

Well Name: POKER LAKE UNIT 27 BD	Well Location: T25S / R30E / SEC 27 / NWSW / 32.099164 / -103.875548	County or Parish/State: EDDY / NM
Well Number: 512H	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: 2840009

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 03/04/2025

Time Sundry Submitted: 02:24

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, and dedicated acreage. FROM: TO: SHL: 1955' FSL & 630' FWL OF SECTION 27-T25S-R30E 2145' FSL & 628' FWL OF SECTION 27-T25S-R30E KOP: 1955' FSL & 630' FWL OF SECTION 27-T25S-R30E 2048' FNL & 2108' FWL OF SECTION 27-T25S-R30E FTP: 2640' FSL & 1650' FWL OF SECTION 27-T25S-R30E 2564' FSL & 2110' FWL OF SECTION 27-T25S-R30E LTP: 2510' FNL & 1650' FWL OF SECTION 10-T26S-R30E 2559' FNL & 2110' FWL OF SECTION 10-T26S-R30E BHL: 2560' FNL & 1650' FWL OF SECTION 10-T26S-R30E 2649' FNL & 2110' FWL OF SECTION 10-T26S-R30E The proposed total depth is changing from 26521' MD; 10176' TVD to 27088' MD; 10389' TVD. There is no new surface disturbance.

NOI Attachments

Procedure Description

Poker_Lake_Unit_27_BD_512H_Sundry_Docs_20250305142337.pdf

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Well Number: 512H **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

Conditions of Approval

Additional

Poker_Lake_Unit_27_BD_512H_COA_20250411170014.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 05, 2025 02:23 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 <i>Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.</i>		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/512H	
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 recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be perfonned or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

XTO Permian Operating, LLC. respectfully requests approval to make the following changes to the approved APD. Changes to include SHL, KOP, FTP, LTP, BHL, proposed total depth, pool, and dedicated acreage.

FROM: TO:
SHL: 1955' FSL & 630' FWL OF SECTION 27-T25S-R30E 2145' FSL & 628' FWL OF SECTION 27-T25S-R30E
KOP: 1955' FSL & 630' FWL OF SECTION 27-T25S-R30E 2048 FNL & 2108 FWL OF SECTION 27-T25S-R30E
FTP: 2640' FSL & 1650' FWL OF SECTION 27-T25S-R30E 2564' FSL & 2110' FWL OF SECTION 27-T25S-R30E
LTP: 2510' FNL & 1650' FWL OF SECTION 10-T26S-R30E 2559' FNL & 2110' FWL OF SECTION 10-T26S-R30E
BHL: 2560' FNL & 1650' FWL OF SECTION 10-T26S-R30E 2649' FNL & 2110' FWL OF SECTION 10-T26S-R30E

The proposed total depth is changing from 26521 MD; 10176 TVD to 27088 MD; 10389 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	Regulatory Advisor Title
(Electronic Submission) Signature	Date 03/05/2025

THE SPACE FOR FEDERAL OR STATE OFFICE USE		
Approved by CHRISTOPHER WALLS / Ph: (575) 234-2234 / Approved	Petroleum Engineer Title	05/02/2025 Date
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 / 630 FWL / TWSP: 25S / RANGE: 30E / SECTION: 27 / LAT: 32.099164 / LONG: -103.875548 (TVD: 0 feet, MD: 0 feet)
PPP: NENW / 0 FNL / 1657 FWL / TWSP: 25S / RANGE: 30E / SECTION: 34 / LAT: 32.09078 / LONG: -103.872275 (TVD: 10176 feet, MD: 13400 feet)
PPP: NESW / 2640 FSL / 1650 FWL / TWSP: 25S / RANGE: 30E / SECTION: 27 / LAT: 32.101062 / LONG: -103.872243 (TVD: 10176 feet, MD: 10700 feet)
PPP: NENW / 0 FNL / 1673 FWL / TWSP: 26S / RANGE: 30E / SECTION: 3 / LAT: 32.079161 / LONG: -103.872303 (TVD: 10176 feet, MD: 18700 feet)
BHL: SENW / 2560 FNL / 1650 FWL / TWSP: 26S / RANGE: 30E / SECTION: 10 / LAT: 32.057502 / LONG: -103.872362 (TVD: 10176 feet, MD: 26522 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 512H
SURFACE HOLE FOOTAGE:	2145'/S & 628'/W
BOTTOM HOLE FOOTAGE:	2649'/N & 2110'/W

