

Lease Number: NMLC0068431

Unit or CA Name: POKER LAKE UNIT

Unit or CA Number:
NMNM71016X

US Well Number: 3001553217

Operator: XTO PERMIAN OPERATING
LLC

Notice of Intent

Sundry ID: 2784387

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 04/10/2024

Time Sundry Submitted: 02:42

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 FTP, LTP, BHL, Casing sizes, Cement, Proposed total Depth, and formation (Pool). FROM: TO: FTP: 388' FNL & 1411' FEL OF SECTION 21-T24S-R30E 100' FNL & 1317' FEL OF SECTION 21-T24S-R30E LTP: 330' FNL & 1416' FEL OF SECTION 33-T23S-R30E 2538' FNL & 1313' FEL OF SECTION 33-T24S-R30E BHL: 201' FNL & 1415' FEL OF SECTION 33-T23S-R30E 2628' FNL & 1314' FEL OF SECTION 33-T24S-R30E The proposed total depth is changing from 32892' MD; 11056' TVD (Wolfcamp) to 22571' MD; 9587' TVD (Bone Spring 2 Sand). A saturated salt brine will be utilized while drilling through the salt formations. See attached Drilling Plan for updated cement and casing program. Attachments: C-102, Drilling Plan, Directional Plan, MBS .

NOI Attachments

Procedure Description

PLU_21_DTD_107H_Sundry_Documents_20240726145323.pdf

US Well Number: 3001553217

Operator: XTO PERMIAN OPERATING
LLC

Conditions of Approval

Additional

POKER_LAKE_UNIT_21_DTD_107H_COA_20240827141055.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 02:54 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: 09/04/2024

Signature: Chris Walls

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.	NMLC068431
6. If Indian, Allottee or Tribe Name	

SUBMIT IN TRIPLICATE - Other instructions on page 2		7. If Unit of CA/Agreement, Name and/or No. POKER LAKE UNIT/NMNM71016X
1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		8. Well Name and No. POKER LAKE UNIT 21 DTD/107H
2. Name of Operator XTO PERMIAN OPERATING LLC		9. API Well No. 3001553217
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 16/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			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input checked="" type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate 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 FTP, LTP, BHL, Casing sizes, Cement, Proposed total Depth, and formation (Pool).

FROM: TO:

FTP: 388' FNL & 1411' FEL OF SECTION 21-T24S-R30E 100' FNL & 1317' FEL OF SECTION 21-T24S-R30E
LTP: 330' FNL & 1416' FEL OF SECTION 33-T23S-R30E 2538' FNL & 1313' FEL OF SECTION 33-T24S-R30E
BHL: 201' FNL & 1415' FEL OF SECTION 33-T23S-R30E 2628' FNL & 1314' FEL OF SECTION 33-T24S-R30E

The proposed total depth is changing from 32892 MD; 11056 TVD (Wolfcamp) to 22571 MD; 9587 TVD (Bone Spring 2 Sand).

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

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 OFFICE USE		
Approved by CHRISTOPHER WALLS / Ph: (575) 234-2234 / Approved	Title Petroleum Engineer	Date 09/04/2024
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 of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Additional Information

Additional Remarks

See attached Drilling Plan for updated cement and casing program.

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

Location of Well

0. SHL: SESE / 237 FSL / 187 FEL / TWSP: 24S / RANGE: 30E / SECTION: 16 / LAT: 32.211148 / LONG: -103.878189 (TVD: 0 feet, MD: 0 feet)

PPP: NWNE / 388 FNL / 1411 FEL / TWSP: 24S / RANGE: 30E / SECTION: 21 / LAT: 32.20942 / LONG: -103.882149 (TVD: 11056 feet, MD: 11600 feet)

BHL: NWNE / 201 FNL / 1415 FEL / TWSP: 23S / RANGE: 30E / SECTION: 33 / LAT: 32.268077 / LONG: -103.882166 (TVD: 11056 feet, MD: 32892 feet)

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO
LEASE NO.:	NMLC068430
LOCATION:	Sec.16 , T.24 S, R 30 E
COUNTY:	Eddy County, New Mexico ▼
WELL NAME & NO.:	PLU 21 DTD 107H
SURFACE HOLE FOOTAGE:	237'/S & 187'/E
BOTTOM HOLE FOOTAGE:	2628'/N & 1314'/E

Changes approved through engineering via **Sundry 2784387** on 8-27-2024. Any previous COAs not addressed within the updated COAs still apply.

COA

H ₂ S	<input checked="" type="radio"/> No <input type="radio"/> Yes			
Potash / WIPP	<input type="radio"/> None	<input checked="" type="radio"/> Secretary	<input type="radio"/> R-111-Q	<input type="checkbox"/> Open Annulus <input type="checkbox"/> WIPP
	Choose an option (including blank option.)			
Cave / Karst	<input checked="" type="radio"/> Low	<input type="radio"/> Medium	<input type="radio"/> High	<input type="radio"/> Critical
Wellhead	<input type="radio"/> Conventional	<input checked="" type="radio"/> Multibowl	<input type="radio"/> Both	<input type="radio"/> Diverter
Cementing	<input checked="" type="checkbox"/> Primary Squeeze	<input type="checkbox"/> Cont. Squeeze	<input checked="" type="checkbox"/> EchoMeter	<input type="checkbox"/> DV Tool
Special Req	<input type="checkbox"/> Capitan Reef	<input type="checkbox"/> Water Disposal	<input type="checkbox"/> COM	<input checked="" type="checkbox"/> Unit
Waste Prev.	<input type="radio"/> Self-Certification	<input type="radio"/> Waste Min. Plan	<input checked="" type="radio"/> APD Submitted prior to 06/10/2024	
Additional Language	<input checked="" type="checkbox"/> Flex Hose	<input checked="" type="checkbox"/> Casing Clearance	<input type="checkbox"/> Pilot Hole	<input checked="" type="checkbox"/> Break Testing
	<input type="checkbox"/> Four-String	<input checked="" type="checkbox"/> Offline Cementing	<input type="checkbox"/> Fluid-Filled	

A. HYDROGEN SULFIDE

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

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

B. CASING

1. The **13-3/8** 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 **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, or potash.**

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 6380'**
 - b. **Second stage:** Operator will perform bradenhead squeeze and top-out. Cement to tie-back at least **500ft** into previous casing shoe. 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, or potash.**

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 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.

4. The minimum required fill of cement behind the **5-1/2** inch production liner 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.

Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.

