

Lease Number: NMLC0068430

Unit or CA Name: POKER LAKE UNIT

Unit or CA Number:
NMNM71016X

US Well Number: 3001553264

Operator: XTO PERMIAN OPERATING
LLC

Notice of Intent

Sundry ID: 2784171

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 04/09/2024

Time Sundry Submitted: 02:05

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: 237' FSL & 587' FEL OF SECTION 16-T24S-R30E 332' FSL & 97' FEL OF SECTION 16-T24S-R30E FTP: 386' FNL & 850' FEL OF SECTION 21-T24S-R30E 100' FNL & 297' FEL OF SECTION 21-T24S-R30E LTP: 329' FNL & 870' FEL OF SECTION 33-T23S-R30E 2537' FNL & 293' FEL OF SECTION 33-T24S-R30E BHL: 200' FNL & 870' FEL OF SECTION 33-T23S-R30E 2627' FNL & 294' FEL OF SECTION 33-T24S-R30E The proposed total depth is changing from 33856' MD; 12114' TVD (Wolfcamp) to 25030' MD; 11930' TVD (Wolfcamp D). 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, BOP Variance, Well Control Plan, 5M BOP diagram, & 10M choke manifold.

NOI Attachments

Procedure Description

PLU_21_DTD_187H_Sundry_Documents_20240905152503.pdf

US Well Number: 3001553264

Operator: XTO PERMIAN OPERATING
LLC

Conditions of Approval

Additional

Poker_Lake_Unit_21_DTD_185H_COA_20240912151108.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: SEP 05, 2024 03:25 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.	NMLC068430
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/187H
2. Name of Operator XTO PERMIAN OPERATING LLC		9. API Well No. 3001553264
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 recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

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: 237' FSL & 587' FEL OF SECTION 16-T24S-R30E 332' FSL & 97' FEL OF SECTION 16-T24S-R30E
FTP: 386' FNL & 850' FEL OF SECTION 21-T24S-R30E 100' FNL & 297' FEL OF SECTION 21-T24S-R30E
LTP: 329' FNL & 870' FEL OF SECTION 33-T23S-R30E 2537' FNL & 293' FEL OF SECTION 33-T24S-R30E
BHL: 200' FNL & 870' FEL OF SECTION 33-T23S-R30E 2627' FNL & 294' FEL OF SECTION 33-T24S-R30E

The proposed total depth is changing from 33856 MD; 12114 TVD (Wolfcamp) to 25030 MD; 11930 TVD (Wolfcamp D).

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 09/05/2024

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

See attached Drilling Plan for updated cement and casing program.

Attachments: C-102, Drilling Plan, Directional Plan, MBS, BOP Variance, Well Control Plan, 5M BOP diagram, & 10M choke manifold.

Location of Well

0. SHL: SESE / 237 FSL / 587 FEL / TWSP: 24S / RANGE: 30E / SECTION: 16 / LAT: 32.211145 / LONG: -103.879482 (TVD: 0 feet, MD: 0 feet)

PPP: SESE / 330 FSL / 850 FEL / TWSP: 24S / RANGE: 30E / SECTION: 16 / LAT: 32.21081 / LONG: -103.87817 (TVD: 12114 feet, MD: 13000 feet)

PPP: NENE / 386 FNL / 850 FEL / TWSP: 24S / RANGE: 30E / SECTION: 21 / LAT: 32.209429 / LONG: -103.880337 (TVD: 12114 feet, MD: 12600 feet)

PPP: SESE / 330 FSL / 850 FEL / TWSP: 24S / RANGE: 30E / SECTION: 04 / LAT: 32.24022 / LONG: -103.8787 (TVD: 12114 feet, MD: 23500 feet)

PPP: SESE / 330 FSL / 850 FEL / TWSP: 24S / RANGE: 30E / SECTION: 09 / LAT: 32.22562 / LONG: -103.8784 (TVD: 12114 feet, MD: 18000 feet)

PPP: SESE / 330 FSL / 870 FEL / TWSP: 23S / RANGE: 30E / SECTION: 33 / LAT: 32.25488 / LONG: -103.8784 (TVD: 12114 feet, MD: 28800 feet)

BHL: NENE / 200 FNL / 870 FEL / TWSP: 23S / RANGE: 30E / SECTION: 33 / LAT: 32.268078 / LONG: -103.880402 (TVD: 12114 feet, MD: 33856 feet)

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO
LEASE NO.:	NMLC068430
LOCATION:	Sec. 21, T.24 S, R 30 E
COUNTY:	Eddy County, New Mexico ▼
WELL NAME & NO.:	Poker Lake Unit 21 DTD 185H
SURFACE HOLE FOOTAGE:	1367'N & 1366'E
BOTTOM HOLE FOOTAGE:	2630'N & 2181'E

WELL NAME & NO.:	Poker Lake Unit 21 DTD 187H
SURFACE HOLE FOOTAGE:	332'S & 97'E
BOTTOM HOLE FOOTAGE:	2627'N & 294'E

*Changes approved through engineering via **Sundry 2784130,2784171** on 9-12-2024. Any previous COAs not addressed within the updated COAs still apply.*

COA

H ₂ S	☑ No	☐ Yes
Potash / WIPP	<input checked="" type="radio"/> None <input type="radio"/> Secretary <input type="radio"/> R-111-Q <input type="checkbox"/> Open Annulus Choose an option (including blank option.)	<input type="checkbox"/> WIPP
Cave / Karst	<input checked="" type="radio"/> Low <input type="radio"/> Medium <input type="radio"/> High <input type="radio"/> Critical	
Wellhead	<input type="radio"/> Conventional <input checked="" type="radio"/> Multibowl <input type="radio"/> Both <input type="radio"/> Diverter	
Cementing	<input 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.

B. CASING

1. The **13-3/8** inch surface casing shall be set at approximately **900** 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.

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 1 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 10,000 (10M) psi. **Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.**
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one-inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172 must be followed.

D. SPECIAL REQUIREMENT (S)

Unit Wells

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

Commercial Well Determination

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

BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for intervals utilizing a 5M BOPE or less. **(Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP.)**

- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer (575-706-2779) prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-361-2822 Eddy County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per 43 CFR 3172.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

Offline Cementing

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

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

Casing Clearance

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

GENERAL REQUIREMENTS

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

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

Contact Eddy County Petroleum Engineering Inspection Staff:

Email or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220;
[BLM NM CFO DrillingNotifications@BLM.GOV](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

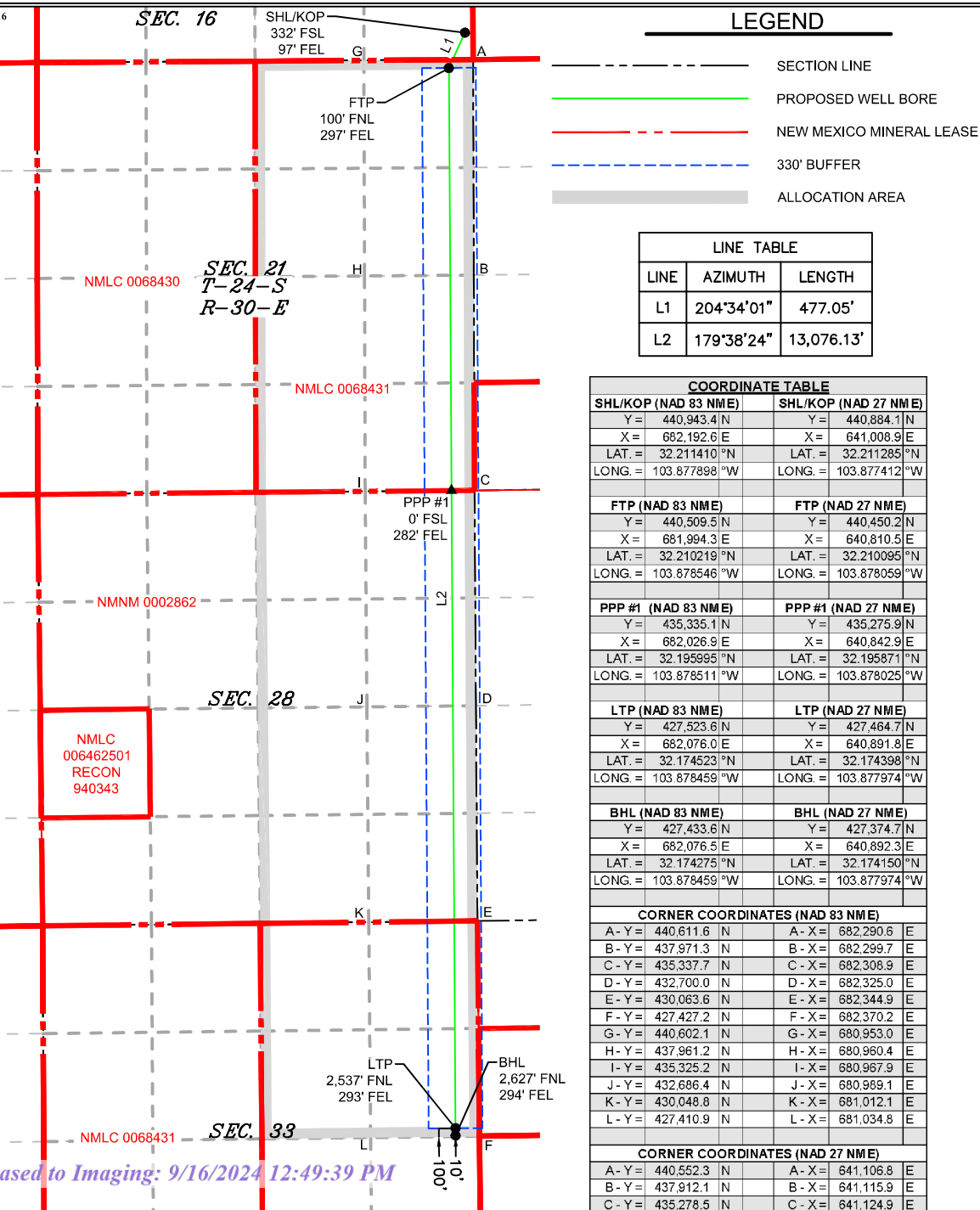
disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

Approved by Zota Stevens on 9/12/2024
575-234-5998 / zstevens@blm.gov

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015- 53264		² Pool Code 98220		³ Pool Name PURPLE SAGE;WOLFCAMP (GAS)					
⁴ Property Code 333571		⁵ Property Name POKER LAKE UNIT 21 DTD						⁶ Well Number 187H	
⁷ OGRID No. 373075		⁸ Operator Name XTO PERMIAN OPERATING, LLC.						⁹ Elevation 3,399'	
¹⁰ Surface Location									
UL or lot no. P	Section 16	Township 24S	Range 30E	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County EDDY
¹¹ Bottom Hole Location If Different From Surface									
UL or lot no. H	Section 33	Township 24S	Range 30E	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County EDDY
¹² Dedicated Acres 800.00		¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No.			