*Changes approved through engineering via **Sundry 2840009** on 4-11-2025. Any previous COAs not addressed within the updated COAs still apply.*

COA

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

A. HYDROGEN SULFIDE

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

B. CASING

1. The **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 5945'**.
 - 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; (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


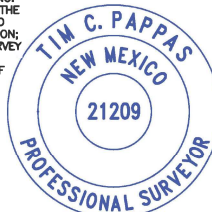

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

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 S263001O; Bone Spring							
Property Code	Property Name POKER LAKE UNIT 27 BD	Well Number 512H							
ORGID No. 373075	Operator Name XTO PERMIAN OPERATING, LLC.	Ground Level Elevation 3,265'							
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 628' FWL	Latitude 32.099687	Longitude -103.875551	County EDDY
Bottom Hole Location									
UL F	Section 10	Township 26 S	Range 30 E	Lot	Ft. from N/S 2,649' FNL	Ft. from E/W 2,110' FWL	Latitude 32.057260	Longitude -103.870876	County EDDY
Dedicated Acres 480	Infill or Defining Well N FILL	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 F	Section 27	Township 25 S	Range 30 E	Lot	Ft. from N/S 2,048' FNL	Ft. from E/W 2,108' FWL	Latitude 32.102828	Longitude -103.870753	County EDDY
First Take Point (FTP)									
UL K	Section 27	Township 25 S	Range 30 E	Lot	Ft. from N/S 2,564' FSL	Ft. from E/W 2,110' FWL	Latitude 32.100859	Longitude -103.870759	County EDDY
Last Take Point (LTP)									
UL F	Section 10	Township 26 S	Range 30 E	Lot	Ft. from N/S 2,559' FNL	Ft. from E/W 2,110' FWL	Latitude 32.057508	Longitude -103.870877	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: 3,265'			
OPERATOR CERTIFICATIONS <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> <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> Terra Sebastian <div style="text-align: right;">3/4/2025</div>					SURVEYOR CERTIFICATIONS <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> 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. <div style="text-align: right;">22 Jan 2025</div> <div style="text-align: center;"> TIM C. PAPPAS REGISTERED PROFESSIONAL LAND SURVEYOR STATE OF NEW MEXICO NO. 21209</div> <div style="text-align: right;"></div>				
Signature Terra Sebastian					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		
<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>									
<div style="display: flex; justify-content: space-between; align-items: center;"><div><div>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</div></div><div style="text-align: right;">DATE: 1-22-2025 DRAWN BY: LM CHECKED BY: CH FIELD CREW: IR</div><div style="text-align: right;">PROJECT NO: 2023040149 SCALE: SHEET: 1 OF 2 REVISION:</div></div> <div style="text-align: center; font-size: small; margin-top: 5px;">© COPYRIGHT 2024 - ALL RIGHTS RESERVED</div>									

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.

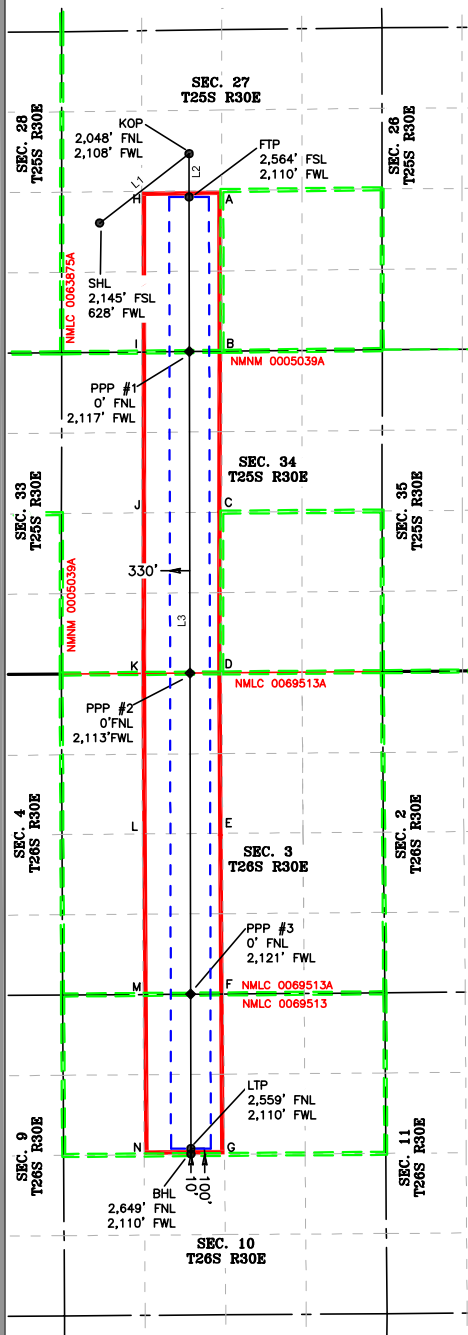
Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.

