

Well Name: POKER LAKE UNIT 27 BD	Well Location: T25S / R30E / SEC 27 / NWSW / 32.099163 / -103.875742	County or Parish/State: EDDY / NM
Well Number: 510H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMLC063875A	Unit or CA Name: POKER LAKE UNIT	Unit or CA Number: NMNM71016X
US Well Number:	Operator: XTO PERMIAN OPERATING LLC	

Notice of Intent

Sundry ID: 2840005

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 03/04/2025

Time Sundry Submitted: 02:14

Date proposed operation will begin: 03/25/2025

Procedure Description: XTO Permian Operating, LLC. respectfully requests approval to make the following changes to the approved APD. Changes to include SHL, KOP, FTP, LTP, BHL, proposed total depth, pool. FROM: TO: SHL: 1955' FSL & 570' FWL OF SECTION 27-T25S-R30E 2145' FSL & 568' FWL OF SECTION 27-T25S-R30E KOP: 1955' FSL & 570' FWL OF SECTION 27-T25S-R30E 2045' FNL & 688' FWL OF SECTION 27-T25S-R30E FTP: 2640' FNL & 770' FWL OF SECTION 27-T25S-R30E 2562' FSL & 690' FWL OF SECTION 27-T25S-R30E LTP: 2510' FNL & 770' FWL OF SECTION 10-T26S-R30E 2559' FNL & 690' FWL OF SECTION 10-T26S-R30E BHL: 2560' FNL & 770' FWL OF SECTION 10-T26S-R30E 2649' FNL & 690' FWL OF SECTION 10-T26S-R30E The proposed total depth is changing from 26455' MD; 10176' TVD to 26795' MD; 10380' TVD. There is no new surface disturbance.

NOI Attachments

Procedure Description

Poker_Lake_Unit_27_BD_510H_Sundry_Docs_20250304141348.pdf

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US Well Number:	Operator: XTO PERMIAN OPERATING LLC	

Conditions of Approval

Additional
Poker_Lake_Unit_27_BD_510H_COA_20250411160900.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:** MAR 04, 2025 02:12 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:** 05/02/2025

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.	NMLC063875A
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 checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		8. Well Name and No. POKER LAKE UNIT 27 BD/510H
2. Name of Operator XTO PERMIAN OPERATING LLC		9. API Well No.
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 WC-015 G-06 S243119C/Bone Spring
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) SEC 27/T25S/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, KOP, FTP, LTP, BHL, proposed total depth, pool.

FROM: TO:

- SHL: 1955' FSL & 570' FWL OF SECTION 27-T25S-R30E 2145' FSL & 568' FWL OF SECTION 27-T25S-R30E
- KOP: 1955' FSL & 570' FWL OF SECTION 27-T25S-R30E 2045 FNL & 688 FWL OF SECTION 27-T25S-R30E
- FTP: 2640' FNL & 770' FWL OF SECTION 27-T25S-R30E 2562' FSL & 690' FWL OF SECTION 27-T25S-R30E
- LTP: 2510' FNL & 770' FWL OF SECTION 10-T26S-R30E 2559' FNL & 690' FWL OF SECTION 10-T26S-R30E
- BHL: 2560 FNL & 770 FWL OF SECTION 10-T26S-R30E 2649 FNL & 690 FWL OF SECTION 10-T26S-R30E

The proposed total depth is changing from 26455 MD; 10176 TVD to 26795 MD; 10380 TVD.

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 03/04/2025

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by CHRISTOPHER WALLS / Ph: (575) 234-2234 / Approved	Title Petroleum Engineer	Date 05/02/2025
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

There is no new surface disturbance.

Location of Well

- 0. SHL: NWSW / 1955 FSL / 570 FWL / TWSP: 25S / RANGE: 30E / SECTION: 27 / LAT: 32.099163 / LONG: -103.875742 (TVD: 0 feet, MD: 0 feet)
- PPP: NWNW / 0 FNL / 777 FWL / TWSP: 25S / RANGE: 30E / SECTION: 34 / LAT: 32.090251 / LONG: -103.875105 (TVD: 10176 feet, MD: 13300 feet)
- PPP: NWSW / 2640 FSL / 770 FWL / TWSP: 25S / RANGE: 30E / SECTION: 27 / LAT: 32.101049 / LONG: -103.875085 (TVD: 10176 feet, MD: 10612 feet)
- PPP: NWNW / 0 FNL / 793 FWL / TWSP: 26S / RANGE: 30E / SECTION: 3 / LAT: 32.079153 / LONG: -103.875144 (TVD: 10176 feet, MD: 18600 feet)
- BHL: SWNW / 2560 FNL / 770 FWL / TWSP: 26S / RANGE: 30E / SECTION: 10 / LAT: 32.057495 / LONG: -103.875202 (TVD: 10176 feet, MD: 26456 feet)

CONFIDENTIAL

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: XTO LEASE NO.: NMLC063875A LOCATION: Sec. 27, T.25 S, R 30 E COUNTY: Eddy County, New Mexico ▼
WELL NAME & NO.: Poker Lake Unit 27 BD 510H SURFACE HOLE FOOTAGE: 2145'/S & 568'/W BOTTOM HOLE FOOTAGE: 2649'/N & 690'/W

*Changes approved through engineering via **Sundry 2840005** on 4-11-2025 . Any previous COAs not addressed within the updated COAs still apply.*

COA

H ₂ S	No <input checked="" type="radio"/>		Yes <input type="radio"/>	
Potash / WIPP	<input checked="" type="radio"/> None	<input type="radio"/> Secretary	<input type="radio"/> R-111-Q	<input type="checkbox"/> Open Annulus <input type="checkbox"/> WIPP
<i>Choose an option (including blank option.)</i>				
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 type="checkbox"/> Four-String	<input checked="" type="checkbox"/> Casing Clearance <input checked="" type="checkbox"/> Offline Cementing	<input type="checkbox"/> Pilot Hole <input type="checkbox"/> Fluid-Filled	<input checked="" type="checkbox"/> Break Testing

A. HYDROGEN SULFIDE

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

B. CASING

1. The **9-5/8** inch surface casing shall be set at approximately **1344** feet (a minimum of **70 feet (Eddy County)** into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or **500 pounds compressive strength**, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.

2. The minimum required fill of cement behind the **7-5/8** inch intermediate casing is:
Operator has proposed to cement in two stages by conventionally cementing the first stage and performing a bradenhead squeeze on the second stage, contingent upon no returns to surface.
 - a. **First stage:** Operator will cement with intent to reach the top of the **Brushy Canyon at 5941'**.

 - 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 Surface casing to tieback requirements listed above after the second stage BH to verify TOC.** Submit results to the BLM. No displacement fluid/wash out shall be utilized at the top of the cement slurry between second stage BH and top out. Operator must use a limited flush fluid volume of 1 bbl following backside cementing procedures.

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

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

C. PRESSURE CONTROL

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

D. SPECIAL REQUIREMENT (S)

Unit Wells

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

Commercial Well Determination

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

BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for intervals utilizing a 5M BOPE or less. **(Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP.)**
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer **(575-706-2779)** prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted **(575-361-2822 Eddy County)** 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per **43 CFR 3172**.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

Offline Cementing

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

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

Casing Clearance

String does not meet 0.422" clearance requirement per 43 CFR 3172. Cement tieback requirement increased 100' for 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 4/11/2025
575-234-5998 / zstevens@blm.gov

C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024									
		Submittal Type: <input type="checkbox"/> Initial Submittal <input checked="" type="checkbox"/> Amended Report <input type="checkbox"/> As Drilled									
WELL LOCATION INFORMATION											
API Number 30-015	Pool Code (97814)	Pool Name Wildcat G-015 S2630010; Bone Spring									
Property Code	Property Name POKER LAKE UNIT 27 BD	Well Number 510H									
ORGID No. 373075	Operator Name XTO PERMIAN OPERATING, LLC.	Ground Level Elevation 3,264'									
Surface Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input type="checkbox"/> Federal		Mineral Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal									
Surface Location											
UL L	Section 27	Township 25 S	Range 30 E	Lot	Ft. from N/S 2,145' FSL	Ft. from E/W 568' FWL	Latitude 32.099687	Longitude -103.875744	County EDDY		
Bottom Hole Location											
UL E	Section 10	Township 26 S	Range 30 E	Lot	Ft. from N/S 2,649' FNL	Ft. from E/W 690' FWL	Latitude 32.057251	Longitude -103.875460	County EDDY		
Dedicated Acres 480	Infill or Defining Well INFILL	Defining Well API	Overlapping Spacing Unit (Y/N) N	Consolidation Code U							
Order Numbers.			Well setbacks are under Common Ownership: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No								
Kick Off Point (KOP)											
UL E	Section 27	Township 25 S	Range 30 E	Lot	Ft. from N/S 2,045' FNL	Ft. from E/W 688' FWL	Latitude 32.102802	Longitude -103.875339	County EDDY		
First Take Point (FTP)											
UL L	Section 27	Township 25 S	Range 30 E	Lot	Ft. from N/S 2,562' FSL	Ft. from E/W 690' FWL	Latitude 32.100833	Longitude -103.875345	County EDDY		
Last Take Point (LTP)											
UL E	Section 10	Township 26 S	Range 30 E	Lot	Ft. from N/S 2,559' FNL	Ft. from E/W 690' FWL	Latitude 32.057499	Longitude -103.875460	County EDDY		
Unitized Area or Area of Uniform Interest NMNM-071016X			Spacing Unit Type <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical				Ground Floor Elevation: 3,264'				
OPERATOR CERTIFICATIONS					SURVEYOR CERTIFICATIONS						
<p><i>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.</i></p> <p><i>If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling form the division.</i></p>					<p><i>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.</i></p> <p>I, TIM C. PAPPAS, NEW MEXICO PROFESSIONAL SURVEYOR NO. 21209, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO, AND THAT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.</p> <p style="text-align: right;">22 Jan 2025</p> 						
Signature Terra Sebastian		Date 3/4/2025			Signature and Seal of Professional Surveyor						
Printed Name terra.b.sebastian@exxonmobil.com		Email Address			Certificate Number TIM C. PAPPAS 21209		Date of Survey 01/22/2025				
<p><i>Note: 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.</i></p>											
					2821 West 7th Street., Ste 200 - Fort Worth, TX 76107 Ph: 817.349.9800 - Fax: 979.732.5271 TBPE Firm 17957 TBPLS Firm 10193887 www.fscinc.net						
DATE: 1-22-2025		PROJECT NO: 2023040147		DRAWN BY: LM		SCALE: 1" = 2,000'		CHECKED BY: CH		SHEET: 1 OF 2	
FIELD CREW: IR		REVISION:									

ACREAGE DEDICATION PLATS

This grid represents a standard section. You may superimpose a non-standard section, or a larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is the closest to any outer boundary of the tract.

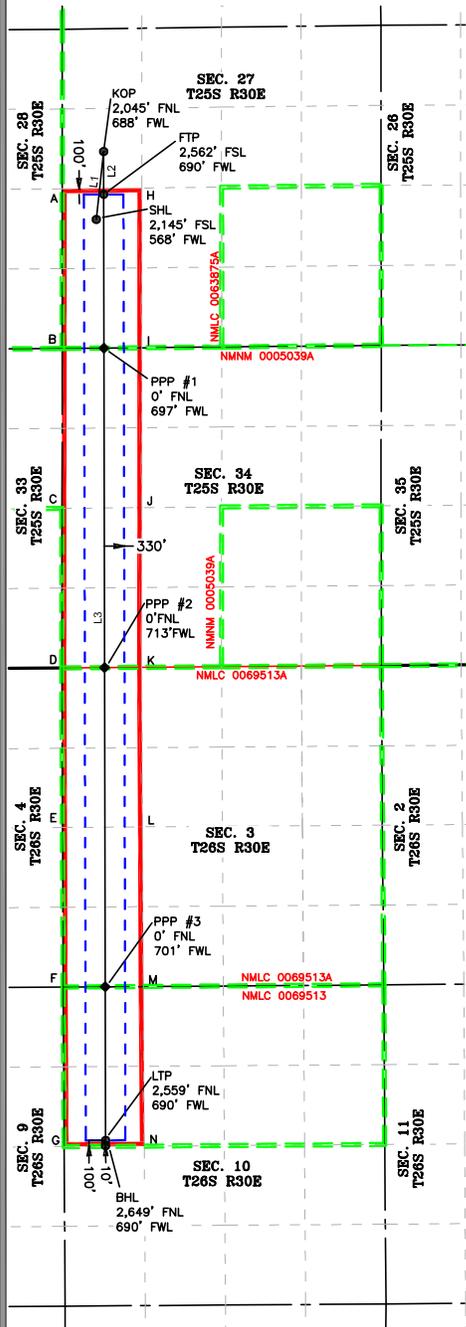
Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.

LEGEND

- SECTION LINE
- PROPOSED WELLBORE
- NEW MEXICO MINERAL LEASE LINE
- 330' BUFFER
- DEDICATED ACREAGE

LINE TABLE

LINE	AZIMUTH	LENGTH
L1	06° 04'20"	1,140.20'
L2	179° 53'20"	716.14'
L3	179° 53'08"	15,854.40'



COORDINATE TABLE

SHL (NAD 83 NME)		LTP (NAD 83 NME)	
Y =	400,303.3 N	Y =	384,956.6 N
X =	683,031.6 E	X =	683,184.6 E
LAT. =	32.099687 °N	LAT. =	32.057499 °N
LONG. =	103.875744 °W	LONG. =	103.875460 °W
KOP (NAD 83 NME)		BHL (NAD 83 NME)	
Y =	401,437.1 N	Y =	384,866.6 N
X =	683,152.2 E	X =	683,185.2 E
LAT. =	32.102802 °N	LAT. =	32.057251 °N
LONG. =	103.875339 °W	LONG. =	103.875460 °W
FTP (NAD 83 NME)			
Y =	400,720.9 N		
X =	683,153.6 E		
LAT. =	32.100833 °N		
LONG. =	103.875345 °W		
SHL (NAD 27 NME)		LTP (NAD 27 NME)	
Y =	400,245.1 N	Y =	384,898.8 N
X =	641,846.4 E	X =	641,998.9 E
LAT. =	32.099562 °N	LAT. =	32.057373 °N
LONG. =	103.875263 °W	LONG. =	103.874981 °W
KOP (NAD 27 NME)		BHL (NAD 27 NME)	
Y =	401,378.9 N	Y =	384,808.8 N
X =	641,967.0 E	X =	641,999.5 E
LAT. =	32.102677 °N	LAT. =	32.057126 °N
LONG. =	103.874858 °W	LONG. =	103.874980 °W
FTP (NAD 27 NME)			
Y =	400,662.7 N		
X =	641,968.4 E		
LAT. =	32.100708 °N		
LONG. =	103.874863 °W		
PPP #1 (NAD 83 NME)		PPP #1 (NAD 27 NME)	
Y =	398,159.1 N	Y =	398,101.0 N
X =	683,158.6 E	X =	641,973.3 E
LAT. =	32.093791 °N	LAT. =	32.093666 °N
LONG. =	103.875364 °W	LONG. =	103.874882 °W
PPP #2 (NAD 83 NME)		PPP #2 (NAD 27 NME)	
Y =	392,833.8 N	Y =	392,775.8 N
X =	683,169.1 E	X =	641,983.7 E
LAT. =	32.079152 °N	LAT. =	32.079027 °N
LONG. =	103.875403 °W	LONG. =	103.874922 °W
PPP #3 (NAD 83 NME)		PPP #3 (NAD 27 NME)	
Y =	387,515.2 N	Y =	387,457.3 N
X =	683,179.6 E	X =	641,994.0 E
LAT. =	32.064532 °N	LAT. =	32.064407 °N
LONG. =	103.875442 °W	LONG. =	103.874962 °W

CORNER COORDINATES (NAD83 NME)