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



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 7/15/2024
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 187H

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 297	From E/W EAST	County EDDY
Latitude 32.210219					Longitude -103.878546				NAD 83

Last Take Point (LTP)

UL H	Section 33	Township 24S	Range 30E	Lot	Feet 2,537	From N/S NORTH	Feet 293	From E/W EAST	County EDDY
Latitude 32.174523					Longitude -103.8788459				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 187H

Projected TD: 24833' MD / 12005' TVD

SHL: 332' FSL & 97' FEL , Section 16, T24S, R30E

BHL: 2627' FNL & 294' 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	1046'	Water
Top of Salt	1449'	Water
Base of Salt	3642'	Water
Delaware	3836'	Water
Brushy Canyon	6382'	Water/Oil/Gas
Bone Spring	7706'	Water
Avalon	8399'	Water/Oil/Gas
1st Bone Spring	8415'	Water/Oil/Gas
2nd Bone Spring	9000'	Water/Oil/Gas
3rd Bone Spring	9826'	Water/Oil/Gas
Wolfcamp	11011'	Water/Oil/Gas
Wolfcamp X	11032'	Water/Oil/Gas
Wolfcamp Y	11113'	Water/Oil/Gas
Wolfcamp A	11160'	Water/Oil/Gas
Wolfcamp B	11543'	Water/Oil/Gas
Wolfcamp C	11748'	Water/Oil/Gas
Wolfcamp D	11975'	Water/Oil/Gas
Target/Land Curve	12005'	Water/Oil/Gas

*** Hydrocarbons @ Brushy Canyon

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

No other formations are expected to yield oil, gas or fresh water in measurable volumes. The surface fresh water sands will be protected by setting 9.625 inch casing @ 1146' (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 11148' and cemented to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 24833 MD/TD and 5.5 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 10848 feet).

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0' – 1146'	9.625	40	J-55	BTC	New	1.49	5.49	13.74
8.75	0' – 4000'	7.625	29.7	RY P-110	Flush Joint	New	1.86	2.92	1.69
8.75	4000' – 11148'	7.625	29.7	HC L-80	Flush Joint	New	1.35	2.14	1.91
6.75	0' – 11048'	5.5	20	RY P-110	Semi-Premium	New	1.05	1.56	1.91
6.75	11048' - 24833'	5.5	20	RY P-110	Semi-Flush	New	1.05	1.43	1.91

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

- 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
- Test on Casing will be limited to 70% burst of the casing or 1500 psi, whichever is less
- XTO requests the option to use 5" BTC Float equipment for the the production casing

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 +/- 1146'

Lead: 280 sxs EconoCem-HLTRRC (mixed at 10.5 ppg, 1.87 ft³/sx, 10.13 gal/sx water)

Tail: 130 sxs Class C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft³/sx, 6.39 gal/sx water)

Top of Cement: Surface

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

2nd Intermediate Casing: 7.625, 29.7 New casing to be set at +/- 11148'

1st Stage

Optional Lead: 340 sxs Class C (mixed at 10.5 ppg, 2.77 ft³/sx, 15.59 gal/sx water)

TOC: Surface

Tail: 440 sxs Class C (mixed at 14.8 ppg, 1.35 ft³/sx, 6.39 gal/sx water)

TOC: Brushy Canyon @ 6382

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

2nd Stage

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

Tail: 720 sxs Class C (mixed at 14.8 ppg, 1.33 ft³/sx, 6.39 gal/sx water)

Top of Cement: 0

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

XTO requests to pump a two stage cement job on the 7-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brush Canyon (6382') 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 +/- 24833'

Lead: 20 sxs NeoCem (mixed at 13.2 ppg, 2.69 ft³/sx, 15.00 gal/sx water) Top of Cement: 10848 feet

Tail: 960 sxs VersaCem (mixed at 14.5 ppg, 1.51 ft³/sx, 8.38 gal/sx water) Top of Cement: 11348 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.

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

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)	Additional Comments
0' - 1146'	12.25	FW/Native	8.5-9	35-40	NC	Fresh water or native water
1146' - 11148'	8.75	Saturated brine for salt interval / Direct emulsion	10-10.5	30-32	NC	Fully saturated salt across salado / salt
11148' - 24833'	6.75	OBM	13-13.5	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 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 7741 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 187H

Measured Depth: 24832.83 ft
TVD RKB: 12005.00 ft
Location
Cartographic Reference System: New Mexico East - NAD 27
Northing: 440884.10 ft
Easting: 641008.90 ft
RKB: 3431.00 ft
Ground Level: 3399.00 ft
North Reference: Grid
Convergence Angle: 0.24 Deg

Plan Sections Poker Lake Unit 21 DTD South 187H

Measured		TVD		Y Offset		X Offset		Build		Turn		Dogleg	
Depth	(ft)	Inclination	(Deg)	Azimuth	(Deg)	RKB	(ft)	Rate	(Deg/100ft)	Rate	(Deg/100ft)	Rate	(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	0.00
3700.00		0.00	0.00	0.00	0.00	3700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4569.05		17.38	204.57	4555.78	-118.96	-54.40	2.00	0.00	0.00	0.00	0.00	2.00	0.00
5290.42		17.38	204.57	5244.22	-314.94	-144.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6159.47		0.00	0.00	6100.00	-433.90	-198.40	-2.00	0.00	0.00	0.00	0.00	2.00	0.00
11348.27		0.00	0.00	11288.80	-433.90	-198.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12473.27		90.00	179.64	12005.00	-1150.08	-193.93	8.00	0.00	0.00	0.00	0.00	8.00	0.00
24742.83		90.00	179.64	12005.00	-13419.40	-117.26	0.00	0.00	0.00	0.00	0.00	0.00	LTP 12
24832.83		90.00	179.64	12005.00	-13509.40	-116.70	0.00	0.00	0.00	0.00	0.00	0.00	BHL 12

Position Uncertainty Poker Lake Unit 21 DTD South 187H

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	Azimuth	Used
(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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	129.102	MWD+IFR1+MS
1500.000	0.000	0.000	1500.000	5.860	0.000	5.672	0.000	2.880	0.000	6.213	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	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	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	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	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	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	129.394	MWD+IFR1+MS
2200.000	0.000	0.000	2200.000	8.375	0.000	8.190	0.000	3.394	0.000	8.748	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	129.444	MWD+IFR1+MS
2400.000	0.000	0.000	2400.000	9.093	0.000	8.909	0.000	3.556	0.000	9.470	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	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	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	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	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	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	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	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	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	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	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	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	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	14.150	13.167	129.642	MWD+IFR1+MS
3800.000	2.000	204.572	3799.980	14.419	-0.000	13.574	0.000	4.841	0.000	14.489	13.507	129.416	MWD+IFR1+MS
3900.000	4.000	204.572	3899.838	14.885	-0.000	13.908	0.000	4.943	0.000	14.987	13.831	129.218	MWD+IFR1+MS
4000.000	6.000	204.572	3999.452	15.327	-0.000	14.241	0.000	5.048	0.000	15.474	14.155	129.069	MWD+IFR1+MS
4100.000	8.000	204.572	4098.702	15.745	-0.000	14.575	0.000	5.156	0.000	15.953	14.480	128.957	MWD+IFR1+MS
4200.000	10.000	204.572	4197.465	16.142	-0.000	14.909	0.000	5.271	0.000	16.422	14.806	128.877	MWD+IFR1+MS
4300.000	12.000	204.572	4295.623	16.516	-0.000	15.244	0.000	5.391	0.000	16.882	15.132	128.823	MWD+IFR1+MS
4400.000	14.000	204.572	4393.055	16.868	-0.000	15.579	0.000	5.520	0.000	17.333	15.459	128.795	MWD+IFR1+MS
4500.000	16.000	204.572	4489.643	17.199	-0.000	15.915	0.000	5.658	0.000	17.774	15.788	128.792	MWD+IFR1+MS
4569.050	17.381	204.572	4555.782	17.361	-0.000	16.144	0.000	5.743	0.000	18.023	16.016	128.776	MWD+IFR1+MS
4600.000	17.381	204.572	4585.319	17.455	-0.000	16.245	0.000	5.777	0.000	18.114	16.118	128.767	MWD+IFR1+MS
4700.000	17.381	204.572	4680.753	17.761	-0.000	16.579	0.000	5.898	0.000	18.406	16.454	128.864	MWD+IFR1+MS
4800.000	17.381	204.572	4776.187	18.077	-0.000	16.924	0.000	6.024	0.000	18.709	16.797	129.119	MWD+IFR1+MS
4900.000	17.381	204.572	4871.621	18.396	-0.000	17.271	0.000	6.153	0.000	19.016	17.143	129.383	MWD+IFR1+MS
5000.000	17.381	204.572	4967.055	18.720	-0.000	17.622	0.000	6.285	0.000	19.327	17.492	129.656	MWD+IFR1+MS
5100.000	17.381	204.572	5062.489	19.047	-0.000	17.975	0.000	6.421	0.000	19.642	17.843	129.939	MWD+IFR1+MS
5200.000	17.381	204.572	5157.923	19.378	-0.000	18.332	0.000	6.560	0.000	19.959	18.198	130.231	MWD+IFR1+MS
5290.424	17.381	204.572	5244.218	19.678	-0.000	18.654	0.000	6.688	0.000	20.247	18.519	130.461	MWD+IFR1+MS
5300.000	17.189	204.572	5253.361	19.723	-0.000	18.688	0.000	6.702	0.000	20.276	18.553	130.467	MWD+IFR1+MS
5400.000	15.189	204.572	5349.391	20.223	-0.000	19.042	0.000	6.856	0.000	20.627	18.907	130.497	MWD+IFR1+MS
5500.000	13.189	204.572	5446.335	20.793	-0.000	19.404	0.000	7.027	0.000	21.072	19.263	130.463	MWD+IFR1+MS
5600.000	11.189	204.572	5544.076	21.333	-0.000	19.766	0.000	7.191	0.000	21.517	19.619	130.414	MWD+IFR1+MS
5700.000	9.189	204.572	5642.493	21.845	-0.000	20.128	0.000	7.347	0.000	21.962	19.974	130.354	MWD+IFR1+MS
5800.000	7.189	204.572	5741.469	22.326	-0.000	20.487	0.000	7.497	0.000	22.405	20.327	130.291	MWD+IFR1+MS
5900.000	5.189	204.572	5840.881	22.777	-0.000	20.844	0.000	7.642	0.000	22.845	20.679	130.227	MWD+IFR1+MS
6000.000	3.189	204.572	5940.608	23.197	-0.000	21.198	0.000	7.784	0.000	23.281	21.028	130.166	MWD+IFR1+MS
6100.000	1.189	204.572	6040.530	23.586	-0.000	21.549	0.000	7.923	0.000	23.711	21.373	130.112	MWD+IFR1+MS

