

Lease Number: NMLC0068431

Unit or CA Name: POKER LAKE UNIT

Unit or CA Number:  
NMNM71016X

US Well Number: 3001553255

Operator: XTO PERMIAN OPERATING  
LLC

## Notice of Intent

Sundry ID: 2784125

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 04/09/2024

Time Sundry Submitted: 01:16

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 & 1425' FEL OF SECTION 21-T24S-R30E 1367' FNL & 1426' FEL OF SECTION 21-T24S-R30E FTP: 382' FNL & 2122' FEL OF SECTION 21-T24S-R30E 100' FNL & 2084' FEL OF SECTION 21-T24S-R30E LTP: 329' FNL & 2076' FEL OF SECTION 33-T23S-R30E 2539' FNL & 2080' FEL OF SECTION 33-T24S-R30E BHL: 200' FNL & 2075' FEL OF SECTION 33-T23S-R30E 2629' FNL & 2081' FEL OF SECTION 33-T24S-R30E The proposed total depth is changing from 33692' MD; 11986' TVD (Wolfcamp) to 24990' MD; 11890' TVD (Wolfcamp D). 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\_155H\_Sundry\_Documents\_20240726152045.pdf

**US Well Number:** 3001553255

**Operator:** XTO PERMIAN OPERATING  
LLC

### Conditions of Approval

#### Additional

Poker\_Lake\_Unit\_21\_DTD\_155H\_COA\_20240911084143.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 03:20 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.***

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

<b>SUBMIT IN TRIPLICATE - Other instructions on page 2</b>		7. If Unit of CA/Agreement, Name and/or No. POKER LAKE UNIT/NMNM71016X
1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		8. Well Name and No. POKER LAKE UNIT 21 DTD/155H
2. Name of Operator XTO PERMIAN OPERATING LLC		9. API Well No. 3001553255
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				
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off	
	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity	
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other	
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon		
<input type="checkbox"/> Final Abandonment Notice	<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 SHL, FTP, LTP, BHL, Casing sizes, Cement, Proposed total Depth, and formation (Pool).

FROM: TO:  
SHL: 1557' FNL & 1425' FEL OF SECTION 21-T24S-R30E 1367' FNL & 1426' FEL OF SECTION 21-T24S-R30E  
FTP: 382' FNL & 2122' FEL OF SECTION 21-T24S-R30E 100' FNL & 2084' FEL OF SECTION 21-T24S-R30E  
LTP: 329' FNL & 2076' FEL OF SECTION 33-T23S-R30E 2539' FNL & 2080' FEL OF SECTION 33-T24S-R30E  
BHL: 200' FNL & 2075' FEL OF SECTION 33-T23S-R30E 2629' FNL & 2081' FEL OF SECTION 33-T24S-R30E

The proposed total depth is changing from 33692 MD; 11986 TVD (Wolfcamp) to 24990 MD; 11890 TVD (Wolfcamp D).

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 OFFICE 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 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

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 / 1425 FEL / TWSP: 24S / RANGE: 30E / SECTION: 21 / LAT: 32.206207 / LONG: -103.882197 ( TVD: 0 feet, MD: 0 feet )

PPP: NWNE / 382 FNL / 2122 FEL / TWSP: 24S / RANGE: 30E / SECTION: 21 / LAT: 32.209429 / LONG: -103.884449 ( TVD: 11986 feet, MD: 12400 feet )

BHL: NWNE / 200 FNL / 2075 FEL / TWSP: 23S / RANGE: 30E / SECTION: 33 / LAT: 32.268079 / LONG: -103.84301 ( TVD: 11986 feet, MD: 33692 feet )

## PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

<b>OPERATOR'S NAME:</b> XTO <b>LEASE NO.:</b> NMLC068431 <b>LOCATION:</b> Sec. 21, T.24 S, R 30 E <b>COUNTY:</b> <span style="border: 1px solid black; padding: 2px;">Eddy County, New Mexico ▼</span>
<b>WELL NAME &amp; NO.:</b> Poker Lake Unit 21 DTD 155H <b>SURFACE HOLE FOOTAGE:</b> 1367'N & 1426'E <b>BOTTOM HOLE FOOTAGE:</b> 2629'N & 2081'E

Changes approved through engineering via **Sundry 2784125** on 9-11-2024. Any previous COAs not addressed within the updated COAs still apply.

COA

H <sub>2</sub> S	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	Casing Clearance	Pilot Hole	Break Testing
	Four-String	Offline Cementing	Fluid-Filled	

### A. HYDROGEN SULFIDE

Hydrogen Sulfide (H<sub>2</sub>S) monitors shall be installed prior to drilling out the surface shoe. If H<sub>2</sub>S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet 43 CFR 3176 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

### B. CASING

1. The 13-3/8 inch surface casing shall be set at approximately **1104** feet (a minimum of **70 feet** (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.
  - a. If cement does not circulate to the surface, the appropriate BLM office shall be

notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.

- b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or **500 pounds compressive strength**, whichever is greater. (This is to include the lead cement)
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.

2. The minimum required fill of cement behind the **9-5/8** inch intermediate casing is: Operator has proposed to cement in two stages by conventionally cementing the first stage and performing a bradenhead squeeze on the second stage, contingent upon no returns to surface.

- a. **First stage:** Operator will cement with intent to reach the top of the **Brushy Canyon at 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.**

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

Operator has proposed to pump down **Surface X Intermediate 1** annulus after primary cementing stage. **Operator must run Echo-meter to verify Cement Slurry/Fluid top in the annulus OR operator shall run a CBL from TD of the 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.

3. The minimum required fill of cement behind the **5-1/2** inch production casing is:
  - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

## C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).
2. Operator has proposed a multi-bowl wellhead assembly. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.
  - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
  - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
  - c. Manufacturer representative shall install the test plug for the initial BOP test.
  - d. If the cement does not circulate and one-inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
  - e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172 must be followed.

## D. SPECIAL REQUIREMENT (S)

### Unit Wells

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

### Commercial Well Determination

A commercial well determination shall be submitted after production has been established for at least six months. **(This is not necessary for secondary recovery unit wells)**

### BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for intervals utilizing a 5M BOPE or less. **(Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP.)**
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer **(575-706-2779)** prior to the commencement of any BOPE Break Testing operations.

- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-361-2822 Eddy County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per 43 CFR 3172.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

### **Offline Cementing**

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

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

### **Casing Clearance**

String does not meet 0.422" clearance requirement per 43 CFR 3172. Cement tieback requirement increased 100' for 1st 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 2<sup>nd</sup> 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 2<sup>nd</sup> 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](mailto:zstevens@blm.gov)

## WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number <b>30-015- 5325</b>	<sup>2</sup> Pool Code <b>98220</b>	<sup>3</sup> Pool Name <b>PURPLE SAGE;WOLFCAMP</b>
<sup>4</sup> Property Code <b>33357</b>	<sup>5</sup> Property Name <b>POKER LAKE UNIT 21 DTD</b>	<sup>6</sup> Well Number <b>155H</b>
<sup>7</sup> OGRID No. <b>373075</b>	<sup>8</sup> Operator Name <b>XTO PERMIAN OPERATING, LLC.</b>	<sup>9</sup> Elevation <b>3,377'</b>