A - Y =	400,813.4 N	A - X =	682,463.6 E
B - Y =	398,152.3 N	B - X =	682,461.9 E
C - Y =	395,489.3 N	C - X =	682,459.2 E
D - Y =	392,828.3 N	D - X =	682,455.8 E
E - Y =	390,169.9 N	E - X =	682,467.5 E
F - Y =	387,510.3 N	F - X =	682,478.3 E
G - Y =	384,852.0 N	G - X =	682,495.3 E
H - Y =	400,827.9 N	H - X =	683,790.5 E
I - Y =	398,165.1 N	I - X =	683,790.3 E
J - Y =	395,500.1 N	J - X =	683,788.4 E
K - Y =	392,838.6 N	K - X =	683,786.1 E
L - Y =	390,179.7 N	L - X =	683,799.1 E
M - Y =	387,519.6 N	M - X =	683,811.6 E
N - Y =	384,860.9 N	N - X =	683,829.3 E

CORNER COORDINATES (NAD27 NME)

A - Y =	400,755.2 N	A - X =	641,278.5 E
B - Y =	398,094.2 N	B - X =	641,276.6 E
C - Y =	395,431.3 N	C - X =	641,273.9 E
D - Y =	392,770.3 N	D - X =	641,270.4 E
E - Y =	390,112.0 N	E - X =	641,282.0 E
F - Y =	387,452.4 N	F - X =	641,292.7 E
G - Y =	384,794.2 N	G - X =	641,309.6 E
H - Y =	400,769.9 N	H - X =	642,605.3 E
I - Y =	398,107.2 N	I - X =	642,605.0 E
J - Y =	395,442.3 N	J - X =	642,603.0 E
K - Y =	392,780.8 N	K - X =	642,600.6 E
L - Y =	390,121.9 N	L - X =	642,613.5 E
M - Y =	387,461.9 N	M - X =	642,625.9 E
N - Y =	384,803.3 N	N - X =	642,643.6 E



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 www.fscinc.net
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DATE: 1-22-2025 PROJECT NO: 2023040147
 DRAWN BY: LM SCALE: 1" = 2,500'
 CHECKED BY: CH SHEET: 2 OF 2
 FIELD CREW: IR REVISION: NO

3. Primary Casing Design

Primary Design:

Hole Size	MD	Casing TVD	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0' - 1277'	1275'	9-5/8"	40	J55	BTC	New	10.08	4.65	4.83
8.75	0' - 9613'	9464'	7-5/8"	29.7	L80-IC	Tenaris Wedge 511	New	2.58	2.88	2.27
6.75	0' - 9413'	9264'	5-1/2"	20	P110-CY	TPN	New	1.18	2.77	2.50
6.75	9413' - 26795'	10380'	5-1/2"	20	P110-IC	Tenaris Wedge 441	New	1.18	2.74	2.52

Section 3 Summary:

XTO will keep casing fluid filled to meet BLM's collapse requirement.
The planned kick off point is located at: 9813' MD / 9664' TVD.

Wellhead:

A multi-bowl wellhead system will be utilized. The well design chosen is: 3-String Slim Non-Potash

Wellhead will be installed by manufacturer's representatives.

Manufacturer will monitor welding process to ensure appropriate temperature of seal.

4. Cement Program

Primary Cementing								
Hole Section	Slurry Type	No. Sacks	Density (ppg)	Yield (ft3/sack)	TOC (ft)	Casing Setting Depth (MD)	Excess (%)	Slurry Description
Surface 1	Lead	290	12.4	2.11	0	1,277	100%	
Surface 1	Tail	141	14.8	1.33	977	1,277	100%	
Intermediate 1	Lead							
Intermediate 1	Tail	338	14.8	1.45	5995	9,613	35%	
Production 1	Lead							
Production 1	Tail	1333	13.2	1.44	9113	26,795	30%	
Remedial Cementing								
Casing	Slurry Type	No. Sacks	Density (ppg)	Yield (ft3/sack)	Cemented Interval	Excess (%)	Slurry Description	
Intermediate 1	Bradenhead Squeeze	623	14.8	1.45	0 - 5995'	50%	Intermediate Class C Bradenhead Squeeze Cement	

Section 4 Summary:

*Bradenhead Squeeze 2nd Stage Offline

5. Pressure Control Equipment

Section 5 Summary:

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

All BOP testing will be done by an independent service company. Operator will Test as per 43CFR-3172

Requested Variances

4A) Offline Cementing Variance
 XOM 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. XOM 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. Offline cement operations will then be conducted after the rig is moved off the current well to the next well in the batch sequence. The TA cap will also be installed when applicable per wellhead manufacturer's procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops.

5A) Break Test Variance
 A break testing variance is requested to ONLY test broken pressure seals on the BOP equipment when moving from wellhead to wellhead for the intermediate hole sections which is in compliance with API Standard 53. The maximum anticipated surface pressure at the deepest intermediate casing point is less than 4800psi.

5B) Flex Hose Variance
 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.

5C) 10M Annular Variance
 XOM requests a variance to use a 5000 psi annular BOP with a 10,000 psi BOP stack. The component and compatibility tables attached 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 BOP).

8A) Open Hole Logging Variance
 Open hole logging will not be done on this well.

10A) Spudder Rig Variance
 XOM requests the option to utilize a spudder rig (Atlas Copco RD20 or Equivalent) to set and cement surface casing.

10B) Batch Drilling Variance
 XOM requests a variance to be able to batch drill this well. In doing so, XOM will set casing and ensure that the well is cemented properly (unless approval is given for offline cementing) and the well is static. XOM will contact the BLM to skid the rig to drill the remaining wells on the pad. Once surface and intermediate strings are all completed, XOM will begin drilling the production hole on each of the wells.

6. Proposed Mud Circulation System

INTERVAL	Hole Size	Mud Type	MW	Viscosity	Fluid Loss	Comments
			(ppg)	(sec/qt)	(cc)	

0' - 1277'	12.25"	FW/Native	8.3 - 8.7	35-40	NC	Fresh Water or Native Water
1277' - 9613'	8.75"	BDE/OBM or FW/Brine	9.5 - 10	30-32	NC	Fluid type will be based upon on well conditions. A fully saturated system will be used across the salt interval.
9613' - 9413'	6.75"	OBM	9 - 10.7	50-60	NC - 20	OBM or Cut Brine depending on Well Conditions
9413' - 26795'	6.75"	OBM	9 - 10.7	50-60	NC - 20	OBM or Cut Brine depending on Well Conditions

Section 6 Summary:

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 a fully saturated brine 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. An EDR (Electronic Drilling Recorder) 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

Section 7 Summary:

A Kelly cock will be in the drill string at all times.

A full opening drill pipe stabbing valve having appropriate connections will be on the rig floor at all times.

H2S monitors will be on location when drilling below the 9-5/8" casing.

8. Logging, Coring and Testing Program

Section 8 Summary:

Open hole logging will not be done on this well.

9. Abnormal Pressures and Temperatures / Potential Hazards

Section 9 Summary:

The estimated bottom hole temperature of 168F to 188F. 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 is possible throughout the well.

10. Anticipated Starting Date and Duration of Operations

Section 10 Summary:

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 27 BD 510H

Measured Depth: 26794.74 ft **Site:** B
TVD RKB: 10380.00 ft **Slot:** Poker Lake Unit 27 BD 510H
Location:
 Cartographic Reference System: New Mexico East - NAD 27
Northing: 400245.10 ft
Easting: 641846.40 ft
RKB: 3296.00 ft
Ground Level: 3264.00 ft
North Reference: Grid
Convergence Angle: 0.24 Deg

Plan Sections		Poker Lake Unit 27 BD 510H									
Measured	Depth (ft)	Inclination (Deg)	Azimuth (Deg)	RKB (ft)	TVD	Y Offset (ft)	X Offset (ft)	Build Rate (Deg/100ft)	Turn Rate (Deg/100ft)	Dogleg Rate (Deg/100ft)	Target
	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00
	1100.00	0.00	0.00	1100.00		0.00	0.00	0.00	0.00	0.00	0.00
	1895.66	15.91	6.07	1885.47		109.17	11.61	2.00	0.00	2.00	2.00
	5253.39	15.91	6.07	5114.53		1024.63	109.00	0.00	0.00	0.00	0.00
	6049.05	0.00	0.00	5900.00		1133.80	120.61	-2.00	0.00	2.00	2.00
	9812.86	0.00	0.00	9663.80		1133.80	120.61	0.00	0.00	0.00	0.00
	10937.86	90.00	179.89	10380.00		417.60	122.00	8.00	0.00	8.00	FTP 4
	26701.79	90.00	179.89	10380.00		-15346.30	152.50	0.00	0.00	0.00	LTP 4
	26794.74	90.00	179.89	10380.00		-15439.26	152.68	0.00	0.00	0.00	BHL 4

Position Uncertainty
Measured

TVD	Highside	Lateral	Vertical	Magnitude	Semi-major	Semi-minor
Poker Lake Unit 27 BD 510H						

Well Plan Report

12/8/24, 11:35 PM

Depth (ft)	Inclination (°)	Azimuth (°)	RKB (ft)	Error (ft)	Bias (ft)	Error (ft)	of Bias (ft)	Error (ft)	Azimuth (°)	Used						
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	XOM_R2OWSG MWD+IFR1+MS
100.000	0.000	0.000	100.000	0.358	0.000	0.179	0.000	2.300	0.000	0.358	0.000	0.179	0.000	0.179	90.000	XOM_R2OWSG MWD+IFR1+MS
200.000	0.000	0.000	200.000	0.717	0.000	0.538	0.000	2.309	0.000	0.717	0.000	0.538	0.000	0.538	90.000	XOM_R2OWSG MWD+IFR1+MS
300.000	0.000	0.000	300.000	1.075	0.000	0.896	0.000	2.325	0.000	1.075	0.000	0.896	0.000	0.896	90.000	XOM_R2OWSG MWD+IFR1+MS
400.000	0.000	0.000	400.000	1.434	0.000	1.255	0.000	2.347	0.000	1.434	0.000	1.255	0.000	1.255	90.000	XOM_R2OWSG MWD+IFR1+MS
500.000	0.000	0.000	500.000	1.792	0.000	1.613	0.000	2.373	0.000	1.792	0.000	1.613	0.000	1.613	90.000	XOM_R2OWSG MWD+IFR1+MS
600.000	0.000	0.000	600.000	2.151	0.000	1.972	0.000	2.406	0.000	2.151	0.000	1.972	0.000	1.972	90.000	XOM_R2OWSG MWD+IFR1+MS
700.000	0.000	0.000	700.000	2.509	0.000	2.330	0.000	2.442	0.000	2.509	0.000	2.330	0.000	2.330	90.000	XOM_R2OWSG MWD+IFR1+MS
800.000	0.000	0.000	800.000	2.868	0.000	2.689	0.000	2.484	0.000	2.868	0.000	2.689	0.000	2.689	90.000	XOM_R2OWSG MWD+IFR1+MS
900.000	0.000	0.000	900.000	3.226	0.000	3.047	0.000	2.530	0.000	3.226	0.000	3.047	0.000	3.047	90.000	XOM_R2OWSG MWD+IFR1+MS
1000.000	0.000	0.000	1000.000	3.585	0.000	3.405	0.000	2.579	0.000	3.585	0.000	3.405	0.000	3.405	90.000	XOM_R2OWSG MWD+IFR1+MS
1100.000	0.000	0.000	1100.000	3.943	0.000	3.764	0.000	2.632	0.000	3.943	0.000	3.764	0.000	3.764	90.000	XOM_R2OWSG MWD+IFR1+MS
1200.000	2.000	6.072	1199.980	4.298	0.000	4.123	0.000	2.688	0.000	4.302	0.000	4.121	0.000	4.121	90.011	XOM_R2OWSG MWD+IFR1+MS
1300.000	4.000	6.072	1299.838	4.650	0.000	4.479	0.000	2.745	0.000	4.661	0.000	4.477	0.000	4.477	90.058	XOM_R2OWSG MWD+IFR1+MS
1400.000	6.000	6.072	1399.452	4.996	0.000	4.834	0.000	2.803	0.000	5.021	0.000	4.832	0.000	4.832	90.097	XOM_R2OWSG MWD+IFR1+MS
1500.000	8.000	6.072	1498.702	5.338	0.000	5.187	0.000	2.862	0.000	5.381	0.000	5.185	0.000	5.185	90.105	XOM_R2OWSG MWD+IFR1+MS
1600.000	10.000	6.072	1597.465	5.674	0.000	5.541	0.000	2.923	0.000	5.741	0.000	5.539	0.000	5.539	90.066	XOM_R2OWSG MWD+IFR1+MS
1700.000	12.000	6.072	1695.623	6.007	0.000	5.897	0.000	2.986	0.000	6.101	0.000	5.894	0.000	5.894	89.963	XOM_R2OWSG MWD+IFR1+MS
1800.000	14.000	6.072	1793.055	6.335	0.000	6.254	0.000	3.051	0.000	6.462	0.000	6.251	0.000	6.251	89.776	XOM_R2OWSG MWD+IFR1+MS

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1895.659	15.913	6.072	1885.469	6.646	0.000	6.599	0.000	3.118	0.000	0.000	6.808	6.596	89.505	XOM_R2OWSG MWD+IFR1+MS
1900.000	15.913	6.072	1889.644	6.662	0.000	6.614	0.000	3.115	0.000	0.000	6.826	6.611	89.589	XOM_R2OWSG MWD+IFR1+MS
2000.000	15.913	6.072	1985.812	7.033	0.000	6.979	0.000	3.205	0.000	0.000	7.183	6.976	88.995	XOM_R2OWSG MWD+IFR1+MS
2100.000	15.913	6.072	2081.979	7.409	0.000	7.348	0.000	3.299	0.000	0.000	7.544	7.344	88.351	XOM_R2OWSG MWD+IFR1+MS
2200.000	15.913	6.072	2178.147	7.787	0.000	7.720	0.000	3.397	0.000	0.000	7.907	7.716	87.649	XOM_R2OWSG MWD+IFR1+MS
2300.000	15.913	6.072	2274.315	8.169	0.000	8.096	0.000	3.500	0.000	0.000	8.274	8.091	86.881	XOM_R2OWSG MWD+IFR1+MS
2400.000	15.913	6.072	2370.483	8.553	0.000	8.474	0.000	3.606	0.000	0.000	8.643	8.468	86.038	XOM_R2OWSG MWD+IFR1+MS
2500.000	15.913	6.072	2466.651	8.939	0.000	8.854	0.000	3.715	0.000	0.000	9.014	8.848	85.109	XOM_R2OWSG MWD+IFR1+MS
2600.000	15.913	6.072	2562.819	9.326	0.000	9.236	0.000	3.827	0.000	0.000	9.387	9.229	84.083	XOM_R2OWSG MWD+IFR1+MS
2700.000	15.913	6.072	2658.986	9.716	0.000	9.620	0.000	3.943	0.000	0.000	9.762	9.612	82.945	XOM_R2OWSG MWD+IFR1+MS
2800.000	15.913	6.072	2755.154	10.107	0.000	10.005	0.000	4.061	0.000	0.000	10.139	9.996	81.681	XOM_R2OWSG MWD+IFR1+MS
2900.000	15.913	6.072	2851.322	10.499	0.000	10.392	0.000	4.181	0.000	0.000	10.517	10.382	80.274	XOM_R2OWSG MWD+IFR1+MS
3000.000	15.913	6.072	2947.490	10.892	0.000	10.780	0.000	4.304	0.000	0.000	10.896	10.768	78.705	XOM_R2OWSG MWD+IFR1+MS
3100.000	15.913	6.072	3043.658	11.287	0.000	11.169	0.000	4.429	0.000	0.000	11.277	11.156	76.957	XOM_R2OWSG MWD+IFR1+MS
3200.000	15.913	6.072	3139.825	11.682	0.000	11.559	0.000	4.556	0.000	0.000	11.659	11.544	75.010	XOM_R2OWSG MWD+IFR1+MS
3300.000	15.913	6.072	3235.993	12.078	0.000	11.950	0.000	4.685	0.000	0.000	12.042	11.933	72.853	XOM_R2OWSG MWD+IFR1+MS
3400.000	15.913	6.072	3332.161	12.475	0.000	12.342	0.000	4.817	0.000	0.000	12.426	12.322	70.475	XOM_R2OWSG MWD+IFR1+MS
3500.000	15.913	6.072	3428.329	12.873	0.000	12.734	0.000	4.950	0.000	0.000	12.812	12.712	67.881	XOM_R2OWSG MWD+IFR1+MS
3600.000	15.913	6.072	3524.497	13.271	0.000	13.127	0.000	5.084	0.000	0.000	13.198	13.101	65.086	XOM_R2OWSG MWD+IFR1+MS
3700.000	15.913	6.072	3620.665	13.670	0.000	13.521	0.000	5.221	0.000	0.000	13.586	13.491	62.128	XOM_R2OWSG MWD+IFR1+MS