6159.474	0.000	0.000	6100.000	22.963	0.000	22.571	0.000	8.005	0.000	23.897	21.579	130.133	MWD+IFR1+MS
6200.000	0.000	0.000	6140.526	23.097	0.000	22.705	0.000	8.060	0.000	24.026	21.720	130.093	MWD+IFR1+MS
6300.000	0.000	0.000	6240.526	23.428	0.000	23.038	0.000	8.199	0.000	24.346	22.066	130.065	MWD+IFR1+MS
6400.000	0.000	0.000	6340.526	23.764	0.000	23.376	0.000	8.341	0.000	24.674	22.413	130.054	MWD+IFR1+MS
6500.000	0.000	0.000	6440.526	24.100	0.000	23.715	0.000	8.485	0.000	25.003	22.761	130.043	MWD+IFR1+MS
6600.000	0.000	0.000	6540.526	24.437	0.000	24.054	0.000	8.631	0.000	25.333	23.109	130.032	MWD+IFR1+MS
6700.000	0.000	0.000	6640.526	24.775	0.000	24.394	0.000	8.780	0.000	25.664	23.457	130.021	MWD+IFR1+MS
6800.000	0.000	0.000	6740.526	25.113	0.000	24.734	0.000	8.932	0.000	25.995	23.806	130.011	MWD+IFR1+MS
6900.000	0.000	0.000	6840.526	25.452	0.000	25.075	0.000	9.086	0.000	26.327	24.154	130.001	MWD+IFR1+MS
7000.000	0.000	0.000	6940.526	25.791	0.000	25.416	0.000	9.243	0.000	26.660	24.503	129.990	MWD+IFR1+MS
7100.000	0.000	0.000	7040.526	26.131	0.000	25.758	0.000	9.402	0.000	26.994	24.853	129.980	MWD+IFR1+MS
7200.000	0.000	0.000	7140.526	26.471	0.000	26.100	0.000	9.564	0.000	27.328	25.202	129.970	MWD+IFR1+MS
7300.000	0.000	0.000	7240.526	26.812	0.000	26.443	0.000	9.729	0.000	27.662	25.552	129.960	MWD+IFR1+MS
7400.000	0.000	0.000	7340.526	27.153	0.000	26.786	0.000	9.896	0.000	27.998	25.902	129.950	MWD+IFR1+MS
7500.000	0.000	0.000	7440.526	27.495	0.000	27.130	0.000	10.067	0.000	28.334	26.253	129.941	MWD+IFR1+MS
7600.000	0.000	0.000	7540.526	27.837	0.000	27.473	0.000	10.240	0.000	28.670	26.603	129.931	MWD+IFR1+MS
7700.000	0.000	0.000	7640.526	28.179	0.000	27.818	0.000	10.415	0.000	29.007	26.954	129.922	MWD+IFR1+MS
7800.000	0.000	0.000	7740.526	28.522	0.000	28.162	0.000	10.594	0.000	29.344	27.305	129.912	MWD+IFR1+MS
7900.000	0.000	0.000	7840.526	28.866	0.000	28.507	0.000	10.775	0.000	29.682	27.656	129.903	MWD+IFR1+MS
8000.000	0.000	0.000	7940.526	29.209	0.000	28.852	0.000	10.959	0.000	30.021	28.007	129.894	MWD+IFR1+MS
8100.000	0.000	0.000	8040.526	29.553	0.000	29.198	0.000	11.146	0.000	30.360	28.359	129.885	MWD+IFR1+MS
8200.000	0.000	0.000	8140.526	29.897	0.000	29.544	0.000	11.336	0.000	30.699	28.710	129.876	MWD+IFR1+MS
8300.000	0.000	0.000	8240.526	30.242	0.000	29.890	0.000	11.529	0.000	31.039	29.062	129.867	MWD+IFR1+MS
8400.000	0.000	0.000	8340.526	30.587	0.000	30.237	0.000	11.724	0.000	31.379	29.414	129.858	MWD+IFR1+MS
8500.000	0.000	0.000	8440.526	30.932	0.000	30.583	0.000	11.923	0.000	31.719	29.766	129.850	MWD+IFR1+MS
8600.000	0.000	0.000	8540.526	31.278	0.000	30.930	0.000	12.124	0.000	32.060	30.118	129.841	MWD+IFR1+MS
8700.000	0.000	0.000	8640.526	31.624	0.000	31.278	0.000	12.328	0.000	32.402	30.471	129.833	MWD+IFR1+MS
8800.000	0.000	0.000	8740.526	31.970	0.000	31.625	0.000	12.535	0.000	32.743	30.823	129.824	MWD+IFR1+MS
8900.000	0.000	0.000	8840.526	32.316	0.000	31.973	0.000	12.746	0.000	33.085	31.176	129.816	MWD+IFR1+MS
9000.000	0.000	0.000	8940.526	32.663	0.000	32.321	0.000	12.959	0.000	33.428	31.529	129.808	MWD+IFR1+MS
9100.000	0.000	0.000	9040.526	33.010	0.000	32.669	0.000	13.175	0.000	33.771	31.882	129.800	MWD+IFR1+MS
9200.000	0.000	0.000	9140.526	33.357	0.000	33.017	0.000	13.394	0.000	34.114	32.235	129.791	MWD+IFR1+MS
9300.000	0.000	0.000	9240.526	33.704	0.000	33.366	0.000	13.616	0.000	34.457	32.588	129.784	MWD+IFR1+MS

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9400.000	0.000	0.000	9340.526	34.052	0.000	33.715	0.000	13.840	0.000	0.000	34.801	32.942	129.776	MWD+IFR1+MS
9500.000	0.000	0.000	9440.526	34.400	0.000	34.064	0.000	14.068	0.000	0.000	35.145	33.295	129.768	MWD+IFR1+MS
9600.000	0.000	0.000	9540.526	34.748	0.000	34.413	0.000	14.299	0.000	0.000	35.489	33.649	129.760	MWD+IFR1+MS
9700.000	0.000	0.000	9640.526	35.096	0.000	34.763	0.000	14.533	0.000	0.000	35.833	34.002	129.753	MWD+IFR1+MS
9800.000	0.000	0.000	9740.526	35.445	0.000	35.112	0.000	14.770	0.000	0.000	36.178	34.356	129.745	MWD+IFR1+MS
9900.000	0.000	0.000	9840.526	35.793	0.000	35.462	0.000	15.010	0.000	0.000	36.523	34.710	129.737	MWD+IFR1+MS
10000.000	0.000	0.000	9940.526	36.142	0.000	35.812	0.000	15.253	0.000	0.000	36.869	35.064	129.730	MWD+IFR1+MS
10100.000	0.000	0.000	10040.526	36.491	0.000	36.162	0.000	15.499	0.000	0.000	37.214	35.418	129.723	MWD+IFR1+MS
10200.000	0.000	0.000	10140.526	36.840	0.000	36.513	0.000	15.748	0.000	0.000	37.560	35.772	129.715	MWD+IFR1+MS
10300.000	0.000	0.000	10240.526	37.190	0.000	36.863	0.000	16.000	0.000	0.000	37.906	36.126	129.708	MWD+IFR1+MS
10400.000	0.000	0.000	10340.526	37.539	0.000	37.214	0.000	16.255	0.000	0.000	38.252	36.480	129.701	MWD+IFR1+MS
10500.000	0.000	0.000	10440.526	37.889	0.000	37.564	0.000	16.513	0.000	0.000	38.599	36.835	129.694	MWD+IFR1+MS
10600.000	0.000	0.000	10540.526	38.239	0.000	37.915	0.000	16.774	0.000	0.000	38.946	37.189	129.687	MWD+IFR1+MS
10700.000	0.000	0.000	10640.526	38.589	0.000	38.266	0.000	17.039	0.000	0.000	39.293	37.544	129.680	MWD+IFR1+MS
10800.000	0.000	0.000	10740.526	38.939	0.000	38.617	0.000	17.306	0.000	0.000	39.640	37.898	129.673	MWD+IFR1+MS
10900.000	0.000	0.000	10840.526	39.290	0.000	38.969	0.000	17.576	0.000	0.000	39.987	38.253	129.667	MWD+IFR1+MS
11000.000	0.000	0.000	10940.526	39.640	0.000	39.320	0.000	17.850	0.000	0.000	40.335	38.608	129.660	MWD+IFR1+MS
11100.000	0.000	0.000	11040.526	39.991	0.000	39.672	0.000	18.126	0.000	0.000	40.682	38.962	129.653	MWD+IFR1+MS
11200.000	0.000	0.000	11140.526	40.342	0.000	40.023	0.000	18.406	0.000	0.000	41.030	39.317	129.647	MWD+IFR1+MS
11300.000	0.000	0.000	11240.526	40.693	0.000	40.375	0.000	18.688	0.000	0.000	41.378	39.672	129.640	MWD+IFR1+MS
11348.274	0.000	0.000	11288.800	40.860	0.000	40.544	0.000	18.826	0.000	0.000	41.543	39.843	129.627	MWD+IFR1+MS
11400.000	4.138	179.642	11340.481	41.057	0.000	40.729	-0.000	18.974	0.000	0.000	41.724	40.029	129.335	MWD+IFR1+MS
11500.000	12.138	179.642	11439.394	41.540	0.000	41.061	-0.000	19.294	0.000	0.000	42.464	40.530	120.937	MWD+IFR1+MS
11600.000	20.138	179.642	11535.375	41.837	0.000	41.392	-0.000	19.742	0.000	0.000	43.569	41.007	112.138	MWD+IFR1+MS
11700.000	28.138	179.642	11626.557	41.532	0.000	41.716	-0.000	20.363	0.000	0.000	44.618	41.396	107.693	MWD+IFR1+MS
11800.000	36.138	179.642	11711.165	40.683	0.000	42.028	-0.000	21.191	0.000	0.000	45.540	41.739	105.318	MWD+IFR1+MS
11900.000	44.138	179.642	11787.553	39.372	0.000	42.325	-0.000	22.234	0.000	0.000	46.305	42.051	104.020	MWD+IFR1+MS
12000.000	52.138	179.642	11854.232	37.716	0.000	42.604	-0.000	23.476	0.000	0.000	46.903	42.334	103.355	MWD+IFR1+MS
12100.000	60.138	179.642	11909.906	35.862	0.000	42.862	-0.000	24.882	0.000	0.000	47.337	42.592	103.100	MWD+IFR1+MS
12200.000	68.138	179.642	11953.491	34.001	0.000	43.097	-0.000	26.406	0.000	0.000	47.623	42.822	103.124	MWD+IFR1+MS
12300.000	76.138	179.642	11984.139	32.358	0.000	43.306	-0.000	27.995	0.000	0.000	47.785	43.026	103.332	MWD+IFR1+MS
12400.000	84.138	179.642	12001.252	31.180	0.000	43.487	-0.000	29.595	0.000	0.000	47.856	43.201	103.625	MWD+IFR1+MS
12473.274	90.000	179.642	12004.997	30.278	0.000	43.598	-0.000	30.278	0.000	0.000	47.872	43.311	103.811	MWD+IFR1+MS

