD+IFR1+MS
8300.000	0.000	0.000	8096.965	32.219	0.000	30.390	0.000	12.500	0.000	0.000	32.302	30.302	101.908	MWD+IFR1+MS
8400.000	0.000	0.000	8196.965	32.541	0.000	30.731	0.000	12.675	0.000	0.000	32.627	30.641	102.124	MWD+IFR1+MS
8500.000	0.000	0.000	8296.965	32.864	0.000	31.072	0.000	12.853	0.000	0.000	32.952	30.979	102.338	MWD+IFR1+MS
8600.000	0.000	0.000	8396.965	33.188	0.000	31.414	0.000	13.034	0.000	0.000	33.278	31.318	102.550	MWD+IFR1+MS
8700.000	0.000	0.000	8496.965	33.512	0.000	31.755	0.000	13.218	0.000	0.000	33.605	31.658	102.761	MWD+IFR1+MS
8800.000	0.000	0.000	8596.965	33.837	0.000	32.098	0.000	13.406	0.000	0.000	33.932	31.997	102.970	MWD+IFR1+MS
8900.000	0.000	0.000	8696.965	34.163	0.000	32.440	0.000	13.597	0.000	0.000	34.260	32.337	103.178	MWD+IFR1+MS
9000.000	0.000	0.000	8796.965	34.489	0.000	32.783	0.000	13.791	0.000	0.000	34.589	32.678	103.384	MWD+IFR1+MS
9100.000	0.000	0.000	8896.965	34.816	0.000	33.126	0.000	13.989	0.000	0.000	34.918	33.019	103.588	MWD+IFR1+MS
9200.000	0.000	0.000	8996.965	35.144	0.000	33.470	0.000	14.189	0.000	0.000	35.248	33.360	103.791	MWD+IFR1+MS
9300.000	0.000	0.000	9096.965	35.472	0.000	33.814	0.000	14.393	0.000	0.000	35.579	33.701	103.992	MWD+IFR1+MS
9400.000	0.000	0.000	9196.965	35.801	0.000	34.158	0.000	14.600	0.000	0.000	35.910	34.043	104.192	MWD+IFR1+MS