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3800.000	15.913	6.072	3716.832	14.069	0.000	13.915	0.000	5.359	0.000	0.000	13.974	13.881	59.057	XOM_R2OWSG MWD+IFR1+MS
3900.000	15.913	6.072	3813.000	14.469	0.000	14.310	0.000	5.499	0.000	0.000	14.364	14.271	55.941	XOM_R2OWSG MWD+IFR1+MS
4000.000	15.913	6.072	3909.168	14.869	0.000	14.705	0.000	5.641	0.000	0.000	14.755	14.661	52.854	XOM_R2OWSG MWD+IFR1+MS
4100.000	15.913	6.072	4005.336	15.270	0.000	15.101	0.000	5.784	0.000	0.000	15.147	15.051	49.865	XOM_R2OWSG MWD+IFR1+MS
4200.000	15.913	6.072	4101.504	15.671	0.000	15.497	0.000	5.929	0.000	0.000	15.539	15.441	47.030	XOM_R2OWSG MWD+IFR1+MS
4300.000	15.913	6.072	4197.672	16.072	0.000	15.893	0.000	6.075	0.000	0.000	15.933	15.830	44.389	XOM_R2OWSG MWD+IFR1+MS
4400.000	15.913	6.072	4293.839	16.474	0.000	16.290	0.000	6.223	0.000	0.000	16.327	16.220	41.963	XOM_R2OWSG MWD+IFR1+MS
4500.000	15.913	6.072	4390.007	16.876	0.000	16.687	0.000	6.373	0.000	0.000	16.722	16.609	39.758	XOM_R2OWSG MWD+IFR1+MS
4600.000	15.913	6.072	4486.175	17.278	0.000	17.085	0.000	6.524	0.000	0.000	17.117	16.999	37.769	XOM_R2OWSG MWD+IFR1+MS
4700.000	15.913	6.072	4582.343	17.680	0.000	17.482	0.000	6.676	0.000	0.000	17.513	17.389	35.982	XOM_R2OWSG MWD+IFR1+MS
4800.000	15.913	6.072	4678.511	18.083	0.000	17.880	0.000	6.830	0.000	0.000	17.910	17.778	34.381	XOM_R2OWSG MWD+IFR1+MS
4900.000	15.913	6.072	4774.678	18.486	0.000	18.278	0.000	6.986	0.000	0.000	18.307	18.168	32.946	XOM_R2OWSG MWD+IFR1+MS
5000.000	15.913	6.072	4870.846	18.889	0.000	18.677	0.000	7.143	0.000	0.000	18.704	18.558	31.661	XOM_R2OWSG MWD+IFR1+MS
5100.000	15.913	6.072	4967.014	19.293	0.000	19.075	0.000	7.302	0.000	0.000	19.102	18.948	30.507	XOM_R2OWSG MWD+IFR1+MS
5200.000	15.913	6.072	5063.182	19.696	0.000	19.474	0.000	7.462	0.000	0.000	19.499	19.338	29.468	XOM_R2OWSG MWD+IFR1+MS
5253.395	15.913	6.072	5114.531	19.912	0.000	19.687	0.000	7.548	0.000	0.000	19.712	19.546	28.986	XOM_R2OWSG MWD+IFR1+MS
5300.000	14.981	6.072	5159.452	20.117	0.000	19.872	0.000	7.625	0.000	0.000	19.896	19.727	28.571	XOM_R2OWSG MWD+IFR1+MS
5400.000	12.981	6.072	5256.484	20.535	0.000	20.263	0.000	7.785	0.000	0.000	20.287	20.111	27.942	XOM_R2OWSG MWD+IFR1+MS
5500.000	10.981	6.072	5354.301	20.922	0.000	20.645	0.000	7.939	0.000	0.000	20.669	20.489	27.671	XOM_R2OWSG MWD+IFR1+MS
5600.000	8.981	6.072	5452.782	21.277	0.000	21.018	0.000	8.087	0.000	0.000	21.042	20.861	27.716	XOM_R2OWSG MWD+IFR1+MS

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5700.000	6.981	6.072	5551.809	21.598	0.000	21.381	0.000	8.228	0.000	0.000	21.406	21.226	27.997	XOM_R2OWSG MWD+IFR1+MS
5800.000	4.981	6.072	5651.259	21.887	0.000	21.735	0.000	8.363	0.000	0.000	21.760	21.582	28.457	XOM_R2OWSG MWD+IFR1+MS
5900.000	2.981	6.072	5751.013	22.141	0.000	22.078	0.000	8.493	0.000	0.000	22.105	21.929	29.039	XOM_R2OWSG MWD+IFR1+MS
6000.000	0.981	6.072	5850.948	22.362	0.000	22.412	0.000	8.618	0.000	0.000	22.439	22.267	29.692	XOM_R2OWSG MWD+IFR1+MS
6049.054	0.000	0.000	5900.000	22.472	0.000	22.557	0.000	8.678	0.000	0.000	22.600	22.429	30.040	XOM_R2OWSG MWD+IFR1+MS
6100.000	0.000	0.000	5950.946	22.640	0.000	22.723	0.000	8.740	0.000	0.000	22.766	22.597	30.425	XOM_R2OWSG MWD+IFR1+MS
6200.000	0.000	0.000	6050.946	22.970	0.000	23.048	0.000	8.863	0.000	0.000	23.092	22.926	31.181	XOM_R2OWSG MWD+IFR1+MS
6300.000	0.000	0.000	6150.946	23.301	0.000	23.374	0.000	8.988	0.000	0.000	23.419	23.255	31.939	XOM_R2OWSG MWD+IFR1+MS
6400.000	0.000	0.000	6250.946	23.633	0.000	23.700	0.000	9.117	0.000	0.000	23.748	23.586	32.697	XOM_R2OWSG MWD+IFR1+MS
6500.000	0.000	0.000	6350.946	23.966	0.000	24.028	0.000	9.248	0.000	0.000	24.077	23.917	33.455	XOM_R2OWSG MWD+IFR1+MS
6600.000	0.000	0.000	6450.946	24.299	0.000	24.357	0.000	9.382	0.000	0.000	24.407	24.249	34.212	XOM_R2OWSG MWD+IFR1+MS
6700.000	0.000	0.000	6550.946	24.633	0.000	24.686	0.000	9.518	0.000	0.000	24.738	24.582	34.966	XOM_R2OWSG MWD+IFR1+MS
6800.000	0.000	0.000	6650.946	24.968	0.000	25.017	0.000	9.658	0.000	0.000	25.069	24.915	35.716	XOM_R2OWSG MWD+IFR1+MS
6900.000	0.000	0.000	6750.946	25.303	0.000	25.348	0.000	9.800	0.000	0.000	25.402	25.249	36.462	XOM_R2OWSG MWD+IFR1+MS
7000.000	0.000	0.000	6850.946	25.639	0.000	25.680	0.000	9.945	0.000	0.000	25.735	25.584	37.202	XOM_R2OWSG MWD+IFR1+MS
7100.000	0.000	0.000	6950.946	25.976	0.000	26.012	0.000	10.093	0.000	0.000	26.069	25.919	37.936	XOM_R2OWSG MWD+IFR1+MS
7200.000	0.000	0.000	7050.946	26.313	0.000	26.345	0.000	10.244	0.000	0.000	26.403	26.254	38.662	XOM_R2OWSG MWD+IFR1+MS
7300.000	0.000	0.000	7150.946	26.650	0.000	26.679	0.000	10.397	0.000	0.000	26.739	26.591	39.381	XOM_R2OWSG MWD+IFR1+MS
7400.000	0.000	0.000	7250.946	26.989	0.000	27.014	0.000	10.554	0.000	0.000	27.075	26.928	40.090	XOM_R2OWSG MWD+IFR1+MS
7500.000	0.000	0.000	7350.946	27.327	0.000	27.349	0.000	10.713	0.000	0.000	27.411	27.265	40.790	XOM_R2OWSG MWD+IFR1+MS

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7600.000	0.000	0.000	7450.946	27.667	0.000	27.685	0.000	10.875	0.000	0.000	27.748	27.603	41.480	XOM_R2OWSG MWD+IFR1+MS
7700.000	0.000	0.000	7550.946	28.006	0.000	28.021	0.000	11.041	0.000	0.000	28.086	27.941	42.159	XOM_R2OWSG MWD+IFR1+MS
7800.000	0.000	0.000	7650.946	28.347	0.000	28.358	0.000	11.209	0.000	0.000	28.424	28.280	42.827	XOM_R2OWSG MWD+IFR1+MS
7900.000	0.000	0.000	7750.946	28.687	0.000	28.695	0.000	11.380	0.000	0.000	28.763	28.619	43.483	XOM_R2OWSG MWD+IFR1+MS
8000.000	0.000	0.000	7850.946	29.028	0.000	29.033	0.000	11.555	0.000	0.000	29.102	28.958	44.127	XOM_R2OWSG MWD+IFR1+MS
8100.000	0.000	0.000	7950.946	29.370	0.000	29.371	0.000	11.732	0.000	0.000	29.442	29.299	44.759	XOM_R2OWSG MWD+IFR1+MS
8200.000	0.000	0.000	8050.946	29.712	0.000	29.710	0.000	11.912	0.000	0.000	29.782	29.639	45.378	XOM_R2OWSG MWD+IFR1+MS
8300.000	0.000	0.000	8150.946	30.054	0.000	30.049	0.000	12.096	0.000	0.000	30.123	29.980	45.984	XOM_R2OWSG MWD+IFR1+MS
8400.000	0.000	0.000	8250.946	30.397	0.000	30.389	0.000	12.282	0.000	0.000	30.464	30.321	46.578	XOM_R2OWSG MWD+IFR1+MS
8500.000	0.000	0.000	8350.946	30.740	0.000	30.729	0.000	12.472	0.000	0.000	30.806	30.663	47.158	XOM_R2OWSG MWD+IFR1+MS
8600.000	0.000	0.000	8450.946	31.083	0.000	31.069	0.000	12.664	0.000	0.000	31.148	31.004	47.725	XOM_R2OWSG MWD+IFR1+MS
8700.000	0.000	0.000	8550.946	31.427	0.000	31.410	0.000	12.860	0.000	0.000	31.490	31.347	48.280	XOM_R2OWSG MWD+IFR1+MS
8800.000	0.000	0.000	8650.946	31.771	0.000	31.752	0.000	13.059	0.000	0.000	31.833	31.689	48.821	XOM_R2OWSG MWD+IFR1+MS
8900.000	0.000	0.000	8750.946	32.115	0.000	32.093	0.000	13.261	0.000	0.000	32.176	32.032	49.350	XOM_R2OWSG MWD+IFR1+MS
9000.000	0.000	0.000	8850.946	32.460	0.000	32.435	0.000	13.466	0.000	0.000	32.519	32.375	49.865	XOM_R2OWSG MWD+IFR1+MS
9100.000	0.000	0.000	8950.946	32.805	0.000	32.778	0.000	13.674	0.000	0.000	32.863	32.719	50.368	XOM_R2OWSG MWD+IFR1+MS
9200.000	0.000	0.000	9050.946	33.150	0.000	33.120	0.000	13.885	0.000	0.000	33.207	33.063	50.859	XOM_R2OWSG MWD+IFR1+MS
9300.000	0.000	0.000	9150.946	33.495	0.000	33.464	0.000	14.100	0.000	0.000	33.552	33.407	51.337	XOM_R2OWSG MWD+IFR1+MS
9400.000	0.000	0.000	9250.946	33.841	0.000	33.807	0.000	14.317	0.000	0.000	33.897	33.751	51.803	XOM_R2OWSG MWD+IFR1+MS
9500.000	0.000	0.000	9350.946	34.187	0.000	34.151	0.000	14.538	0.000	0.000	34.242	34.096	52.257	XOM_R2OWSG MWD+IFR1+MS

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9600.000	0.000	0.000	9450.946	34.533	0.000	34.495	0.000	14.762	0.000	0.000	34.587	34.441	52.699	XOM_R2OWSG MWD+IFR1+MS
9700.000	0.000	0.000	9550.946	34.880	0.000	34.839	0.000	14.989	0.000	0.000	34.933	34.786	53.130	XOM_R2OWSG MWD+IFR1+MS
9800.000	0.000	0.000	9650.946	35.227	0.000	35.183	0.000	15.219	0.000	0.000	35.279	35.131	53.550	XOM_R2OWSG MWD+IFR1+MS
9812.857	0.000	0.000	9663.803	35.271	0.000	35.228	0.000	15.249	0.000	0.000	35.323	35.176	53.603	XOM_R2OWSG MWD+IFR1+MS
9900.000	6.971	179.889	9750.731	34.869	0.000	35.509	-0.000	15.447	0.000	0.000	35.600	35.455	52.287	XOM_R2OWSG MWD+IFR1+MS
10000.000	14.971	179.889	9848.823	33.848	0.000	35.798	-0.000	15.661	0.000	0.000	35.877	35.734	47.660	XOM_R2OWSG MWD+IFR1+MS
10100.000	22.971	179.889	9943.315	32.287	0.000	36.062	-0.000	15.861	0.000	0.000	36.124	35.977	40.325	XOM_R2OWSG MWD+IFR1+MS
10200.000	30.971	179.889	10032.366	30.247	0.000	36.298	-0.000	16.049	0.000	0.000	36.343	36.176	31.347	XOM_R2OWSG MWD+IFR1+MS
10300.000	38.971	179.889	10114.243	27.820	0.000	36.505	-0.000	16.228	0.000	0.000	36.538	36.328	23.203	XOM_R2OWSG MWD+IFR1+MS
10400.000	46.971	179.889	10187.353	25.139	0.000	36.683	-0.000	16.406	0.000	0.000	36.708	36.435	17.222	XOM_R2OWSG MWD+IFR1+MS
10500.000	54.971	179.889	10250.272	22.392	0.000	36.834	-0.000	16.590	0.000	0.000	36.853	36.502	13.167	XOM_R2OWSG MWD+IFR1+MS
10600.000	62.971	179.889	10301.777	19.847	0.000	36.958	-0.000	16.789	0.000	0.000	36.973	36.537	10.422	XOM_R2OWSG MWD+IFR1+MS
10700.000	70.971	179.889	10340.864	17.872	0.000	37.056	-0.000	17.010	0.000	0.000	37.068	36.549	8.519	XOM_R2OWSG MWD+IFR1+MS
10800.000	78.971	179.889	10366.773	16.891	0.000	37.130	-0.000	17.258	0.000	0.000	37.139	36.548	7.169	XOM_R2OWSG MWD+IFR1+MS
10900.000	86.971	179.889	10379.000	17.193	0.000	37.178	-0.000	17.533	0.000	0.000	37.185	36.545	6.208	XOM_R2OWSG MWD+IFR1+MS
10937.857	90.000	179.889	10380.000	17.644	0.000	37.188	-0.000	17.644	0.000	0.000	37.195	36.546	5.942	XOM_R2OWSG MWD+IFR1+MS
11000.000	90.000	179.889	10380.000	17.836	0.000	37.207	-0.000	17.836	0.000	0.000	37.213	36.547	5.487	XOM_R2OWSG MWD+IFR1+MS
11100.000	90.000	179.889	10380.000	18.167	0.000	37.256	-0.000	18.167	0.000	0.000	37.261	36.550	4.669	XOM_R2OWSG MWD+IFR1+MS
11200.000	90.000	179.889	10380.000	18.525	0.000	37.326	-0.000	18.525	0.000	0.000	37.330	36.553	3.844	XOM_R2OWSG MWD+IFR1+MS
11300.000	90.000	179.889	10380.000	18.909	0.000	37.417	-0.000	18.909	0.000	0.000	37.419	36.557	3.073	XOM_R2OWSG MWD+IFR1+MS