- a. 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.
- b. Manufacturer representative shall install the test plug for the initial BOP test.
- c. 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.
- d. 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](mailto: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 8/27/2024
575-234-5998 / zstevens@blm.gov

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015- 53217	² Pool Code 97798	³ Pool Name WILDCAT G-06 S243026M; BONE SPRING
⁴ Property Code 333571	⁵ Property Name POKER LAKE UNIT 21 DTD	⁶ Well Number 107H
⁷ OGRID No. 373075	⁸ Operator Name XTO PERMIAN OPERATING, LLC.	⁹ Elevation 3,397'

¹⁰ Surface Location

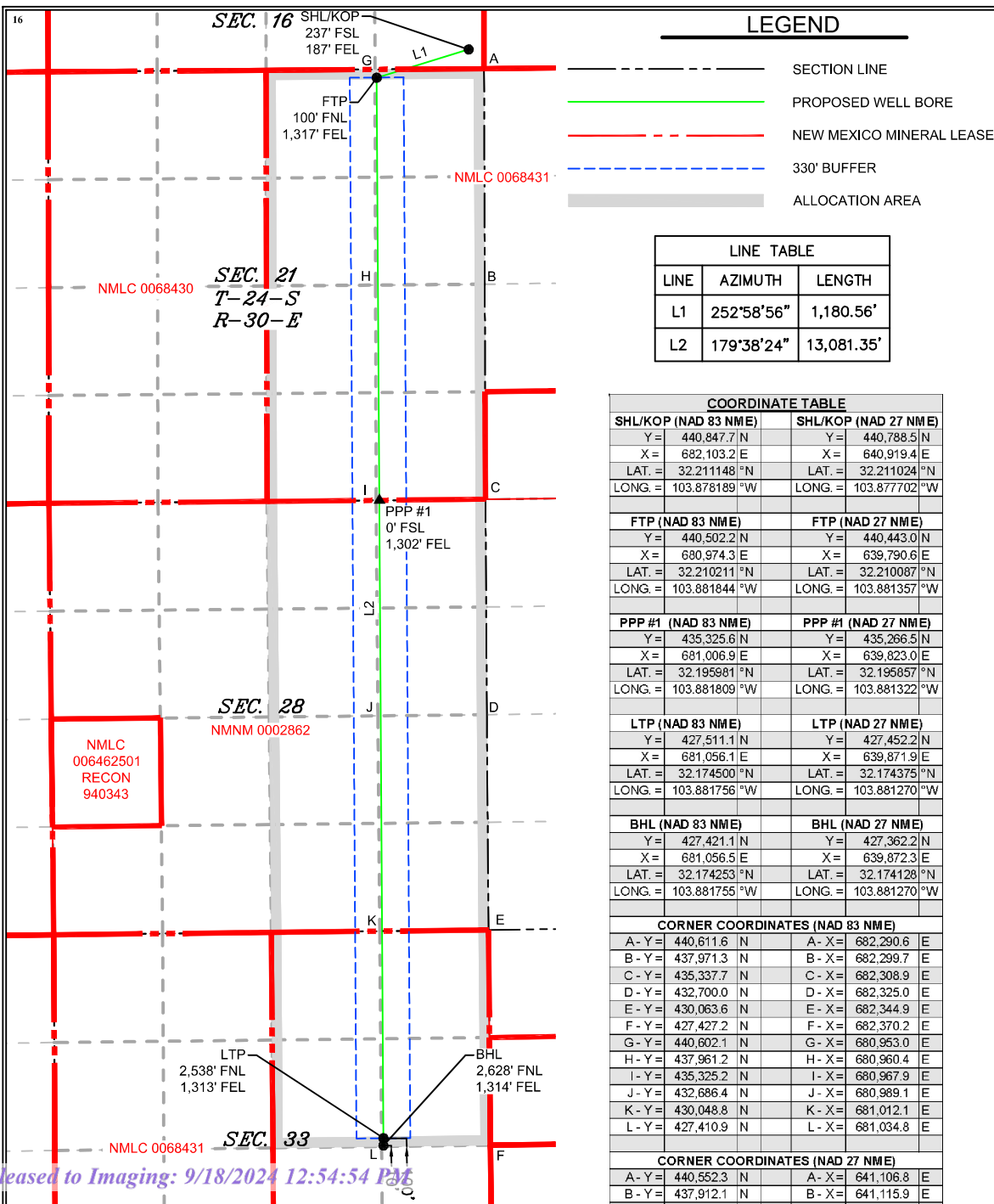
UL or lot no. P	Section 16	Township 24S	Range 30E	Lot Idn	Feet from the 237	North/South line SOUTH	Feet from the 187	East/West line EAST	County EDDY
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no. H	Section 33	Township 24S	Range 30E	Lot Idn	Feet from the 2,628	North/South line NORTH	Feet from the 1,314	East/West line EAST	County EDDY
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¹² Dedicated Acres 800.00	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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.



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 7/25/2024
Signature Date

Emily Rivera
Printed Name

emily.a.rivera@exxonmobil.com
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:



Intent ☒ As Drilled ☐

API # 30-15-		
Operator Name: XTO PERMAIN OPERATING, LLC.	Property Name: POKER LAKE UNIT 21 DTD	Well Number 107H

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 A	Section 21	Township 24S	Range 30E	Lot	Feet 100	From N/S NORTH	Feet 1,317	From E/W EAST	County EDDY
Latitude 32.210211					Longitude -103.881844				NAD 83

Last Take Point (LTP)

UL H	Section 33	Township 24S	Range 30E	Lot	Feet 2,538	From N/S NORTH	Feet 1,313	From E/W EAST	County EDDY
Latitude 32.174500					Longitude -103.881756				NAD 83

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

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

API #		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018

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

XTO Energy Inc.
POKER LAKE UNIT 21 DTD 107H
Projected TD: 22571' MD / 9587' TVD
SHL: 237' FSL & 187' FEL , Section 16, T24S, R30E
BHL: 2628' FNL & 1314' 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	1044'	Water
Top of Salt	1447'	Water
Base of Salt	3640'	Water
Delaware	3834'	Water
Brushy Canyon	6380'	Water/Oil/Gas
Bone Spring	7704'	Water
Avalon	8397'	Water/Oil/Gas
1st Bone Spring	8413'	Water/Oil/Gas
2nd Bone Spring	8998'	Water/Oil/Gas
Target/Land Curve	9587'	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 @ 1422' (25' above the salt) and circulating cement back to surface. The salt will be isolated by setting 9.625 inch casing at 3740' 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 8671' and cementing to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 22571 MD/TD and 5.5 inch production casing will be set at TD and cemented back up to 2nd intermediate (estimated TOC 8371 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' – 1422'	13.375	54.5	J-55	BTC	New	3.08	1.82	11.73
12.25	0' – 3740'	9.625	40	J-55	BTC	New	1.92	3.04	4.21
8.75	0' – 3840'	7.625	29.7	RY P-110	Flush Joint	New	3.03	3.04	2.17
8.75	3840' – 8671'	7.625	29.7	HC L-80	Flush Joint	New	2.20	3.92	2.83
6.75	0' – 8571'	5.5	20	RY P-110	Semi-Premium	New	1.05	2.37	2.21
6.75	8571' - 22571'	5.5	20	RY P-110	Semi-Flush	New	1.05	2.12	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 +/- 1422'

Optional Lead: 1170 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 +/- 3740'

Lead: 780 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 +/- 8671'

1st Stage

Optional Lead: 140 sxs Class C (mixed at 10.5 ppg, 2.77 ft3/sx, 15.59 gal/sx water)
 TOC: 3440
 Tail: 240 sxs Class C (mixed at 14.8 ppg, 1.27 ft3/sx, 6.39 gal/sx water)
 TOC: Brushy Canyon @ 6380
 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: 3440
 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 (6380') 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 +/- 22571'