9500.000	0.000	0.000	9296.965	36.130	0.000	34.502	0.000	14.810	0.000	0.000	36.242	34.385	104.390	MWD+IFR1+MS
9600.000	0.000	0.000	9396.965	36.460	0.000	34.847	0.000	15.024	0.000	0.000	36.574	34.727	104.586	MWD+IFR1+MS
9700.000	0.000	0.000	9496.965	36.790	0.000	35.192	0.000	15.241	0.000	0.000	36.907	35.070	104.781	MWD+IFR1+MS
9800.000	0.000	0.000	9596.965	37.121	0.000	35.537	0.000	15.461	0.000	0.000	37.240	35.413	104.974	MWD+IFR1+MS
9900.000	0.000	0.000	9696.965	37.452	0.000	35.883	0.000	15.684	0.000	0.000	37.574	35.756	105.165	MWD+IFR1+MS
10000.000	0.000	0.000	9796.965	37.784	0.000	36.229	0.000	15.911	0.000	0.000	37.908	36.099	105.355	MWD+IFR1+MS
10100.000	0.000	0.000	9896.965	38.117	0.000	36.575	0.000	16.141	0.000	0.000	38.243	36.443	105.543	MWD+IFR1+MS
10200.000	0.000	0.000	9996.965	38.450	0.000	36.921	0.000	16.374	0.000	0.000	38.578	36.786	105.730	MWD+IFR1+MS
10300.000	0.000	0.000	10096.965	38.783	0.000	37.268	0.000	16.611	0.000	0.000	38.914	37.131	105.915	MWD+IFR1+MS
10400.000	0.000	0.000	10196.965	39.117	0.000	37.614	0.000	16.850	0.000	0.000	39.250	37.475	106.099	MWD+IFR1+MS
10506.835	0.000	0.000	10303.800	39.474	0.000	37.986	0.000	17.110	0.000	0.000	39.611	37.843	106.313	MWD+IFR1+MS
10600.000	7.453	179.642	10396.702	39.053	0.000	38.288	-0.000	17.342	0.000	0.000	40.048	38.153	104.922	MWD+IFR1+MS
10700.000	15.453	179.642	10494.631	38.832	0.000	38.573	-0.000	17.662	0.000	0.000	41.228	38.459	101.145	MWD+IFR1+MS
10800.000	23.453	179.642	10588.846	38.126	0.000	38.830	-0.000	18.142	0.000	0.000	42.345	38.722	99.352	MWD+IFR1+MS
10900.000	31.453	179.642	10677.513	36.944	0.000	39.058	-0.000	18.838	0.000	0.000	43.300	38.950	98.471	MWD+IFR1+MS
11000.000	39.453	179.642	10758.906	35.400	0.000	39.253	-0.000	19.777	0.000	0.000	44.077	39.142	98.031	MWD+IFR1+MS
11100.000	47.453	179.642	10831.440	33.647	0.000	39.417	-0.000	20.959	0.000	0.000	44.674	39.300	97.838	MWD+IFR1+MS
11200.000	55.453	179.642	10893.705	31.876	0.000	39.547	-0.000	22.355	0.000	0.000	45.100	39.425	97.792	MWD+IFR1+MS
11300.000	63.453	179.642	10944.488	30.316	0.000	39.645	-0.000	23.917	0.000	0.000	45.372	39.518	97.827	MWD+IFR1+MS
11400.000	71.453	179.642	10982.801	29.218	0.000	39.711	-0.000	25.588	0.000	0.000	45.519	39.580	97.887	MWD+IFR1+MS
11500.000	79.453	179.642	11007.898	28.811	0.000	39.746	-0.000	27.309	0.000	0.000	45.574	39.613	97.914	MWD+IFR1+MS
11600.000	87.453	179.642	11019.290	29.238	0.000	39.749	-0.000	29.021	0.000	0.000	45.580	39.618	97.844	MWD+IFR1+MS
11631.835	90.000	179.642	11019.997	29.150	0.000	39.741	-0.000	29.150	0.000	0.000	45.578	39.612	97.783	MWD+IFR1+MS
11700.000	90.000	179.642	11019.997	29.316	0.000	39.726	-0.000	29.316	0.000	0.000	45.575	39.601	97.650	MWD+IFR1+MS
11800.000	90.000	179.642	11019.997	29.545	0.000	39.719	-0.000	29.545	0.000	0.000	45.572	39.600	97.473	MWD+IFR1+MS
11900.000	90.000	179.642	11019.997	29.796	0.000	39.729	-0.000	29.796	0.000	0.000	45.569	39.615	97.314	MWD+IFR1+MS
12000.000	90.000	179.642	11019.997	30.065	0.000	39.754	-0.000	30.065	0.000	0.000	45.567	39.645	97.171	MWD+IFR1+MS
12100.000	90.000	179.642	11019.997	30.352	0.000	39.793	-0.000	30.352	0.000	0.000	45.566	39.689	97.043	MWD+IFR1+MS
12200.000	90.000	179.642	11019.997	30.656	0.000	39.847	-0.000	30.656	0.000	0.000	45.565	39.747	96.929	MWD+IFR1+MS
12300.000	90.000	179.642	11019.997	30.977	0.000	39.916	-0.000	30.977	0.000	0.000	45.566	39.819	96.829	MWD+IFR1+MS
12400.000	90.000	179.642	11019.997	31.314	0.000	39.999	-0.000	31.314	0.000	0.000	45.567	39.906	96.743	MWD+IFR1+MS
12500.000	90.000	179.642	11019.997	31.668	0.000	40.096	-0.000	31.668	0.000	0.000	45.569	40.007	96.671	MWD+IFR1+MS
12600.000	90.000	179.642	11019.997	32.036	0.000	40.208	-0.000	32.036	0.000	0.000	45.572	40.123	96.614	MWD+IFR1+MS