LEGEND

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

LINE TABLE

LINE	AZIMUTH	LENGTH
L1	52° 10' 58"	1,874.27'
L2	179° 53' 20"	716.37'
L3	179° 53' 09"	15,860.45'



COORDINATE TABLE

SHL (NAD 83 NME)				LTP (NAD 83 NME)			
Y =	400,303.6	N		Y =	384,966.0	N	
X =	683,091.6	E		X =	684,604.6	E	
LAT. =	32.099687	°N		LAT. =	32.057508	°N	
LONG. =	103.875551	°W		LONG. =	103.870877	°W	
KOP (NAD 83 NME)				BHL (NAD 83 NME)			
Y =	401,452.8	N		Y =	384,876.0	N	
X =	684,572.2	E		X =	684,605.2	E	
LAT. =	32.102828	°N		LAT. =	32.057260	°N	
LONG. =	103.870753	°W		LONG. =	103.870876	°W	
FTP (NAD 83 NME)							
Y =	400,736.4	N					
X =	684,573.6	E					
LAT. =	32.100859	°N					
LONG. =	103.870759	°W					
SHL (NAD 27 NME)				LTP (NAD 27 NME)			
Y =	400,245.4	N		Y =	384,908.4	N	
X =	641,906.4	E		X =	643,418.8	E	
LAT. =	32.099562	°N		LAT. =	32.057383	°N	
LONG. =	103.875069	°W		LONG. =	103.870398	°W	
KOP (NAD 27 NME)				BHL (NAD 27 NME)			
Y =	401,394.8	N		Y =	384,818.4	N	
X =	643,387.0	E		X =	643,419.4	E	
LAT. =	32.102704	°N		LAT. =	32.057136	°N	
LONG. =	103.870272	°W		LONG. =	103.870397	°W	
FTP (NAD 27 NME)							
Y =	400,678.4	N					
X =	643,388.4	E					
LAT. =	32.100735	°N					
LONG. =	103.870278	°W					
PPP #1 (NAD 83 NME)				PPP #1 (NAD 27 NME)			
Y =	398,172.8	N		Y =	398,114.9	N	
X =	684,578.6	E		X =	643,393.3	E	
LAT. =	32.093812	°N		LAT. =	32.093687	°N	
LONG. =	103.870778	°W		LONG. =	103.870297	°W	
PPP #2 (NAD 83 NME)				PPP #2 (NAD 27 NME)			
Y =	392,844.8	N		Y =	392,787.0	N	
X =	684,589.1	E		X =	643,403.6	E	
LAT. =	32.079166	°N		LAT. =	32.079041	°N	
LONG. =	103.870818	°W		LONG. =	103.870338	°W	
PPP #3 (NAD 83 NME)				PPP #3 (NAD 27 NME)			
Y =	387,525.0	N		Y =	387,467.4	N	
X =	684,599.6	E		X =	643,413.9	E	
LAT. =	32.064542	°N		LAT. =	32.064418	°N	
LONG. =	103.870858	°W		LONG. =	103.870378	°W	

CORNER COORDINATES (NAD83 NME)

A - Y =	400,842.3	N	A - X =	685,117.3	E
B - Y =	398,178.0	N	B - X =	685,118.7	E
C - Y =	395,510.9	N	C - X =	685,117.5	E
D - Y =	392,848.9	N	D - X =	685,116.3	E
E - Y =	390,189.4	N	E - X =	685,130.6	E
F - Y =	387,528.8	N	F - X =	685,144.9	E
G - Y =	384,869.7	N	G - X =	685,163.4	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 =	400,784.3	N	A - X =	643,932.1	E
B - Y =	398,120.1	N	B - X =	643,933.4	E
C - Y =	395,453.0	N	C - X =	643,932.1	E
D - Y =	392,791.1	N	D - X =	643,930.8	E
E - Y =	390,131.7	N	E - X =	643,945.0	E
F - Y =	387,471.2	N	F - X =	643,959.2	E
G - Y =	384,812.1	N	G - X =	643,977.6	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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DATE: 1-22-2025 PROJECT NO: 2023040149
 DRAWN BY: LM SCALE: 1" = 2,500'
 CHECKED BY: CH SHEET: 2 OF 2
 FIELD CREW: IR REVISION: NO