<sup>10</sup> Surface Location

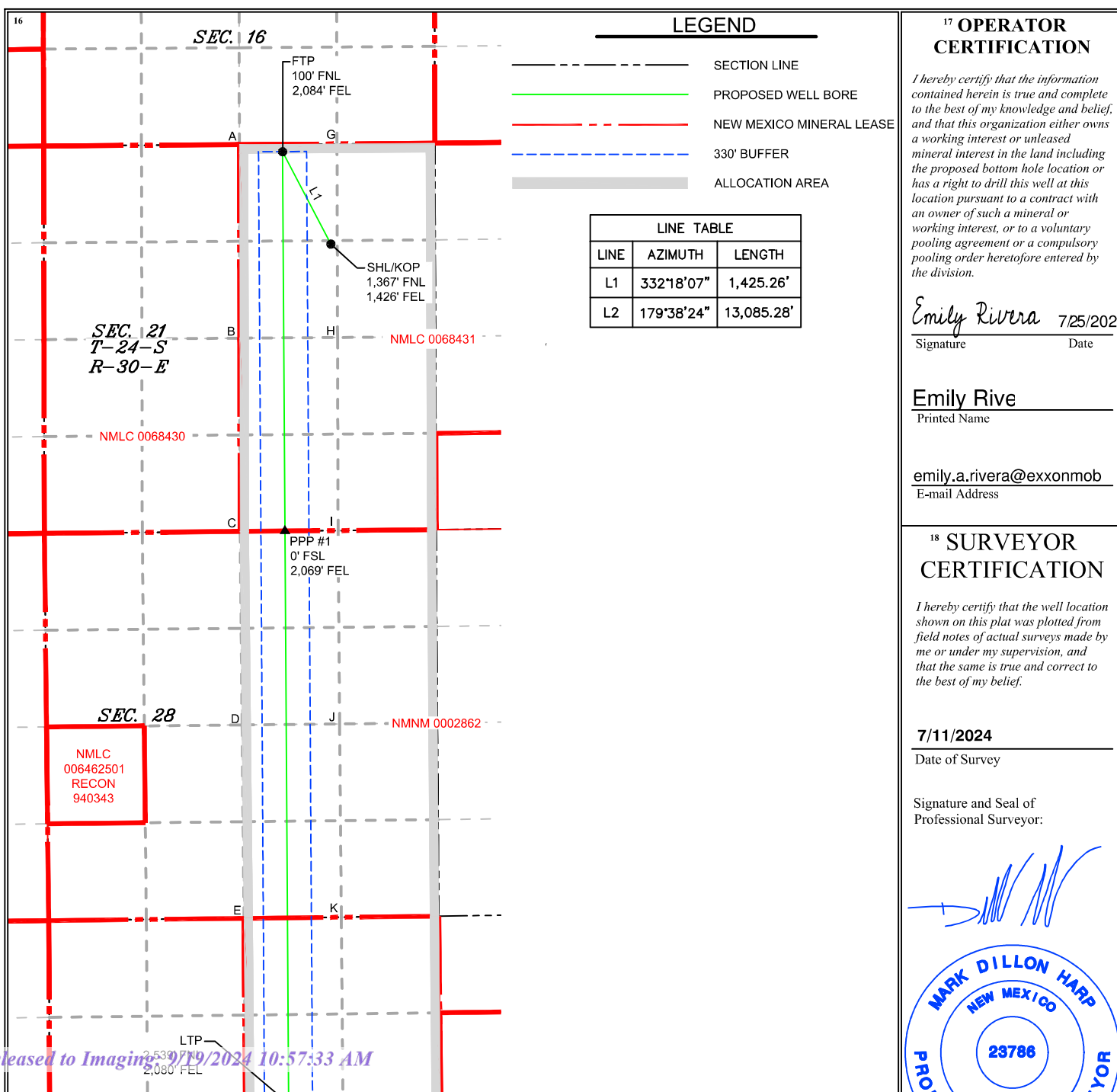
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<b>G</b>	<b>21</b>	<b>24S</b>	<b>30E</b>		<b>1,367</b>	<b>NORTH</b>	<b>1,426</b>	<b>EAST</b>	<b>EDDY</b>

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

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<b>G</b>	<b>33</b>	<b>24S</b>	<b>30E</b>		<b>2,629</b>	<b>NORTH</b>	<b>2,081</b>	<b>EAST</b>	<b>EDDY</b>

<sup>12</sup> Dedicated Acres <b>800.00</b>	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> 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.



Intent ☒ As Drilled ☐

API # 30-15-		
Operator Name: XTO PERMAIN OPERATING, LLC.	Property Name: POKER LAKE UNIT 21 DTD	Well Number 155H

## Kick Off Point (KOP)

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

## First Take Point (FTP)

UL B	Section 21	Township 24S	Range 30E	Lot	Feet 100	From N/S NORTH	Feet 2,084	From E/W EAST	County EDDY
Latitude 32.210205					Longitude -103.884324				NAD 83

## Last Take Point (LTP)

UL G	Section 33	Township 24S	Range 30E	Lot	Feet 2,539	From N/S NORTH	Feet 2,080	From E/W EAST	County EDDY
Latitude 32.174483					Longitude -103.884235				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 155H  
Projected TD: 24937' MD / 11963' TVD  
SHL: 1367' FNL & 1426' FEL , Section 21, T24S, R30E  
BHL: 2629' FNL & 2081' 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
3rd Bone Spring	9784'	Water/Oil/Gas
Wolfcamp	10969'	Water/Oil/Gas
Wolfcamp X	10990'	Water/Oil/Gas
Wolfcamp Y	11071'	Water/Oil/Gas
Wolfcamp A	11118'	Water/Oil/Gas
Wolfcamp B	11501'	Water/Oil/Gas
Wolfcamp C	11706'	Water/Oil/Gas
Wolfcamp D	11933'	Water/Oil/Gas
<b>Target/Land Curve</b>	<b>11963'</b>	<b>Water/Oil/Gas</b>

\*\*\* Hydrocarbons @ Brushy Canyon

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

No other formations are expected to yield oil, gas or fresh water in measurable volumes. The surface fresh water sands will be protected by setting 9.625 inch casing @ 1104' (303' above the salt) and circulating cement back to surface. The intermediate will isolate from the top of salt down to the next casing seat by setting 7.625 inch casing at 11244' and cemented to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 24937 MD/TD and 5.5 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 10944 feet).

**3. Casing Design**

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0' – 1104'	9.625	40	J-55	BTC	New	1.48	5.70	14.27
8.75	0' – 4000'	7.625	29.7	RY P-110	Flush Joint	New	1.86	2.92	1.67
8.75	4000' – 11244'	7.625	29.7	HC L-80	Flush Joint	New	1.35	2.13	1.89
6.75	0' – 11144'	5.5	20	RY P-110	Semi-Premium	New	1.05	1.54	1.90
6.75	11144' - 24937'	5.5	20	RY P-110	Semi-Flush	New	1.05	1.44	1.90

· XTO requests the option to utilize a spudder rig (Atlas Copco RD20 or Equivalent) to set and cement surface casing per this Sundry

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

**Wellhead:**

Permanent Wellhead – Multibowl System

A. Starting Head: 20" 10M top flange x 9-5/8" bottom

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

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

#### 4. Cement Program

##### **Surface Casing: 9.625, 40 New BTC, J-55 casing to be set at +/- 1104'**

Lead: 260 sxs EconoCem-HLTRRC (mixed at 10.5 ppg, 1.87 ft<sup>3</sup>/sx, 10.13 gal/sx water)

Tail: 130 sxs Class C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft<sup>3</sup>/sx, 6.39 gal/sx water)

Top of Cement: Surface

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

##### **2nd Intermediate Casing: 7.625, 29.7 New casing to be set at +/- 11244'**

###### 1st Stage

Optional Lead: 340 sxs Class C (mixed at 10.5 ppg, 2.77 ft<sup>3</sup>/sx, 15.59 gal/sx water)

TOC: Surface

Tail: 450 sxs Class C (mixed at 14.8 ppg, 1.35 ft<sup>3</sup>/sx, 6.39 gal/sx water)

TOC: Brushy Canyon @ 6340

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

###### 2nd Stage

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

Tail: 710 sxs Class C (mixed at 14.8 ppg, 1.33 ft<sup>3</sup>/sx, 6.39 gal/sx water)

Top of Cement: 0

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

XTO requests to pump a two stage cement job on the 7-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brush Canyon (6340') and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If cement is not visually confirmed to circulate to surface, the final cement top after the second stage job will be verified by Echo-meter. If necessary, a top out consisting of 1,500 sack of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. If cement is still unable to circulate to surface, another Echo-meter run will be performed for cement top verification.

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

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

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

##### **Production Casing: 5.5, 20 New Semi-Flush, RY P-110 casing to be set at +/- 24937'**

Lead: 20 sxs NeoCem (mixed at 13.2 ppg, 2.69 ft<sup>3</sup>/sx, 15.00 gal/sx water) Top of Cement: 10944 feet

Tail: 970 sxs VersaCem (mixed at 14.5 ppg, 1.51 ft<sup>3</sup>/sx, 8.38 gal/sx water) Top of Cement: 11444 feet

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

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

## 5. Pressure Control Equipment

Once the permanent WH is installed on the 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 limited to 50% of the working pressure. When nipping up on the 9.625, 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

FW / Cut Brine / Direct Emulsion	8.8-9.3
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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 9.625 casing.

8. Logging, Coring and Testing Program

Open hole logging will not be done on this well.