12500.000	90.000	179.642	12004.997	30.330	0.000	43.634	-0.000	30.330	0.000	47.875	43.348	103.870	MWD+IFR1+MS
12600.000	90.000	179.642	12004.997	30.486	0.000	43.784	-0.000	30.486	0.000	47.885	43.496	104.139	MWD+IFR1+MS
12700.000	90.000	179.642	12004.997	30.664	0.000	43.950	-0.000	30.664	0.000	47.898	43.660	104.473	MWD+IFR1+MS
12800.000	90.000	179.642	12004.997	30.861	0.000	44.128	-0.000	30.861	0.000	47.912	43.834	104.873	MWD+IFR1+MS
12900.000	90.000	179.642	12004.997	31.077	0.000	44.318	-0.000	31.077	0.000	47.928	44.020	105.350	MWD+IFR1+MS
13000.000	90.000	179.642	12004.997	31.311	0.000	44.521	-0.000	31.311	0.000	47.947	44.217	105.918	MWD+IFR1+MS
13100.000	90.000	179.642	12004.997	31.563	0.000	44.736	-0.000	31.563	0.000	47.967	44.424	106.594	MWD+IFR1+MS
13200.000	90.000	179.642	12004.997	31.832	0.000	44.963	-0.000	31.832	0.000	47.990	44.641	107.400	MWD+IFR1+MS
13300.000	90.000	179.642	12004.997	32.119	0.000	45.202	-0.000	32.119	0.000	48.017	44.868	108.365	MWD+IFR1+MS
13400.000	90.000	179.642	12004.997	32.421	0.000	45.453	-0.000	32.421	0.000	48.047	45.102	109.527	MWD+IFR1+MS
13500.000	90.000	179.642	12004.997	32.740	0.000	45.715	-0.000	32.740	0.000	48.083	45.344	110.936	MWD+IFR1+MS
13600.000	90.000	179.642	12004.997	33.074	0.000	45.988	-0.000	33.074	0.000	48.124	45.592	112.657	MWD+IFR1+MS
13700.000	90.000	179.642	12004.997	33.423	0.000	46.272	-0.000	33.423	0.000	48.173	45.844	114.772	MWD+IFR1+MS
13800.000	90.000	179.642	12004.997	33.787	0.000	46.568	-0.000	33.787	0.000	48.232	46.096	117.387	MWD+IFR1+MS
13900.000	90.000	179.642	12004.997	34.165	0.000	46.873	-0.000	34.165	0.000	48.306	46.346	120.618	MWD+IFR1+MS
14000.000	90.000	179.642	12004.997	34.557	0.000	47.190	-0.000	34.557	0.000	48.398	46.589	124.576	MWD+IFR1+MS
14100.000	90.000	179.642	12004.997	34.962	0.000	47.516	-0.000	34.962	0.000	48.514	46.818	129.306	MWD+IFR1+MS
14200.000	90.000	179.642	12004.997	35.380	0.000	47.853	-0.000	35.380	0.000	48.662	47.026	134.705	MWD+IFR1+MS
14300.000	90.000	179.642	12004.997	35.810	0.000	48.199	-0.000	35.810	0.000	48.847	47.207	-39.541	MWD+IFR1+MS
14400.000	90.000	179.642	12004.997	36.252	0.000	48.555	-0.000	36.252	0.000	49.070	47.360	-33.888	MWD+IFR1+MS
14500.000	90.000	179.642	12004.997	36.705	0.000	48.920	-0.000	36.705	0.000	49.331	47.486	-28.747	MWD+IFR1+MS
14600.000	90.000	179.642	12004.997	37.170	0.000	49.295	-0.000	37.170	0.000	49.626	47.588	-24.338	MWD+IFR1+MS
14700.000	90.000	179.642	12004.997	37.645	0.000	49.678	-0.000	37.645	0.000	49.947	47.672	-20.690	MWD+IFR1+MS
14800.000	90.000	179.642	12004.997	38.130	0.000	50.071	-0.000	38.130	0.000	50.292	47.742	-17.718	MWD+IFR1+MS
14900.000	90.000	179.642	12004.997	38.625	0.000	50.471	-0.000	38.625	0.000	50.656	47.803	-15.305	MWD+IFR1+MS
15000.000	90.000	179.642	12004.997	39.130	0.000	50.881	-0.000	39.130	0.000	51.036	47.856	-13.337	MWD+IFR1+MS
15100.000	90.000	179.642	12004.997	39.644	0.000	51.298	-0.000	39.644	0.000	51.430	47.904	-11.719	MWD+IFR1+MS
15200.000	90.000	179.642	12004.997	40.166	0.000	51.723	-0.000	40.166	0.000	51.837	47.948	-10.376	MWD+IFR1+MS
15300.000	90.000	179.642	12004.997	40.697	0.000	52.156	-0.000	40.697	0.000	52.254	47.990	-9.250	MWD+IFR1+MS
15400.000	90.000	179.642	12004.997	41.236	0.000	52.597	-0.000	41.236	0.000	52.682	48.029	-8.297	MWD+IFR1+MS
15500.000	90.000	179.642	12004.997	41.783	0.000	53.045	-0.000	41.783	0.000	53.119	48.067	-7.484	MWD+IFR1+MS
15600.000	90.000	179.642	12004.997	42.337	0.000	53.500	-0.000	42.337	0.000	53.565	48.104	-6.783	MWD+IFR1+MS
15700.000	90.000	179.642	12004.997	42.899	0.000	53.963	-0.000	42.899	0.000	54.020	48.140	-6.174	MWD+IFR1+MS