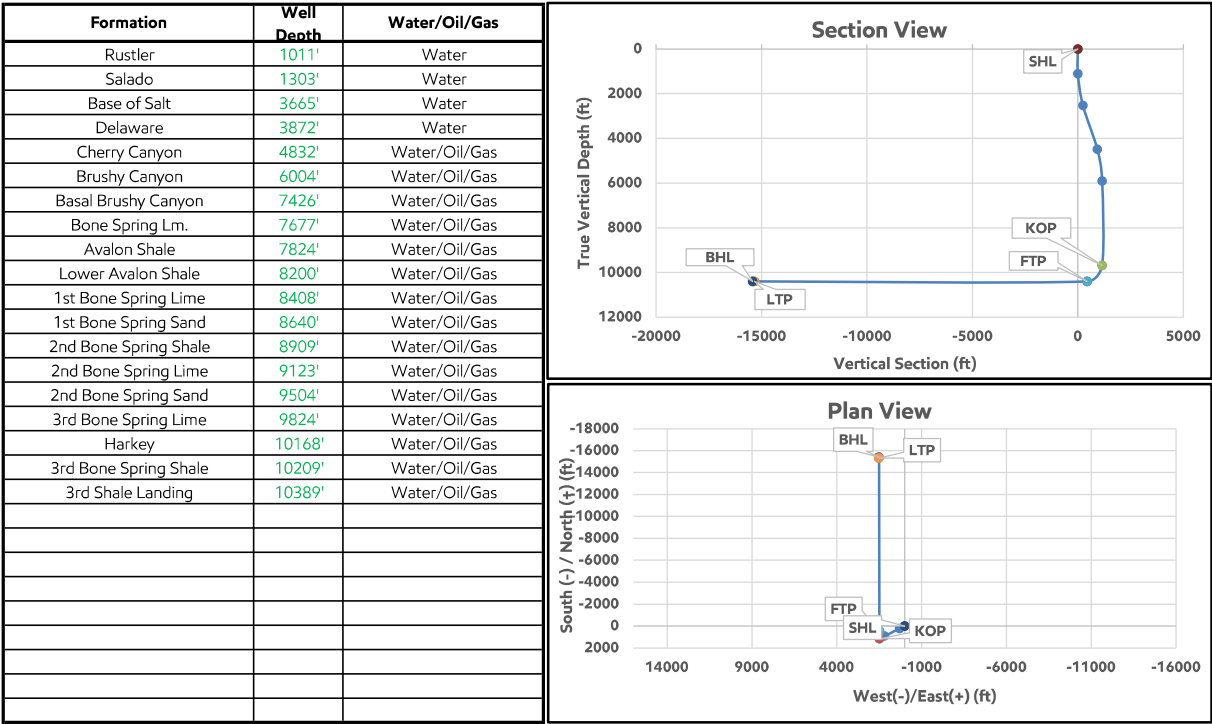
DRILLING PLAN: BLM COMPLIANCE
(Supplement to BLM 3160-3)

ExxonMobil
Poker Lake Unit 27 BD - 512H
Projected TD: 27088' MD / 10389' TVD
SHL: 2145' FSL & 628' FWL , Section 27, T25S, R30E
BHL: 2649' FNL & 2110' FWL , Section 10, T26S, R30E
Eddy County, NM

1. Geologic Name of Surface Formation

A. Quaternary

2. Estimated Tops of Geological Markers & Depths of Anticipated Fresh Water, Oil or Gas



	Inclination (°)	Azimuth (°)	True Vertical Depth (ft)	Y Offset (ft)	X Offset (ft)
SHL	0	0	0	0	0
KOP	0	0	9673	1149	1481
LP	90	180	10389	433	1482
FTP	90	180	10389	433	1482
LTP	90	180	10389	-15337	1512
BHL	90	180	10389	-15428	1513

Section 2 Summary:

*** Deepest Expected Groundwater Depth: 40' (per NM State Engineers Office).

No other formations are expected to give up oil, gas or fresh water in measurable quantities. Surface fresh water sands will be protected by setting 9-5/8" inch casing at 1278' and circulating cement back to surface.