9. Abnormal Pressures and Temperatures / Potential Hazards

None Anticipated. BHT of 185 to 205 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 7714 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 155H

Measured Depth: 24937.45 ft  
TVD RKB: 11963.00 ft  
Location  
Cartographic Reference System: New Mexico East - NAD 27  
Northing: 439175.60 ft  
Easting: 639686.00 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 155H

Measured		TVD			Build		Turn		Dogleg	
Depth	Inclination	Azimuth	RKB	Y Offset	X Offset	Rate	Rate	Rate	Rate	Rate
(ft)	(Deg)	(Deg)	(ft)	(ft)	(ft)	(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
1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1933.28	16.67	332.30	1921.58	106.55	-55.93	2.00	0.00	0.00	2.00	0.00
6063.62	16.67	332.30	5878.42	1155.35	-606.47	0.00	0.00	0.00	0.00	0.00
6896.90	0.00	0.00	6700.00	1261.90	-662.40	-2.00	0.00	0.00	2.00	0.00
11443.70	0.00	0.00	11246.80	1261.90	-662.40	0.00	0.00	0.00	0.00	0.00
12568.70	90.00	179.64	11963.00	545.72	-657.93	8.00	0.00	0.00	8.00	0.00
24847.58	90.00	179.64	11963.00	-11732.92	-581.20	0.00	0.00	0.00	0.00	LTP 27
24937.45	90.00	179.64	11963.00	-11822.80	-580.64	0.00	0.00	0.00	0.00	BHL 27

Position Uncertainty Poker Lake Unit 21 DTD South 155H

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	2.581	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	2.000	332.304	1199.980	4.540	0.000	4.969	0.000	2.691	0.000	5.194	0.000	4.284	4.284	121.356	MWD+IFR1+MS
1300.000	4.000	332.304	1299.838	5.399	0.000	5.305	0.000	2.751	0.000	5.829	0.000	4.837	4.837	104.334	MWD+IFR1+MS
1400.000	6.000	332.304	1399.452	6.154	0.000	5.642	0.000	2.817	0.000	6.508	0.000	5.248	5.248	94.860	MWD+IFR1+MS
1500.000	8.000	332.304	1498.702	6.836	0.000	5.982	0.000	2.890	0.000	7.170	0.000	5.613	5.613	89.937	MWD+IFR1+MS
1600.000	10.000	332.304	1597.465	7.466	0.000	6.324	0.000	2.973	0.000	7.800	0.000	5.961	5.961	87.110	MWD+IFR1+MS
1700.000	12.000	332.304	1695.623	8.054	0.000	6.668	0.000	3.067	0.000	8.400	0.000	6.305	6.305	85.333	MWD+IFR1+MS
1800.000	14.000	332.304	1793.055	8.607	0.000	7.015	0.000	3.175	0.000	8.973	0.000	6.647	6.647	84.144	MWD+IFR1+MS
1900.000	16.000	332.304	1889.643	9.132	0.000	7.366	0.000	3.299	0.000	9.523	0.000	6.991	6.991	83.317	MWD+IFR1+MS
1933.278	16.666	332.304	1921.578	9.218	0.000	7.476	0.000	3.320	0.000	9.626	0.000	7.106	7.106	83.288	MWD+IFR1+MS
2000.000	16.666	332.304	1985.497	9.409	0.000	7.700	0.000	3.377	0.000	9.809	0.000	7.335	7.335	83.394	MWD+IFR1+MS
2100.000	16.666	332.304	2081.297	9.703	0.000	8.053	0.000	3.471	0.000	10.097	0.000	7.689	7.689	83.777	MWD+IFR1+MS
2200.000	16.666	332.304	2177.096	10.012	0.000	8.417	0.000	3.571	0.000	10.401	0.000	8.049	8.049	84.264	MWD+IFR1+MS
2300.000	16.666	332.304	2272.896	10.327	0.000	8.784	0.000	3.674	0.000	10.711	0.000	8.412	8.412	84.745	MWD+IFR1+MS
2400.000	16.666	332.304	2368.695	10.650	0.000	9.154	0.000	3.781	0.000	11.027	0.000	8.778	8.778	85.220	MWD+IFR1+MS
2500.000	16.666	332.304	2464.495	10.978	0.000	9.527	0.000	3.891	0.000	11.348	0.000	9.146	9.146	85.690	MWD+IFR1+MS
2600.000	16.666	332.304	2560.294	11.311	0.000	9.901	0.000	4.005	0.000	11.675	0.000	9.516	9.516	86.153	MWD+IFR1+MS
2700.000	16.666	332.304	2656.094	11.650	0.000	10.277	0.000	4.122	0.000	12.006	0.000	9.888	9.888	86.611	MWD+IFR1+MS
2800.000	16.666	332.304	2751.893	11.994	0.000	10.656	0.000	4.241	0.000	12.342	0.000	10.261	10.261	87.062	MWD+IFR1+MS
2900.000	16.666	332.304	2847.693	12.341	0.000	11.035	0.000	4.363	0.000	12.681	0.000	10.636	10.636	87.508	MWD+IFR1+MS

3000.000	16.666	332.304	2943.492	12.693	0.000	11.416	0.000	4.487	0.000	0.000	13.024	11.013	87.947	MWD+IFR1+MS
3100.000	16.666	332.304	3039.292	13.048	0.000	11.799	0.000	4.614	0.000	0.000	13.370	11.390	88.379	MWD+IFR1+MS
3200.000	16.666	332.304	3135.091	13.406	0.000	12.182	0.000	4.743	0.000	0.000	13.719	11.769	88.806	MWD+IFR1+MS
3300.000	16.666	332.304	3230.891	13.767	0.000	12.567	0.000	4.874	0.000	0.000	14.072	12.148	89.226	MWD+IFR1+MS
3400.000	16.666	332.304	3326.690	14.131	0.000	12.952	0.000	5.007	0.000	0.000	14.427	12.529	89.640	MWD+IFR1+MS
3500.000	16.666	332.304	3422.490	14.498	0.000	13.339	0.000	5.142	0.000	0.000	14.784	12.910	90.047	MWD+IFR1+MS
3600.000	16.666	332.304	3518.289	14.867	0.000	13.726	0.000	5.278	0.000	0.000	15.143	13.292	90.448	MWD+IFR1+MS
3700.000	16.666	332.304	3614.089	15.238	0.000	14.114	0.000	5.417	0.000	0.000	15.505	13.675	90.843	MWD+IFR1+MS
3800.000	16.666	332.304	3709.888	15.611	0.000	14.502	0.000	5.557	0.000	0.000	15.869	14.058	91.231	MWD+IFR1+MS
3900.000	16.666	332.304	3805.688	15.987	0.000	14.891	0.000	5.699	0.000	0.000	16.234	14.442	91.613	MWD+IFR1+MS
4000.000	16.666	332.304	3901.487	16.364	0.000	15.281	0.000	5.842	0.000	0.000	16.602	14.827	91.988	MWD+IFR1+MS
4100.000	16.666	332.304	3997.287	16.742	0.000	15.671	0.000	5.988	0.000	0.000	16.971	15.212	92.358	MWD+IFR1+MS
4200.000	16.666	332.304	4093.086	17.123	0.000	16.062	0.000	6.134	0.000	0.000	17.341	15.597	92.720	MWD+IFR1+MS
4300.000	16.666	332.304	4188.886	17.504	0.000	16.453	0.000	6.283	0.000	0.000	17.713	15.983	93.077	MWD+IFR1+MS
4400.000	16.666	332.304	4284.685	17.887	0.000	16.845	0.000	6.432	0.000	0.000	18.086	16.369	93.427	MWD+IFR1+MS
4500.000	16.666	332.304	4380.485	18.271	0.000	17.237	0.000	6.584	0.000	0.000	18.460	16.756	93.772	MWD+IFR1+MS
4600.000	16.666	332.304	4476.284	18.657	0.000	17.629	0.000	6.737	0.000	0.000	18.836	17.143	94.110	MWD+IFR1+MS
4700.000	16.666	332.304	4572.084	19.044	0.000	18.022	0.000	6.891	0.000	0.000	19.213	17.530	94.441	MWD+IFR1+MS
4800.000	16.666	332.304	4667.883	19.431	0.000	18.415	0.000	7.047	0.000	0.000	19.590	17.918	94.767	MWD+IFR1+MS
4900.000	16.666	332.304	4763.683	19.820	0.000	18.808	0.000	7.204	0.000	0.000	19.969	18.305	95.087	MWD+IFR1+MS
5000.000	16.666	332.304	4859.482	20.209	0.000	19.202	0.000	7.363	0.000	0.000	20.349	18.694	95.400	MWD+IFR1+MS
5100.000	16.666	332.304	4955.282	20.600	0.000	19.596	0.000	7.524	0.000	0.000	20.729	19.082	95.708	MWD+IFR1+MS
5200.000	16.666	332.304	5051.081	20.991	0.000	19.990	0.000	7.686	0.000	0.000	21.111	19.471	96.010	MWD+IFR1+MS
5300.000	16.666	332.304	5146.881	21.383	0.000	20.385	0.000	7.849	0.000	0.000	21.493	19.860	96.306	MWD+IFR1+MS
5400.000	16.666	332.304	5242.680	21.776	0.000	20.779	0.000	8.014	0.000	0.000	21.876	20.249	96.596	MWD+IFR1+MS
5500.000	16.666	332.304	5338.480	22.169	0.000	21.174	0.000	8.181	0.000	0.000	22.260	20.638	96.880	MWD+IFR1+MS
5600.000	16.666	332.304	5434.279	22.564	0.000	21.569	0.000	8.349	0.000	0.000	22.644	21.028	97.159	MWD+IFR1+MS
5700.000	16.666	332.304	5530.079	22.958	0.000	21.964	0.000	8.519	0.000	0.000	23.029	21.418	97.432	MWD+IFR1+MS
5800.000	16.666	332.304	5625.878	23.354	0.000	22.360	0.000	8.690	0.000	0.000	23.415	21.808	97.699	MWD+IFR1+MS
5900.000	16.666	332.304	5721.678	23.750	0.000	22.755	0.000	8.863	0.000	0.000	23.801	22.198	97.961	MWD+IFR1+MS
6000.000	16.666	332.304	5817.477	24.146	0.000	23.151	0.000	9.038	0.000	0.000	24.188	22.588	98.217	MWD+IFR1+MS
6063.617	16.666	332.304	5878.422	24.396	0.000	23.400	0.000	9.149	0.000	0.000	24.429	22.836	98.342	MWD+IFR1+MS
6100.000	15.938	332.304	5913.342	24.555	0.000	23.541	0.000	9.213	0.000	0.000	24.565	22.978	98.394	MWD+IFR1+MS