Lead: 20 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft3/sx, 15.00 gal/sx water) Top of Cement: 8371 feet
 Tail: 850 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft3/sx, 8.38 gal/sx water) Top of Cement: 9081 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 surface 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 nipping up on the 13.375, 10M bradenhead and flange, the BOP test will be limited to 10000 psi. When nipping 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	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)	Additional Comments
0' - 1422'	17.5	FW/Native	8.4-8.9	35-40	NC	Fresh water or native water
1422' - 3834'	12.25	Saturated Salt	10.5 - 11	30-32	NC	Fully saturated salt across salado / salt
3834' to 8671'	8.75	BDE / OBM	9- 9.5	30-32	NC	N/A
8671' to 22571'	6.75	OBM	10.5-11	50-60	NC - 20	N/A

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

Spud with fresh water/native mud. Drill out from under surface casing with Saturated Salt 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 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 5235 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 107H

Measured Depth: 22571.23 ft
TVD RKB: 9587.00 ft
Location
Cartographic Reference System: New Mexico East - NAD 27
Northing: 440788.50 ft
Easting: 640919.40 ft
RKB: 3429.00 ft
Ground Level: 3397.00 ft
North Reference: Grid
Convergence Angle: 0.24 Deg

Plan Sections Poker Lake Unit 21 DTD South 107H

Measured		TVD				Build		Turn		Dogleg	
Depth	Inclination	Azimuth	RKB	Y Offset	X Offset	Rate	Rate	Rate	Rate	Rate	Rate
(ft)	(Deg)	(Deg)	(ft)	(ft)	(ft)	(Deg/100ft)	(Deg/100ft)	(Deg/100ft)	(Deg/100ft)	(Deg/100ft)	(Deg/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3700.00	0.00	0.00	3700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4645.62	22.56	252.98	4621.38	-53.78	-175.70	2.39	2.39	0.00	0.00	2.39	2.39
6764.99	22.56	252.98	6578.62	-291.72	-953.10	0.00	0.00	0.00	0.00	0.00	0.00
7710.61	0.00	0.00	7500.00	-345.50	-1128.80	-2.39	-2.39	0.00	0.00	2.39	2.39
9081.41	0.00	0.00	8870.80	-345.50	-1128.80	0.00	0.00	0.00	0.00	0.00	0.00
10206.41	90.00	179.64	9587.00	-1061.68	-1124.35	8.00	8.00	0.00	0.00	8.00	8.00
22481.22	90.00	179.64	9587.00	-13336.25	-1048.08	0.00	0.00	0.00	0.00	0.00	LTP 15
22571.23	90.00	179.64	9587.00	-13426.27	-1047.52	0.00	0.00	0.00	0.00	0.00	BHL 15

Position Uncertainty Poker Lake Unit 21 DTD South 107H

Measured	TVD	Highside	Lateral	Vertical	Magnitude	Semi-major	Semi-minor	Tool
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Depth	Inclination	Azimuth	RKB	Error	Bias	Error	Bias	Error	Bias	Error	of Bias	Error	Error	Azimuth	Used
(ft)	(°)	(°)	(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	0.000	MWD+IFR1+MS
100.000	0.000	0.000	100.000	0.700	0.000	0.350	0.000	2.300	0.000	0.751	0.000	0.220	0.220	112.264	MWD+IFR1+MS
200.000	0.000	0.000	200.000	1.112	0.000	0.861	0.000	2.310	0.000	1.259	0.000	0.627	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	1.698	0.000	0.986	0.986	125.469	MWD+IFR1+MS
400.000	0.000	0.000	400.000	1.871	0.000	1.658	0.000	2.347	0.000	2.108	0.000	1.344	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	2.503	0.000	1.701	1.701	127.419	MWD+IFR1+MS
600.000	0.000	0.000	600.000	2.607	0.000	2.405	0.000	2.407	0.000	2.888	0.000	2.059	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	3.267	0.000	2.417	2.417	128.190	MWD+IFR1+MS
800.000	0.000	0.000	800.000	3.334	0.000	3.138	0.000	2.486	0.000	3.642	0.000	2.775	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	4.014	0.000	3.133	3.133	128.602	MWD+IFR1+MS
1000.000	0.000	0.000	1000.000	4.058	0.000	3.865	0.000	2.582	0.000	4.384	0.000	3.491	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	4.752	0.000	3.849	3.849	128.859	MWD+IFR1+MS
1200.000	0.000	0.000	1200.000	4.779	0.000	4.589	0.000	2.692	0.000	5.119	0.000	4.207	4.207	128.954	MWD+IFR1+MS
1300.000	0.000	0.000	1300.000	5.140	0.000	4.950	0.000	2.752	0.000	5.484	0.000	4.565	4.565	129.034	MWD+IFR1+MS
1400.000	0.000	0.000	1400.000	5.500	0.000	5.311	0.000	2.814	0.000	5.849	0.000	4.924	4.924	129.102	MWD+IFR1+MS
1500.000	0.000	0.000	1500.000	5.860	0.000	5.672	0.000	2.879	0.000	6.213	0.000	5.282	5.282	129.161	MWD+IFR1+MS
1600.000	0.000	0.000	1600.000	6.219	0.000	6.032	0.000	2.947	0.000	6.577	0.000	5.640	5.640	129.212	MWD+IFR1+MS
1700.000	0.000	0.000	1700.000	6.579	0.000	6.392	0.000	3.017	0.000	6.939	0.000	5.999	5.999	129.257	MWD+IFR1+MS
1800.000	0.000	0.000	1800.000	6.938	0.000	6.752	0.000	3.088	0.000	7.302	0.000	6.357	6.357	129.297	MWD+IFR1+MS
1900.000	0.000	0.000	1900.000	7.298	0.000	7.112	0.000	3.162	0.000	7.664	0.000	6.715	6.715	129.333	MWD+IFR1+MS
2000.000	0.000	0.000	2000.000	7.657	0.000	7.471	0.000	3.238	0.000	8.026	0.000	7.074	7.074	129.365	MWD+IFR1+MS
2100.000	0.000	0.000	2100.000	8.016	0.000	7.831	0.000	3.315	0.000	8.387	0.000	7.432	7.432	129.394	MWD+IFR1+MS
2200.000	0.000	0.000	2200.000	8.375	0.000	8.190	0.000	3.393	0.000	8.748	0.000	7.791	7.791	129.420	MWD+IFR1+MS
2300.000	0.000	0.000	2300.000	8.734	0.000	8.550	0.000	3.474	0.000	9.109	0.000	8.149	8.149	129.444	MWD+IFR1+MS
2400.000	0.000	0.000	2400.000	9.093	0.000	8.909	0.000	3.555	0.000	9.470	0.000	8.507	8.507	129.466	MWD+IFR1+MS
2500.000	0.000	0.000	2500.000	9.452	0.000	9.268	0.000	3.639	0.000	9.831	0.000	8.866	8.866	129.486	MWD+IFR1+MS
2600.000	0.000	0.000	2600.000	9.811	0.000	9.627	0.000	3.723	0.000	10.191	0.000	9.224	9.224	129.505	MWD+IFR1+MS
2700.000	0.000	0.000	2700.000	10.170	0.000	9.986	0.000	3.809	0.000	10.552	0.000	9.583	9.583	129.522	MWD+IFR1+MS
2800.000	0.000	0.000	2800.000	10.529	0.000	10.345	0.000	3.896	0.000	10.912	0.000	9.941	9.941	129.538	MWD+IFR1+MS
2900.000	0.000	0.000	2900.000	10.888	0.000	10.705	0.000	3.985	0.000	11.272	0.000	10.299	10.299	129.552	MWD+IFR1+MS
3000.000	0.000	0.000	3000.000	11.247	0.000	11.063	0.000	4.075	0.000	11.632	0.000	10.658	10.658	129.566	MWD+IFR1+MS