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11400.000	90.000	179.889	10380.000	19.318	0.000	37.528	-0.000	19.318	0.000	0.000	37.530	36.561	2.390	XOM_R2OWSG MWD+IFR1+MS
11500.000	90.000	179.889	10380.000	19.749	0.000	37.659	-0.000	19.749	0.000	0.000	37.661	36.566	1.808	XOM_R2OWSG MWD+IFR1+MS
11600.000	90.000	179.889	10380.000	20.202	0.000	37.811	-0.000	20.202	0.000	0.000	37.812	36.571	1.324	XOM_R2OWSG MWD+IFR1+MS
11700.000	90.000	179.889	10380.000	20.674	0.000	37.982	-0.000	20.674	0.000	0.000	37.983	36.576	0.928	XOM_R2OWSG MWD+IFR1+MS
11800.000	90.000	179.889	10380.000	21.165	0.000	38.173	-0.000	21.165	0.000	0.000	38.174	36.582	0.608	XOM_R2OWSG MWD+IFR1+MS
11900.000	90.000	179.889	10380.000	21.673	0.000	38.383	-0.000	21.673	0.000	0.000	38.384	36.589	0.350	XOM_R2OWSG MWD+IFR1+MS
12000.000	90.000	179.889	10380.000	22.198	0.000	38.613	-0.000	22.198	0.000	0.000	38.613	36.597	0.143	XOM_R2OWSG MWD+IFR1+MS
12100.000	90.000	179.889	10380.000	22.737	0.000	38.860	-0.000	22.737	0.000	0.000	38.860	36.605	-0.022	XOM_R2OWSG MWD+IFR1+MS
12200.000	90.000	179.889	10380.000	23.290	0.000	39.126	-0.000	23.290	0.000	0.000	39.126	36.613	-0.155	XOM_R2OWSG MWD+IFR1+MS
12300.000	90.000	179.889	10380.000	23.857	0.000	39.410	-0.000	23.857	0.000	0.000	39.410	36.622	-0.261	XOM_R2OWSG MWD+IFR1+MS
12400.000	90.000	179.889	10380.000	24.435	0.000	39.712	-0.000	24.435	0.000	0.000	39.712	36.632	-0.346	XOM_R2OWSG MWD+IFR1+MS
12500.000	90.000	179.889	10380.000	25.025	0.000	40.030	-0.000	25.025	0.000	0.000	40.030	36.643	-0.414	XOM_R2OWSG MWD+IFR1+MS
12600.000	90.000	179.889	10380.000	25.625	0.000	40.366	-0.000	25.625	0.000	0.000	40.366	36.654	-0.468	XOM_R2OWSG MWD+IFR1+MS
12700.000	90.000	179.889	10380.000	26.235	0.000	40.717	-0.000	26.235	0.000	0.000	40.717	36.666	-0.512	XOM_R2OWSG MWD+IFR1+MS
12800.000	90.000	179.889	10380.000	26.854	0.000	41.085	-0.000	26.854	0.000	0.000	41.085	36.678	-0.546	XOM_R2OWSG MWD+IFR1+MS
12900.000	90.000	179.889	10380.000	27.481	0.000	41.467	-0.000	27.481	0.000	0.000	41.468	36.692	-0.573	XOM_R2OWSG MWD+IFR1+MS
13000.000	90.000	179.889	10380.000	28.117	0.000	41.865	-0.000	28.117	0.000	0.000	41.866	36.705	-0.594	XOM_R2OWSG MWD+IFR1+MS
13100.000	90.000	179.889	10380.000	28.759	0.000	42.278	-0.000	28.759	0.000	0.000	42.278	36.720	-0.611	XOM_R2OWSG MWD+IFR1+MS
13200.000	90.000	179.889	10380.000	29.409	0.000	42.705	-0.000	29.409	0.000	0.000	42.705	36.735	-0.623	XOM_R2OWSG MWD+IFR1+MS
13300.000	90.000	179.889	10380.000	30.065	0.000	43.145	-0.000	30.065	0.000	0.000	43.146	36.751	-0.632	XOM_R2OWSG MWD+IFR1+MS

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13400.000	90.000	179.889	10380.000	30.727	0.000	43.599	-0.000	30.727	0.000	0.000	43.599	36.767	-0.639	XOM_R2OWSG MWD+IFR1+MS	
13500.000	90.000	179.889	10380.000	31.395	0.000	44.066	-0.000	31.395	0.000	0.000	44.066	36.784	-0.643	XOM_R2OWSG MWD+IFR1+MS	
13600.000	90.000	179.889	10380.000	32.068	0.000	44.545	-0.000	32.068	0.000	0.000	44.546	36.802	-0.646	XOM_R2OWSG MWD+IFR1+MS	
13700.000	90.000	179.889	10380.000	32.746	0.000	45.036	-0.000	32.746	0.000	0.000	45.037	36.820	-0.647	XOM_R2OWSG MWD+IFR1+MS	
13800.000	90.000	179.889	10380.000	33.429	0.000	45.539	-0.000	33.429	0.000	0.000	45.540	36.839	-0.646	XOM_R2OWSG MWD+IFR1+MS	
13900.000	90.000	179.889	10380.000	34.116	0.000	46.054	-0.000	34.116	0.000	0.000	46.055	36.859	-0.645	XOM_R2OWSG MWD+IFR1+MS	
14000.000	90.000	179.889	10380.000	34.807	0.000	46.579	-0.000	34.807	0.000	0.000	46.580	36.879	-0.643	XOM_R2OWSG MWD+IFR1+MS	
14100.000	90.000	179.889	10380.000	35.502	0.000	47.115	-0.000	35.502	0.000	0.000	47.116	36.900	-0.640	XOM_R2OWSG MWD+IFR1+MS	
14200.000	90.000	179.889	10380.000	36.201	0.000	47.662	-0.000	36.201	0.000	0.000	47.663	36.922	-0.637	XOM_R2OWSG MWD+IFR1+MS	
14300.000	90.000	179.889	10380.000	36.903	0.000	48.218	-0.000	36.903	0.000	0.000	48.219	36.944	-0.633	XOM_R2OWSG MWD+IFR1+MS	
14400.000	90.000	179.889	10380.000	37.609	0.000	48.784	-0.000	37.609	0.000	0.000	48.785	36.967	-0.628	XOM_R2OWSG MWD+IFR1+MS	
14500.000	90.000	179.889	10380.000	38.317	0.000	49.359	-0.000	38.317	0.000	0.000	49.360	36.991	-0.624	XOM_R2OWSG MWD+IFR1+MS	
14600.000	90.000	179.889	10380.000	39.029	0.000	49.943	-0.000	39.029	0.000	0.000	49.944	37.015	-0.619	XOM_R2OWSG MWD+IFR1+MS	
14700.000	90.000	179.889	10380.000	39.743	0.000	50.535	-0.000	39.743	0.000	0.000	50.536	37.040	-0.614	XOM_R2OWSG MWD+IFR1+MS	
14800.000	90.000	179.889	10380.000	40.460	0.000	51.136	-0.000	40.460	0.000	0.000	51.137	37.065	-0.609	XOM_R2OWSG MWD+IFR1+MS	
14900.000	90.000	179.889	10380.000	41.179	0.000	51.745	-0.000	41.179	0.000	0.000	51.746	37.091	-0.604	XOM_R2OWSG MWD+IFR1+MS	
15000.000	90.000	179.889	10380.000	41.901	0.000	52.362	-0.000	41.901	0.000	0.000	52.363	37.118	-0.599	XOM_R2OWSG MWD+IFR1+MS	
15100.000	90.000	179.889	10380.000	42.625	0.000	52.986	-0.000	42.625	0.000	0.000	52.987	37.145	-0.593	XOM_R2OWSG MWD+IFR1+MS	
15200.000	90.000	179.889	10380.000	43.351	0.000	53.617	-0.000	43.351	0.000	0.000	53.618	37.173	-0.588	XOM_R2OWSG MWD+IFR1+MS	
15300.000	90.000	179.889	10380.000	44.079	0.000	54.255	-0.000	44.079	0.000	0.000	54.256	37.202	-0.582	XOM_R2OWSG MWD+IFR1+MS	

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15400.000	90.000	179.889	10380.000	44.809	0.000	54.900	-0.000	44.809	0.000	0.000	54.901	37.231	-0.577	XOM_R2OWSG MWD+IFR1+MS
15500.000	90.000	179.889	10380.000	45.541	0.000	55.552	-0.000	45.541	0.000	0.000	55.553	37.261	-0.572	XOM_R2OWSG MWD+IFR1+MS
15600.000	90.000	179.889	10380.000	46.274	0.000	56.209	-0.000	46.274	0.000	0.000	56.210	37.292	-0.567	XOM_R2OWSG MWD+IFR1+MS
15700.000	90.000	179.889	10380.000	47.009	0.000	56.873	-0.000	47.009	0.000	0.000	56.874	37.323	-0.561	XOM_R2OWSG MWD+IFR1+MS
15800.000	90.000	179.889	10380.000	47.746	0.000	57.542	-0.000	47.746	0.000	0.000	57.543	37.354	-0.556	XOM_R2OWSG MWD+IFR1+MS
15900.000	90.000	179.889	10380.000	48.485	0.000	58.218	-0.000	48.485	0.000	0.000	58.219	37.387	-0.551	XOM_R2OWSG MWD+IFR1+MS
16000.000	90.000	179.889	10380.000	49.224	0.000	58.898	-0.000	49.224	0.000	0.000	58.899	37.420	-0.546	XOM_R2OWSG MWD+IFR1+MS
16100.000	90.000	179.889	10380.000	49.965	0.000	59.584	-0.000	49.965	0.000	0.000	59.585	37.453	-0.541	XOM_R2OWSG MWD+IFR1+MS
16200.000	90.000	179.889	10380.000	50.708	0.000	60.275	-0.000	50.708	0.000	0.000	60.276	37.488	-0.536	XOM_R2OWSG MWD+IFR1+MS
16300.000	90.000	179.889	10380.000	51.451	0.000	60.971	-0.000	51.451	0.000	0.000	60.972	37.522	-0.531	XOM_R2OWSG MWD+IFR1+MS
16400.000	90.000	179.889	10380.000	52.196	0.000	61.671	-0.000	52.196	0.000	0.000	61.672	37.558	-0.526	XOM_R2OWSG MWD+IFR1+MS
16500.000	90.000	179.889	10380.000	52.942	0.000	62.376	-0.000	52.942	0.000	0.000	62.377	37.594	-0.521	XOM_R2OWSG MWD+IFR1+MS
16600.000	90.000	179.889	10380.000	53.689	0.000	63.086	-0.000	53.689	0.000	0.000	63.087	37.631	-0.517	XOM_R2OWSG MWD+IFR1+MS
16700.000	90.000	179.889	10380.000	54.438	0.000	63.800	-0.000	54.438	0.000	0.000	63.801	37.668	-0.512	XOM_R2OWSG MWD+IFR1+MS
16800.000	90.000	179.889	10380.000	55.187	0.000	64.518	-0.000	55.187	0.000	0.000	64.519	37.706	-0.508	XOM_R2OWSG MWD+IFR1+MS
16900.000	90.000	179.889	10380.000	55.937	0.000	65.240	-0.000	55.937	0.000	0.000	65.241	37.744	-0.503	XOM_R2OWSG MWD+IFR1+MS
17000.000	90.000	179.889	10380.000	56.688	0.000	65.965	-0.000	56.688	0.000	0.000	65.966	37.783	-0.499	XOM_R2OWSG MWD+IFR1+MS
17100.000	90.000	179.889	10380.000	57.440	0.000	66.695	-0.000	57.440	0.000	0.000	66.696	37.823	-0.495	XOM_R2OWSG MWD+IFR1+MS
17200.000	90.000	179.889	10380.000	58.193	0.000	67.428	-0.000	58.193	0.000	0.000	67.429	37.863	-0.490	XOM_R2OWSG MWD+IFR1+MS
17300.000	90.000	179.889	10380.000	58.947	0.000	68.165	-0.000	58.947	0.000	0.000	68.166	37.904	-0.486	XOM_R2OWSG MWD+IFR1+MS

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17400.000	90.000	179.889	10380.000	59.701	0.000	68.905	-0.000	59.701	0.000	68.906	37.946	-0.482	XOM_R2OWSG MWD+IFR1+MS
17500.000	90.000	179.889	10380.000	60.457	0.000	69.648	-0.000	60.457	0.000	69.649	37.988	-0.478	XOM_R2OWSG MWD+IFR1+MS
17600.000	90.000	179.889	10380.000	61.213	0.000	70.394	-0.000	61.213	0.000	70.395	38.030	-0.474	XOM_R2OWSG MWD+IFR1+MS
17700.000	90.000	179.889	10380.000	61.969	0.000	71.144	-0.000	61.969	0.000	71.145	38.074	-0.470	XOM_R2OWSG MWD+IFR1+MS
17800.000	90.000	179.889	10380.000	62.727	0.000	71.896	-0.000	62.727	0.000	71.897	38.118	-0.467	XOM_R2OWSG MWD+IFR1+MS
17900.000	90.000	179.889	10380.000	63.485	0.000	72.652	-0.000	63.485	0.000	72.653	38.162	-0.463	XOM_R2OWSG MWD+IFR1+MS
18000.000	90.000	179.889	10380.000	64.244	0.000	73.410	-0.000	64.244	0.000	73.411	38.207	-0.459	XOM_R2OWSG MWD+IFR1+MS
18100.000	90.000	179.889	10380.000	65.003	0.000	74.171	-0.000	65.003	0.000	74.172	38.253	-0.456	XOM_R2OWSG MWD+IFR1+MS
18200.000	90.000	179.889	10380.000	65.763	0.000	74.934	-0.000	65.763	0.000	74.935	38.299	-0.452	XOM_R2OWSG MWD+IFR1+MS
18300.000	90.000	179.889	10380.000	66.523	0.000	75.700	-0.000	66.523	0.000	75.701	38.345	-0.449	XOM_R2OWSG MWD+IFR1+MS
18400.000	90.000	179.889	10380.000	67.285	0.000	76.469	-0.000	67.285	0.000	76.470	38.393	-0.445	XOM_R2OWSG MWD+IFR1+MS
18500.000	90.000	179.889	10380.000	68.046	0.000	77.240	-0.000	68.046	0.000	77.241	38.441	-0.442	XOM_R2OWSG MWD+IFR1+MS
18600.000	90.000	179.889	10380.000	68.808	0.000	78.013	-0.000	68.808	0.000	78.014	38.489	-0.439	XOM_R2OWSG MWD+IFR1+MS
18700.000	90.000	179.889	10380.000	69.571	0.000	78.789	-0.000	69.571	0.000	78.790	38.538	-0.436	XOM_R2OWSG MWD+IFR1+MS
18800.000	90.000	179.889	10380.000	70.334	0.000	79.566	-0.000	70.334	0.000	79.567	38.588	-0.432	XOM_R2OWSG MWD+IFR1+MS
18900.000	90.000	179.889	10380.000	71.098	0.000	80.346	-0.000	71.098	0.000	80.347	38.638	-0.429	XOM_R2OWSG MWD+IFR1+MS
19000.000	90.000	179.889	10380.000	71.862	0.000	81.128	-0.000	71.862	0.000	81.129	38.689	-0.426	XOM_R2OWSG MWD+IFR1+MS
19100.000	90.000	179.889	10380.000	72.626	0.000	81.912	-0.000	72.626	0.000	81.913	38.740	-0.423	XOM_R2OWSG MWD+IFR1+MS
19200.000	90.000	179.889	10380.000	73.391	0.000	82.698	-0.000	73.391	0.000	82.699	38.792	-0.420	XOM_R2OWSG MWD+IFR1+MS
19300.000	90.000	179.889	10380.000	74.157	0.000	83.486	-0.000	74.157	0.000	83.487	38.844	-0.417	XOM_R2OWSG MWD+IFR1+MS