6200.000	13.938	332.304	6009.958	25.016	0.000	23.926	0.000	9.394	0.000	24.978	23.369	97.899	MWD+IFR1+MS
6300.000	11.938	332.304	6107.414	25.496	0.000	24.308	0.000	9.575	0.000	25.436	23.760	96.723	MWD+IFR1+MS
6400.000	9.938	332.304	6205.592	25.936	0.000	24.681	0.000	9.744	0.000	25.886	24.142	95.624	MWD+IFR1+MS
6500.000	7.938	332.304	6304.373	26.335	0.000	25.046	0.000	9.903	0.000	26.329	24.515	94.605	MWD+IFR1+MS
6600.000	5.938	332.304	6403.636	26.692	0.000	25.402	0.000	10.054	0.000	26.762	24.878	93.670	MWD+IFR1+MS
6700.000	3.938	332.304	6503.259	27.009	0.000	25.750	0.000	10.197	0.000	27.187	25.231	92.819	MWD+IFR1+MS
6800.000	1.938	332.304	6603.123	27.284	0.000	26.088	0.000	10.334	0.000	27.600	25.575	92.051	MWD+IFR1+MS
6896.896	0.000	0.000	6700.000	27.984	0.000	25.894	0.000	10.462	0.000	27.986	25.891	92.053	MWD+IFR1+MS
6900.000	0.000	0.000	6703.104	27.993	0.000	25.904	0.000	10.466	0.000	27.996	25.901	92.056	MWD+IFR1+MS
7000.000	0.000	0.000	6803.104	28.296	0.000	26.228	0.000	10.597	0.000	28.299	26.225	92.208	MWD+IFR1+MS
7100.000	0.000	0.000	6903.104	28.605	0.000	26.558	0.000	10.731	0.000	28.609	26.554	92.493	MWD+IFR1+MS
7200.000	0.000	0.000	7003.104	28.915	0.000	26.889	0.000	10.868	0.000	28.920	26.884	92.776	MWD+IFR1+MS
7300.000	0.000	0.000	7103.104	29.227	0.000	27.220	0.000	11.008	0.000	29.232	27.215	93.058	MWD+IFR1+MS
7400.000	0.000	0.000	7203.104	29.539	0.000	27.553	0.000	11.151	0.000	29.546	27.546	93.339	MWD+IFR1+MS
7500.000	0.000	0.000	7303.104	29.853	0.000	27.885	0.000	11.297	0.000	29.860	27.877	93.618	MWD+IFR1+MS
7600.000	0.000	0.000	7403.104	30.167	0.000	28.219	0.000	11.446	0.000	30.176	28.209	93.895	MWD+IFR1+MS
7700.000	0.000	0.000	7503.104	30.482	0.000	28.553	0.000	11.598	0.000	30.492	28.542	94.172	MWD+IFR1+MS
7800.000	0.000	0.000	7603.104	30.799	0.000	28.888	0.000	11.754	0.000	30.810	28.876	94.446	MWD+IFR1+MS
7900.000	0.000	0.000	7703.104	31.116	0.000	29.223	0.000	11.912	0.000	31.129	29.209	94.719	MWD+IFR1+MS
8000.000	0.000	0.000	7803.104	31.434	0.000	29.559	0.000	12.073	0.000	31.448	29.544	94.990	MWD+IFR1+MS
8100.000	0.000	0.000	7903.104	31.753	0.000	29.895	0.000	12.237	0.000	31.769	29.878	95.260	MWD+IFR1+MS
8200.000	0.000	0.000	8003.104	32.073	0.000	30.232	0.000	12.405	0.000	32.090	30.214	95.528	MWD+IFR1+MS
8300.000	0.000	0.000	8103.104	32.394	0.000	30.569	0.000	12.576	0.000	32.412	30.549	95.794	MWD+IFR1+MS
8400.000	0.000	0.000	8203.104	32.715	0.000	30.907	0.000	12.750	0.000	32.735	30.885	96.058	MWD+IFR1+MS
8500.000	0.000	0.000	8303.104	33.037	0.000	31.245	0.000	12.927	0.000	33.059	31.222	96.321	MWD+IFR1+MS
8600.000	0.000	0.000	8403.104	33.360	0.000	31.583	0.000	13.107	0.000	33.384	31.559	96.582	MWD+IFR1+MS
8700.000	0.000	0.000	8503.104	33.684	0.000	31.923	0.000	13.290	0.000	33.709	31.896	96.841	MWD+IFR1+MS
8800.000	0.000	0.000	8603.104	34.008	0.000	32.262	0.000	13.477	0.000	34.035	32.234	97.098	MWD+IFR1+MS
8900.000	0.000	0.000	8703.104	34.333	0.000	32.602	0.000	13.667	0.000	34.362	32.572	97.353	MWD+IFR1+MS
9000.000	0.000	0.000	8803.104	34.659	0.000	32.942	0.000	13.860	0.000	34.689	32.910	97.606	MWD+IFR1+MS
9100.000	0.000	0.000	8903.104	34.985	0.000	33.283	0.000	14.056	0.000	35.018	33.249	97.858	MWD+IFR1+MS
9200.000	0.000	0.000	9003.104	35.312	0.000	33.624	0.000	14.256	0.000	35.346	33.588	98.107	MWD+IFR1+MS
9300.000	0.000	0.000	9103.104	35.640	0.000	33.965	0.000	14.459	0.000	35.676	33.928	98.355	MWD+IFR1+MS

9400.000	0.000	0.000	9203.104	35.968	0.000	34.307	0.000	14.665	0.000	36.006	34.267	98.600	MWD+IFR1+MS
9500.000	0.000	0.000	9303.104	36.297	0.000	34.649	0.000	14.874	0.000	36.337	34.607	98.844	MWD+IFR1+MS
9600.000	0.000	0.000	9403.104	36.626	0.000	34.992	0.000	15.087	0.000	36.668	34.948	99.085	MWD+IFR1+MS
9700.000	0.000	0.000	9503.104	36.956	0.000	35.335	0.000	15.303	0.000	37.000	35.289	99.325	MWD+IFR1+MS
9800.000	0.000	0.000	9603.104	37.286	0.000	35.678	0.000	15.522	0.000	37.332	35.630	99.562	MWD+IFR1+MS
9900.000	0.000	0.000	9703.104	37.617	0.000	36.021	0.000	15.744	0.000	37.665	35.971	99.798	MWD+IFR1+MS
10000.000	0.000	0.000	9803.104	37.948	0.000	36.365	0.000	15.970	0.000	37.998	36.312	100.031	MWD+IFR1+MS
10100.000	0.000	0.000	9903.104	38.280	0.000	36.709	0.000	16.199	0.000	38.332	36.654	100.263	MWD+IFR1+MS
10200.000	0.000	0.000	10003.104	38.613	0.000	37.053	0.000	16.432	0.000	38.667	36.996	100.492	MWD+IFR1+MS
10300.000	0.000	0.000	10103.104	38.945	0.000	37.397	0.000	16.667	0.000	39.002	37.338	100.719	MWD+IFR1+MS
10400.000	0.000	0.000	10203.104	39.279	0.000	37.742	0.000	16.906	0.000	39.337	37.681	100.945	MWD+IFR1+MS
10500.000	0.000	0.000	10303.104	39.612	0.000	38.087	0.000	17.148	0.000	39.673	38.024	101.168	MWD+IFR1+MS
10600.000	0.000	0.000	10403.104	39.946	0.000	38.432	0.000	17.394	0.000	40.009	38.367	101.389	MWD+IFR1+MS
10700.000	0.000	0.000	10503.104	40.281	0.000	38.778	0.000	17.643	0.000	40.346	38.710	101.609	MWD+IFR1+MS
10800.000	0.000	0.000	10603.104	40.616	0.000	39.123	0.000	17.895	0.000	40.683	39.054	101.826	MWD+IFR1+MS
10900.000	0.000	0.000	10703.104	40.951	0.000	39.469	0.000	18.150	0.000	41.021	39.397	102.041	MWD+IFR1+MS
11000.000	0.000	0.000	10803.104	41.287	0.000	39.816	0.000	18.409	0.000	41.359	39.741	102.254	MWD+IFR1+MS
11100.000	0.000	0.000	10903.104	41.623	0.000	40.162	0.000	18.671	0.000	41.697	40.085	102.465	MWD+IFR1+MS
11200.000	0.000	0.000	11003.104	41.960	0.000	40.509	0.000	18.936	0.000	42.036	40.430	102.674	MWD+IFR1+MS
11300.000	0.000	0.000	11103.104	42.296	0.000	40.855	0.000	19.205	0.000	42.375	40.774	102.882	MWD+IFR1+MS
11400.000	0.000	0.000	11203.104	42.634	0.000	41.202	0.000	19.477	0.000	42.714	41.119	103.087	MWD+IFR1+MS
11443.696	0.000	0.000	11246.800	42.780	0.000	41.353	0.000	19.597	0.000	42.860	41.269	103.129	MWD+IFR1+MS
11500.000	4.504	179.642	11303.047	42.515	0.000	41.539	-0.000	19.750	0.000	43.056	41.451	103.025	MWD+IFR1+MS
11600.000	12.504	179.642	11401.867	42.097	0.000	41.833	-0.000	20.051	0.000	43.904	41.754	100.575	MWD+IFR1+MS
11700.000	20.504	179.642	11497.669	41.466	0.000	42.103	-0.000	20.471	0.000	45.021	42.027	98.637	MWD+IFR1+MS
11800.000	28.504	179.642	11588.588	40.299	0.000	42.345	-0.000	21.061	0.000	45.992	42.267	97.769	MWD+IFR1+MS
11900.000	36.504	179.642	11672.854	38.703	0.000	42.555	-0.000	21.856	0.000	46.799	42.473	97.364	MWD+IFR1+MS
12000.000	44.504	179.642	11748.828	36.822	0.000	42.734	-0.000	22.870	0.000	47.433	42.647	97.201	MWD+IFR1+MS
12100.000	52.504	179.642	11815.031	34.842	0.000	42.880	-0.000	24.090	0.000	47.900	42.787	97.171	MWD+IFR1+MS
12200.000	60.504	179.642	11870.173	32.990	0.000	42.993	-0.000	25.484	0.000	48.213	42.895	97.211	MWD+IFR1+MS
12300.000	68.504	179.642	11913.182	31.528	0.000	43.073	-0.000	27.004	0.000	48.394	42.971	97.263	MWD+IFR1+MS
12400.000	76.504	179.642	11943.221	30.714	0.000	43.120	-0.000	28.599	0.000	48.474	43.017	97.274	MWD+IFR1+MS
12500.000	84.504	179.642	11959.705	30.748	0.000	43.134	-0.000	30.214	0.000	48.490	43.035	97.180	MWD+IFR1+MS