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' – 1278'	1270'	9-5/8"	40	J55	BTC	New	10.09	4.67	4.83
8.75	0' – 9902'	9175'	7-5/8"	29.7	L80-IC	Tenaris Wedge 511	New	2.62	2.97	2.33
6.75	0' – 9702'	8991'	5-1/2"	20	P110-CY	TPN	New	1.18	2.85	2.55
6.75	9702' – 27088'	10389'	5-1/2"	20	P110-IC	Tenaris Wedge 441	New	1.18	2.73	2.61

Section 3 Summary:

XTO will keep casing fluid filled to meet BLM's collapse requirement.
The planned kick off point is located at: 10102' MD / 9673' 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	1,278	100%	
Surface 1	Tail	141	14.8	1.33	978	1,278	100%	
Intermediate 1	Lead							
Intermediate 1	Tail	365	14.8	1.45	6004	9,902	35%	
Production 1	Lead							
Production 1	Tail	1334	13.2	1.44	9402	27,088	30%	
Remedial Cementing								
Casing	Slurry Type	No. Sacks	Density (ppg)	Yield (ft3/sack)	Cemented Interval	Excess (%)	Slurry Description	
Intermediate 1	Bradenhead Squeeze	624	14.8	1.45	0 – 6004'	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' - 1278'	12.25"	FW/Native	8.3 - 8.7	35-40	NC	Fresh Water or Native Water
1278' - 9902'	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.
9902' - 9702'	6.75"	OBM	9 - 10.7	50-60	NC - 20	OBM or Cut Brine depending on Well Conditions
9702' - 27088'	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 169F to 189F. 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 512H

Measured Depth:	27087.69 ft	Site:	C
TVD RKB:	10389.00 ft	Slot:	Poker Lake Unit 27 BD 512H
Location			
Cartographic Reference System:	New Mexico East - NAD 27		
Northing:	400245.40 ft		
Easting:	641906.40 ft		
RKB:	3297.00 ft		
Ground Level:	3265.00 ft		
North Reference:	Grid		
Convergence Angle:	0.24 Deg		

Plan Sections

Measured				Poker Lake Unit 27 BD 512H				TVD			
Depth	(ft)	Inclination	Azimuth	RKB	(ft)	Y Offset	X Offset	Build	Turn	Dogleg	
		(Deg)	(Deg)			(ft)	(ft)	Rate	Rate	(Deg/100ft)	Rate
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	2588.22	29.76	52.18	2522.18	231.73	298.56	298.56	2.00	0.00	2.00	2.00
	4841.07	29.76	52.18	4477.82	917.47	1182.06	1182.06	0.00	0.00	0.00	0.00
	6329.29	0.00	0.00	5900.00	1149.20	1480.62	1480.62	-2.00	0.00	2.00	2.00
	10102.09	0.00	0.00	9672.80	1149.20	1480.62	1480.62	0.00	0.00	0.00	0.00
	11227.09	90.00	179.89	10389.00	433.00	1482.00	1482.00	8.00	0.00	8.00	FTP 7
	26997.12	90.00	179.89	10389.00	-15337.00	1512.40	1512.40	0.00	0.00	0.00	LTP 7
	27087.69	90.00	179.89	10389.00	-15427.57	1512.57	1512.57	0.00	0.00	0.00	BHL 7

Position Uncertainty

Measured				TVD				Highside				L			
----------	--	--	--	-----	--	--	--	----------	--	--	--	---	--	--	--

Depth (ft)	Inclination (°)	Azimuth (°)	RKB (ft)	Error (ft)	Bias (ft)	Error (ft)	Bias (ft)	Error (ft)	of Bias (ft)	Error (ft)	Used (°)
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	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	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	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	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	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	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	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	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	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	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	XOM_R2OWSG MWD+IFR1+MS
1200.000	2.000	52.183	1199.980	4.186	0.000	4.232	0.000	2.688	0.000	4.299	XOM_R2OWSG MWD+IFR1+MS
1300.000	4.000	52.183	1299.838	4.532	0.000	4.584	0.000	2.745	0.000	4.653	XOM_R2OWSG MWD+IFR1+MS
1400.000	6.000	52.183	1399.452	4.874	0.000	4.938	0.000	2.803	0.000	5.009	XOM_R2OWSG MWD+IFR1+MS
1500.000	8.000	52.183	1498.702	5.212	0.000	5.293	0.000	2.862	0.000	5.368	XOM_R2OWSG MWD+IFR1+MS
1600.000	10.000	52.183	1597.465	5.546	0.000	5.651	0.000	2.923	0.000	5.728	XOM_R2OWSG MWD+IFR1+MS
1700.000	12.000	52.183	1695.623	5.876	0.000	6.011	0.000	2.986	0.000	6.091	XOM_R2OWSG MWD+IFR1+MS
1800.000	14.000	52.183	1793.055	6.203	0.000	6.376	0.000	3.052	0.000	6.458	XOM_R2OWSG MWD+IFR1+MS