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19400.000	90.000	179.889	10380.000	74.922	0.000	84.275	-0.000	74.922	0.000	0.000	84.276	38.897	-0.415	XOM_R2OWSG MWD+IFR1+MS
19500.000	90.000	179.889	10380.000	75.688	0.000	85.067	-0.000	75.688	0.000	0.000	85.068	38.950	-0.412	XOM_R2OWSG MWD+IFR1+MS
19600.000	90.000	179.889	10380.000	76.455	0.000	85.860	-0.000	76.455	0.000	0.000	85.861	39.004	-0.409	XOM_R2OWSG MWD+IFR1+MS
19700.000	90.000	179.889	10380.000	77.222	0.000	86.655	-0.000	77.222	0.000	0.000	86.655	39.059	-0.406	XOM_R2OWSG MWD+IFR1+MS
19800.000	90.000	179.889	10380.000	77.989	0.000	87.451	-0.000	77.989	0.000	0.000	87.452	39.114	-0.404	XOM_R2OWSG MWD+IFR1+MS
19900.000	90.000	179.889	10380.000	78.757	0.000	88.249	-0.000	78.757	0.000	0.000	88.250	39.170	-0.401	XOM_R2OWSG MWD+IFR1+MS
20000.000	90.000	179.889	10380.000	79.525	0.000	89.049	-0.000	79.525	0.000	0.000	89.050	39.226	-0.398	XOM_R2OWSG MWD+IFR1+MS
20100.000	90.000	179.889	10380.000	80.293	0.000	89.850	-0.000	80.293	0.000	0.000	89.851	39.283	-0.396	XOM_R2OWSG MWD+IFR1+MS
20200.000	90.000	179.889	10380.000	81.061	0.000	90.653	-0.000	81.061	0.000	0.000	90.653	39.340	-0.393	XOM_R2OWSG MWD+IFR1+MS
20300.000	90.000	179.889	10380.000	81.830	0.000	91.457	-0.000	81.830	0.000	0.000	91.458	39.398	-0.391	XOM_R2OWSG MWD+IFR1+MS
20400.000	90.000	179.889	10380.000	82.599	0.000	92.262	-0.000	82.599	0.000	0.000	92.263	39.456	-0.389	XOM_R2OWSG MWD+IFR1+MS
20500.000	90.000	179.889	10380.000	83.369	0.000	93.069	-0.000	83.369	0.000	0.000	93.070	39.515	-0.386	XOM_R2OWSG MWD+IFR1+MS
20600.000	90.000	179.889	10380.000	84.139	0.000	93.877	-0.000	84.139	0.000	0.000	93.878	39.574	-0.384	XOM_R2OWSG MWD+IFR1+MS
20700.000	90.000	179.889	10380.000	84.909	0.000	94.687	-0.000	84.909	0.000	0.000	94.687	39.634	-0.382	XOM_R2OWSG MWD+IFR1+MS
20800.000	90.000	179.889	10380.000	85.679	0.000	95.497	-0.000	85.679	0.000	0.000	95.498	39.695	-0.379	XOM_R2OWSG MWD+IFR1+MS
20900.000	90.000	179.889	10380.000	86.450	0.000	96.309	-0.000	86.450	0.000	0.000	96.310	39.755	-0.377	XOM_R2OWSG MWD+IFR1+MS
21000.000	90.000	179.889	10380.000	87.220	0.000	97.122	-0.000	87.220	0.000	0.000	97.123	39.817	-0.375	XOM_R2OWSG MWD+IFR1+MS
21100.000	90.000	179.889	10380.000	87.991	0.000	97.937	-0.000	87.991	0.000	0.000	97.938	39.879	-0.373	XOM_R2OWSG MWD+IFR1+MS
21200.000	90.000	179.889	10380.000	88.763	0.000	98.752	-0.000	88.763	0.000	0.000	98.753	39.941	-0.371	XOM_R2OWSG MWD+IFR1+MS
21300.000	90.000	179.889	10380.000	89.534	0.000	99.569	-0.000	89.534	0.000	0.000	99.570	40.004	-0.369	XOM_R2OWSG MWD+IFR1+MS

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21400.000	90.000	179.889	10380.000	90.306	0.000	100.386	-0.000	90.306	0.000	100.387	40.068	-0.367	XOM_R2OWSG MWD+IFR1+MS
21500.000	90.000	179.889	10380.000	91.078	0.000	101.205	-0.000	91.078	0.000	101.206	40.132	-0.365	XOM_R2OWSG MWD+IFR1+MS
21600.000	90.000	179.889	10380.000	91.850	0.000	102.025	-0.000	91.850	0.000	102.026	40.196	-0.363	XOM_R2OWSG MWD+IFR1+MS
21700.000	90.000	179.889	10380.000	92.623	0.000	102.846	-0.000	92.623	0.000	102.847	40.261	-0.361	XOM_R2OWSG MWD+IFR1+MS
21800.000	90.000	179.889	10380.000	93.395	0.000	103.667	-0.000	93.395	0.000	103.668	40.327	-0.359	XOM_R2OWSG MWD+IFR1+MS
21900.000	90.000	179.889	10380.000	94.168	0.000	104.490	-0.000	94.168	0.000	104.491	40.393	-0.357	XOM_R2OWSG MWD+IFR1+MS
22000.000	90.000	179.889	10380.000	94.941	0.000	105.314	-0.000	94.941	0.000	105.315	40.459	-0.355	XOM_R2OWSG MWD+IFR1+MS
22100.000	90.000	179.889	10380.000	95.714	0.000	106.138	-0.000	95.714	0.000	106.139	40.526	-0.353	XOM_R2OWSG MWD+IFR1+MS
22200.000	90.000	179.889	10380.000	96.488	0.000	106.964	-0.000	96.488	0.000	106.965	40.594	-0.351	XOM_R2OWSG MWD+IFR1+MS
22300.000	90.000	179.889	10380.000	97.261	0.000	107.790	-0.000	97.261	0.000	107.791	40.661	-0.349	XOM_R2OWSG MWD+IFR1+MS
22400.000	90.000	179.889	10380.000	98.035	0.000	108.617	-0.000	98.035	0.000	108.618	40.730	-0.348	XOM_R2OWSG MWD+IFR1+MS
22500.000	90.000	179.889	10380.000	98.809	0.000	109.445	-0.000	98.809	0.000	109.446	40.799	-0.346	XOM_R2OWSG MWD+IFR1+MS
22600.000	90.000	179.889	10380.000	99.583	0.000	110.274	-0.000	99.583	0.000	110.275	40.868	-0.344	XOM_R2OWSG MWD+IFR1+MS
22700.000	90.000	179.889	10380.000	100.357	0.000	111.104	-0.000	100.357	0.000	111.105	40.938	-0.343	XOM_R2OWSG MWD+IFR1+MS
22800.000	90.000	179.889	10380.000	101.132	0.000	111.934	-0.000	101.132	0.000	111.935	41.008	-0.341	XOM_R2OWSG MWD+IFR1+MS
22900.000	90.000	179.889	10380.000	101.906	0.000	112.766	-0.000	101.906	0.000	112.766	41.079	-0.339	XOM_R2OWSG MWD+IFR1+MS
23000.000	90.000	179.889	10380.000	102.681	0.000	113.598	-0.000	102.681	0.000	113.598	41.150	-0.338	XOM_R2OWSG MWD+IFR1+MS
23100.000	90.000	179.889	10380.000	103.456	0.000	114.430	-0.000	103.456	0.000	114.431	41.222	-0.336	XOM_R2OWSG MWD+IFR1+MS
23200.000	90.000	179.889	10380.000	104.231	0.000	115.264	-0.000	104.231	0.000	115.264	41.294	-0.334	XOM_R2OWSG MWD+IFR1+MS
23300.000	90.000	179.889	10380.000	105.006	0.000	116.098	-0.000	105.006	0.000	116.098	41.367	-0.333	XOM_R2OWSG MWD+IFR1+MS

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Well Plan Report														
23400.000	90.000	179.889	10380.000	105.781	0.000	116.933	-0.000	105.781	0.000	0.000	116.933	41.440	-0.331	XOM_R2OWSG MWD+IFR1+MS
23500.000	90.000	179.889	10380.000	106.557	0.000	117.768	-0.000	106.557	0.000	0.000	117.769	41.513	-0.330	XOM_R2OWSG MWD+IFR1+MS
23600.000	90.000	179.889	10380.000	107.332	0.000	118.604	-0.000	107.332	0.000	0.000	118.605	41.587	-0.328	XOM_R2OWSG MWD+IFR1+MS
23700.000	90.000	179.889	10380.000	108.108	0.000	119.441	-0.000	108.108	0.000	0.000	119.442	41.662	-0.327	XOM_R2OWSG MWD+IFR1+MS
23800.000	90.000	179.889	10380.000	108.884	0.000	120.278	-0.000	108.884	0.000	0.000	120.279	41.737	-0.325	XOM_R2OWSG MWD+IFR1+MS
23900.000	90.000	179.889	10380.000	109.660	0.000	121.116	-0.000	109.660	0.000	0.000	121.117	41.812	-0.324	XOM_R2OWSG MWD+IFR1+MS
24000.000	90.000	179.889	10380.000	110.436	0.000	121.955	-0.000	110.436	0.000	0.000	121.956	41.888	-0.323	XOM_R2OWSG MWD+IFR1+MS
24100.000	90.000	179.889	10380.000	111.212	0.000	122.794	-0.000	111.212	0.000	0.000	122.795	41.964	-0.321	XOM_R2OWSG MWD+IFR1+MS
24200.000	90.000	179.889	10380.000	111.989	0.000	123.634	-0.000	111.989	0.000	0.000	123.634	42.040	-0.320	XOM_R2OWSG MWD+IFR1+MS
24300.000	90.000	179.889	10380.000	112.765	0.000	124.474	-0.000	112.765	0.000	0.000	124.475	42.118	-0.318	XOM_R2OWSG MWD+IFR1+MS
24400.000	90.000	179.889	10380.000	113.542	0.000	125.315	-0.000	113.542	0.000	0.000	125.316	42.195	-0.317	XOM_R2OWSG MWD+IFR1+MS
24500.000	90.000	179.889	10380.000	114.318	0.000	126.156	-0.000	114.318	0.000	0.000	126.157	42.273	-0.316	XOM_R2OWSG MWD+IFR1+MS
24600.000	90.000	179.889	10380.000	115.095	0.000	126.998	-0.000	115.095	0.000	0.000	126.999	42.351	-0.314	XOM_R2OWSG MWD+IFR1+MS
24700.000	90.000	179.889	10380.000	115.872	0.000	127.841	-0.000	115.872	0.000	0.000	127.842	42.430	-0.313	XOM_R2OWSG MWD+IFR1+MS
24800.000	90.000	179.889	10380.000	116.649	0.000	128.684	-0.000	116.649	0.000	0.000	128.685	42.509	-0.312	XOM_R2OWSG MWD+IFR1+MS
24900.000	90.000	179.889	10380.000	117.426	0.000	129.527	-0.000	117.426	0.000	0.000	129.528	42.589	-0.311	XOM_R2OWSG MWD+IFR1+MS
25000.000	90.000	179.889	10380.000	118.204	0.000	130.371	-0.000	118.204	0.000	0.000	130.372	42.669	-0.309	XOM_R2OWSG MWD+IFR1+MS
25100.000	90.000	179.889	10380.000	118.981	0.000	131.216	-0.000	118.981	0.000	0.000	131.217	42.750	-0.308	XOM_R2OWSG MWD+IFR1+MS
25200.000	90.000	179.889	10380.000	119.758	0.000	132.061	-0.000	119.758	0.000	0.000	132.062	42.830	-0.307	XOM_R2OWSG MWD+IFR1+MS
25300.000	90.000	179.889	10380.000	120.536	0.000	132.906	-0.000	120.536	0.000	0.000	132.907	42.912	-0.306	XOM_R2OWSG MWD+IFR1+MS

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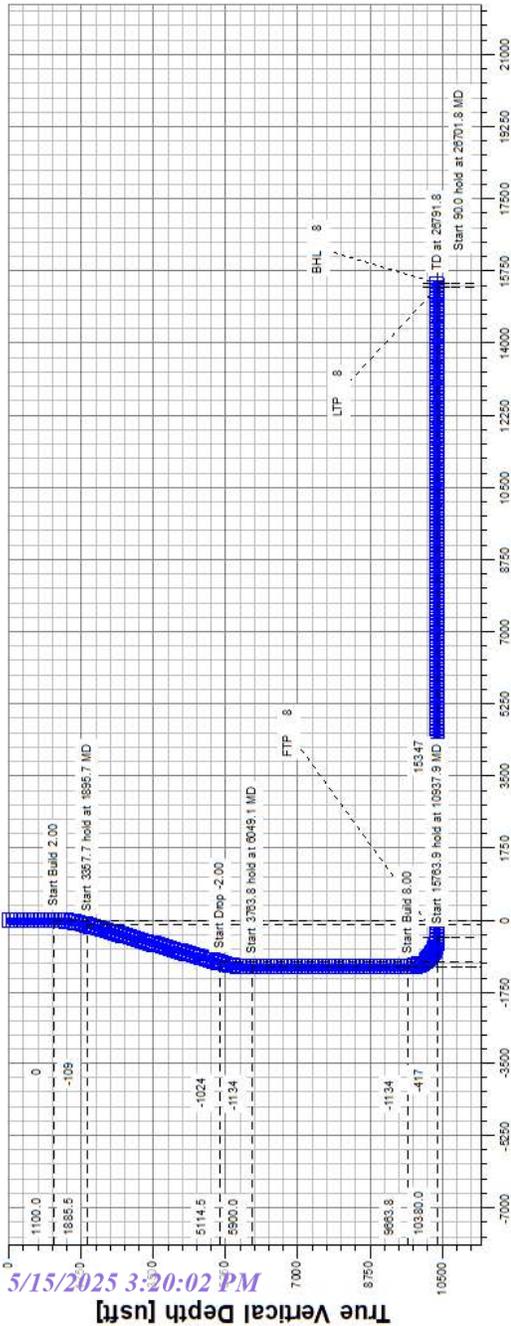
Well Plan Report