3100.000	0.000	0.000	3100.000	11.606	0.000	11.422	0.000	4.166	0.000	0.000	11.992	11.016	129.579	MWD+IFR1+MS
3200.000	0.000	0.000	3200.000	11.965	0.000	11.781	0.000	4.258	0.000	0.000	12.352	11.375	129.591	MWD+IFR1+MS
3300.000	0.000	0.000	3300.000	12.323	0.000	12.140	0.000	4.352	0.000	0.000	12.712	11.733	129.603	MWD+IFR1+MS
3400.000	0.000	0.000	3400.000	12.682	0.000	12.499	0.000	4.447	0.000	0.000	13.071	12.092	129.613	MWD+IFR1+MS
3500.000	0.000	0.000	3500.000	13.041	0.000	12.858	0.000	4.543	0.000	0.000	13.431	12.450	129.623	MWD+IFR1+MS
3600.000	0.000	0.000	3600.000	13.400	0.000	13.217	0.000	4.641	0.000	0.000	13.790	12.809	129.633	MWD+IFR1+MS
3700.000	0.000	0.000	3700.000	13.758	0.000	13.576	0.000	4.740	0.000	0.000	14.150	13.167	129.642	MWD+IFR1+MS
3800.000	2.385	252.982	3799.971	14.214	-0.000	13.822	0.000	4.841	0.000	0.000	14.485	13.548	130.707	MWD+IFR1+MS
3900.000	4.771	252.982	3899.769	14.762	-0.000	14.166	0.000	4.944	0.000	0.000	14.957	14.004	-40.980	MWD+IFR1+MS
4000.000	7.156	252.982	3999.221	15.274	-0.000	14.511	0.000	5.052	0.000	0.000	15.453	14.420	-34.023	MWD+IFR1+MS
4100.000	9.542	252.982	4098.154	15.751	-0.000	14.857	0.000	5.167	0.000	0.000	15.961	14.808	-28.722	MWD+IFR1+MS
4200.000	11.927	252.982	4196.397	16.193	-0.000	15.204	0.000	5.292	0.000	0.000	16.469	15.179	-24.799	MWD+IFR1+MS
4300.000	14.312	252.982	4293.779	16.603	-0.000	15.551	0.000	5.428	0.000	0.000	16.971	15.540	-21.876	MWD+IFR1+MS
4400.000	16.698	252.982	4390.133	16.980	-0.000	15.900	0.000	5.579	0.000	0.000	17.465	15.897	-19.646	MWD+IFR1+MS
4500.000	19.083	252.982	4485.291	17.327	-0.000	16.251	0.000	5.746	0.000	0.000	17.947	16.250	-17.897	MWD+IFR1+MS
4600.000	21.469	252.982	4579.088	17.643	-0.000	16.604	0.000	5.930	0.000	0.000	18.417	16.604	-16.483	MWD+IFR1+MS
4645.622	22.557	252.982	4621.383	17.702	-0.000	16.762	0.000	5.985	0.000	0.000	18.566	16.762	-16.365	MWD+IFR1+MS
4700.000	22.557	252.982	4671.601	17.869	-0.000	16.951	0.000	6.051	0.000	0.000	18.723	16.951	-16.340	MWD+IFR1+MS
4800.000	22.557	252.982	4763.951	18.178	-0.000	17.308	0.000	6.181	0.000	0.000	19.009	17.308	-16.208	MWD+IFR1+MS
4900.000	22.557	252.982	4856.301	18.496	-0.000	17.674	0.000	6.317	0.000	0.000	19.303	17.673	-15.930	MWD+IFR1+MS
5000.000	22.557	252.982	4948.651	18.819	-0.000	18.044	0.000	6.458	0.000	0.000	19.603	18.043	-15.627	MWD+IFR1+MS
5100.000	22.557	252.982	5041.001	19.147	-0.000	18.418	0.000	6.604	0.000	0.000	19.906	18.417	-15.296	MWD+IFR1+MS
5200.000	22.557	252.982	5133.351	19.481	-0.000	18.797	0.000	6.754	0.000	0.000	20.214	18.795	-14.932	MWD+IFR1+MS
5300.000	22.557	252.982	5225.701	19.819	-0.000	19.178	0.000	6.908	0.000	0.000	20.526	19.175	-14.531	MWD+IFR1+MS
5400.000	22.557	252.982	5318.050	20.161	-0.000	19.563	0.000	7.067	0.000	0.000	20.842	19.560	-14.089	MWD+IFR1+MS
5500.000	22.557	252.982	5410.400	20.507	-0.000	19.951	0.000	7.230	0.000	0.000	21.162	19.947	-13.599	MWD+IFR1+MS
5600.000	22.557	252.982	5502.750	20.858	-0.000	20.342	0.000	7.396	0.000	0.000	21.486	20.336	-13.054	MWD+IFR1+MS
5700.000	22.557	252.982	5595.100	21.212	-0.000	20.736	0.000	7.566	0.000	0.000	21.813	20.729	-12.446	MWD+IFR1+MS
5800.000	22.557	252.982	5687.450	21.570	-0.000	21.132	0.000	7.740	0.000	0.000	22.143	21.124	-11.763	MWD+IFR1+MS
5900.000	22.557	252.982	5779.800	21.931	-0.000	21.531	0.000	7.916	0.000	0.000	22.477	21.521	-10.993	MWD+IFR1+MS
6000.000	22.557	252.982	5872.150	22.295	-0.000	21.933	0.000	8.097	0.000	0.000	22.814	21.920	-10.121	MWD+IFR1+MS
6100.000	22.557	252.982	5964.500	22.663	-0.000	22.336	0.000	8.280	0.000	0.000	23.155	22.320	-9.127	MWD+IFR1+MS
6200.000	22.557	252.982	6056.850	23.033	-0.000	22.742	0.000	8.466	0.000	0.000	23.499	22.723	-7.988	MWD+IFR1+MS