15800.000	90.000	179.642	12004.997	43.467	0.000	54.432	-0.000	43.467	0.000	54.482	48.175	-5.642	MWD+IFR1+MS
15900.000	90.000	179.642	12004.997	44.042	0.000	54.908	-0.000	44.042	0.000	54.952	48.211	-5.175	MWD+IFR1+MS
16000.000	90.000	179.642	12004.997	44.624	0.000	55.390	-0.000	44.624	0.000	55.429	48.246	-4.761	MWD+IFR1+MS
16100.000	90.000	179.642	12004.997	45.212	0.000	55.878	-0.000	45.212	0.000	55.914	48.281	-4.393	MWD+IFR1+MS
16200.000	90.000	179.642	12004.997	45.805	0.000	56.373	-0.000	45.805	0.000	56.405	48.316	-4.065	MWD+IFR1+MS
16300.000	90.000	179.642	12004.997	46.404	0.000	56.874	-0.000	46.404	0.000	56.902	48.351	-3.770	MWD+IFR1+MS
16400.000	90.000	179.642	12004.997	47.009	0.000	57.381	-0.000	47.009	0.000	57.406	48.386	-3.504	MWD+IFR1+MS
16500.000	90.000	179.642	12004.997	47.619	0.000	57.893	-0.000	47.619	0.000	57.915	48.422	-3.263	MWD+IFR1+MS
16600.000	90.000	179.642	12004.997	48.234	0.000	58.411	-0.000	48.234	0.000	58.431	48.457	-3.045	MWD+IFR1+MS
16700.000	90.000	179.642	12004.997	48.854	0.000	58.934	-0.000	48.854	0.000	58.952	48.494	-2.846	MWD+IFR1+MS
16800.000	90.000	179.642	12004.997	49.478	0.000	59.463	-0.000	49.478	0.000	59.479	48.530	-2.665	MWD+IFR1+MS
16900.000	90.000	179.642	12004.997	50.107	0.000	59.996	-0.000	50.107	0.000	60.011	48.567	-2.498	MWD+IFR1+MS
17000.000	90.000	179.642	12004.997	50.741	0.000	60.535	-0.000	50.741	0.000	60.548	48.604	-2.346	MWD+IFR1+MS
17100.000	90.000	179.642	12004.997	51.378	0.000	61.078	-0.000	51.378	0.000	61.090	48.642	-2.205	MWD+IFR1+MS
17200.000	90.000	179.642	12004.997	52.020	0.000	61.627	-0.000	52.020	0.000	61.637	48.680	-2.076	MWD+IFR1+MS
17300.000	90.000	179.642	12004.997	52.665	0.000	62.179	-0.000	52.665	0.000	62.189	48.719	-1.956	MWD+IFR1+MS
17400.000	90.000	179.642	12004.997	53.314	0.000	62.737	-0.000	53.314	0.000	62.745	48.758	-1.845	MWD+IFR1+MS
17500.000	90.000	179.642	12004.997	53.967	0.000	63.298	-0.000	53.967	0.000	63.306	48.797	-1.742	MWD+IFR1+MS
17600.000	90.000	179.642	12004.997	54.624	0.000	63.864	-0.000	54.624	0.000	63.871	48.837	-1.647	MWD+IFR1+MS
17700.000	90.000	179.642	12004.997	55.283	0.000	64.434	-0.000	55.283	0.000	64.440	48.878	-1.558	MWD+IFR1+MS
17800.000	90.000	179.642	12004.997	55.946	0.000	65.008	-0.000	55.946	0.000	65.013	48.919	-1.475	MWD+IFR1+MS
17900.000	90.000	179.642	12004.997	56.612	0.000	65.586	-0.000	56.612	0.000	65.591	48.960	-1.397	MWD+IFR1+MS
18000.000	90.000	179.642	12004.997	57.281	0.000	66.168	-0.000	57.281	0.000	66.172	49.002	-1.325	MWD+IFR1+MS
18100.000	90.000	179.642	12004.997	57.953	0.000	66.753	-0.000	57.953	0.000	66.757	49.045	-1.257	MWD+IFR1+MS
18200.000	90.000	179.642	12004.997	58.628	0.000	67.342	-0.000	58.628	0.000	67.346	49.088	-1.194	MWD+IFR1+MS
18300.000	90.000	179.642	12004.997	59.305	0.000	67.935	-0.000	59.305	0.000	67.938	49.131	-1.134	MWD+IFR1+MS
18400.000	90.000	179.642	12004.997	59.985	0.000	68.531	-0.000	59.985	0.000	68.533	49.175	-1.078	MWD+IFR1+MS
18500.000	90.000	179.642	12004.997	60.668	0.000	69.130	-0.000	60.668	0.000	69.132	49.220	-1.026	MWD+IFR1+MS
18600.000	90.000	179.642	12004.997	61.353	0.000	69.733	-0.000	61.353	0.000	69.735	49.265	-0.976	MWD+IFR1+MS
18700.000	90.000	179.642	12004.997	62.040	0.000	70.338	-0.000	62.040	0.000	70.340	49.310	-0.929	MWD+IFR1+MS
18800.000	90.000	179.642	12004.997	62.730	0.000	70.947	-0.000	62.730	0.000	70.949	49.357	-0.885	MWD+IFR1+MS
18900.000	90.000	179.642	12004.997	63.421	0.000	71.559	-0.000	63.421	0.000	71.560	49.403	-0.844	MWD+IFR1+MS
19000.000	90.000	179.642	12004.997	64.115	0.000	72.174	-0.000	64.115	0.000	72.175	49.450	-0.805	MWD+IFR1+MS

19100.000	90.000	179.642	12004.997	64.811	0.000	72.792	-0.000	64.811	0.000	72.793	49.498	-0.768	MWD+IFR1+MS
19200.000	90.000	179.642	12004.997	65.510	0.000	73.412	-0.000	65.510	0.000	73.413	49.546	-0.733	MWD+IFR1+MS
19300.000	90.000	179.642	12004.997	66.210	0.000	74.035	-0.000	66.210	0.000	74.036	49.595	-0.699	MWD+IFR1+MS
19400.000	90.000	179.642	12004.997	66.911	0.000	74.661	-0.000	66.911	0.000	74.662	49.645	-0.668	MWD+IFR1+MS
19500.000	90.000	179.642	12004.997	67.615	0.000	75.289	-0.000	67.615	0.000	75.290	49.694	-0.638	MWD+IFR1+MS
19600.000	90.000	179.642	12004.997	68.321	0.000	75.920	-0.000	68.321	0.000	75.921	49.745	-0.610	MWD+IFR1+MS
19700.000	90.000	179.642	12004.997	69.028	0.000	76.554	-0.000	69.028	0.000	76.554	49.796	-0.583	MWD+IFR1+MS
19800.000	90.000	179.642	12004.997	69.737	0.000	77.190	-0.000	69.737	0.000	77.190	49.847	-0.557	MWD+IFR1+MS
19900.000	90.000	179.642	12004.997	70.447	0.000	77.828	-0.000	70.447	0.000	77.828	49.899	-0.533	MWD+IFR1+MS
20000.000	90.000	179.642	12004.997	71.159	0.000	78.468	-0.000	71.159	0.000	78.468	49.952	-0.510	MWD+IFR1+MS
20100.000	90.000	179.642	12004.997	71.873	0.000	79.111	-0.000	71.873	0.000	79.111	50.005	-0.488	MWD+IFR1+MS
20200.000	90.000	179.642	12004.997	72.588	0.000	79.755	-0.000	72.588	0.000	79.756	50.058	-0.467	MWD+IFR1+MS
20300.000	90.000	179.642	12004.997	73.304	0.000	80.402	-0.000	73.304	0.000	80.402	50.112	-0.448	MWD+IFR1+MS
20400.000	90.000	179.642	12004.997	74.022	0.000	81.051	-0.000	74.022	0.000	81.051	50.167	-0.429	MWD+IFR1+MS
20500.000	90.000	179.642	12004.997	74.741	0.000	81.702	-0.000	74.741	0.000	81.702	50.222	-0.411	MWD+IFR1+MS
20600.000	90.000	179.642	12004.997	75.462	0.000	82.355	-0.000	75.462	0.000	82.355	50.278	-0.394	MWD+IFR1+MS
20700.000	90.000	179.642	12004.997	76.184	0.000	83.010	-0.000	76.184	0.000	83.010	50.334	-0.377	MWD+IFR1+MS
20800.000	90.000	179.642	12004.997	76.907	0.000	83.667	-0.000	76.907	0.000	83.667	50.390	-0.361	MWD+IFR1+MS
20900.000	90.000	179.642	12004.997	77.631	0.000	84.326	-0.000	77.631	0.000	84.326	50.448	-0.347	MWD+IFR1+MS
21000.000	90.000	179.642	12004.997	78.356	0.000	84.986	-0.000	78.356	0.000	84.986	50.505	-0.332	MWD+IFR1+MS
21100.000	90.000	179.642	12004.997	79.083	0.000	85.648	-0.000	79.083	0.000	85.648	50.564	-0.319	MWD+IFR1+MS
21200.000	90.000	179.642	12004.997	79.810	0.000	86.312	-0.000	79.810	0.000	86.312	50.622	-0.306	MWD+IFR1+MS
21300.000	90.000	179.642	12004.997	80.539	0.000	86.978	-0.000	80.539	0.000	86.978	50.682	-0.293	MWD+IFR1+MS
21400.000	90.000	179.642	12004.997	81.269	0.000	87.645	-0.000	81.269	0.000	87.645	50.741	-0.281	MWD+IFR1+MS
21500.000	90.000	179.642	12004.997	81.999	0.000	88.314	-0.000	81.999	0.000	88.314	50.802	-0.270	MWD+IFR1+MS
21600.000	90.000	179.642	12004.997	82.731	0.000	88.984	-0.000	82.731	0.000	88.984	50.862	-0.259	MWD+IFR1+MS
21700.000	90.000	179.642	12004.997	83.464	0.000	89.656	-0.000	83.464	0.000	89.656	50.924	-0.249	MWD+IFR1+MS
21800.000	90.000	179.642	12004.997	84.197	0.000	90.329	-0.000	84.197	0.000	90.329	50.985	-0.239	MWD+IFR1+MS
21900.000	90.000	179.642	12004.997	84.932	0.000	91.004	-0.000	84.932	0.000	91.004	51.048	-0.229	MWD+IFR1+MS
22000.000	90.000	179.642	12004.997	85.667	0.000	91.680	-0.000	85.667	0.000	91.680	51.110	-0.220	MWD+IFR1+MS
22100.000	90.000	179.642	12004.997	86.404	0.000	92.358	-0.000	86.404	0.000	92.358	51.174	-0.212	MWD+IFR1+MS
22200.000	90.000	179.642	12004.997	87.141	0.000	93.037	-0.000	87.141	0.000	93.037	51.237	-0.203	MWD+IFR1+MS
22300.000	90.000	179.642	12004.997	87.879	0.000	93.717	-0.000	87.879	0.000	93.718	51.302	-0.195	MWD+IFR1+MS