25400.000	90.000	179.889	10380.000	121.313	0.000	133.752	-0.000	121.313	0.000	0.000	133.753	42.993	-0.304	XOM_R2OWSG MWD+IFR1+MS
25500.000	90.000	179.889	10380.000	122.091	0.000	134.598	-0.000	122.091	0.000	0.000	134.599	43.076	-0.303	XOM_R2OWSG MWD+IFR1+MS
25600.000	90.000	179.889	10380.000	122.869	0.000	135.445	-0.000	122.869	0.000	0.000	135.446	43.158	-0.302	XOM_R2OWSG MWD+IFR1+MS
25700.000	90.000	179.889	10380.000	123.647	0.000	136.292	-0.000	123.647	0.000	0.000	136.293	43.241	-0.301	XOM_R2OWSG MWD+IFR1+MS
25800.000	90.000	179.889	10380.000	124.425	0.000	137.140	-0.000	124.425	0.000	0.000	137.141	43.324	-0.300	XOM_R2OWSG MWD+IFR1+MS
25900.000	90.000	179.889	10380.000	125.203	0.000	137.988	-0.000	125.203	0.000	0.000	137.989	43.408	-0.299	XOM_R2OWSG MWD+IFR1+MS
26000.000	90.000	179.889	10380.000	125.981	0.000	138.837	-0.000	125.981	0.000	0.000	138.837	43.492	-0.298	XOM_R2OWSG MWD+IFR1+MS
26100.000	90.000	179.889	10380.000	126.759	0.000	139.685	-0.000	126.759	0.000	0.000	139.686	43.577	-0.296	XOM_R2OWSG MWD+IFR1+MS
26200.000	90.000	179.889	10380.000	127.537	0.000	140.535	-0.000	127.537	0.000	0.000	140.535	43.662	-0.295	XOM_R2OWSG MWD+IFR1+MS
26300.000	90.000	179.889	10380.000	128.316	0.000	141.384	-0.000	128.316	0.000	0.000	141.385	43.747	-0.294	XOM_R2OWSG MWD+IFR1+MS
26400.000	90.000	179.889	10380.000	129.094	0.000	142.234	-0.000	129.094	0.000	0.000	142.235	43.833	-0.293	XOM_R2OWSG MWD+IFR1+MS
26500.000	90.000	179.889	10380.000	129.873	0.000	143.085	-0.000	129.873	0.000	0.000	143.085	43.919	-0.292	XOM_R2OWSG MWD+IFR1+MS
26600.000	90.000	179.889	10380.000	130.651	0.000	143.935	-0.000	130.651	0.000	0.000	143.936	44.005	-0.291	XOM_R2OWSG MWD+IFR1+MS
26701.786	90.000	179.889	10380.000	131.444	0.000	144.802	-0.000	131.444	0.000	0.000	144.802	44.093	-0.290	XOM_R2OWSG MWD+IFR1+MS
26794.743	90.000	179.889	10380.000	132.168	0.000	145.593	-0.000	132.168	0.000	0.000	145.594	44.174	-0.289	XOM_R2OWSG MWD+IFR1+MS

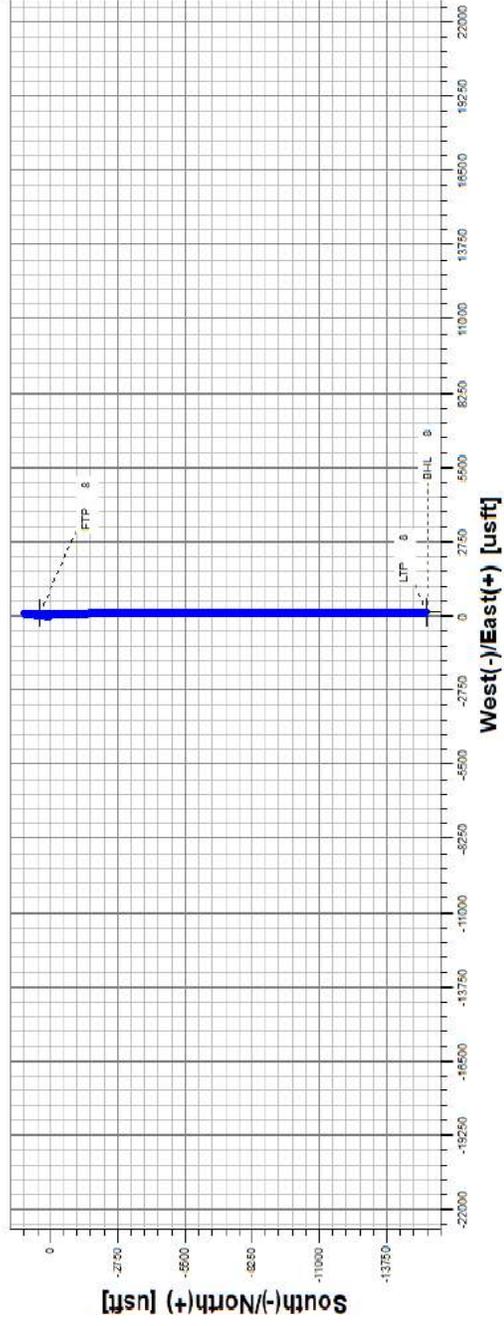
Plan Targets

Target Name	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape
FTP 4	10937.85	400662.70	641968.40	7084.00	CIRCLE
LTP 4	26701.79	384898.80	641998.90	7084.00	CIRCLE
BHL 4	26791.79	384808.80	641999.50	7084.00	CIRCLE

Hoker Lake Unit 27 BD 510H



Vertical Section at 179.89° [usft]



Formation	TVSS (feet)	TVD (feet)
Rustler	2,286'	1,010'
Salado	1,993'	1,302'
Base of Salt	-369'	3,665'
Delaware	-574'	3,869'
Cherry Canyon	-1,536'	4,832'
Brushy Canyon	-2,699'	5,995'
Basal Brushy Canyon	-4,125'	7,420'
Bone Spring Lm.	-4,376'	7,672'
Avalon Shale	-4,525'	7,820'
Lower Avalon Shale	-4,906'	8,201'
1st Bone Spring Lime	-5,108'	8,404'
1st Bone Spring Sand	-5,338'	8,634'
2nd Bone Spring Shale	-5,608'	8,904'
2nd Bone Spring Lime	-5,821'	9,117'
2nd Bone Spring Sand	-6,202'	9,498'
3rd Bone Spring Lime	-6,522'	9,818'
Harkey	-6,863'	10,159'
3rd Bone Spring Shale	-6,905'	10,200'
3rd Shale Landing	-7,085'	10,380'

Subject: Request for a Variance Allowing break Testing of the Blowout Preventer Equipment (BOPE)

XTO Energy requests a variance to ONLY test broken pressure seals on the BOPE and function test BOP when skidding a drilling rig between multiple wells on a pad.

Background

Onshore Oil and Gas Order CFR Title 43 Part 3170, Drilling Operations, Sections III.A.2.i.iv.B states that the BOP test must be performed whenever any seal subject to test pressure is broken. The current interpretation of the Bureau of Land Management (BLM) requires a complete BOP test and not just a test of the affected component. CFR Title 43 Part 3170 states, "Some situation may exist either on a well-by-well basis or field-wide basis whereby it is commonly accepted practice to vary a particular minimum standard(s) established in this order. This situation can be resolved by requesting a variance...". XTO Energy feels the break testing the BOPE is such a situation. Therefore, as per CFR Title 43 Part 3170, XTO Energy submits this request for the variance.

Supporting Documentation

CFR Title 43 Part 3170 became effective on December 19, 1988 and has remained the standard for regulating BLM onshore drilling operations for over 30 years. During this time there have been significant changes in drilling technology. BLM continues to use the variance request process to allow for the use of modern technology and acceptable engineering practices that have arisen since CFR Title 43 Part 3170 was originally released. The XTO Energy drilling rig fleet has many modern upgrades that allow the intact BOP stack to be moved between well slots on a multi-well pad, as well as, wellhead designs that incorporate quick connects facilitating release of the BOP from the wellhead without breaking any BOP stack components apart. These technologies have been used extensively offshore, and other regulators, API, and many operators around the world have endorsed break testing as safe and reliable.



Figure 1: Winch System attached to BOP Stack



Figure 2: BOP Winch System

American Petroleum Institute (API) standards, specification and recommended practices are considered the industry standard and are consistently utilized and referenced by the industry. CFR Title 43 Part 3170 recognizes API recommended Practices (RP) 53 in its original development. API Standard 53, *Well Control Equipment Systems for Drilling Wells* (Fifth Edition, December 2018, Annex C, Table C.4) recognizes break testing as an acceptable practice. Specifically, API Standard 53, Section 5.3.7.1 states “A pressure test of the pressure containing component shall be performed following the disconnection or repair, limited to the affected component.” See Table C.4 below for reference.

API STANDARD 53			
Table C.4—Initial Pressure Testing, Surface BOP Stacks			
Component to be Pressure Tested	Pressure Test—Low Pressure ^{ac} psig (MPa)	Pressure Test—High Pressure ^{ac}	
		Change Out of Component, Elastomer, or Ring Gasket	No Change Out of Component, Elastomer, or Ring Gasket
Annular preventer ^b	250 to 350 (1.72 to 2.41)	RWP of annular preventer	MASP or 70% annular RWP, whichever is lower.
Fixed pipe, variable bore, blind, and BSR preventers ^{bd}	250 to 350 (1.72 to 2.41)	RWP of ram preventer or wellhead system, whichever is lower	ITP
Choke and kill line and BOP side outlet valves below ram preventers (both sides)	250 to 350 (1.72 to 2.41)	RWP of side outlet valve or wellhead system, whichever is lower	ITP
Choke manifold—upstream of chokes ^e	250 to 350 (1.72 to 2.41)	RWP of ram preventers or wellhead system, whichever is lower	ITP
Choke manifold—downstream of chokes ^e	250 to 350 (1.72 to 2.41)	RWP of valve(s), line(s), or MASP for the well program, whichever is lower	
Kelly, kelly valves, drill pipe safety valves, IBOPs	250 to 350 (1.72 to 2.41)	MASP for the well program	

^a Pressure test evaluation periods shall be a minimum of five minutes. No visible leaks. The pressure shall remain stable during the evaluation period. The pressure shall not decrease below the intended test pressure.

^b Annular(s) and VBR(s) shall be pressure tested on the largest and smallest OD drill pipe to be used in well program.

^c For pad drilling operations, moving from one wellhead to another within the 21 days, pressure testing is required for pressure-containing and pressure-controlling connections when the integrity of a pressure seal is broken.

^d For surface offshore operations, the ram BOPs shall be pressure tested with the ram locks engaged and the closing and locking pressure vented during the initial test. For land operations, the ram BOPs shall be pressure tested with the ram locks engaged and the closing and locking pressure vented at commissioning and annually.

^e Adjustable chokes are not required to be full sealing devices. Pressure testing against a closed choke is not required.

The Bureau of Safety and Environmental Enforcement (BSEE), Department of Interior, has also utilized the API standards, specification and best practices in the development of its offshore oil and gas regulations and incorporates them by reference within its regulations.

Break testing has been approved by the BLM in the past with other operators based on the detailed information provided in this document.

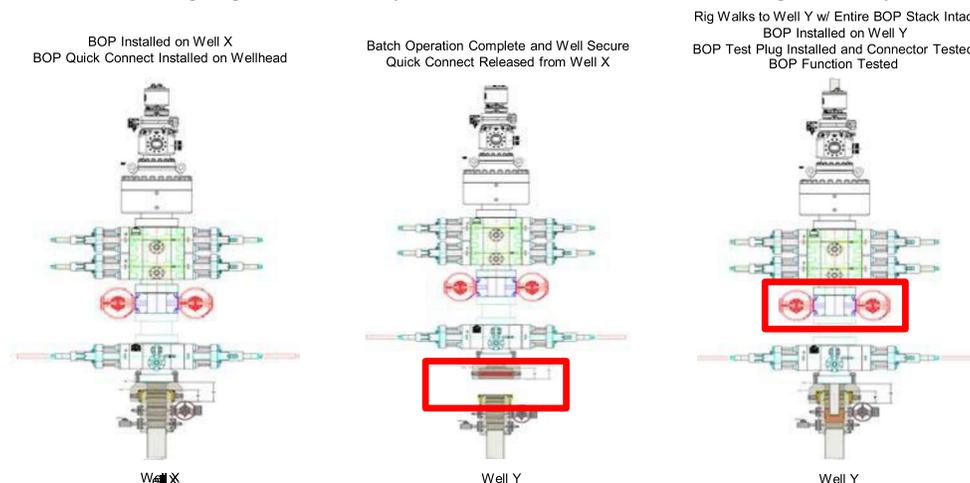
XTO Energy feels break testing and our current procedures meet the intent of CFR Title 43 Part 317 0and often exceed it. There has been no evidence that break testing results in more components failing than seen on full BOP tests. XTO Energy's internal standards requires complete BOPE tests more often than that of CFR Title 43 Part 3170 (Every 21 days). In addition to function testing the annular, pipe rams and blind rams after each BOP nipple up, XTO Energy performs a choke drill with the rig crew prior to drilling out every casing shoe. This is additional training for the rig crew that exceeds the requirements of the CFR Title 43 Part 3170.

Procedures

1. XTO Energy will use this document for our break testing plan for New Mexico Delaware basin. The summary below will be referenced in the APD or Sundry Notice and receive approval prior to implementing this variance.
2. XTO Energy will perform BOP break testing on multi-wells pads where multiple intermediate sections can be drilled and cased within the 21-day BOP test window.
 - a. A full BOP test will be conducted on the first well on the pad.
 - b. The first intermediate hole section drilled on the pad will be the deepest. All of the remaining hole sections will be the same depth or shallower.
 - i. Our Lower WC targets set the intermediate casing shoe no deeper than the Wolfcamp B.
 - ii. Our Upper WC targets set the intermediate casing shoe shallower than the Wolfcamp B.
 - c. A Full BOP test will be required if the intermediate hole section being drilled has a MASP over 5M.
 - d. A full BOP test will be required prior to drilling any production hole.
3. After performing a complete BOP test on the first well, the intermediate hole section will be drilled and cased, two breaks would be made on the BOP equipment.
 - a. Between the HCV valve and choke line connection
 - b. Between the BOP quick connect and the wellhead
4. The BOP is then lifted and removed from the wellhead by a hydraulic system.
5. After skidding to the next well, the BOP is moved to the wellhead by the same hydraulic system and installed.
6. The connections mentioned in 3a and 3b will then be reconnected.
7. Install test plug into the wellhead using test joint or drill pipe.
8. A shell test is performed against the upper pipe rams testing the two breaks.
9. The shell test will consist of a 250 psi low test and a high test to the value submitted in the APD or Sundry (e.g. 5,000 psi or 10,000psi).
10. Function test will be performed on the following components: lower pipe rams, blind rams, and annular.

11. For a multi-well pad the same two breaks on the BOP would be made and on the next wells and steps 4 through 10 would be repeated.
12. A second break test would only be done if the intermediate hole section being drilled could not be completed within the 21 day BOP test window.

Note: Picture below highlights BOP components that will be tested during batch operations



Summary

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.