6300.000	22.557	252.982	6149.200	23.406	-0.000	23.150	0.000	8.656	0.000	0.000	23.846	23.126	-6.675	MWD+IFR1+MS
6400.000	22.557	252.982	6241.549	23.782	-0.000	23.560	0.000	8.848	0.000	0.000	24.196	23.531	-5.154	MWD+IFR1+MS
6500.000	22.557	252.982	6333.899	24.160	-0.000	23.971	0.000	9.043	0.000	0.000	24.550	23.936	-3.383	MWD+IFR1+MS
6600.000	22.557	252.982	6426.249	24.541	-0.000	24.384	0.000	9.241	0.000	0.000	24.908	24.342	-1.314	MWD+IFR1+MS
6700.000	22.557	252.982	6518.599	24.924	-0.000	24.799	0.000	9.441	0.000	0.000	25.269	24.748	1.106	MWD+IFR1+MS
6764.990	22.557	252.982	6578.617	25.172	-0.000	25.066	0.000	9.572	0.000	0.000	25.502	25.010	2.655	MWD+IFR1+MS
6800.000	21.722	252.982	6611.046	25.378	-0.000	25.209	0.000	9.644	0.000	0.000	25.628	25.151	3.471	MWD+IFR1+MS
6900.000	19.336	252.982	6704.688	26.002	-0.000	25.617	0.000	9.865	0.000	0.000	26.046	25.549	4.599	MWD+IFR1+MS
7000.000	16.951	252.982	6799.709	26.657	-0.000	26.021	0.000	10.099	0.000	0.000	26.538	25.943	4.124	MWD+IFR1+MS
7100.000	14.566	252.982	6895.944	27.260	-0.000	26.417	0.000	10.316	0.000	0.000	27.028	26.330	3.543	MWD+IFR1+MS
7200.000	12.180	252.982	6993.226	27.809	-0.000	26.805	0.000	10.517	0.000	0.000	27.515	26.710	2.939	MWD+IFR1+MS
7300.000	9.795	252.982	7091.385	28.304	-0.000	27.183	0.000	10.706	0.000	0.000	27.995	27.081	2.354	MWD+IFR1+MS
7400.000	7.409	252.982	7190.253	28.745	-0.000	27.551	0.000	10.884	0.000	0.000	28.469	27.443	1.811	MWD+IFR1+MS
7500.000	5.024	252.982	7289.658	29.130	-0.000	27.910	0.000	11.053	0.000	0.000	28.935	27.795	1.323	MWD+IFR1+MS
7600.000	2.639	252.982	7389.428	29.459	-0.000	28.259	0.000	11.215	0.000	0.000	29.390	28.138	0.893	MWD+IFR1+MS
7700.000	0.253	252.982	7489.388	29.734	-0.000	28.598	0.000	11.372	0.000	0.000	29.835	28.472	0.522	MWD+IFR1+MS
7710.612	0.000	0.000	7500.000	28.507	0.000	29.867	0.000	11.388	0.000	0.000	29.867	28.507	0.537	MWD+IFR1+MS
7800.000	0.000	0.000	7589.388	28.804	0.000	30.139	0.000	11.527	0.000	0.000	30.139	28.804	0.538	MWD+IFR1+MS
7900.000	0.000	0.000	7689.388	29.141	0.000	30.448	0.000	11.686	0.000	0.000	30.448	29.141	0.382	MWD+IFR1+MS
8000.000	0.000	0.000	7789.388	29.479	0.000	30.758	0.000	11.848	0.000	0.000	30.758	29.479	0.194	MWD+IFR1+MS
8100.000	0.000	0.000	7889.388	29.817	0.000	31.070	0.000	12.012	0.000	0.000	31.070	29.817	0.004	MWD+IFR1+MS
8200.000	0.000	0.000	7989.388	30.156	0.000	31.382	0.000	12.180	0.000	0.000	31.382	30.156	-0.191	MWD+IFR1+MS
8300.000	0.000	0.000	8089.388	30.495	0.000	31.696	0.000	12.351	0.000	0.000	31.696	30.495	-0.390	MWD+IFR1+MS
8400.000	0.000	0.000	8189.388	30.834	0.000	32.011	0.000	12.525	0.000	0.000	32.011	30.834	-0.593	MWD+IFR1+MS
8500.000	0.000	0.000	8289.388	31.174	0.000	32.326	0.000	12.703	0.000	0.000	32.326	31.174	-0.801	MWD+IFR1+MS
8600.000	0.000	0.000	8389.388	31.515	0.000	32.642	0.000	12.883	0.000	0.000	32.643	31.514	-1.013	MWD+IFR1+MS
8700.000	0.000	0.000	8489.388	31.855	0.000	32.960	0.000	13.067	0.000	0.000	32.960	31.855	-1.229	MWD+IFR1+MS
8800.000	0.000	0.000	8589.388	32.196	0.000	33.278	0.000	13.254	0.000	0.000	33.278	32.196	-1.450	MWD+IFR1+MS
8900.000	0.000	0.000	8689.388	32.538	0.000	33.596	0.000	13.444	0.000	0.000	33.597	32.537	-1.676	MWD+IFR1+MS
9000.000	0.000	0.000	8789.388	32.880	0.000	33.916	0.000	13.637	0.000	0.000	33.917	32.879	-1.906	MWD+IFR1+MS
9081.412	0.000	0.000	8870.800	33.157	0.000	34.176	0.000	13.797	0.000	0.000	34.177	33.156	-2.017	MWD+IFR1+MS
9100.000	1.487	179.644	8889.386	33.232	0.000	34.233	-0.000	13.834	0.000	0.000	34.234	33.217	-1.999	MWD+IFR1+MS
9200.000	9.487	179.644	8988.847	33.762	0.000	34.538	-0.000	14.057	0.000	0.000	34.543	33.971	-6.080	MWD+IFR1+MS