12568.696	90.000	179.642	11962.997	30.818	0.000	43.124	-0.000	30.818	0.000	48.486	43.028	97.011	MWD+IFR1+MS
12600.000	90.000	179.642	11962.997	30.895	0.000	43.115	-0.000	30.895	0.000	48.485	43.022	96.916	MWD+IFR1+MS
12700.000	90.000	179.642	11962.997	31.103	0.000	43.100	-0.000	31.103	0.000	48.479	43.014	96.630	MWD+IFR1+MS
12800.000	90.000	179.642	11962.997	31.331	0.000	43.102	-0.000	31.331	0.000	48.475	43.022	96.361	MWD+IFR1+MS
12900.000	90.000	179.642	11962.997	31.578	0.000	43.116	-0.000	31.578	0.000	48.472	43.043	96.106	MWD+IFR1+MS
13000.000	90.000	179.642	11962.997	31.842	0.000	43.145	-0.000	31.842	0.000	48.470	43.078	95.863	MWD+IFR1+MS
13100.000	90.000	179.642	11962.997	32.123	0.000	43.187	-0.000	32.123	0.000	48.468	43.125	95.630	MWD+IFR1+MS
13200.000	90.000	179.642	11962.997	32.421	0.000	43.242	-0.000	32.421	0.000	48.468	43.186	95.405	MWD+IFR1+MS
13300.000	90.000	179.642	11962.997	32.734	0.000	43.311	-0.000	32.734	0.000	48.468	43.260	95.189	MWD+IFR1+MS
13400.000	90.000	179.642	11962.997	33.064	0.000	43.394	-0.000	33.064	0.000	48.469	43.347	94.980	MWD+IFR1+MS
13500.000	90.000	179.642	11962.997	33.408	0.000	43.489	-0.000	33.408	0.000	48.472	43.447	94.776	MWD+IFR1+MS
13600.000	90.000	179.642	11962.997	33.767	0.000	43.598	-0.000	33.767	0.000	48.474	43.560	94.577	MWD+IFR1+MS
13700.000	90.000	179.642	11962.997	34.141	0.000	43.720	-0.000	34.141	0.000	48.478	43.686	94.380	MWD+IFR1+MS
13800.000	90.000	179.642	11962.997	34.528	0.000	43.855	-0.000	34.528	0.000	48.483	43.825	94.186	MWD+IFR1+MS
13900.000	90.000	179.642	11962.997	34.929	0.000	44.003	-0.000	34.929	0.000	48.488	43.976	93.993	MWD+IFR1+MS
14000.000	90.000	179.642	11962.997	35.343	0.000	44.164	-0.000	35.343	0.000	48.494	44.140	93.798	MWD+IFR1+MS
14100.000	90.000	179.642	11962.997	35.769	0.000	44.338	-0.000	35.769	0.000	48.501	44.317	93.602	MWD+IFR1+MS
14200.000	90.000	179.642	11962.997	36.207	0.000	44.523	-0.000	36.207	0.000	48.508	44.505	93.400	MWD+IFR1+MS
14300.000	90.000	179.642	11962.997	36.656	0.000	44.722	-0.000	36.656	0.000	48.517	44.706	93.192	MWD+IFR1+MS
14400.000	90.000	179.642	11962.997	37.117	0.000	44.932	-0.000	37.117	0.000	48.526	44.919	92.973	MWD+IFR1+MS
14500.000	90.000	179.642	11962.997	37.588	0.000	45.155	-0.000	37.588	0.000	48.536	45.144	92.740	MWD+IFR1+MS
14600.000	90.000	179.642	11962.997	38.070	0.000	45.389	-0.000	38.070	0.000	48.546	45.381	92.488	MWD+IFR1+MS
14700.000	90.000	179.642	11962.997	38.562	0.000	45.635	-0.000	38.562	0.000	48.558	45.629	92.209	MWD+IFR1+MS
14800.000	90.000	179.642	11962.997	39.063	0.000	45.892	-0.000	39.063	0.000	48.570	45.888	91.893	MWD+IFR1+MS
14900.000	90.000	179.642	11962.997	39.574	0.000	46.161	-0.000	39.574	0.000	48.583	46.158	91.524	MWD+IFR1+MS
15000.000	90.000	179.642	11962.997	40.093	0.000	46.440	-0.000	40.093	0.000	48.596	46.439	91.078	MWD+IFR1+MS
15100.000	90.000	179.642	11962.997	40.621	0.000	46.731	-0.000	40.621	0.000	48.611	46.730	90.516	MWD+IFR1+MS
15200.000	90.000	179.642	11962.997	41.157	0.000	47.032	-0.000	41.157	0.000	48.627	47.032	89.767	MWD+IFR1+MS
15300.000	90.000	179.642	11962.997	41.701	0.000	47.344	-0.000	41.701	0.000	48.644	47.343	88.692	MWD+IFR1+MS
15400.000	90.000	179.642	11962.997	42.253	0.000	47.666	-0.000	42.253	0.000	48.663	47.664	86.978	MWD+IFR1+MS
15500.000	90.000	179.642	11962.997	42.812	0.000	47.998	-0.000	42.812	0.000	48.687	47.990	83.750	MWD+IFR1+MS
15600.000	90.000	179.642	11962.997	43.378	0.000	48.340	-0.000	43.378	0.000	48.722	48.316	75.601	MWD+IFR1+MS
15700.000	90.000	179.642	11962.997	43.950	0.000	48.691	-0.000	43.950	0.000	48.825	48.583	47.738	MWD+IFR1+MS