12700.000	90.000	179.642	11019.997	32.420	0.000	40.334	-0.000	32.420	0.000	0.000	45.575	40.252	96.570	MWD+IFR1+MS
12800.000	90.000	179.642	11019.997	32.817	0.000	40.475	-0.000	32.817	0.000	0.000	45.580	40.395	96.542	MWD+IFR1+MS
12900.000	90.000	179.642	11019.997	33.229	0.000	40.629	-0.000	33.229	0.000	0.000	45.585	40.552	96.530	MWD+IFR1+MS
13000.000	90.000	179.642	11019.997	33.654	0.000	40.797	-0.000	33.654	0.000	0.000	45.591	40.723	96.535	MWD+IFR1+MS
13100.000	90.000	179.642	11019.997	34.091	0.000	40.978	-0.000	34.091	0.000	0.000	45.597	40.907	96.560	MWD+IFR1+MS
13200.000	90.000	179.642	11019.997	34.541	0.000	41.173	-0.000	34.541	0.000	0.000	45.605	41.104	96.606	MWD+IFR1+MS
13300.000	90.000	179.642	11019.997	35.003	0.000	41.382	-0.000	35.003	0.000	0.000	45.613	41.314	96.677	MWD+IFR1+MS
13400.000	90.000	179.642	11019.997	35.476	0.000	41.603	-0.000	35.476	0.000	0.000	45.621	41.537	96.777	MWD+IFR1+MS
13500.000	90.000	179.642	11019.997	35.960	0.000	41.837	-0.000	35.960	0.000	0.000	45.631	41.773	96.911	MWD+IFR1+MS
13600.000	90.000	179.642	11019.997	36.454	0.000	42.084	-0.000	36.454	0.000	0.000	45.642	42.021	97.086	MWD+IFR1+MS
13700.000	90.000	179.642	11019.997	36.959	0.000	42.343	-0.000	36.959	0.000	0.000	45.653	42.281	97.313	MWD+IFR1+MS
13800.000	90.000	179.642	11019.997	37.473	0.000	42.615	-0.000	37.473	0.000	0.000	45.665	42.553	97.607	MWD+IFR1+MS
13900.000	90.000	179.642	11019.997	37.996	0.000	42.898	-0.000	37.996	0.000	0.000	45.678	42.836	97.988	MWD+IFR1+MS
14000.000	90.000	179.642	11019.997	38.528	0.000	43.193	-0.000	38.528	0.000	0.000	45.693	43.131	98.489	MWD+IFR1+MS
14100.000	90.000	179.642	11019.997	39.069	0.000	43.500	-0.000	39.069	0.000	0.000	45.709	43.436	99.159	MWD+IFR1+MS
14200.000	90.000	179.642	11019.997	39.618	0.000	43.817	-0.000	39.618	0.000	0.000	45.726	43.751	100.080	MWD+IFR1+MS
14300.000	90.000	179.642	11019.997	40.175	0.000	44.146	-0.000	40.175	0.000	0.000	45.746	44.075	101.401	MWD+IFR1+MS
14400.000	90.000	179.642	11019.997	40.739	0.000	44.486	-0.000	40.739	0.000	0.000	45.770	44.407	103.407	MWD+IFR1+MS
14500.000	90.000	179.642	11019.997	41.310	0.000	44.836	-0.000	41.310	0.000	0.000	45.800	44.744	106.712	MWD+IFR1+MS
14600.000	90.000	179.642	11019.997	41.889	0.000	45.196	-0.000	41.889	0.000	0.000	45.845	45.076	112.810	MWD+IFR1+MS
14700.000	90.000	179.642	11019.997	42.474	0.000	45.566	-0.000	42.474	0.000	0.000	45.929	45.380	125.185	MWD+IFR1+MS
14800.000	90.000	179.642	11019.997	43.065	0.000	45.946	-0.000	43.065	0.000	0.000	46.113	45.595	-34.962	MWD+IFR1+MS
14900.000	90.000	179.642	11019.997	43.662	0.000	46.336	-0.000	43.662	0.000	0.000	46.414	45.701	-19.829	MWD+IFR1+MS
15000.000	90.000	179.642	11019.997	44.266	0.000	46.735	-0.000	44.266	0.000	0.000	46.778	45.756	-12.275	MWD+IFR1+MS
15100.000	90.000	179.642	11019.997	44.875	0.000	47.143	-0.000	44.875	0.000	0.000	47.169	45.793	-8.325	MWD+IFR1+MS
15200.000	90.000	179.642	11019.997	45.489	0.000	47.559	-0.000	45.489	0.000	0.000	47.576	45.823	-5.995	MWD+IFR1+MS
15300.000	90.000	179.642	11019.997	46.108	0.000	47.985	-0.000	46.108	0.000	0.000	47.996	45.849	-4.485	MWD+IFR1+MS
15400.000	90.000	179.642	11019.997	46.733	0.000	48.418	-0.000	46.733	0.000	0.000	48.426	45.875	-3.439	MWD+IFR1+MS
15500.000	90.000	179.642	11019.997	47.362	0.000	48.860	-0.000	47.362	0.000	0.000	48.865	45.899	-2.676	MWD+IFR1+MS
15600.000	90.000	179.642	11019.997	47.996	0.000	49.310	-0.000	47.996	0.000	0.000	49.313	45.923	-2.101	MWD+IFR1+MS
15700.000	90.000	179.642	11019.997	48.634	0.000	49.768	-0.000	48.634	0.000	0.000	49.770	45.948	-1.653	MWD+IFR1+MS
15800.000	90.000	179.642	11019.997	49.277	0.000	50.233	-0.000	49.277	0.000	0.000	50.234	45.972	-1.297	MWD+IFR1+MS
15900.000	90.000	179.642	11019.997	49.923	0.000	50.705	-0.000	49.923	0.000	0.000	50.706	45.997	-1.008	MWD+IFR1+MS