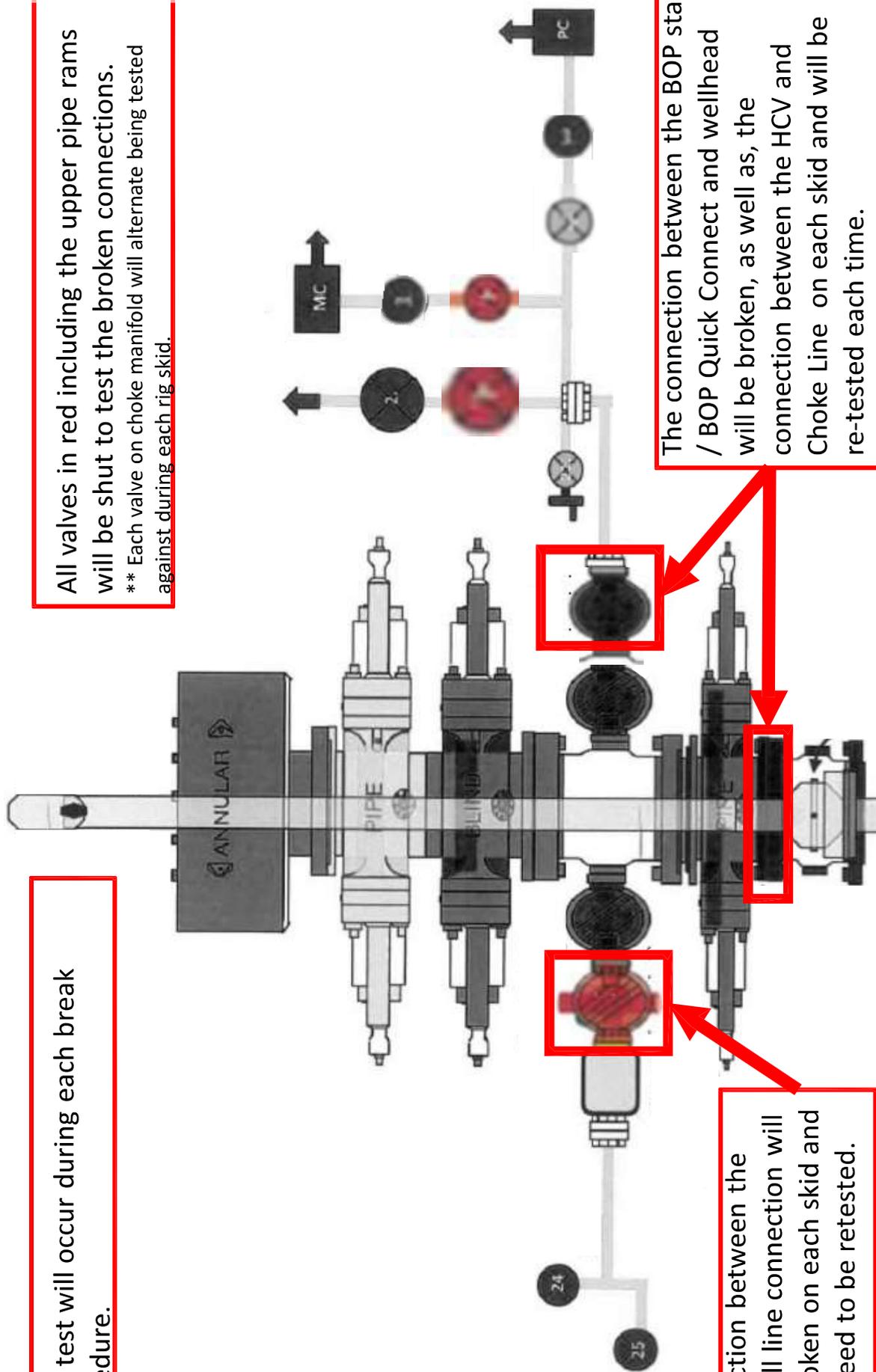
The BOP will be secured by a hydraulic carrier or cradle. The BLM will be contacted if a Well Control event occurs prior to the commencement of a BOPE Break Testing operation.

Based on discussions with the BLM on February 27th 2020 and the supporting documentation submitted to the BLM, 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. The first intermediate hole section drilled on the pad will be the deepest. All of the remaining hole sections will be the same depth or shallower.
3. Full BOP test will be required if the intermediate hole section being drilled has a MASP over 5M.
4. Full BOP test will be required prior to drilling the production hole.

Only **ONE** test will occur during each break test procedure.

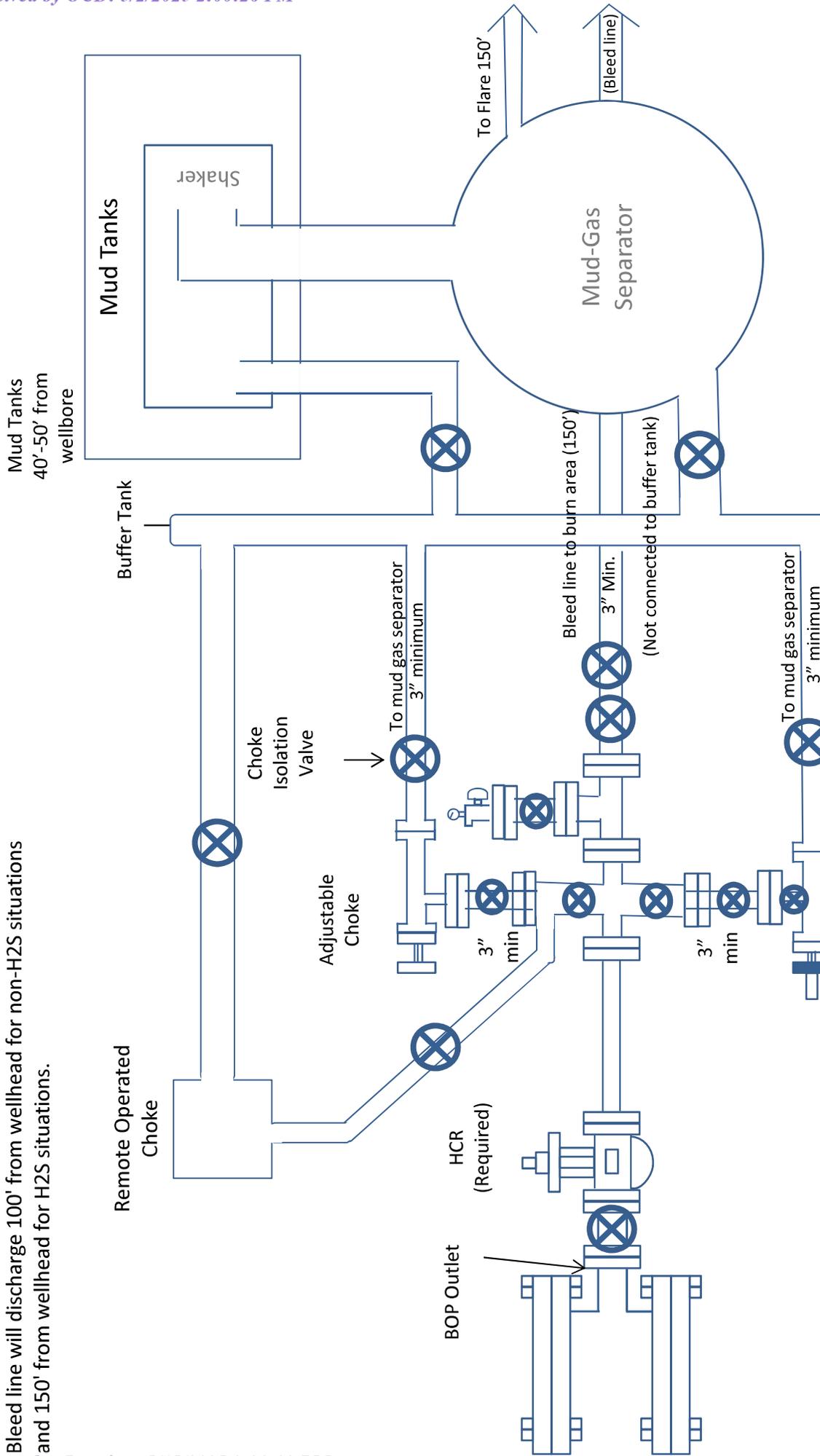
All valves in red including the upper pipe rams will be shut to test the broken connections.
** Each valve on choke manifold will alternate being tested against during each rig skid.



The connection between the BOP stack / BOP Quick Connect and wellhead will be broken, as well as, the connection between the HCV and Choke Line on each skid and will be re-tested each time.

The connection between the HCV and kill line connection will **NOT** be broken on each skid and does not need to be retested.

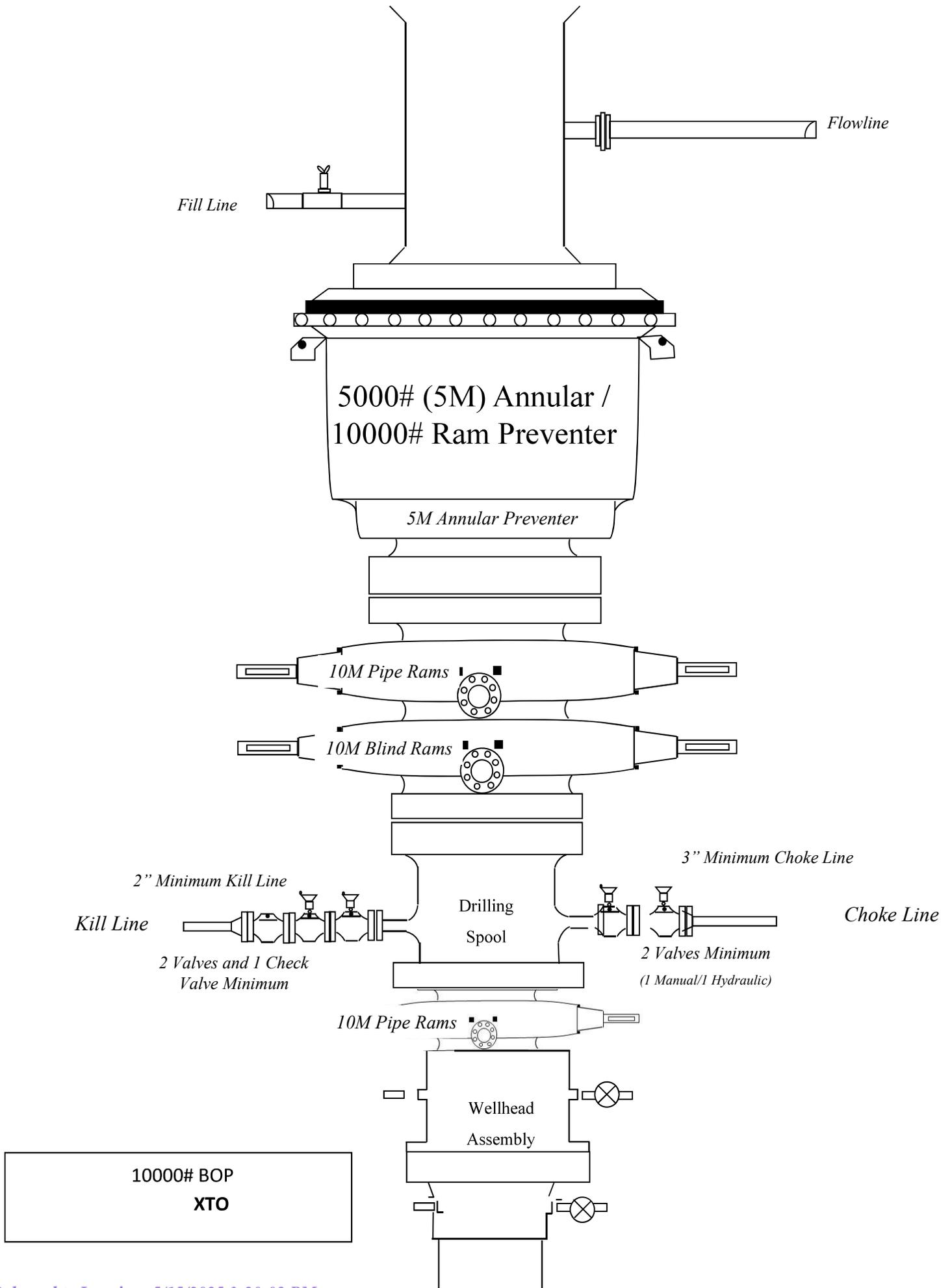
Bleed line will discharge 100' from wellhead for non-H2S situations and 150' from wellhead for H2S situations.



10M Choke Manifold Diagram XTO

Drilling Operations Choke Manifold 10M Service

REMOTE OPERATED Adjustable Choke





BLACK GOLD®

GATES ENGINEERING & SERVICES NORTH AMERICA
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Houston, TX. 77086

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FAX: +1 (281) 602-4147
EMAIL: gesna.quality@gates.com
WEB: www.gates.com/oilandgas

*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. OSMOS*

TITLE: QUALITY ASSURANCE

DATE: 1/25/2024



H3-15/16

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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:

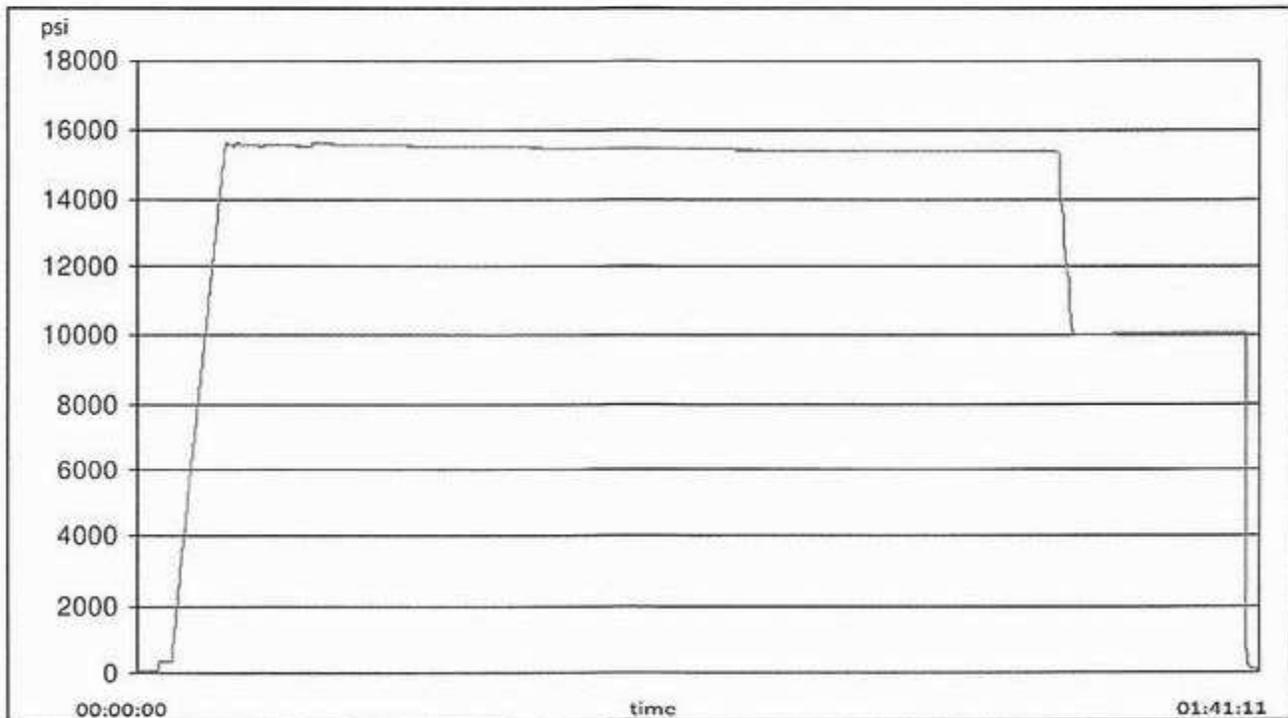
Visual check:

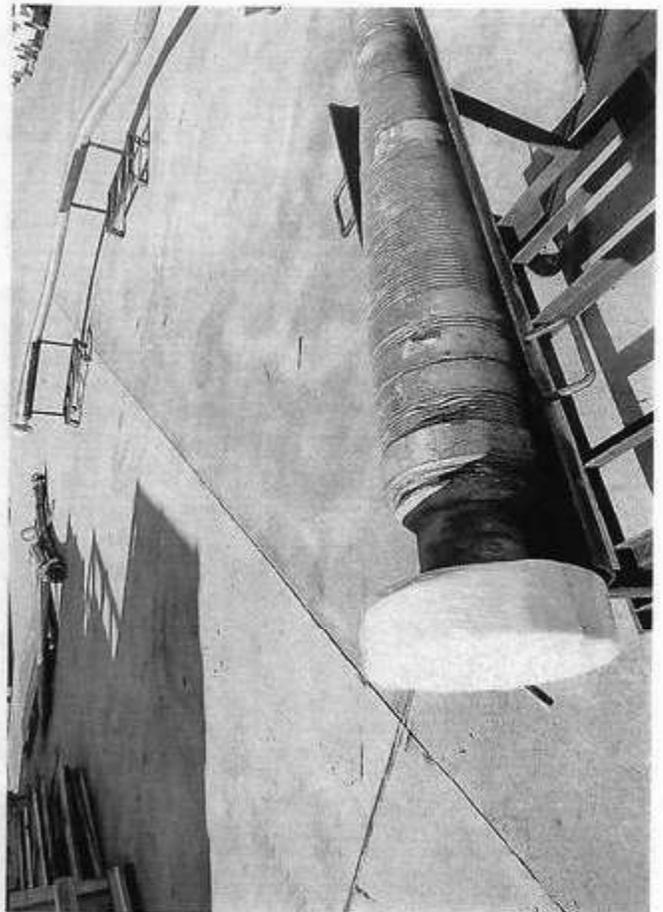
Pressure test result: PASS

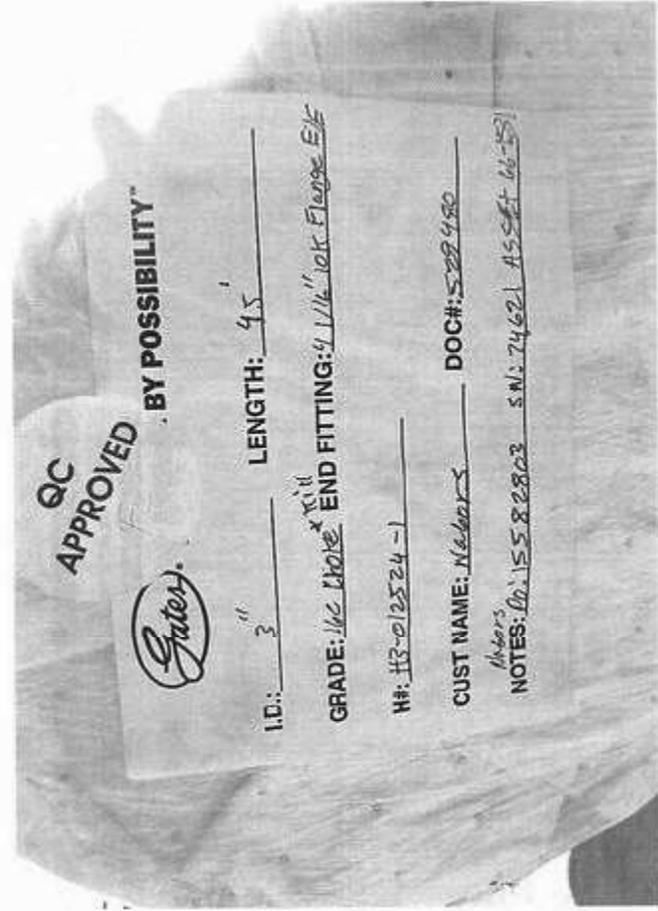
Length measurement result:

Length: 45 feet

Test operator: Travis







XTO Permian Operating, LLC Offline Cementing Variance Request

XTO requests the option to cement the surface and intermediate casing strings offline as a prudent batch drilling efficiency of acreage development.

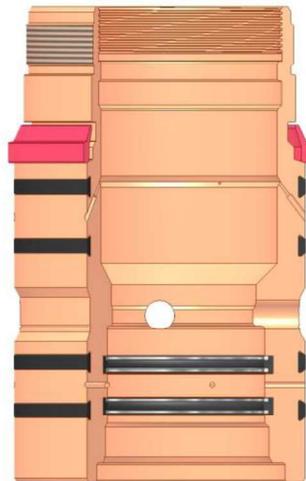
1. Cement Program

No changes to the cement program will take place for offline cementing.

2. Offline Cementing Procedure

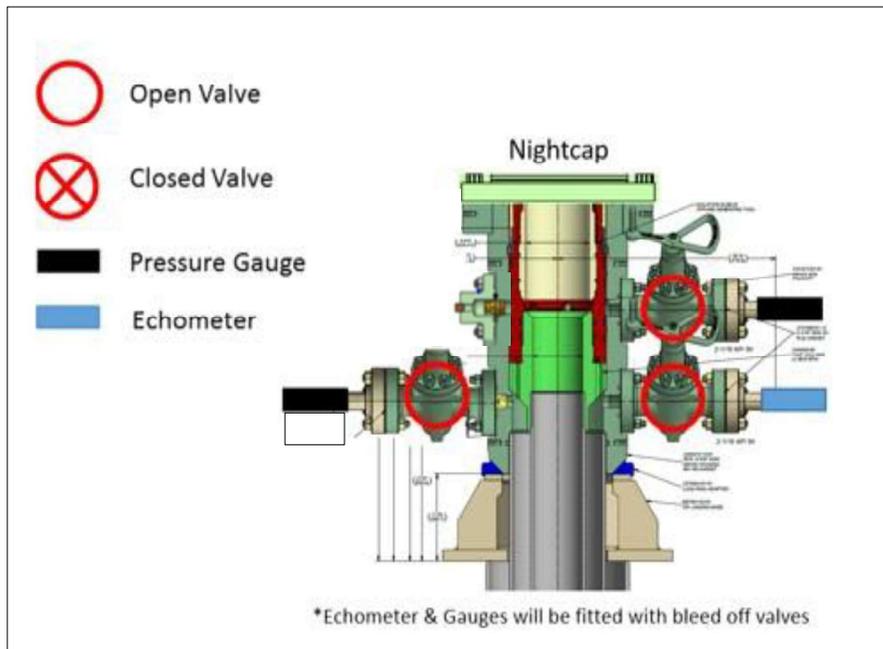
The operational sequence will be as follows. If a well control event occurs, the BLM will be contacted for approval prior to conducting offline cementing operations.

1. Run casing as per normal operations. While running casing, conduct negative pressure test and confirm integrity of the float equipment (float collar and shoe)
2. Land casing with mandrel
3. Fill pipe with kill weight fluid, do not circulate through floats and confirm well is static
4. Set annular packoff shown below and pressure test to confirm integrity of the seal. Pressure ratings of wellhead components and valves is 5,000 psi.
5. After confirmation of both annular barriers and internal barriers, nipple down BOP and install cap flange.
 - a. If any barrier fails to test, the BOP stack will not be nipped down until after the cement job is completed with cement 500ft above the highest formation capable of flow with kill weight mud above or after it has achieved 50-psi compressive strength if kill weight fluid cannot be verified.



Annular packoff with both external and internal seals

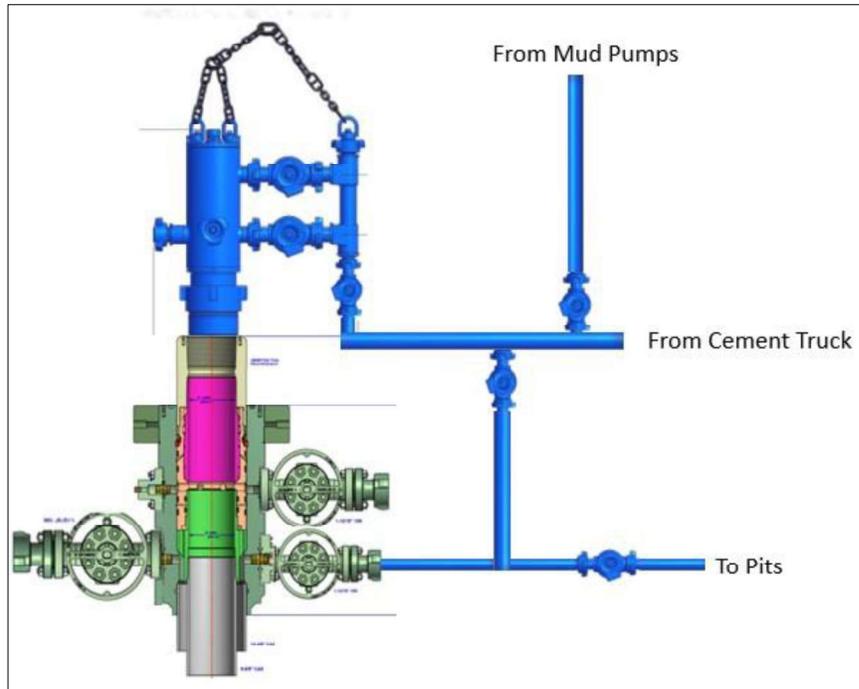
XTO Permian Operating, LLC Offline Cementing Variance Request



Wellhead diagram during skidding operations

6. Skid rig to next well on pad.
7. Confirm well is static before removing cap flange, flange will not be removed and offline cementing operations will not commence until well is under control. If well is not static, casing outlet valves will provide access to both the casing ID and annulus. Rig or third party pump truck will kill well prior to cementing or nipping up for further remediation.
 - a. Well Control Plan
 - i. The Drillers Method will be the primary well control method to regain control of the wellbore prior to cementing, if wellbore conditions do not permit the drillers method other methods of well control may be used
 - ii. Rig pumps or a 3rd party pump will be tied into the upper casing valve to pump down the casing ID
 - iii. A high pressure return line will be rigged up to lower casing valve and run to choke manifold to control annular pressure
 - iv. Once influx is circulated out of the hole, kill weight mud will be circulated
 - v. Well will be confirmed static
 - vi. Once confirmed static, cap flange will be removed to allow for offline cementing operations to commence
8. Install offline cement tool
9. Rig up cement equipment

XTO Permian Operating, LLC Offline Cementing Variance Request



Wellhead diagram during offline cementing operations

10. Circulate bottoms up with cement truck
 - a. If gas is present on bottoms up, well will be shut in and returns rerouted through gas buster to handle entrained gas
 - b. Max anticipated time before circulating with cement truck is 6 hrs
11. Perform cement job taking returns from the annulus wellhead valve
12. Confirm well is static and floats are holding after cement job
13. Remove cement equipment, offline cement tools and install night cap with pressure gauge for monitoring.

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.



TPN™



Coupling	Pipe Body
Grade: P110-CY	Grade: P110-CY
Body: White	1st Band: White
1st Band: Grey	2nd Band: Grey
2nd Band: -	3rd Band: -
3rd Band: -	4th Band: -
	5th Band: -
	6th Band: -

Outside Diameter	5,500 in.	Wall Thickness	0,361 in.	Grade	P110-CY
Min. Wall Thickness	87,50 %	Pipe Body Drift	API Standard	Type	Casing
Connection OD Option	REGULAR				

Pipe Body Data

Geometry		Performance	
Nominal OD	5,500 in.	Wall Thickness	0,361 in.
Nominal Weight	20,00 lb/ft	Plain End Weight	19,83 lb/ft
Drift	4,653 in.	OD Tolerance	API
Nominal ID	4,778 in.		
		Body Yield Strength	641 x1000 lb
		Min. Internal Yield Pressure	12,640 psi
		SMYS	110,000 psi
		Collapse Pressure	11,100 psi

Connection Data

Geometry		Performance		Make-Up Torques	
Connection OD	6,300 in.	Tension Efficiency	100 %	Minimum	13,860 ft-lb
Coupling Length	8,408 in.	Joint Yield Strength	641 x1000 lb	Optimum	15,400 ft-lb
Connection ID	4,778 in.	Internal Pressure Capacity	12,640 psi	Maximum	16,940 ft-lb
Make-up Loss	4,204 in.	Compression Efficiency	100 %		
Threads per inch	5	Compression Strength	641 x1000 lb		
Connection OD Option	Regular	Max. Allowable Bending	92 °/100 ft		
		External Pressure Capacity	11,100 psi		
				Operation Limit Torques	
				Operating Torque	26,350 ft-lb
				Yield Torque	29,300 ft-lb

Notes

For the latest performance data, always visit our website: www.tenaris.com
 For further information on concepts indicated in this datasheet, download the Datasheet Manual from www.tenaris.com

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PI/CIII



TenarisHydril Wedge 441[®]



Coupling	Pipe Body
Grade: P110-IC	Grade: P110-IC
Body: White	1st Band: White
1st Band: -	2nd Band: Pale Green
2nd Band: -	3rd Band: -
3rd Band: -	4th Band: -
	5th Band: -
	6th Band: -

Outside Diameter	5.500 in.	Wall Thickness	0.361 in.	Grade	P110-IC
Min. Wall Thickness	87.50 %	Pipe Body Drift	API Standard	Type	Casing
Connection OD Option	REGULAR				

Pipe Body Data

Geometry		Performance	
Nominal OD	5.500 in.	Wall Thickness	0.361 in.
Nominal Weight	20.00 lb/ft	Plain End Weight	19.83 lb/ft
Drift	4.653 in.	OD Tolerance	API
Nominal ID	4.778 in.		
		Body Yield Strength	641 x1000 lb
		Min. Internal Yield Pressure	12,640 psi
		SMYS	110,000 psi
		Collapse Pressure	12,300 psi

Connection Data

Geometry		Performance		Make-Up Torques	
Connection OD	5.852 in.	Tension Efficiency	81.50 %	Minimum	15,000 ft-lb
Coupling Length	8.714 in.	Joint Yield Strength	522 x1000 lb	Optimum	16,000 ft-lb
Connection ID	4.778 in.	Internal Pressure Capacity	12,640 psi	Maximum	19,200 ft-lb
Make-up Loss	3.780 in.	Compression Efficiency	81.50 %		
Threads per inch	3.40	Compression Strength	522 x1000 lb	Operation Limit Torques	
Connection OD Option	Regular	Max. Allowable Bending	74,98 °/100 ft	Operating Torque	32,000 ft-lb
		External Pressure Capacity	12,300 psi	Yield Torque	38,000 ft-lb
				Buck-On	
				Minimum	19,200 ft-lb
				Maximum	20,700 ft-lb

Notes

This connection is fully interchangeable with:
 Wedge 441[®] - 5.5 in. - 0.304 (17.00) in. (lb/ft)
 Wedge 461[®] - 5.5 in. - 0.304 (17.00) / 0.361 (20.00) / 0.415 (23.00) in. (lb/ft)
 Connections with Dopeless[®] Technology are fully compatible with the same connection in its doped version
 Connection performance values are related to structural capabilities. For sealability-related performance information, request the Connection Service Envelope from your local Tenaris Representative.

For the latest performance data, always visit our website: www.tenaris.com
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TenarisHydril Wedge 511



Coupling	Pipe Body
Grade: L80-IC	Grade: L80-IC
Body: Red	1st Band: Red
1st Band: Brown	2nd Band: Brown
2nd Band: -	3rd Band: Pale Green
3rd Band: -	4th Band: -
	5th Band: -
	6th Band: -

Outside Diameter	7.625 in.	Wall Thickness	0.375 in.	Grade	L80-IC
Min. Wall Thickness	87.50 %	Pipe Body Drift	API Standard	Type	Casing
Connection OD Option	REGULAR				

Pipe Body Data

Geometry		Performance	
Nominal OD	7.625 in.	Wall Thickness	0.375 in.
Nominal Weight	29.70 lb/ft	Plain End Weight	29.06 lb/ft
Drift	6.750 in.	OD Tolerance	API
Nominal ID	6.875 in.		
		Body Yield Strength	683 x1000 lb
		Min. Internal Yield Pressure	6890 psi
		SMYS	80,000 psi
		Collapse Pressure	5900 psi

Connection Data

Geometry		Performance		Make-Up Torques	
Connection OD	7.625 in.	Tension Efficiency	61.10 %	Minimum	5900 ft-lb
Connection ID	6.787 in.	Joint Yield Strength	417 x1000 lb	Optimum	7100 ft-lb
Make-up Loss	3.704 in.	Internal Pressure Capacity	6890 psi	Maximum	10,300 ft-lb
Threads per inch	3.28	Compression Efficiency	73.80 %		
Connection OD Option	Regular	Compression Strength	504 x1000 lb	Operation Limit Torques	
		Max. Allowable Bending	29.33 °/100 ft	Operating Torque	35,000 ft-lb
		External Pressure Capacity	5900 psi	Yield Torque	52,000 ft-lb

Notes

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

CONDITIONS

Action 458149

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 458149
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Any previous COA's not addressed within the updated COA's still apply.	5/15/2025