22400.000	90.000	179.642	12004.997	88.617	0.000	94.399	-0.000	88.617	0.000	0.000	94.399	51.367	-0.188	MWD+IFR1+MS
22500.000	90.000	179.642	12004.997	89.357	0.000	95.082	-0.000	89.357	0.000	0.000	95.082	51.432	-0.180	MWD+IFR1+MS
22600.000	90.000	179.642	12004.997	90.097	0.000	95.766	-0.000	90.097	0.000	0.000	95.766	51.498	-0.173	MWD+IFR1+MS
22700.000	90.000	179.642	12004.997	90.838	0.000	96.451	-0.000	90.838	0.000	0.000	96.452	51.564	-0.167	MWD+IFR1+MS
22800.000	90.000	179.642	12004.997	91.580	0.000	97.138	-0.000	91.580	0.000	0.000	97.138	51.631	-0.160	MWD+IFR1+MS
22900.000	90.000	179.642	12004.997	92.323	0.000	97.826	-0.000	92.323	0.000	0.000	97.826	51.698	-0.154	MWD+IFR1+MS
23000.000	90.000	179.642	12004.997	93.066	0.000	98.515	-0.000	93.066	0.000	0.000	98.515	51.765	-0.148	MWD+IFR1+MS
23100.000	90.000	179.642	12004.997	93.810	0.000	99.205	-0.000	93.810	0.000	0.000	99.205	51.834	-0.142	MWD+IFR1+MS
23200.000	90.000	179.642	12004.997	94.554	0.000	99.896	-0.000	94.554	0.000	0.000	99.896	51.902	-0.137	MWD+IFR1+MS
23300.000	90.000	179.642	12004.997	95.300	0.000	100.588	-0.000	95.300	0.000	0.000	100.589	51.971	-0.132	MWD+IFR1+MS
23400.000	90.000	179.642	12004.997	96.045	0.000	101.281	-0.000	96.045	0.000	0.000	101.282	52.041	-0.127	MWD+IFR1+MS
23500.000	90.000	179.642	12004.997	96.792	0.000	101.976	-0.000	96.792	0.000	0.000	101.976	52.111	-0.122	MWD+IFR1+MS
23600.000	90.000	179.642	12004.997	97.539	0.000	102.671	-0.000	97.539	0.000	0.000	102.672	52.182	-0.117	MWD+IFR1+MS
23700.000	90.000	179.642	12004.997	98.286	0.000	103.367	-0.000	98.286	0.000	0.000	103.368	52.253	-0.113	MWD+IFR1+MS
23800.000	90.000	179.642	12004.997	99.035	0.000	104.065	-0.000	99.035	0.000	0.000	104.065	52.324	-0.109	MWD+IFR1+MS
23900.000	90.000	179.642	12004.997	99.783	0.000	104.763	-0.000	99.783	0.000	0.000	104.764	52.396	-0.105	MWD+IFR1+MS
24000.000	90.000	179.642	12004.997	100.533	0.000	105.462	-0.000	100.533	0.000	0.000	105.463	52.469	-0.101	MWD+IFR1+MS
24100.000	90.000	179.642	12004.997	101.283	0.000	106.162	-0.000	101.283	0.000	0.000	106.163	52.541	-0.097	MWD+IFR1+MS
24200.000	90.000	179.642	12004.997	102.033	0.000	106.863	-0.000	102.033	0.000	0.000	106.864	52.615	-0.094	MWD+IFR1+MS
24300.000	90.000	179.642	12004.997	102.784	0.000	107.565	-0.000	102.784	0.000	0.000	107.566	52.689	-0.090	MWD+IFR1+MS
24400.000	90.000	179.642	12004.997	103.535	0.000	108.268	-0.000	103.535	0.000	0.000	108.269	52.763	-0.087	MWD+IFR1+MS
24500.000	90.000	179.642	12004.997	104.287	0.000	108.971	-0.000	104.287	0.000	0.000	108.972	52.838	-0.084	MWD+IFR1+MS
24600.000	90.000	179.642	12004.997	105.040	0.000	109.676	-0.000	105.040	0.000	0.000	109.677	52.913	-0.081	MWD+IFR1+MS
24700.000	90.000	179.642	12004.997	105.792	0.000	110.381	-0.000	105.792	0.000	0.000	110.382	52.988	-0.078	MWD+IFR1+MS
24742.829	90.000	179.642	12004.997	106.114	0.000	110.683	-0.000	106.114	0.000	0.000	110.684	53.021	-0.077	MWD+IFR1+MS
24800.000	90.000	179.642	12004.997	106.544	0.000	111.085	-0.000	106.544	0.000	0.000	111.086	53.065	-0.075	MWD+IFR1+MS
24832.831	90.000	179.642	12004.997	106.791	0.000	111.316	-0.000	106.791	0.000	0.000	111.317	53.090	-0.074	MWD+IFR1+MS

Poker Lake Unit 21 DTD South 187H

Plan Targets

Target Name	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape
FTP 12	12196.94	440450.20	640810.50	8574.00	RECTANGLE
SHL 11	9736.58	440755.31	640952.42	5917.00	RECTANGLE

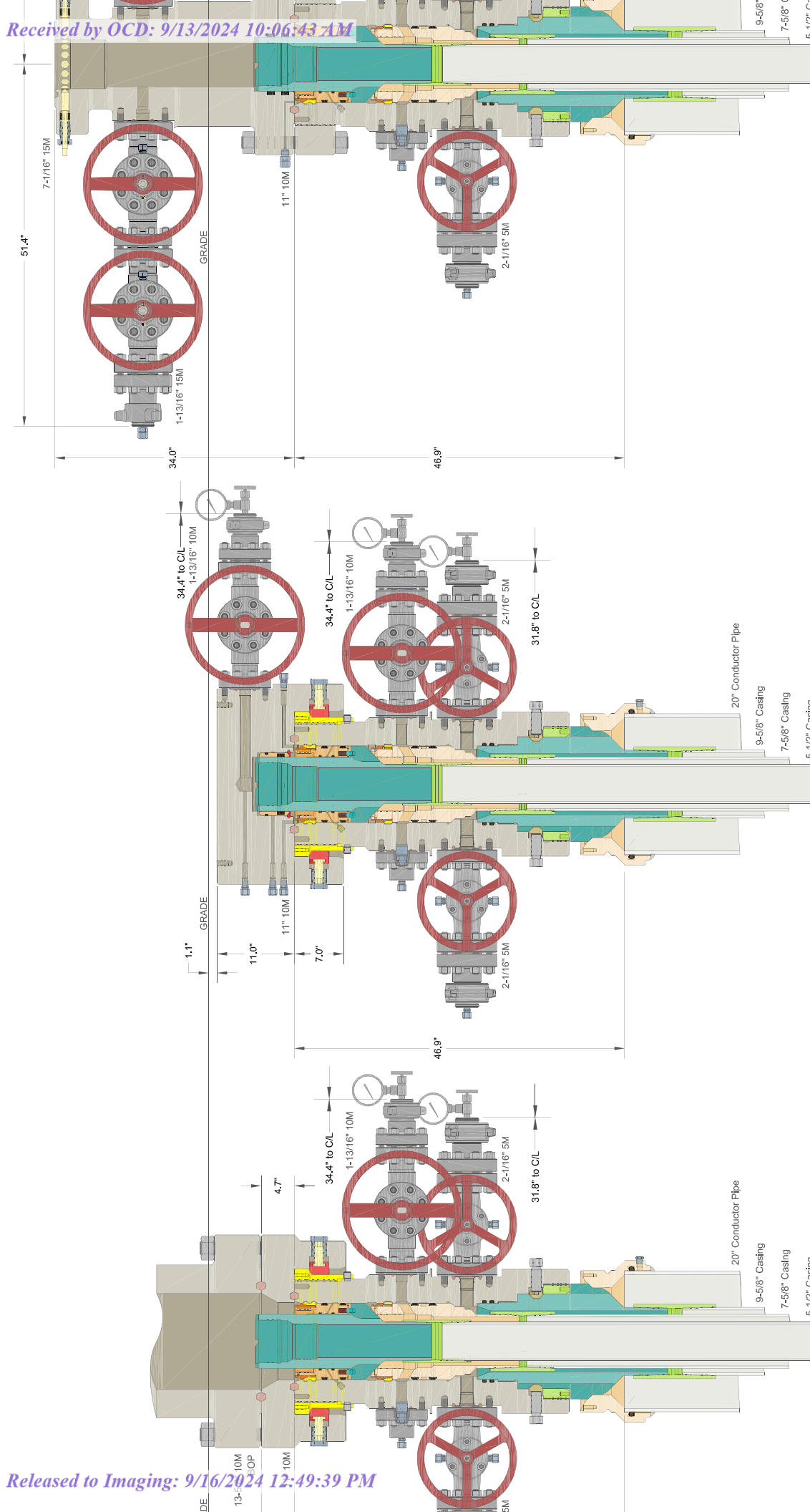
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8574.00 RECTANGLE