16000.000	90.000	179.642	11019.997	50.573	0.000	51.185	-0.000	50.573	0.000	0.000	51.185	46.022	-0.771	MWD+IFR1+MS
16100.000	90.000	179.642	11019.997	51.228	0.000	51.671	-0.000	51.228	0.000	0.000	51.671	46.047	-0.574	MWD+IFR1+MS
16200.000	90.000	179.642	11019.997	51.885	0.000	52.164	-0.000	51.885	0.000	0.000	52.164	46.073	-0.408	MWD+IFR1+MS
16300.000	90.000	179.642	11019.997	52.547	0.000	52.663	-0.000	52.547	0.000	0.000	52.663	46.100	-0.267	MWD+IFR1+MS
16400.000	90.000	179.642	11019.997	53.211	0.000	53.169	-0.000	53.211	0.000	0.000	53.169	46.126	-0.147	MWD+IFR1+MS
16500.000	90.000	179.642	11019.997	53.879	0.000	53.681	-0.000	53.879	0.000	0.000	53.682	46.154	-0.044	MWD+IFR1+MS
16600.000	90.000	179.642	11019.997	54.550	0.000	54.199	-0.000	54.550	0.000	0.000	54.200	46.182	0.046	MWD+IFR1+MS
16700.000	90.000	179.642	11019.997	55.224	0.000	54.723	-0.000	55.224	0.000	0.000	54.724	46.210	0.123	MWD+IFR1+MS
16800.000	90.000	179.642	11019.997	55.901	0.000	55.253	-0.000	55.901	0.000	0.000	55.253	46.239	0.191	MWD+IFR1+MS
16900.000	90.000	179.642	11019.997	56.581	0.000	55.788	-0.000	56.581	0.000	0.000	55.789	46.268	0.250	MWD+IFR1+MS
17000.000	90.000	179.642	11019.997	57.263	0.000	56.328	-0.000	57.263	0.000	0.000	56.329	46.298	0.302	MWD+IFR1+MS
17100.000	90.000	179.642	11019.997	57.948	0.000	56.873	-0.000	57.948	0.000	0.000	56.875	46.328	0.348	MWD+IFR1+MS
17200.000	90.000	179.642	11019.997	58.635	0.000	57.424	-0.000	58.635	0.000	0.000	57.425	46.359	0.388	MWD+IFR1+MS
17300.000	90.000	179.642	11019.997	59.325	0.000	57.979	-0.000	59.325	0.000	0.000	57.981	46.391	0.424	MWD+IFR1+MS
17400.000	90.000	179.642	11019.997	60.018	0.000	58.539	-0.000	60.018	0.000	0.000	58.541	46.423	0.455	MWD+IFR1+MS
17500.000	90.000	179.642	11019.997	60.712	0.000	59.104	-0.000	60.712	0.000	0.000	59.106	46.455	0.483	MWD+IFR1+MS
17600.000	90.000	179.642	11019.997	61.409	0.000	59.673	-0.000	61.409	0.000	0.000	59.676	46.488	0.508	MWD+IFR1+MS
17700.000	90.000	179.642	11019.997	62.107	0.000	60.247	-0.000	62.107	0.000	0.000	60.250	46.522	0.530	MWD+IFR1+MS
17800.000	90.000	179.642	11019.997	62.808	0.000	60.824	-0.000	62.808	0.000	0.000	60.828	46.556	0.549	MWD+IFR1+MS
17900.000	90.000	179.642	11019.997	63.511	0.000	61.406	-0.000	63.511	0.000	0.000	61.410	46.591	0.566	MWD+IFR1+MS
18000.000	90.000	179.642	11019.997	64.215	0.000	61.992	-0.000	64.215	0.000	0.000	61.996	46.626	0.581	MWD+IFR1+MS
18100.000	90.000	179.642	11019.997	64.922	0.000	62.582	-0.000	64.922	0.000	0.000	62.586	46.662	0.594	MWD+IFR1+MS
18200.000	90.000	179.642	11019.997	65.630	0.000	63.176	-0.000	65.630	0.000	0.000	63.180	46.698	0.605	MWD+IFR1+MS
18300.000	90.000	179.642	11019.997	66.340	0.000	63.773	-0.000	66.340	0.000	0.000	63.777	46.735	0.615	MWD+IFR1+MS
18400.000	90.000	179.642	11019.997	67.052	0.000	64.373	-0.000	67.052	0.000	0.000	64.378	46.772	0.624	MWD+IFR1+MS
18500.000	90.000	179.642	11019.997	67.765	0.000	64.978	-0.000	67.765	0.000	0.000	64.982	46.810	0.632	MWD+IFR1+MS
18600.000	90.000	179.642	11019.997	68.480	0.000	65.585	-0.000	68.480	0.000	0.000	65.590	46.848	0.638	MWD+IFR1+MS
18700.000	90.000	179.642	11019.997	69.196	0.000	66.196	-0.000	69.196	0.000	0.000	66.201	46.887	0.644	MWD+IFR1+MS
18800.000	90.000	179.642	11019.997	69.914	0.000	66.810	-0.000	69.914	0.000	0.000	66.816	46.927	0.648	MWD+IFR1+MS
18900.000	90.000	179.642	11019.997	70.633	0.000	67.427	-0.000	70.633	0.000	0.000	67.433	46.967	0.652	MWD+IFR1+MS
19000.000	90.000	179.642	11019.997	71.354	0.000	68.048	-0.000	71.354	0.000	0.000	68.053	47.007	0.656	MWD+IFR1+MS
19100.000	90.000	179.642	11019.997	72.076	0.000	68.671	-0.000	72.076	0.000	0.000	68.676	47.048	0.658	MWD+IFR1+MS
19200.000	90.000	179.642	11019.997	72.799	0.000	69.297	-0.000	72.799	0.000	0.000	69.303	47.090	0.660	MWD+IFR1+MS