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1900.000	16.000	52.183	1889.643	6.527	0.000	6.746	0.000	3.122	0.000	0.000	6.829	6.598	89.227	XOM_R2OWSG MWD+IFR1+MS
2000.000	18.000	52.183	1985.268	6.849	0.000	7.123	0.000	3.197	0.000	0.000	7.206	6.958	87.769	XOM_R2OWSG MWD+IFR1+MS
2100.000	20.000	52.183	2079.816	7.169	0.000	7.509	0.000	3.279	0.000	0.000	7.590	7.321	85.854	XOM_R2OWSG MWD+IFR1+MS
2200.000	22.000	52.183	2173.169	7.489	0.000	7.904	0.000	3.370	0.000	0.000	7.983	7.687	83.526	XOM_R2OWSG MWD+IFR1+MS
2300.000	24.000	52.183	2265.215	7.808	0.000	8.312	0.000	3.472	0.000	0.000	8.387	8.056	80.880	XOM_R2OWSG MWD+IFR1+MS
2400.000	26.000	52.183	2355.841	8.128	0.000	8.733	0.000	3.586	0.000	0.000	8.804	8.426	78.054	XOM_R2OWSG MWD+IFR1+MS
2500.000	28.000	52.183	2444.937	8.448	0.000	9.171	0.000	3.714	0.000	0.000	9.236	8.799	75.202	XOM_R2OWSG MWD+IFR1+MS
2588.217	29.764	52.183	2522.178	8.732	0.000	9.571	0.000	3.840	0.000	0.000	9.632	9.129	72.821	XOM_R2OWSG MWD+IFR1+MS
2600.000	29.764	52.183	2532.407	8.782	0.000	9.625	0.000	3.852	0.000	0.000	9.686	9.176	72.635	XOM_R2OWSG MWD+IFR1+MS
2700.000	29.764	52.183	2619.214	9.209	0.000	10.095	0.000	4.031	0.000	0.000	10.151	9.545	70.063	XOM_R2OWSG MWD+IFR1+MS
2800.000	29.764	52.183	2706.021	9.643	0.000	10.576	0.000	4.219	0.000	0.000	10.628	9.919	68.101	XOM_R2OWSG MWD+IFR1+MS
2900.000	29.764	52.183	2792.829	10.083	0.000	11.066	0.000	4.415	0.000	0.000	11.115	10.298	66.576	XOM_R2OWSG MWD+IFR1+MS
3000.000	29.764	52.183	2879.636	10.529	0.000	11.564	0.000	4.619	0.000	0.000	11.611	10.681	65.365	XOM_R2OWSG MWD+IFR1+MS
3100.000	29.764	52.183	2966.444	10.979	0.000	12.069	0.000	4.829	0.000	0.000	12.114	11.067	64.386	XOM_R2OWSG MWD+IFR1+MS
3200.000	29.764	52.183	3053.251	11.434	0.000	12.580	0.000	5.044	0.000	0.000	12.624	11.457	63.581	XOM_R2OWSG MWD+IFR1+MS
3300.000	29.764	52.183	3140.059	11.893	0.000	13.097	0.000	5.265	0.000	0.000	13.140	11.851	62.910	XOM_R2OWSG MWD+IFR1+MS
3400.000	29.764	52.183	3226.866	12.355	0.000	13.618	0.000	5.489	0.000	0.000	13.660	12.247	62.343	XOM_R2OWSG MWD+IFR1+MS
3500.000	29.764	52.183	3313.674	12.820	0.000	14.144	0.000	5.718	0.000	0.000	14.185	12.646	61.859	XOM_R2OWSG MWD+IFR1+MS
3600.000	29.764	52.183	3400.481	13.288	0.000	14.674	0.000	5.950	0.000	0.000	14.715	13.048	61.440	XOM_R2OWSG MWD+IFR1+MS
3700.000	29.764	52.183	3487.289	13.758	0.000	15.207	0.000	6.185	0.000	0.000	15.247	13.451	61.076	XOM_R2OWSG MWD+IFR1+MS