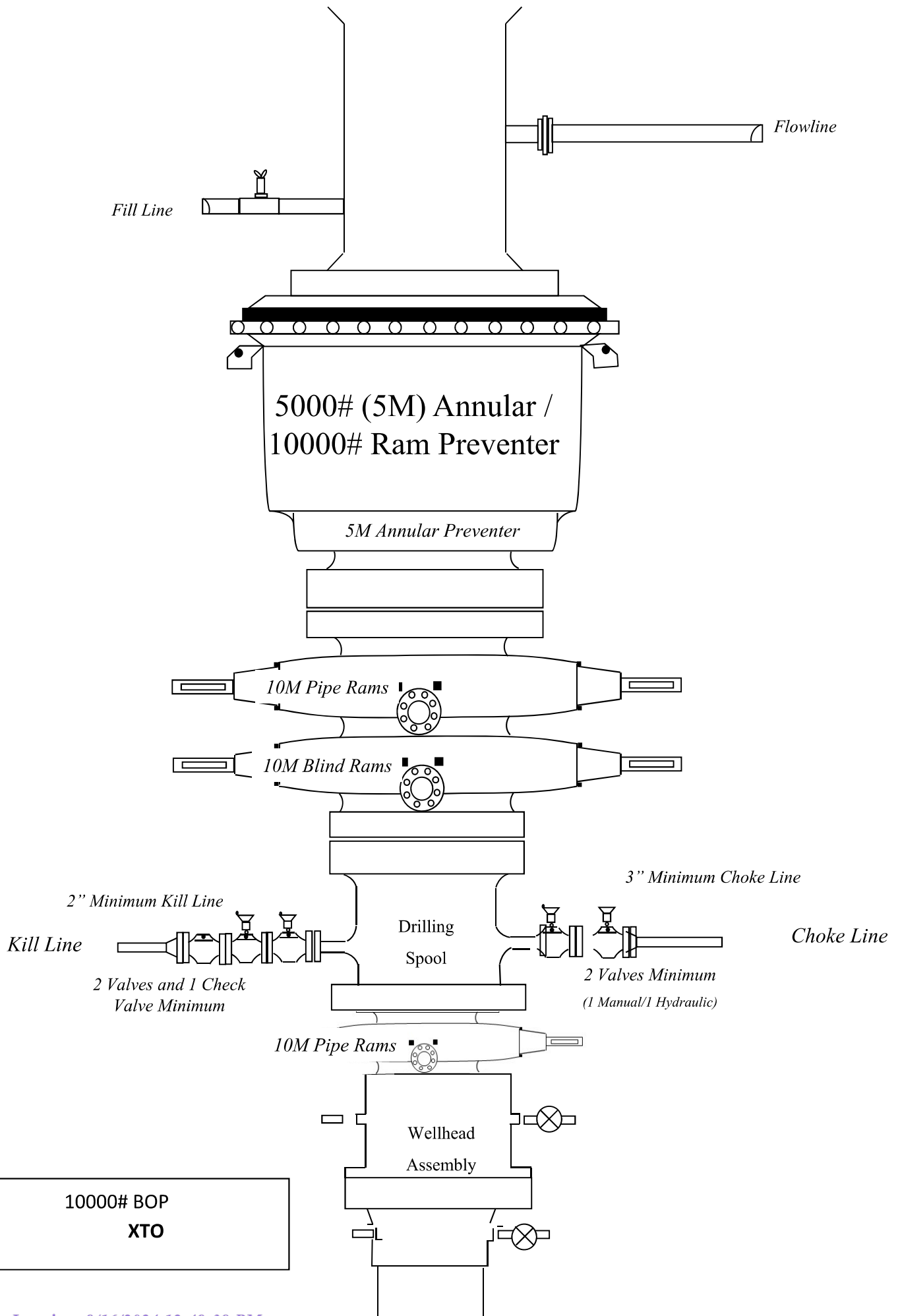
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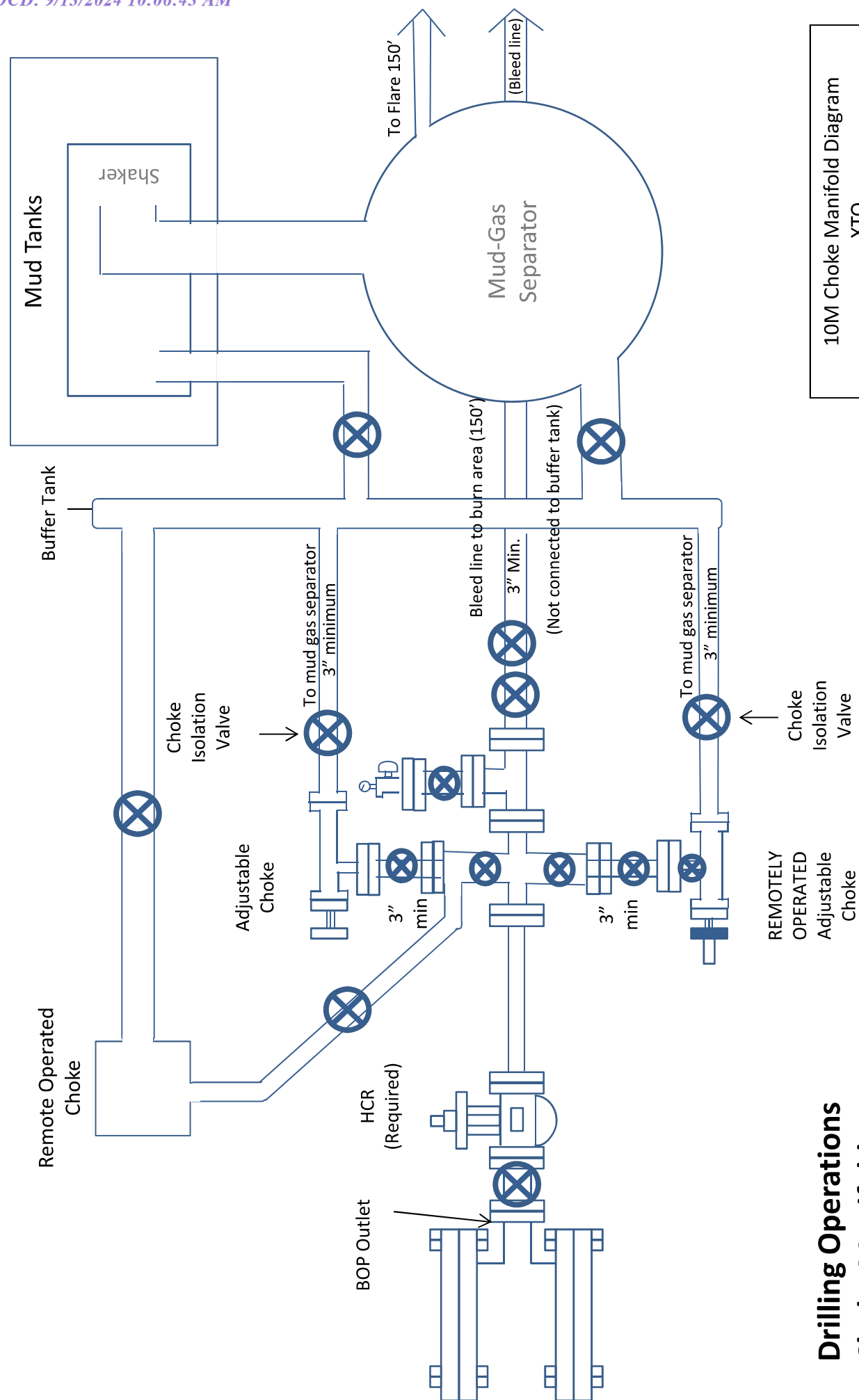
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3/20/24, 11:10 AM
LTP 12
BHL 12





Mud Tanks
40' -50' from
wellbore



Drilling Operations Choke Manifold 10M Service

10M Choke Manifold Diagram

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

- Released to Imaging: 9/16/2024 12:49:39 PM



U. S. Steel Tubular Products
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	—

UNCONTROLLED

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.

Legal Notice


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U. S. Steel Tubular Products

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]

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Notes

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

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NEW CHOKE HOSE
INSTALLED 02-10-2024

CERTIFICATE OF CONFORMANCE

This is to verify that the items detailed below meet the requirements of the Customer's Purchase Order referenced herein, and are in Conformance with applicable specifications, and that Records of Required Tests are on file and subject to examination. The following items were inspected and hydrostatically tested at **Gates Engineering & Services North America** facilities in Houston, TX, USA.

CUSTOMER: NABORS DRILLING TECHNOLOGIES USA DBA NABORS DRILLING USA
CUSTOMER P.O.#: 15582803 (TAG NABORS PO #15582803 SN 74621 ASSET 66-1531)
CUSTOMER P/N: IMR RETEST SN 74621 ASSET #66-1531

PART DESCRIPTION: RETEST OF CUSTOMER 3" X 45 FT 16C CHOKE & KILL HOSE ASSEMBLY C/W 4 1/16" 10K FLANGES

SALES ORDER #: 529480
QUANTITY: 1
SERIAL #: 74621 H3-012524-1

SIGNATURE:*F. Cismos***TITLE:****QUALITY ASSURANCE****DATE:**

1/25/2024



H3-15/16

1/25/2024 11:48:06 AM

TEST REPORT

CUSTOMER

Company: Nabors Industries Inc.

Production description: 74621/66-1531

Sales order #: 529480

Customer reference: FG1213

TEST OBJECT

Serial number: H3-012524-1

Lot number:

Description: 74621/66-1531

Hose ID: 3" 16C CK

Part number:

TEST INFORMATION

Test procedure: GTS-04-053

Test pressure: 15000.00 psi

Test pressure hold: 3600.00 sec

Work pressure: 10000.00 psi

Work pressure hold: 900.00 sec

Length difference: 0.00 %

Length difference: 0.00 inch

Fitting 1: 3.0 x 4-1/16 10K

Part number:

Description:

Fitting 2: 3.0 x 4-1/16 10K

Part number:

Description:

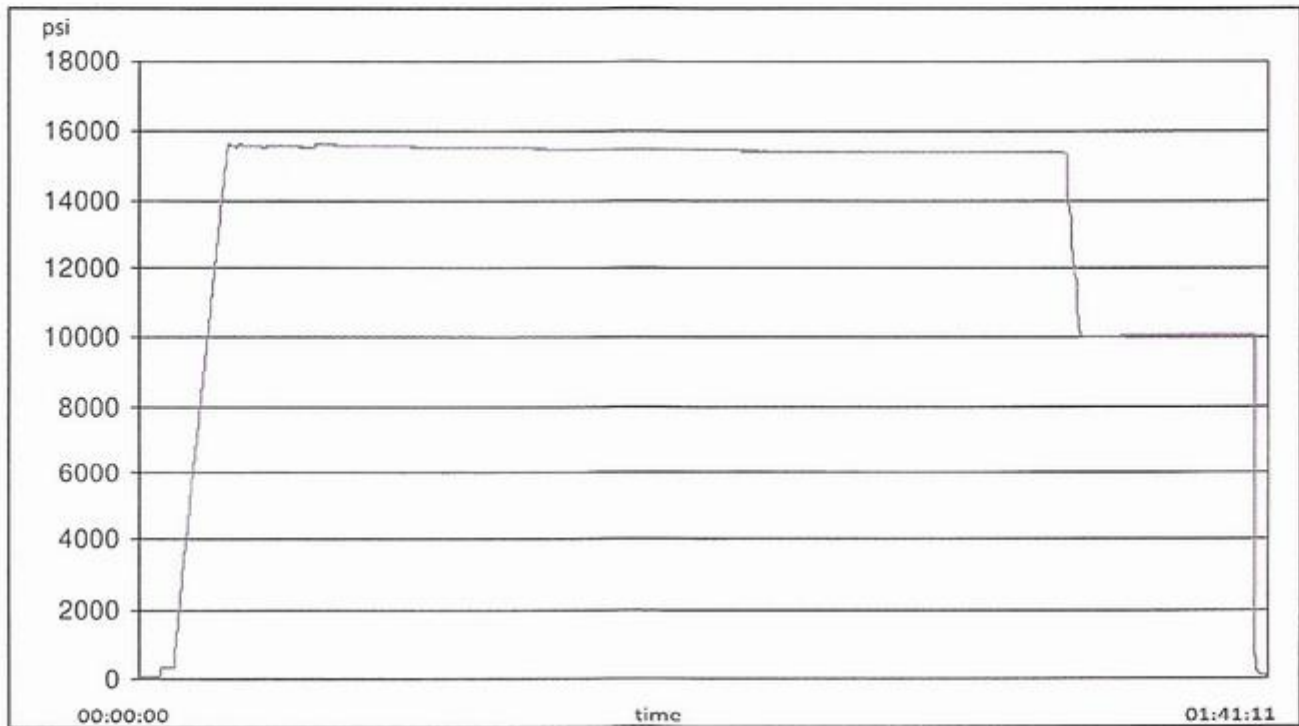
Visual check:

Pressure test result: PASS

Length measurement result:

Length: 45 feet

Test operator: Travis





H3-15/16

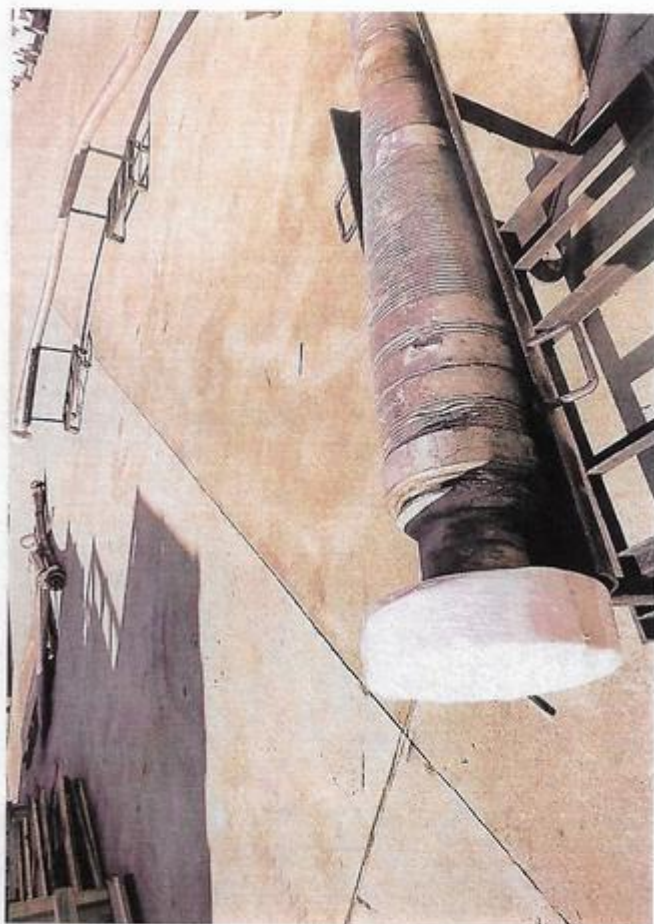
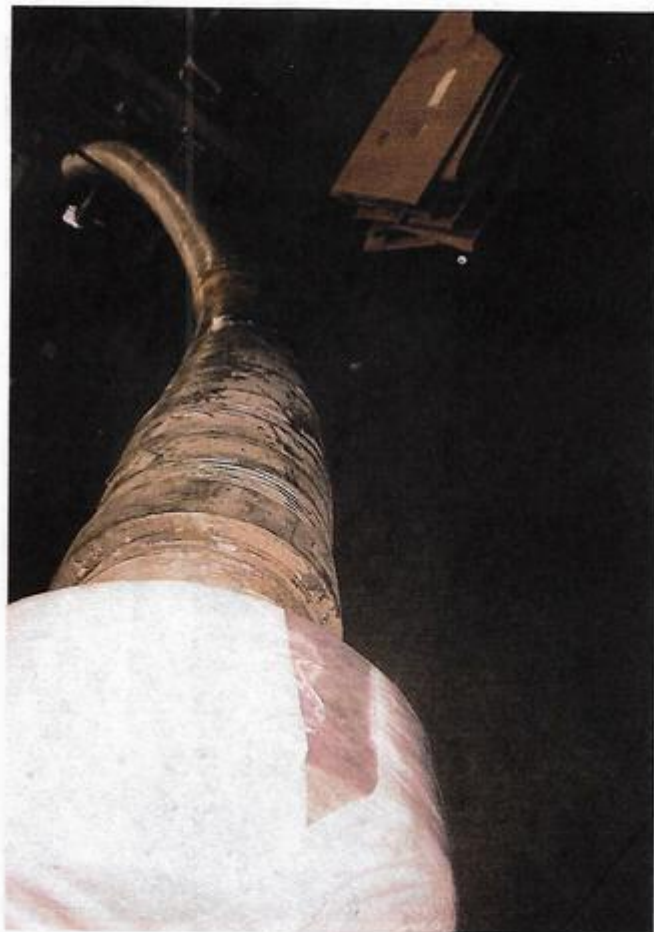
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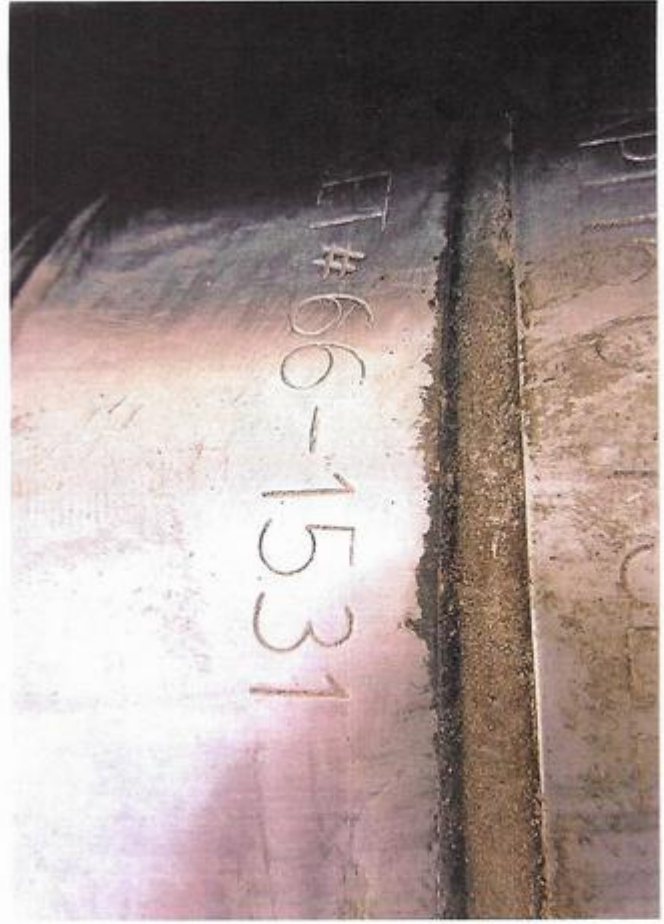
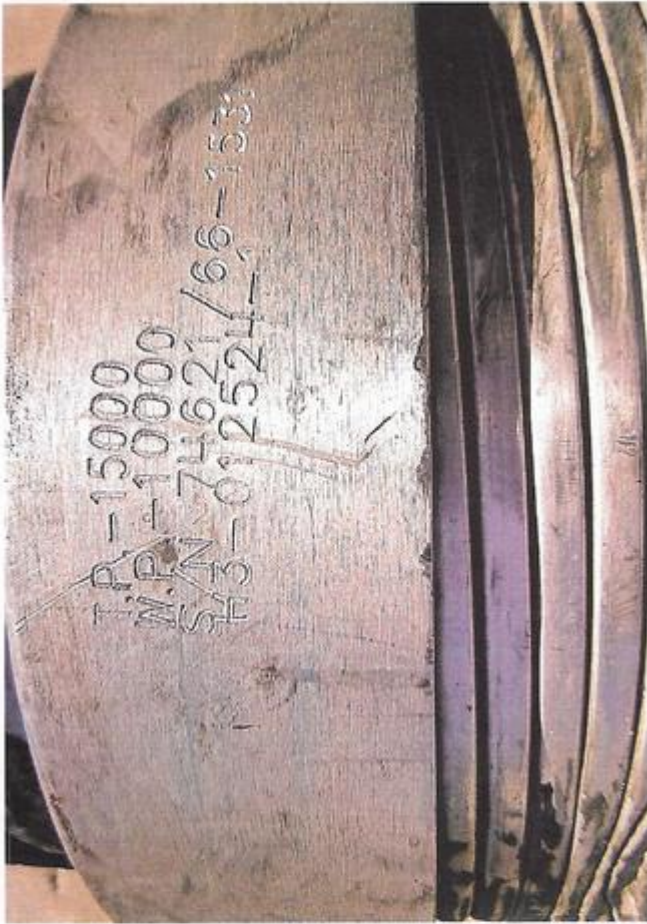
TEST REPORT

GAUGE TRACEABILITY

Description	Serial number	Calibration date	Calibration due date
S-25-A-W	110D3PHO	2023-06-06	2024-06-06
S-25-A-W	110IQWDG	2023-05-16	2024-05-16

Comment





QC APPROVED BY POSSIBILITY™

Gates

I.D.: 3" LENGTH: 45'

GRADE: 166 10K END FITTING: 1 1/4" 10K Flange E/F

W#: H3-012524-1

CUST NAME: Nalco DOC#: 528450

NOTES: 10.15582803 SN: 74621 ASSET 66-1531

XTO respectfully requests approval to utilize a spudder rig to pre-set surface casing.

Description of Operations:

1. Spudder rig will move in to drill the surface hole and pre-set surface casing on the well.
 - a. After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (OnShore Order 2, all COAs and NMOCD regulations).
 - b. The spudder rig will utilize fresh water-based mud to drill the surface hole to TD. Solids control will be handled entirely on a closed loop basis. No earth pits will be used.
2. The wellhead will be installed and tested as soon as the surface casing is cut off and WOC time has been reached.
3. A blind flange at the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with needle valves installed on two wing valves.
 - a. A means for intervention will be maintained while the drilling rig is not over the well.
4. Spudder rig operations are expected to take 2-3 days per well on the pad.
5. The BLM will be contacted and notified 24 hours prior to commencing spudder rig operations.
6. Drilling Operations will begin with a larger rig and a BOP stack equal to or greater than the pressure rating that was permitted will be nipped up and tested on the wellhead before drilling operations resume on each well.
 - a. The larger rig will move back onto the location within 90 days from the point at which the wells are secured and the spudder rig is moved off location.
 - b. The BLM will be notified 24 hours before the larger rig moves back on the pre-set locations
7. XTO will have supervision on the rig to ensure compliance with all BLM and NMOCD regulations and to oversee operations.
8. Once the rig is removed, XTO will secure the wellhead area by placing a guard rail around the cellar area.

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1625 N. French Dr., Hobbs, NM 88240
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District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
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1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 383389

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 383389
	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.	9/16/2024