19300.000	90.000	179.642	11019.997	73.524	0.000	69.926	-0.000	73.524	0.000	0.000	69.932	47.132	0.661	MWD+IFR1+MS
19400.000	90.000	179.642	11019.997	74.249	0.000	70.557	-0.000	74.249	0.000	0.000	70.563	47.174	0.662	MWD+IFR1+MS
19500.000	90.000	179.642	11019.997	74.976	0.000	71.191	-0.000	74.976	0.000	0.000	71.197	47.217	0.663	MWD+IFR1+MS
19600.000	90.000	179.642	11019.997	75.704	0.000	71.828	-0.000	75.704	0.000	0.000	71.834	47.261	0.663	MWD+IFR1+MS
19700.000	90.000	179.642	11019.997	76.434	0.000	72.467	-0.000	76.434	0.000	0.000	72.473	47.305	0.662	MWD+IFR1+MS
19800.000	90.000	179.642	11019.997	77.164	0.000	73.108	-0.000	77.164	0.000	0.000	73.115	47.350	0.661	MWD+IFR1+MS
19900.000	90.000	179.642	11019.997	77.895	0.000	73.752	-0.000	77.895	0.000	0.000	73.759	47.395	0.660	MWD+IFR1+MS
20000.000	90.000	179.642	11019.997	78.628	0.000	74.399	-0.000	78.628	0.000	0.000	74.406	47.440	0.659	MWD+IFR1+MS
20100.000	90.000	179.642	11019.997	79.361	0.000	75.047	-0.000	79.361	0.000	0.000	75.054	47.486	0.657	MWD+IFR1+MS
20200.000	90.000	179.642	11019.997	80.095	0.000	75.698	-0.000	80.095	0.000	0.000	75.705	47.533	0.656	MWD+IFR1+MS
20300.000	90.000	179.642	11019.997	80.831	0.000	76.351	-0.000	80.831	0.000	0.000	76.358	47.580	0.654	MWD+IFR1+MS
20400.000	90.000	179.642	11019.997	81.567	0.000	77.006	-0.000	81.567	0.000	0.000	77.013	47.628	0.651	MWD+IFR1+MS
20500.000	90.000	179.642	11019.997	82.304	0.000	77.663	-0.000	82.304	0.000	0.000	77.670	47.676	0.649	MWD+IFR1+MS
20600.000	90.000	179.642	11019.997	83.042	0.000	78.321	-0.000	83.042	0.000	0.000	78.329	47.725	0.646	MWD+IFR1+MS
20700.000	90.000	179.642	11019.997	83.781	0.000	78.982	-0.000	83.781	0.000	0.000	78.990	47.774	0.643	MWD+IFR1+MS
20800.000	90.000	179.642	11019.997	84.521	0.000	79.645	-0.000	84.521	0.000	0.000	79.653	47.823	0.640	MWD+IFR1+MS
20900.000	90.000	179.642	11019.997	85.261	0.000	80.310	-0.000	85.261	0.000	0.000	80.317	47.874	0.637	MWD+IFR1+MS
21000.000	90.000	179.642	11019.997	86.002	0.000	80.976	-0.000	86.002	0.000	0.000	80.984	47.924	0.634	MWD+IFR1+MS
21100.000	90.000	179.642	11019.997	86.744	0.000	81.644	-0.000	86.744	0.000	0.000	81.652	47.975	0.631	MWD+IFR1+MS
21200.000	90.000	179.642	11019.997	87.487	0.000	82.314	-0.000	87.487	0.000	0.000	82.322	48.027	0.628	MWD+IFR1+MS
21300.000	90.000	179.642	11019.997	88.231	0.000	82.985	-0.000	88.231	0.000	0.000	82.993	48.079	0.624	MWD+IFR1+MS
21400.000	90.000	179.642	11019.997	88.975	0.000	83.658	-0.000	88.975	0.000	0.000	83.666	48.132	0.621	MWD+IFR1+MS
21500.000	90.000	179.642	11019.997	89.720	0.000	84.333	-0.000	89.720	0.000	0.000	84.341	48.185	0.617	MWD+IFR1+MS
21600.000	90.000	179.642	11019.997	90.465	0.000	85.009	-0.000	90.465	0.000	0.000	85.017	48.238	0.613	MWD+IFR1+MS
21700.000	90.000	179.642	11019.997	91.212	0.000	85.687	-0.000	91.212	0.000	0.000	85.695	48.292	0.610	MWD+IFR1+MS
21800.000	90.000	179.642	11019.997	91.959	0.000	86.366	-0.000	91.959	0.000	0.000	86.374	48.347	0.606	MWD+IFR1+MS
21900.000	90.000	179.642	11019.997	92.706	0.000	87.046	-0.000	92.706	0.000	0.000	87.055	48.402	0.602	MWD+IFR1+MS
22000.000	90.000	179.642	11019.997	93.454	0.000	87.728	-0.000	93.454	0.000	0.000	87.737	48.457	0.598	MWD+IFR1+MS
22100.000	90.000	179.642	11019.997	94.203	0.000	88.412	-0.000	94.203	0.000	0.000	88.420	48.513	0.594	MWD+IFR1+MS
22200.000	90.000	179.642	11019.997	94.952	0.000	89.096	-0.000	94.952	0.000	0.000	89.105	48.570	0.591	MWD+IFR1+MS
22300.000	90.000	179.642	11019.997	95.702	0.000	89.782	-0.000	95.702	0.000	0.000	89.791	48.627	0.587	MWD+IFR1+MS
22400.000	90.000	179.642	11019.997	96.452	0.000	90.470	-0.000	96.452	0.000	0.000	90.478	48.684	0.583	MWD+IFR1+MS
22500.000	90.000	179.642	11019.997	97.203	0.000	91.158	-0.000	97.203	0.000	0.000	91.167	48.742	0.579	MWD+IFR1+MS