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3800.000	29.764	52.183	3574.096	14.230	0.000	15.743	0.000	6.424	0.000	0.000	15.783	13.857	60.756	XOM_R2OWSG MWD+IFR1+MS
3900.000	29.764	52.183	3660.903	14.704	0.000	16.282	0.000	6.664	0.000	0.000	16.322	14.265	60.474	XOM_R2OWSG MWD+IFR1+MS
4000.000	29.764	52.183	3747.711	15.180	0.000	16.824	0.000	6.907	0.000	0.000	16.864	14.675	60.222	XOM_R2OWSG MWD+IFR1+MS
4100.000	29.764	52.183	3834.518	15.658	0.000	17.367	0.000	7.153	0.000	0.000	17.407	15.086	59.997	XOM_R2OWSG MWD+IFR1+MS
4200.000	29.764	52.183	3921.326	16.137	0.000	17.913	0.000	7.400	0.000	0.000	17.953	15.499	59.794	XOM_R2OWSG MWD+IFR1+MS
4300.000	29.764	52.183	4008.133	16.618	0.000	18.461	0.000	7.649	0.000	0.000	18.501	15.914	59.611	XOM_R2OWSG MWD+IFR1+MS
4400.000	29.764	52.183	4094.941	17.099	0.000	19.010	0.000	7.900	0.000	0.000	19.051	16.330	59.445	XOM_R2OWSG MWD+IFR1+MS
4500.000	29.764	52.183	4181.748	17.582	0.000	19.561	0.000	8.153	0.000	0.000	19.602	16.747	59.293	XOM_R2OWSG MWD+IFR1+MS
4600.000	29.764	52.183	4268.556	18.066	0.000	20.114	0.000	8.407	0.000	0.000	20.155	17.165	59.154	XOM_R2OWSG MWD+IFR1+MS
4700.000	29.764	52.183	4355.363	18.551	0.000	20.668	0.000	8.662	0.000	0.000	20.709	17.584	59.026	XOM_R2OWSG MWD+IFR1+MS
4800.000	29.764	52.183	4442.171	19.036	0.000	21.223	0.000	8.919	0.000	0.000	21.264	18.004	58.909	XOM_R2OWSG MWD+IFR1+MS
4841.069	29.764	52.183	4477.822	19.236	0.000	21.450	0.000	9.025	0.000	0.000	21.492	18.177	58.865	XOM_R2OWSG MWD+IFR1+MS
4900.000	28.586	52.183	4529.275	19.570	0.000	21.774	0.000	9.177	0.000	0.000	21.815	18.424	58.807	XOM_R2OWSG MWD+IFR1+MS
5000.000	26.586	52.183	4617.903	20.112	0.000	22.307	0.000	9.425	0.000	0.000	22.350	18.842	58.735	XOM_R2OWSG MWD+IFR1+MS
5100.000	24.586	52.183	4708.092	20.620	0.000	22.820	0.000	9.659	0.000	0.000	22.863	19.258	58.695	XOM_R2OWSG MWD+IFR1+MS
5200.000	22.586	52.183	4799.734	21.094	0.000	23.311	0.000	9.877	0.000	0.000	23.354	19.671	58.683	XOM_R2OWSG MWD+IFR1+MS
5300.000	20.586	52.183	4892.716	21.533	0.000	23.780	0.000	10.080	0.000	0.000	23.824	20.080	58.693	XOM_R2OWSG MWD+IFR1+MS
5400.000	18.586	52.183	4986.925	21.935	0.000	24.227	0.000	10.268	0.000	0.000	24.272	20.483	58.723	XOM_R2OWSG MWD+IFR1+MS
5500.000	16.586	52.183	5082.247	22.299	0.000	24.653	0.000	10.443	0.000	0.000	24.699	20.879	58.767	XOM_R2OWSG MWD+IFR1+MS
5600.000	14.586	52.183	5178.565	22.625	0.000	25.057	0.000	10.604	0.000	0.000	25.105	21.267	58.824	XOM_R2OWSG MWD+IFR1+MS