3/20/24, 10:47 AM

Well Plan Report

15800.000	90.000	179.642	11962.997	44.529	0.000	49.052	-0.000	44.529	0.000	49.108	48.681	20.853	MWD+IFR1+MS
15900.000	90.000	179.642	11962.997	45.114	0.000	49.422	-0.000	45.114	0.000	49.462	48.717	13.038	MWD+IFR1+MS
16000.000	90.000	179.642	11962.997	45.706	0.000	49.801	-0.000	45.706	0.000	49.836	48.743	9.907	MWD+IFR1+MS
16100.000	90.000	179.642	11962.997	46.303	0.000	50.189	-0.000	46.303	0.000	50.221	48.767	8.241	MWD+IFR1+MS
16200.000	90.000	179.642	11962.997	46.905	0.000	50.586	-0.000	46.905	0.000	50.617	48.790	7.202	MWD+IFR1+MS
16300.000	90.000	179.642	11962.997	47.513	0.000	50.991	-0.000	47.513	0.000	51.022	48.813	6.486	MWD+IFR1+MS
16400.000	90.000	179.642	11962.997	48.126	0.000	51.404	-0.000	48.126	0.000	51.435	48.836	5.958	MWD+IFR1+MS
16500.000	90.000	179.642	11962.997	48.744	0.000	51.826	-0.000	48.744	0.000	51.856	48.860	5.549	MWD+IFR1+MS
16600.000	90.000	179.642	11962.997	49.367	0.000	52.255	-0.000	49.367	0.000	52.286	48.884	5.220	MWD+IFR1+MS
16700.000	90.000	179.642	11962.997	49.994	0.000	52.691	-0.000	49.994	0.000	52.723	48.908	4.948	MWD+IFR1+MS
16800.000	90.000	179.642	11962.997	50.625	0.000	53.135	-0.000	50.625	0.000	53.167	48.934	4.718	MWD+IFR1+MS
16900.000	90.000	179.642	11962.997	51.261	0.000	53.587	-0.000	51.261	0.000	53.619	48.959	4.520	MWD+IFR1+MS
17000.000	90.000	179.642	11962.997	51.901	0.000	54.045	-0.000	51.901	0.000	54.078	48.985	4.346	MWD+IFR1+MS
17100.000	90.000	179.642	11962.997	52.545	0.000	54.511	-0.000	52.545	0.000	54.544	49.012	4.192	MWD+IFR1+MS
17200.000	90.000	179.642	11962.997	53.193	0.000	54.983	-0.000	53.193	0.000	55.016	49.040	4.054	MWD+IFR1+MS
17300.000	90.000	179.642	11962.997	53.844	0.000	55.461	-0.000	53.844	0.000	55.495	49.067	3.929	MWD+IFR1+MS
17400.000	90.000	179.642	11962.997	54.499	0.000	55.947	-0.000	54.499	0.000	55.981	49.096	3.816	MWD+IFR1+MS
17500.000	90.000	179.642	11962.997	55.157	0.000	56.438	-0.000	55.157	0.000	56.472	49.125	3.711	MWD+IFR1+MS
17600.000	90.000	179.642	11962.997	55.818	0.000	56.935	-0.000	55.818	0.000	56.970	49.155	3.614	MWD+IFR1+MS
17700.000	90.000	179.642	11962.997	56.483	0.000	57.438	-0.000	56.483	0.000	57.474	49.185	3.524	MWD+IFR1+MS
17800.000	90.000	179.642	11962.997	57.151	0.000	57.947	-0.000	57.151	0.000	57.983	49.216	3.440	MWD+IFR1+MS
17900.000	90.000	179.642	11962.997	57.821	0.000	58.462	-0.000	57.821	0.000	58.498	49.248	3.362	MWD+IFR1+MS
18000.000	90.000	179.642	11962.997	58.495	0.000	58.982	-0.000	58.495	0.000	59.018	49.280	3.288	MWD+IFR1+MS
18100.000	90.000	179.642	11962.997	59.171	0.000	59.507	-0.000	59.171	0.000	59.544	49.312	3.218	MWD+IFR1+MS
18200.000	90.000	179.642	11962.997	59.850	0.000	60.038	-0.000	59.850	0.000	60.074	49.346	3.151	MWD+IFR1+MS
18300.000	90.000	179.642	11962.997	60.531	0.000	60.573	-0.000	60.531	0.000	60.610	49.380	3.089	MWD+IFR1+MS
18400.000	90.000	179.642	11962.997	61.215	0.000	61.114	-0.000	61.215	0.000	61.151	49.414	3.029	MWD+IFR1+MS
18500.000	90.000	179.642	11962.997	61.901	0.000	61.659	-0.000	61.901	0.000	61.696	49.449	2.972	MWD+IFR1+MS
18600.000	90.000	179.642	11962.997	62.590	0.000	62.209	-0.000	62.590	0.000	62.246	49.485	2.917	MWD+IFR1+MS
18700.000	90.000	179.642	11962.997	63.281	0.000	62.763	-0.000	63.281	0.000	62.800	49.521	2.865	MWD+IFR1+MS
18800.000	90.000	179.642	11962.997	63.974	0.000	63.322	-0.000	63.974	0.000	63.359	49.558	2.815	MWD+IFR1+MS
18900.000	90.000	179.642	11962.997	64.669	0.000	63.885	-0.000	64.669	0.000	63.922	49.595	2.767	MWD+IFR1+MS
19000.000	90.000	179.642	11962.997	65.366	0.000	64.452	-0.000	65.366	0.000	64.490	49.633	2.721	MWD+IFR1+MS

19100.000	90.000	179.642	11962.997	66.065	0.000	65.023	-0.000	66.065	0.000	65.061	49.672	2.677	MWD+IFR1+MS
19200.000	90.000	179.642	11962.997	66.766	0.000	65.598	-0.000	66.766	0.000	65.637	49.711	2.634	MWD+IFR1+MS
19300.000	90.000	179.642	11962.997	67.469	0.000	66.178	-0.000	67.469	0.000	66.216	49.750	2.592	MWD+IFR1+MS
19400.000	90.000	179.642	11962.997	68.174	0.000	66.760	-0.000	68.174	0.000	66.799	49.791	2.552	MWD+IFR1+MS
19500.000	90.000	179.642	11962.997	68.880	0.000	67.347	-0.000	68.880	0.000	67.385	49.831	2.514	MWD+IFR1+MS
19600.000	90.000	179.642	11962.997	69.588	0.000	67.937	-0.000	69.588	0.000	67.975	49.873	2.476	MWD+IFR1+MS
19700.000	90.000	179.642	11962.997	70.298	0.000	68.531	-0.000	70.298	0.000	68.569	49.915	2.440	MWD+IFR1+MS
19800.000	90.000	179.642	11962.997	71.009	0.000	69.128	-0.000	71.009	0.000	69.166	49.957	2.405	MWD+IFR1+MS
19900.000	90.000	179.642	11962.997	71.722	0.000	69.728	-0.000	71.722	0.000	69.766	50.000	2.370	MWD+IFR1+MS
20000.000	90.000	179.642	11962.997	72.436	0.000	70.331	-0.000	72.436	0.000	70.370	50.044	2.337	MWD+IFR1+MS
20100.000	90.000	179.642	11962.997	73.152	0.000	70.938	-0.000	73.152	0.000	70.976	50.088	2.305	MWD+IFR1+MS
20200.000	90.000	179.642	11962.997	73.869	0.000	71.547	-0.000	73.869	0.000	71.586	50.133	2.274	MWD+IFR1+MS
20300.000	90.000	179.642	11962.997	74.587	0.000	72.160	-0.000	74.587	0.000	72.198	50.178	2.243	MWD+IFR1+MS
20400.000	90.000	179.642	11962.997	75.307	0.000	72.776	-0.000	75.307	0.000	72.814	50.224	2.213	MWD+IFR1+MS
20500.000	90.000	179.642	11962.997	76.028	0.000	73.394	-0.000	76.028	0.000	73.432	50.271	2.184	MWD+IFR1+MS
20600.000	90.000	179.642	11962.997	76.751	0.000	74.015	-0.000	76.751	0.000	74.053	50.318	2.156	MWD+IFR1+MS
20700.000	90.000	179.642	11962.997	77.474	0.000	74.639	-0.000	77.474	0.000	74.677	50.365	2.129	MWD+IFR1+MS
20800.000	90.000	179.642	11962.997	78.199	0.000	75.265	-0.000	78.199	0.000	75.303	50.413	2.102	MWD+IFR1+MS
20900.000	90.000	179.642	11962.997	78.925	0.000	75.894	-0.000	78.925	0.000	75.932	50.462	2.076	MWD+IFR1+MS
21000.000	90.000	179.642	11962.997	79.652	0.000	76.525	-0.000	79.652	0.000	76.564	50.511	2.050	MWD+IFR1+MS
21100.000	90.000	179.642	11962.997	80.380	0.000	77.159	-0.000	80.380	0.000	77.197	50.561	2.025	MWD+IFR1+MS
21200.000	90.000	179.642	11962.997	81.109	0.000	77.796	-0.000	81.109	0.000	77.834	50.611	2.001	MWD+IFR1+MS
21300.000	90.000	179.642	11962.997	81.839	0.000	78.434	-0.000	81.839	0.000	78.472	50.662	1.977	MWD+IFR1+MS
21400.000	90.000	179.642	11962.997	82.570	0.000	79.075	-0.000	82.570	0.000	79.113	50.713	1.953	MWD+IFR1+MS
21500.000	90.000	179.642	11962.997	83.303	0.000	79.718	-0.000	83.303	0.000	79.756	50.765	1.931	MWD+IFR1+MS
21600.000	90.000	179.642	11962.997	84.036	0.000	80.363	-0.000	84.036	0.000	80.401	50.817	1.908	MWD+IFR1+MS
21700.000	90.000	179.642	11962.997	84.770	0.000	81.010	-0.000	84.770	0.000	81.048	50.870	1.886	MWD+IFR1+MS
21800.000	90.000	179.642	11962.997	85.505	0.000	81.660	-0.000	85.505	0.000	81.697	50.924	1.865	MWD+IFR1+MS
21900.000	90.000	179.642	11962.997	86.241	0.000	82.311	-0.000	86.241	0.000	82.348	50.978	1.844	MWD+IFR1+MS
22000.000	90.000	179.642	11962.997	86.977	0.000	82.964	-0.000	86.977	0.000	83.002	51.032	1.824	MWD+IFR1+MS
22100.000	90.000	179.642	11962.997	87.715	0.000	83.619	-0.000	87.715	0.000	83.657	51.087	1.803	MWD+IFR1+MS
22200.000	90.000	179.642	11962.997	88.453	0.000	84.276	-0.000	88.453	0.000	84.314	51.143	1.784	MWD+IFR1+MS
22300.000	90.000	179.642	11962.997	89.192	0.000	84.935	-0.000	89.192	0.000	84.972	51.199	1.764	MWD+IFR1+MS