22600.000	90.000	179.642	11019.997	97.955	0.000	91.848	-0.000	97.955	0.000	0.000	91.857	48.800	0.575	MWD+IFR1+MS
22700.000	90.000	179.642	11019.997	98.707	0.000	92.539	-0.000	98.707	0.000	0.000	92.548	48.859	0.571	MWD+IFR1+MS
22800.000	90.000	179.642	11019.997	99.460	0.000	93.231	-0.000	99.460	0.000	0.000	93.240	48.918	0.567	MWD+IFR1+MS
22900.000	90.000	179.642	11019.997	100.213	0.000	93.924	-0.000	100.213	0.000	0.000	93.933	48.978	0.563	MWD+IFR1+MS
23000.000	90.000	179.642	11019.997	100.966	0.000	94.618	-0.000	100.966	0.000	0.000	94.627	49.038	0.559	MWD+IFR1+MS
23100.000	90.000	179.642	11019.997	101.720	0.000	95.314	-0.000	101.720	0.000	0.000	95.323	49.099	0.555	MWD+IFR1+MS
23200.000	90.000	179.642	11019.997	102.474	0.000	96.010	-0.000	102.474	0.000	0.000	96.019	49.160	0.551	MWD+IFR1+MS
23300.000	90.000	179.642	11019.997	103.229	0.000	96.708	-0.000	103.229	0.000	0.000	96.717	49.221	0.546	MWD+IFR1+MS
23400.000	90.000	179.642	11019.997	103.985	0.000	97.407	-0.000	103.985	0.000	0.000	97.416	49.283	0.542	MWD+IFR1+MS
23500.000	90.000	179.642	11019.997	104.740	0.000	98.106	-0.000	104.740	0.000	0.000	98.115	49.346	0.538	MWD+IFR1+MS
23600.000	90.000	179.642	11019.997	105.497	0.000	98.807	-0.000	105.497	0.000	0.000	98.816	49.408	0.534	MWD+IFR1+MS
23700.000	90.000	179.642	11019.997	106.253	0.000	99.508	-0.000	106.253	0.000	0.000	99.517	49.472	0.530	MWD+IFR1+MS
23800.000	90.000	179.642	11019.997	107.010	0.000	100.211	-0.000	107.010	0.000	0.000	100.220	49.535	0.526	MWD+IFR1+MS
23909.380	90.000	179.642	11019.997	107.839	0.000	100.981	-0.000	107.839	0.000	0.000	100.990	49.606	0.522	MWD+IFR1+MS
23999.292	90.000	179.642	11019.997	108.520	0.000	101.614	-0.000	108.520	0.000	0.000	101.623	49.664	0.518	MWD+IFR1+MS