9300.000	17.487	179.644	9086.011	34.575	0.000	34.845	-0.000	14.426	0.000	0.000	35.490	34.816	101.422	MWD+IFR1+MS
9400.000	25.487	179.644	9178.985	34.846	0.000	35.146	-0.000	15.025	0.000	0.000	36.810	35.120	96.732	MWD+IFR1+MS
9500.000	33.487	179.644	9265.961	34.620	0.000	35.439	-0.000	15.906	0.000	0.000	37.949	35.409	95.813	MWD+IFR1+MS
9600.000	41.487	179.644	9345.246	33.963	0.000	35.721	-0.000	17.081	0.000	0.000	38.888	35.686	95.505	MWD+IFR1+MS
9700.000	49.487	179.644	9415.296	32.960	0.000	35.988	-0.000	18.520	0.000	0.000	39.623	35.949	95.391	MWD+IFR1+MS
9800.000	57.487	179.644	9474.748	31.726	0.000	36.239	-0.000	20.169	0.000	0.000	40.162	36.198	95.333	MWD+IFR1+MS
9900.000	65.487	179.644	9522.445	30.402	0.000	36.472	-0.000	21.963	0.000	0.000	40.522	36.431	95.250	MWD+IFR1+MS
10000.000	73.487	179.644	9557.458	29.159	0.000	36.686	-0.000	23.832	0.000	0.000	40.729	36.648	95.070	MWD+IFR1+MS
10100.000	81.487	179.644	9579.107	28.187	0.000	36.878	-0.000	25.713	0.000	0.000	40.820	36.845	94.705	MWD+IFR1+MS
10206.412	90.000	179.644	9586.997	27.879	0.000	37.056	-0.000	27.879	0.000	0.000	40.839	37.033	94.006	MWD+IFR1+MS
10300.000	90.000	179.644	9586.997	28.513	0.000	37.206	-0.000	28.513	0.000	0.000	40.839	37.191	93.172	MWD+IFR1+MS
10400.000	90.000	179.644	9586.997	28.759	0.000	37.380	-0.000	28.759	0.000	0.000	40.840	37.373	92.214	MWD+IFR1+MS
10500.000	90.000	179.644	9586.997	29.024	0.000	37.570	-0.000	29.024	0.000	0.000	40.844	37.567	91.163	MWD+IFR1+MS
10600.000	90.000	179.644	9586.997	29.307	0.000	37.774	-0.000	29.307	0.000	0.000	40.850	37.774	89.992	MWD+IFR1+MS
10700.000	90.000	179.644	9586.997	29.609	0.000	37.993	-0.000	29.609	0.000	0.000	40.860	37.992	88.663	MWD+IFR1+MS
10800.000	90.000	179.644	9586.997	29.928	0.000	38.225	-0.000	29.928	0.000	0.000	40.874	38.220	87.127	MWD+IFR1+MS
10900.000	90.000	179.644	9586.997	30.264	0.000	38.472	-0.000	30.264	0.000	0.000	40.893	38.457	85.314	MWD+IFR1+MS
11000.000	90.000	179.644	9586.997	30.616	0.000	38.732	-0.000	30.616	0.000	0.000	40.918	38.702	83.129	MWD+IFR1+MS
11100.000	90.000	179.644	9586.997	30.985	0.000	39.005	-0.000	30.985	0.000	0.000	40.951	38.952	80.437	MWD+IFR1+MS
11200.000	90.000	179.644	9586.997	31.368	0.000	39.291	-0.000	31.368	0.000	0.000	40.996	39.204	77.058	MWD+IFR1+MS
11300.000	90.000	179.644	9586.997	31.767	0.000	39.590	-0.000	31.767	0.000	0.000	41.058	39.452	72.772	MWD+IFR1+MS
11400.000	90.000	179.644	9586.997	32.180	0.000	39.902	-0.000	32.180	0.000	0.000	41.144	39.689	67.366	MWD+IFR1+MS
11500.000	90.000	179.644	9586.997	32.606	0.000	40.225	-0.000	32.606	0.000	0.000	41.263	39.905	60.801	MWD+IFR1+MS
11600.000	90.000	179.644	9586.997	33.045	0.000	40.561	-0.000	33.045	0.000	0.000	41.426	40.090	53.447	MWD+IFR1+MS
11700.000	90.000	179.644	9586.997	33.498	0.000	40.908	-0.000	33.498	0.000	0.000	41.638	40.238	46.105	MWD+IFR1+MS
11800.000	90.000	179.644	9586.997	33.962	0.000	41.266	-0.000	33.962	0.000	0.000	41.896	40.350	39.574	MWD+IFR1+MS
11900.000	90.000	179.644	9586.997	34.438	0.000	41.636	-0.000	34.438	0.000	0.000	42.194	40.435	34.218	MWD+IFR1+MS
12000.000	90.000	179.644	9586.997	34.925	0.000	42.016	-0.000	34.925	0.000	0.000	42.523	40.499	29.993	MWD+IFR1+MS
12100.000	90.000	179.644	9586.997	35.422	0.000	42.406	-0.000	35.422	0.000	0.000	42.877	40.550	26.687	MWD+IFR1+MS
12200.000	90.000	179.644	9586.997	35.930	0.000	42.807	-0.000	35.930	0.000	0.000	43.250	40.592	24.079	MWD+IFR1+MS
12300.000	90.000	179.644	9586.997	36.448	0.000	43.218	-0.000	36.448	0.000	0.000	43.640	40.627	21.990	MWD+IFR1+MS
12400.000	90.000	179.644	9586.997	36.975	0.000	43.638	-0.000	36.975	0.000	0.000	44.044	40.658	20.288	MWD+IFR1+MS
12500.000	90.000	179.644	9586.997	37.511	0.000	44.067	-0.000	37.511	0.000	0.000	44.461	40.686	18.877	MWD+IFR1+MS

12600.000	90.000	179.644	9586.997	38.056	0.000	44.505	-0.000	38.056	0.000	0.000	44.889	40.712	17.689	MWD+IFR1+MS
12700.000	90.000	179.644	9586.997	38.609	0.000	44.953	-0.000	38.609	0.000	0.000	45.328	40.737	16.674	MWD+IFR1+MS
12800.000	90.000	179.644	9586.997	39.170	0.000	45.408	-0.000	39.170	0.000	0.000	45.777	40.761	15.796	MWD+IFR1+MS
12900.000	90.000	179.644	9586.997	39.739	0.000	45.872	-0.000	39.739	0.000	0.000	46.235	40.784	15.029	MWD+IFR1+MS
13000.000	90.000	179.644	9586.997	40.315	0.000	46.344	-0.000	40.315	0.000	0.000	46.701	40.807	14.351	MWD+IFR1+MS
13100.000	90.000	179.644	9586.997	40.898	0.000	46.824	-0.000	40.898	0.000	0.000	47.177	40.830	13.747	MWD+IFR1+MS
13200.000	90.000	179.644	9586.997	41.487	0.000	47.311	-0.000	41.487	0.000	0.000	47.660	40.853	13.204	MWD+IFR1+MS
13300.000	90.000	179.644	9586.997	42.083	0.000	47.806	-0.000	42.083	0.000	0.000	48.151	40.875	12.714	MWD+IFR1+MS
13400.000	90.000	179.644	9586.997	42.685	0.000	48.307	-0.000	42.685	0.000	0.000	48.649	40.898	12.267	MWD+IFR1+MS
13500.000	90.000	179.644	9586.997	43.293	0.000	48.816	-0.000	43.293	0.000	0.000	49.154	40.921	11.859	MWD+IFR1+MS
13600.000	90.000	179.644	9586.997	43.906	0.000	49.331	-0.000	43.906	0.000	0.000	49.667	40.945	11.483	MWD+IFR1+MS
13700.000	90.000	179.644	9586.997	44.525	0.000	49.852	-0.000	44.525	0.000	0.000	50.186	40.969	11.136	MWD+IFR1+MS
13800.000	90.000	179.644	9586.997	45.149	0.000	50.380	-0.000	45.149	0.000	0.000	50.711	40.993	10.814	MWD+IFR1+MS
13900.000	90.000	179.644	9586.997	45.778	0.000	50.914	-0.000	45.778	0.000	0.000	51.242	41.017	10.514	MWD+IFR1+MS
14000.000	90.000	179.644	9586.997	46.411	0.000	51.453	-0.000	46.411	0.000	0.000	51.780	41.042	10.234	MWD+IFR1+MS
14100.000	90.000	179.644	9586.997	47.050	0.000	51.999	-0.000	47.050	0.000	0.000	52.323	41.068	9.971	MWD+IFR1+MS
14200.000	90.000	179.644	9586.997	47.692	0.000	52.550	-0.000	47.692	0.000	0.000	52.871	41.093	9.725	MWD+IFR1+MS
14300.000	90.000	179.644	9586.997	48.339	0.000	53.106	-0.000	48.339	0.000	0.000	53.425	41.120	9.492	MWD+IFR1+MS
14400.000	90.000	179.644	9586.997	48.990	0.000	53.667	-0.000	48.990	0.000	0.000	53.984	41.146	9.272	MWD+IFR1+MS
14500.000	90.000	179.644	9586.997	49.644	0.000	54.233	-0.000	49.644	0.000	0.000	54.549	41.173	9.065	MWD+IFR1+MS
14600.000	90.000	179.644	9586.997	50.303	0.000	54.805	-0.000	50.303	0.000	0.000	55.118	41.201	8.867	MWD+IFR1+MS
14700.000	90.000	179.644	9586.997	50.965	0.000	55.380	-0.000	50.965	0.000	0.000	55.692	41.229	8.680	MWD+IFR1+MS
14800.000	90.000	179.644	9586.997	51.630	0.000	55.961	-0.000	51.630	0.000	0.000	56.270	41.258	8.501	MWD+IFR1+MS
14900.000	90.000	179.644	9586.997	52.299	0.000	56.546	-0.000	52.299	0.000	0.000	56.853	41.287	8.331	MWD+IFR1+MS
15000.000	90.000	179.644	9586.997	52.971	0.000	57.135	-0.000	52.971	0.000	0.000	57.440	41.316	8.169	MWD+IFR1+MS
15100.000	90.000	179.644	9586.997	53.646	0.000	57.728	-0.000	53.646	0.000	0.000	58.031	41.347	8.013	MWD+IFR1+MS
15200.000	90.000	179.644	9586.997	54.324	0.000	58.325	-0.000	54.324	0.000	0.000	58.627	41.377	7.864	MWD+IFR1+MS
15300.000	90.000	179.644	9586.997	55.005	0.000	58.926	-0.000	55.005	0.000	0.000	59.226	41.408	7.721	MWD+IFR1+MS
15400.000	90.000	179.644	9586.997	55.688	0.000	59.531	-0.000	55.688	0.000	0.000	59.829	41.440	7.584	MWD+IFR1+MS
15500.000	90.000	179.644	9586.997	56.374	0.000	60.140	-0.000	56.374	0.000	0.000	60.436	41.472	7.452	MWD+IFR1+MS
15600.000	90.000	179.644	9586.997	57.063	0.000	60.752	-0.000	57.063	0.000	0.000	61.046	41.505	7.326	MWD+IFR1+MS
15700.000	90.000	179.644	9586.997	57.754	0.000	61.368	-0.000	57.754	0.000	0.000	61.660	41.538	7.203	MWD+IFR1+MS
15800.000	90.000	179.644	9586.997	58.448	0.000	61.986	-0.000	58.448	0.000	0.000	62.277	41.571	7.086	MWD+IFR1+MS