22400.000	90.000	179.642	11962.997	89.932	0.000	85.596	-0.000	89.932	0.000	0.000	85.633	51.256	1.745	MWD+IFR1+MS
22500.000	90.000	179.642	11962.997	90.673	0.000	86.258	-0.000	90.673	0.000	0.000	86.295	51.313	1.727	MWD+IFR1+MS
22600.000	90.000	179.642	11962.997	91.414	0.000	86.922	-0.000	91.414	0.000	0.000	86.959	51.370	1.709	MWD+IFR1+MS
22700.000	90.000	179.642	11962.997	92.156	0.000	87.588	-0.000	92.156	0.000	0.000	87.625	51.428	1.691	MWD+IFR1+MS
22800.000	90.000	179.642	11962.997	92.899	0.000	88.255	-0.000	92.899	0.000	0.000	88.292	51.487	1.673	MWD+IFR1+MS
22900.000	90.000	179.642	11962.997	93.642	0.000	88.924	-0.000	93.642	0.000	0.000	88.961	51.546	1.656	MWD+IFR1+MS
23000.000	90.000	179.642	11962.997	94.387	0.000	89.595	-0.000	94.387	0.000	0.000	89.631	51.606	1.639	MWD+IFR1+MS
23100.000	90.000	179.642	11962.997	95.131	0.000	90.267	-0.000	95.131	0.000	0.000	90.303	51.666	1.622	MWD+IFR1+MS
23200.000	90.000	179.642	11962.997	95.877	0.000	90.940	-0.000	95.877	0.000	0.000	90.976	51.727	1.606	MWD+IFR1+MS
23300.000	90.000	179.642	11962.997	96.623	0.000	91.615	-0.000	96.623	0.000	0.000	91.651	51.788	1.590	MWD+IFR1+MS
23400.000	90.000	179.642	11962.997	97.370	0.000	92.291	-0.000	97.370	0.000	0.000	92.327	51.850	1.574	MWD+IFR1+MS
23500.000	90.000	179.642	11962.997	98.117	0.000	92.969	-0.000	98.117	0.000	0.000	93.005	51.912	1.558	MWD+IFR1+MS
23600.000	90.000	179.642	11962.997	98.865	0.000	93.648	-0.000	98.865	0.000	0.000	93.684	51.975	1.543	MWD+IFR1+MS
23700.000	90.000	179.642	11962.997	99.613	0.000	94.329	-0.000	99.613	0.000	0.000	94.364	52.038	1.528	MWD+IFR1+MS
23800.000	90.000	179.642	11962.997	100.362	0.000	95.010	-0.000	100.362	0.000	0.000	95.046	52.102	1.513	MWD+IFR1+MS
23900.000	90.000	179.642	11962.997	101.112	0.000	95.693	-0.000	101.112	0.000	0.000	95.728	52.166	1.499	MWD+IFR1+MS
24000.000	90.000	179.642	11962.997	101.862	0.000	96.377	-0.000	101.862	0.000	0.000	96.413	52.230	1.484	MWD+IFR1+MS
24100.000	90.000	179.642	11962.997	102.612	0.000	97.063	-0.000	102.612	0.000	0.000	97.098	52.296	1.470	MWD+IFR1+MS
24200.000	90.000	179.642	11962.997	103.363	0.000	97.749	-0.000	103.363	0.000	0.000	97.784	52.361	1.456	MWD+IFR1+MS
24300.000	90.000	179.642	11962.997	104.115	0.000	98.437	-0.000	104.115	0.000	0.000	98.472	52.427	1.443	MWD+IFR1+MS
24400.000	90.000	179.642	11962.997	104.867	0.000	99.126	-0.000	104.867	0.000	0.000	99.161	52.494	1.429	MWD+IFR1+MS
24500.000	90.000	179.642	11962.997	105.619	0.000	99.816	-0.000	105.619	0.000	0.000	99.851	52.561	1.416	MWD+IFR1+MS
24600.000	90.000	179.642	11962.997	106.372	0.000	100.507	-0.000	106.372	0.000	0.000	100.542	52.629	1.403	MWD+IFR1+MS
24700.000	90.000	179.642	11962.997	107.126	0.000	101.199	-0.000	107.126	0.000	0.000	101.234	52.697	1.390	MWD+IFR1+MS
24800.000	90.000	179.642	11962.997	107.880	0.000	101.893	-0.000	107.880	0.000	0.000	101.927	52.765	1.378	MWD+IFR1+MS
24847.577	90.000	179.642	11962.997	108.238	0.000	102.222	-0.000	108.238	0.000	0.000	102.256	52.798	1.372	MWD+IFR1+MS
24900.000	90.000	179.642	11962.997	108.633	0.000	102.585	-0.000	108.633	0.000	0.000	102.619	52.834	1.365	MWD+IFR1+MS
24937.452	90.000	179.642	11962.997	108.915	0.000	102.844	-0.000	108.915	0.000	0.000	102.878	52.860	1.361	MWD+IFR1+MS

Poker Lake Unit 21 DTD South 155H

**Plan Targets**  
  
**Target Name**  
FTP 27

**Measured Depth**  
(ft)  
12296.75

**Grid Northing**  
(ft)  
440437.50

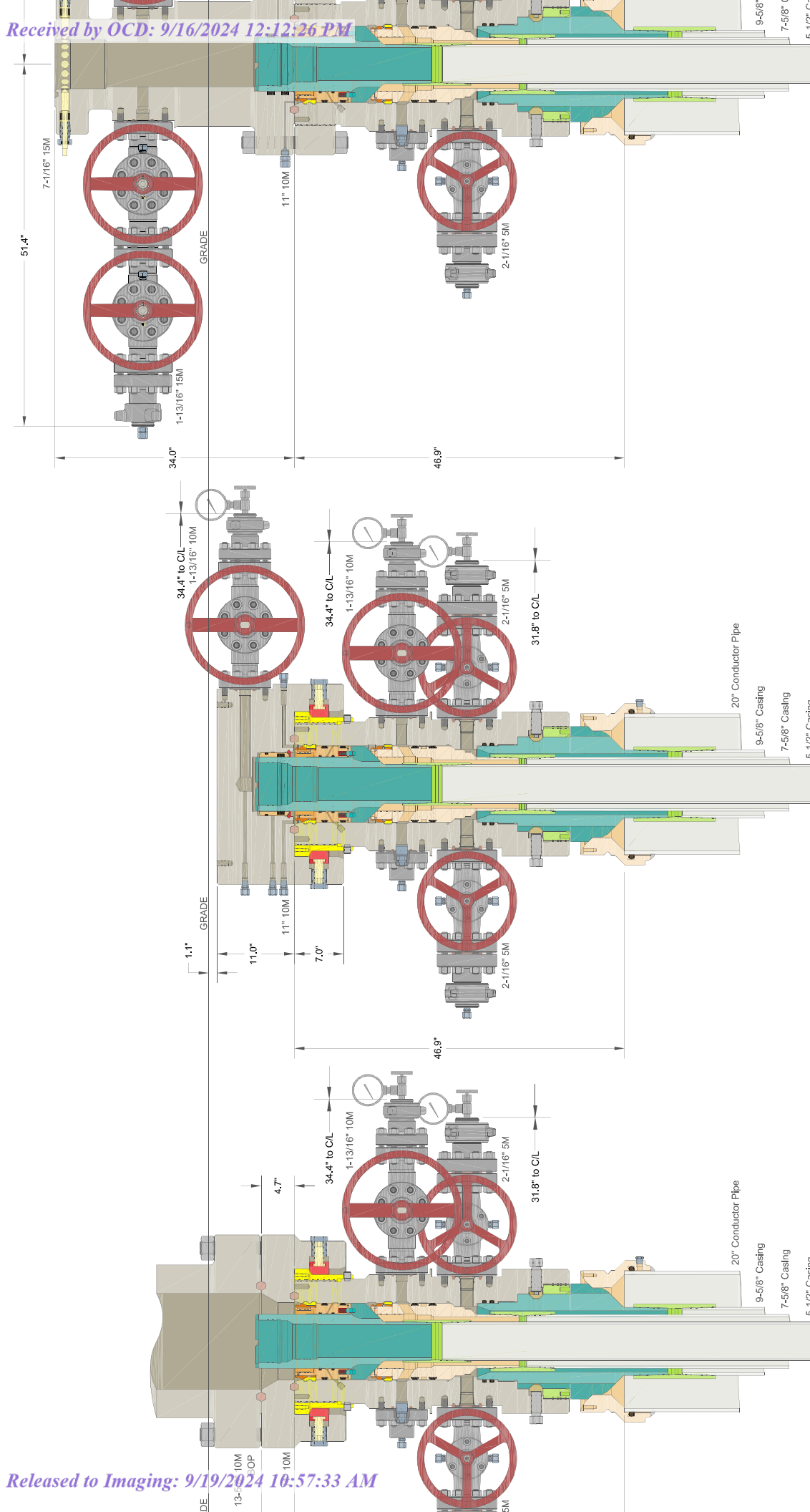
**Grid Easting**  
(ft)  
639023.60

**TVD MSL**  
(ft)  
8554.00

**Target Shape**  
RECTANGLE

Well Plan Report

3/20/24, 10:47 AM	SHL 28	13231.54	440850.67	641012.51	7568.00	RECTANGLE
	LTP 27	24847.45	427442.80	639104.90	8554.00	RECTANGLE
	BHL 27	24937.49	427352.80	639105.40	8554.00	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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www.usstubular.com

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.