Plan Targets Poker Lake Unit 21 DTD South 178H

Target Name	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape
FTP 19	11398.89	440439.30	639278.60	7611.00	RECTANGLE
SHL 18	12023.24	440850.26	640952.01	6707.00	RECTANGLE
LTP 19	23909.29	427445.90	639359.90	7611.00	RECTANGLE
BHL 19	23999.34	427355.90	639360.40	7611.00	RECTANGLE

5.500" 20.00lb/ft (0.361" Wall) P110 RY USS-FREEDOM HTQ®

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

Notes

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

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5.500" 20.00lb/ft (0.361" Wall) P110 RY USS-TALON HTQ™ RD

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

Notes

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

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10,000 PSI Annular BOP Variance Request

XTO Energy/XTO Permian Op. request a variance to use a 5000 psi annular BOP with a 10,000 psi BOP stack. The component and compatibility tables along with the general well control plans demonstrate how the 5000 psi annular BOP will be protected from pressures that exceed its rated working pressure (RWP). The pressure at which the control of the wellbore is transferred from the annular preventer to another available preventer will not exceed 3500 psi (70% of the RWP of the 5000 psi annular BOPL).

1. Component and Preventer Compatibility Tables

The tables below outline the tubulars and the compatible preventers in use. This table, combined with the drilling fluid, documents that two barriers to flow will be maintained at all times.

8-1/2" Production Hole Section 10M psi Requirement					
Component	**OD**	**Primary Preventer**	**RWP**	**Alternate Preventer(s)**	**RWP**
Drillpipe	5.000" or 4.500"	Annular	5M	Upper 3.5"-5.5" VBR Lower 3.5"-5.5" VBR	10M 10M
HWDP	5.000" or 4.500"	Annular	5M	Upper 3.5"-5.5" VBR Lower 3.5"-5.5" VBR	10M 10M
Jars	6.500"	Annular	5M	-	-
DCs and MWD tools	6.500"-8.000"	Annular	5M	-	-
Mud Motor	6.750"-8.000"	Annular	5M	-	-
Production Casing	5-1/2"	Annular	5M	-	-
Open-Hole	-	Blind Rams	10M	-	-

2. Well Control Procedures

Below are the minimal high-level tasks prescribed to assure a proper shut-in while drilling, tripping, running casing, pipe out of the hole (open hole), and moving the BHA through the BOPs. At least one well control drill will be performed weekly per crew to demonstrate compliance with the procedure and well control plan. The well control drill will be recorded in the daily drilling log. The type of drill will be determined by the ongoing operations, but reasonable attempts will be made to vary the type of drill conducted (pit, trip, open hole, choke, etc.). This well control plan will be available for review by rig personnel in the XTO Energy/Permian Operating drilling supervisor's office on location and on the rig floor. All BOP equipment will be tested as per 43.CFR.3172 with the exception of the 5000 psi annular which will be tested to 70% of its RWP.