15900.000	90.000	179.644	9586.997	59.143	0.000	62.609	-0.000	59.143	0.000	62.897	41.606	6.972	MWD+IFR1+MS
16000.000	90.000	179.644	9586.997	59.841	0.000	63.234	-0.000	59.841	0.000	63.521	41.640	6.862	MWD+IFR1+MS
16100.000	90.000	179.644	9586.997	60.542	0.000	63.862	-0.000	60.542	0.000	64.147	41.675	6.756	MWD+IFR1+MS
16200.000	90.000	179.644	9586.997	61.244	0.000	64.494	-0.000	61.244	0.000	64.777	41.711	6.653	MWD+IFR1+MS
16300.000	90.000	179.644	9586.997	61.948	0.000	65.128	-0.000	61.948	0.000	65.409	41.747	6.554	MWD+IFR1+MS
16400.000	90.000	179.644	9586.997	62.654	0.000	65.765	-0.000	62.654	0.000	66.044	41.784	6.458	MWD+IFR1+MS
16500.000	90.000	179.644	9586.997	63.362	0.000	66.405	-0.000	63.362	0.000	66.682	41.821	6.364	MWD+IFR1+MS
16600.000	90.000	179.644	9586.997	64.072	0.000	67.047	-0.000	64.072	0.000	67.323	41.859	6.274	MWD+IFR1+MS
16700.000	90.000	179.644	9586.997	64.783	0.000	67.692	-0.000	64.783	0.000	67.966	41.897	6.186	MWD+IFR1+MS
16800.000	90.000	179.644	9586.997	65.496	0.000	68.339	-0.000	65.496	0.000	68.612	41.935	6.101	MWD+IFR1+MS
16900.000	90.000	179.644	9586.997	66.211	0.000	68.989	-0.000	66.211	0.000	69.260	41.974	6.018	MWD+IFR1+MS
17000.000	90.000	179.644	9586.997	66.927	0.000	69.641	-0.000	66.927	0.000	69.910	42.014	5.937	MWD+IFR1+MS
17100.000	90.000	179.644	9586.997	67.645	0.000	70.296	-0.000	67.645	0.000	70.563	42.054	5.859	MWD+IFR1+MS
17200.000	90.000	179.644	9586.997	68.364	0.000	70.953	-0.000	68.364	0.000	71.218	42.095	5.783	MWD+IFR1+MS
17300.000	90.000	179.644	9586.997	69.085	0.000	71.612	-0.000	69.085	0.000	71.875	42.136	5.709	MWD+IFR1+MS
17400.000	90.000	179.644	9586.997	69.807	0.000	72.272	-0.000	69.807	0.000	72.535	42.177	5.636	MWD+IFR1+MS
17500.000	90.000	179.644	9586.997	70.531	0.000	72.936	-0.000	70.531	0.000	73.196	42.219	5.566	MWD+IFR1+MS
17600.000	90.000	179.644	9586.997	71.255	0.000	73.601	-0.000	71.255	0.000	73.859	42.262	5.497	MWD+IFR1+MS
17700.000	90.000	179.644	9586.997	71.982	0.000	74.267	-0.000	71.982	0.000	74.525	42.305	5.430	MWD+IFR1+MS
17800.000	90.000	179.644	9586.997	72.709	0.000	74.936	-0.000	72.709	0.000	75.192	42.348	5.365	MWD+IFR1+MS
17900.000	90.000	179.644	9586.997	73.437	0.000	75.607	-0.000	73.437	0.000	75.861	42.392	5.301	MWD+IFR1+MS
18000.000	90.000	179.644	9586.997	74.167	0.000	76.279	-0.000	74.167	0.000	76.532	42.437	5.239	MWD+IFR1+MS
18100.000	90.000	179.644	9586.997	74.897	0.000	76.954	-0.000	74.897	0.000	77.204	42.482	5.178	MWD+IFR1+MS
18200.000	90.000	179.644	9586.997	75.629	0.000	77.630	-0.000	75.629	0.000	77.879	42.527	5.119	MWD+IFR1+MS
18300.000	90.000	179.644	9586.997	76.362	0.000	78.307	-0.000	76.362	0.000	78.555	42.573	5.061	MWD+IFR1+MS
18400.000	90.000	179.644	9586.997	77.096	0.000	78.986	-0.000	77.096	0.000	79.232	42.619	5.004	MWD+IFR1+MS
18500.000	90.000	179.644	9586.997	77.831	0.000	79.667	-0.000	77.831	0.000	79.912	42.666	4.949	MWD+IFR1+MS
18600.000	90.000	179.644	9586.997	78.566	0.000	80.349	-0.000	78.566	0.000	80.592	42.713	4.894	MWD+IFR1+MS
18700.000	90.000	179.644	9586.997	79.303	0.000	81.033	-0.000	79.303	0.000	81.275	42.761	4.841	MWD+IFR1+MS
18800.000	90.000	179.644	9586.997	80.041	0.000	81.718	-0.000	80.041	0.000	81.958	42.809	4.789	MWD+IFR1+MS
18900.000	90.000	179.644	9586.997	80.779	0.000	82.405	-0.000	80.779	0.000	82.643	42.857	4.738	MWD+IFR1+MS
19000.000	90.000	179.644	9586.997	81.519	0.000	83.093	-0.000	81.519	0.000	83.330	42.907	4.689	MWD+IFR1+MS
19100.000	90.000	179.644	9586.997	82.259	0.000	83.782	-0.000	82.259	0.000	84.018	42.956	4.640	MWD+IFR1+MS