Legal Notice

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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

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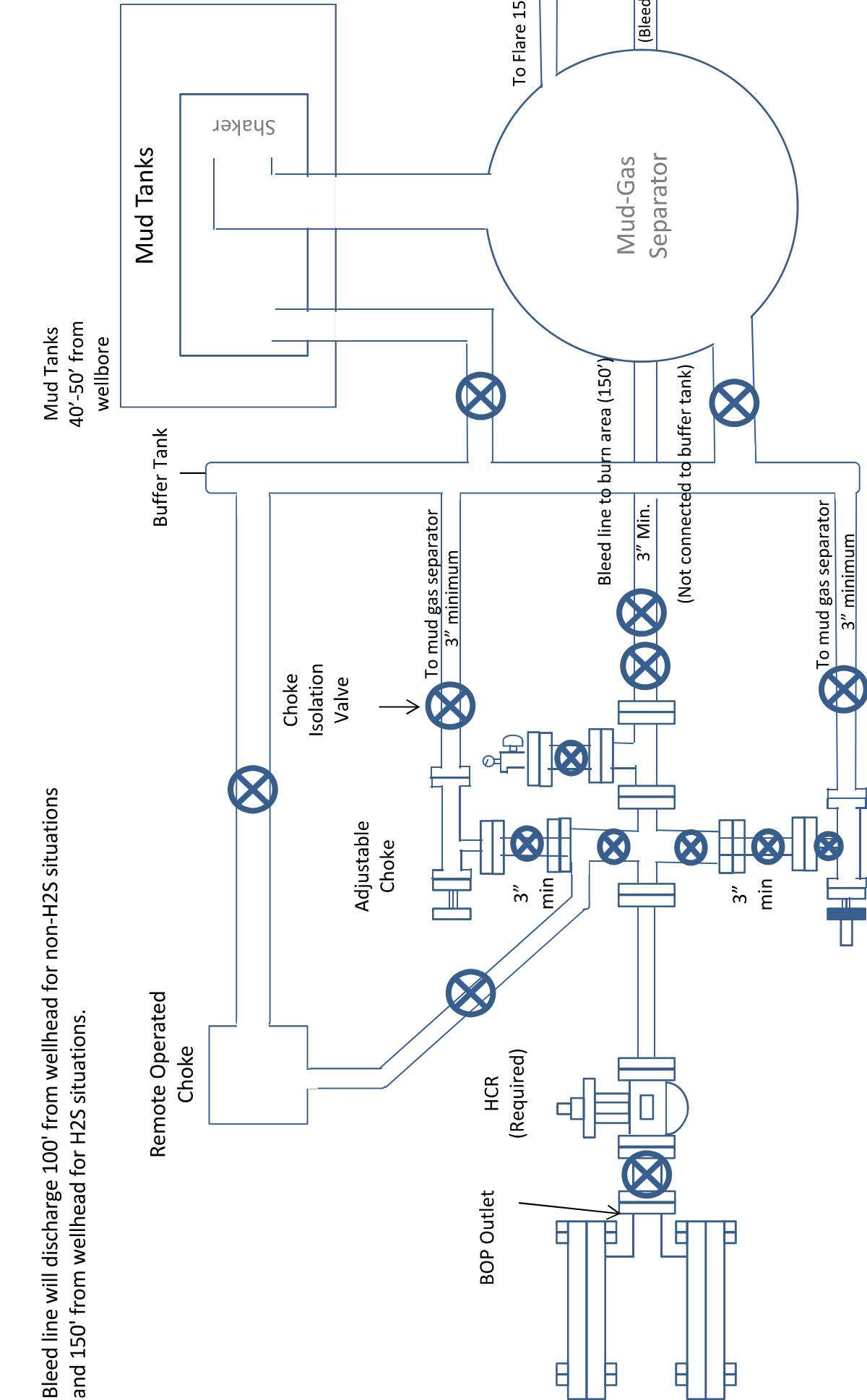






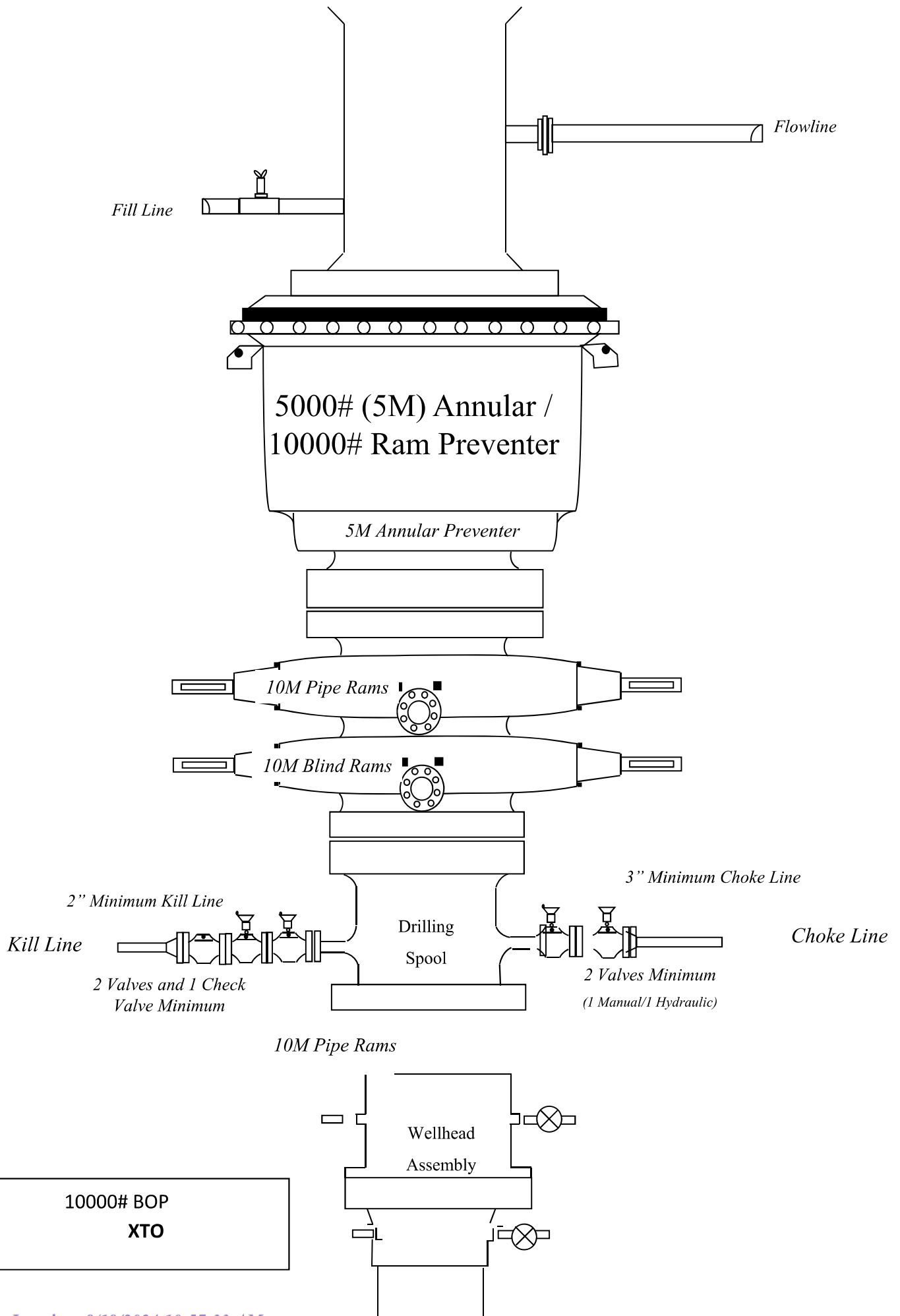






**Drilling Operations  
Choke Manifold  
10M Service**

Bleed line will discharge 100' from wellhead for non-H2S situations and 150' from wellhead for H2S situations.



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

CONDITIONS  
  
Action 383920

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 383920
	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