General Procedure While Drilling

1. Sound alarm (alert crew)
2. Space out drill string
3. Shut down pumps (stop pumps and rotary)
4. Shut-in well (uppermost applicable BOP, typically annular preventer, first. HCR & choke will already be in the closed position.)
5. Confirm shut-in
6. Notify toolpusher/company representative
7. Read and record the following:
   a. SIDPP & SICP
   b. Pit gain
   c. Time
8. Regroup and identify forward plan

9. If pressure has built or is anticipated during the kill to reach 70% or greater of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure While Tripping

1. Sound alarm (alert crew)
2. Stab full-opening safety valve & close
3. Space out drill string
4. Shut-in well (uppermost applicable BOP, typically annular preventer, first. HCR & choke will already be in the closed position.)
5. Confirm shut-in
6. Notify toolpusher/company representative
7. Read and record the following:
    a. SIDPP & SICP
    b. Pit gain
    c. Time
8. Regroup and identify forward plan
9. If pressure has built or is anticipated during the kill to reach 70% of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure While Running Production Casing

a. Sound alarm (alert crew)
b. Stab crossover and full-opening safety valve and close
c. Space out string
d. Shut-in well (uppermost applicable BOP, typically annular preventer, first. HCR & choke will already be in the closed position.)
e. Confirm shut-in
f. Notify toolpusher/company representative
g. Read and record the following:
    a. SIDPP & SICP
    b. Pit gain
    c. Time
h. Regroup and identify forward plan
i. If pressure has built or is anticipated during the kill to reach 70% or greater of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure With No Pipe In Hole (Open Hole)

1. Sound alarm (alert crew)
2. Shut-in with blind rams (HCR & choke will already be in the closed position)
3. Confirm shut-in
4. Notify toolpusher/company representative
5. Read and record the following:
   a. SICP
   b. Pit gain
   c. Time
6. Regroup and identify forward plan

General Procedures While Pulling BHA Through Stack

1. PRIOR to pulling last joint of drillpipe through stack:
   a. Perform flow check. If flowing, continue to (b).
   b. Sound alarm (alert crew)
   c. Stab full-opening safety valve and close
   d. Space out drill string with tool joint just beneath the upper variable bore rams
   e. Shut-in using upper variable bore rams (HCR & choke will already be in the closed position)
   f. Confirm shut-in
   g. Notify toolpusher/company representative
   h. Read and record the following:
      i. SIDPP & SICP
      ii. Pit gain
      iii. Time
   i. Regroup and identify forward plan
2. With BHA in the stack and compatible ram preventer and pipe combination immediately available:
   a. Sound alarm (alert crew)
   b. Stab crossover and full-opening safety valve and close
   c. Space out drill string with upset just beneath the upper variable bore rams
   d. Shut-in using upper variable bore rams (HCR & choke will already be in the closed position)
   e. Confirm shut-in
   f. Notify toolpusher/company representative
   g. Read and record the following:
      i. SIDPP & SICP
      ii. Pit gain
      iii. Time

h. Regroup and identify forward plan

3. With BHA in the stack and NO compatible ram preventer and pipe combination immediately available:
    a. Sound alarm (alert crew)
    b. If possible, pull string clear of the stack and follow "Open Hole" procedure.
    c. If impossible to pull string clear of the stack:
    d. Stab crossover, make up one joint/stand of drillpipe and full-opening safety valve and close
    e. Space out drill string with tooljoint just beneath the upper variable bore ram
    f. Shut-in using upper variable bore ram (HCR & choke will already be in the closed position)
    g. Confirm shut-in
    h. Notify toolpusher/company representative
    i. Read and record the following:
        i. SIDPP & SICP
        ii. Pit gain
        iii. Time
    j. Regroup and identify forward plan

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Energy, Minerals and Natural Resources
Oil Conservation Division
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CONDITIONS

Action 383933

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 383933
	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.	9/19/2024