19200.000	90.000	179.644	9586.997	83.000	0.000	84.473	-0.000	83.000	0.000	0.000	84.707	43.006	4.592	MWD+IFR1+MS
19300.000	90.000	179.644	9586.997	83.742	0.000	85.165	-0.000	83.742	0.000	0.000	85.398	43.056	4.545	MWD+IFR1+MS
19400.000	90.000	179.644	9586.997	84.485	0.000	85.858	-0.000	84.485	0.000	0.000	86.089	43.107	4.499	MWD+IFR1+MS
19500.000	90.000	179.644	9586.997	85.228	0.000	86.552	-0.000	85.228	0.000	0.000	86.782	43.159	4.454	MWD+IFR1+MS
19600.000	90.000	179.644	9586.997	85.972	0.000	87.248	-0.000	85.972	0.000	0.000	87.477	43.210	4.410	MWD+IFR1+MS
19700.000	90.000	179.644	9586.997	86.717	0.000	87.945	-0.000	86.717	0.000	0.000	88.172	43.263	4.367	MWD+IFR1+MS
19800.000	90.000	179.644	9586.997	87.463	0.000	88.643	-0.000	87.463	0.000	0.000	88.869	43.315	4.324	MWD+IFR1+MS
19900.000	90.000	179.644	9586.997	88.209	0.000	89.342	-0.000	88.209	0.000	0.000	89.566	43.368	4.283	MWD+IFR1+MS
20000.000	90.000	179.644	9586.997	88.956	0.000	90.042	-0.000	88.956	0.000	0.000	90.265	43.422	4.242	MWD+IFR1+MS
20100.000	90.000	179.644	9586.997	89.703	0.000	90.743	-0.000	89.703	0.000	0.000	90.965	43.476	4.201	MWD+IFR1+MS
20200.000	90.000	179.644	9586.997	90.451	0.000	91.445	-0.000	90.451	0.000	0.000	91.666	43.530	4.162	MWD+IFR1+MS
20300.000	90.000	179.644	9586.997	91.200	0.000	92.148	-0.000	91.200	0.000	0.000	92.368	43.585	4.123	MWD+IFR1+MS
20400.000	90.000	179.644	9586.997	91.950	0.000	92.853	-0.000	91.950	0.000	0.000	93.071	43.640	4.085	MWD+IFR1+MS
20500.000	90.000	179.644	9586.997	92.700	0.000	93.558	-0.000	92.700	0.000	0.000	93.774	43.696	4.048	MWD+IFR1+MS
20600.000	90.000	179.644	9586.997	93.450	0.000	94.264	-0.000	93.450	0.000	0.000	94.479	43.752	4.011	MWD+IFR1+MS
20700.000	90.000	179.644	9586.997	94.201	0.000	94.971	-0.000	94.201	0.000	0.000	95.185	43.809	3.975	MWD+IFR1+MS
20800.000	90.000	179.644	9586.997	94.953	0.000	95.679	-0.000	94.953	0.000	0.000	95.892	43.866	3.939	MWD+IFR1+MS
20900.000	90.000	179.644	9586.997	95.705	0.000	96.388	-0.000	95.705	0.000	0.000	96.599	43.923	3.905	MWD+IFR1+MS
21000.000	90.000	179.644	9586.997	96.458	0.000	97.097	-0.000	96.458	0.000	0.000	97.308	43.981	3.870	MWD+IFR1+MS
21100.000	90.000	179.644	9586.997	97.211	0.000	97.808	-0.000	97.211	0.000	0.000	98.017	44.039	3.836	MWD+IFR1+MS
21200.000	90.000	179.644	9586.997	97.965	0.000	98.519	-0.000	97.965	0.000	0.000	98.727	44.098	3.803	MWD+IFR1+MS
21300.000	90.000	179.644	9586.997	98.719	0.000	99.231	-0.000	98.719	0.000	0.000	99.438	44.157	3.771	MWD+IFR1+MS
21400.000	90.000	179.644	9586.997	99.473	0.000	99.944	-0.000	99.473	0.000	0.000	100.150	44.216	3.739	MWD+IFR1+MS
21500.000	90.000	179.644	9586.997	100.229	0.000	100.658	-0.000	100.229	0.000	0.000	100.863	44.276	3.707	MWD+IFR1+MS
21600.000	90.000	179.644	9586.997	100.984	0.000	101.372	-0.000	100.984	0.000	0.000	101.576	44.337	3.676	MWD+IFR1+MS
21700.000	90.000	179.644	9586.997	101.740	0.000	102.088	-0.000	101.740	0.000	0.000	102.290	44.397	3.645	MWD+IFR1+MS
21800.000	90.000	179.644	9586.997	102.497	0.000	102.804	-0.000	102.497	0.000	0.000	103.005	44.458	3.615	MWD+IFR1+MS
21900.000	90.000	179.644	9586.997	103.253	0.000	103.520	-0.000	103.253	0.000	0.000	103.720	44.520	3.585	MWD+IFR1+MS
22000.000	90.000	179.644	9586.997	104.011	0.000	104.238	-0.000	104.011	0.000	0.000	104.437	44.582	3.556	MWD+IFR1+MS
22100.000	90.000	179.644	9586.997	104.768	0.000	104.956	-0.000	104.768	0.000	0.000	105.153	44.644	3.527	MWD+IFR1+MS
22200.000	90.000	179.644	9586.997	105.527	0.000	105.674	-0.000	105.527	0.000	0.000	105.871	44.707	3.499	MWD+IFR1+MS
22300.000	90.000	179.644	9586.997	106.285	0.000	106.394	-0.000	106.285	0.000	0.000	106.589	44.770	3.471	MWD+IFR1+MS
22400.000	90.000	179.644	9586.997	107.044	0.000	107.114	-0.000	107.044	0.000	0.000	107.308	44.833	3.444	MWD+IFR1+MS

22481.219	90.000	179.644	9586.997	107.660	0.000	107.698	-0.000	107.660	0.000	0.000	107.892	44.885	3.422	MWD+IFR1+MS
22500.000	90.000	179.644	9586.997	107.802	0.000	107.833	-0.000	107.802	0.000	0.000	108.027	44.897	3.417	MWD+IFR1+MS
22571.234	90.000	179.644	9586.997	108.342	0.000	108.345	-0.000	108.342	0.000	0.000	108.538	44.943	3.398	MWD+IFR1+MS

Poker Lake Unit 21 DTD South 107H

Plan Targets														
Target Name	Measured Depth			Grid Northing			Grid Easting			TVD MSL		Target Shape		
FTP 15	9901.22			440443.00			639790.60			6158.00		RECTANGLE		
SHL 17	11910.30			440850.13			640922.32			7537.00		RECTANGLE		
LTP 15	22481.80			427452.20			639871.90			6158.00		RECTANGLE		
BHL 15	22571.66			427362.20			639872.30			6158.00		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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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 380683

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 380683
	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.	9/18/2024
ward.rikala	Operator must comply with all R-111-Q requirements.	9/18/2024
ward.rikala	NSL/NSP may be required.	9/18/2024