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5700.000	12.586	52.183	5275.762	22.913	0.000	25.442	0.000	10.752	0.000	0.000	25.490	21.645	58.891	XOM_R2OWSG MWD+IFR1+MS
5800.000	10.586	52.183	5373.719	23.162	0.000	25.806	0.000	10.890	0.000	0.000	25.856	22.013	58.966	XOM_R2OWSG MWD+IFR1+MS
5900.000	8.586	52.183	5472.318	23.371	0.000	26.152	0.000	11.016	0.000	0.000	26.203	22.370	59.044	XOM_R2OWSG MWD+IFR1+MS
6000.000	6.586	52.183	5571.438	23.540	0.000	26.479	0.000	11.134	0.000	0.000	26.531	22.714	59.125	XOM_R2OWSG MWD+IFR1+MS
6100.000	4.586	52.183	5670.958	23.670	0.000	26.789	0.000	11.243	0.000	0.000	26.842	23.046	59.206	XOM_R2OWSG MWD+IFR1+MS
6200.000	2.586	52.183	5770.757	23.761	0.000	27.083	0.000	11.345	0.000	0.000	27.136	23.365	59.284	XOM_R2OWSG MWD+IFR1+MS
6300.000	0.586	52.183	5870.714	23.812	0.000	27.361	0.000	11.441	0.000	0.000	27.416	23.670	59.357	XOM_R2OWSG MWD+IFR1+MS
6329.287	0.000	0.000	5900.000	26.576	0.000	24.781	0.000	11.468	0.000	0.000	27.496	23.756	59.376	XOM_R2OWSG MWD+IFR1+MS
6400.000	0.000	0.000	5970.713	26.775	0.000	24.981	0.000	11.534	0.000	0.000	27.690	23.962	59.419	XOM_R2OWSG MWD+IFR1+MS
6500.000	0.000	0.000	6070.713	27.058	0.000	25.265	0.000	11.629	0.000	0.000	27.967	24.255	59.478	XOM_R2OWSG MWD+IFR1+MS
6600.000	0.000	0.000	6170.713	27.343	0.000	25.551	0.000	11.726	0.000	0.000	28.245	24.550	59.537	XOM_R2OWSG MWD+IFR1+MS
6700.000	0.000	0.000	6270.713	27.630	0.000	25.839	0.000	11.826	0.000	0.000	28.525	24.846	59.595	XOM_R2OWSG MWD+IFR1+MS
6800.000	0.000	0.000	6370.713	27.918	0.000	26.128	0.000	11.929	0.000	0.000	28.807	25.144	59.652	XOM_R2OWSG MWD+IFR1+MS
6900.000	0.000	0.000	6470.713	28.208	0.000	26.419	0.000	12.035	0.000	0.000	29.091	25.443	59.708	XOM_R2OWSG MWD+IFR1+MS
7000.000	0.000	0.000	6570.713	28.499	0.000	26.712	0.000	12.143	0.000	0.000	29.376	25.744	59.764	XOM_R2OWSG MWD+IFR1+MS
7100.000	0.000	0.000	6670.713	28.792	0.000	27.007	0.000	12.255	0.000	0.000	29.663	26.047	59.819	XOM_R2OWSG MWD+IFR1+MS
7200.000	0.000	0.000	6770.713	29.087	0.000	27.303	0.000	12.369	0.000	0.000	29.952	26.351	59.873	XOM_R2OWSG MWD+IFR1+MS
7300.000	0.000	0.000	6870.713	29.382	0.000	27.600	0.000	12.486	0.000	0.000	30.242	26.656	59.926	XOM_R2OWSG MWD+IFR1+MS
7400.000	0.000	0.000	6970.713	29.680	0.000	27.899	0.000	12.607	0.000	0.000	30.533	26.962	59.979	XOM_R2OWSG MWD+IFR1+MS
7500.000	0.000	0.000	7070.713	29.978	0.000	28.199	0.000	12.730	0.000	0.000	30.826	27.270	60.032	XOM_R2OWSG MWD+IFR1+MS

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7600.000	0.000	0.000	7170.713	30.278	0.000	28.501	0.000	12.856	0.000	0.000	31.120	27.579	60.083	XOM_R2OWSG MWD+IFR1+MS
7700.000	0.000	0.000	7270.713	30.579	0.000	28.804	0.000	12.986	0.000	0.000	31.416	27.889	60.134	XOM_R2OWSG MWD+IFR1+MS
7800.000	0.000	0.000	7370.713	30.882	0.000	29.108	0.000	13.118	0.000	0.000	31.713	28.200	60.184	XOM_R2OWSG MWD+IFR1+MS
7900.000	0.000	0.000	7470.713	31.185	0.000	29.413	0.000	13.254	0.000	0.000	32.011	28.513	60.234	XOM_R2OWSG MWD+IFR1+MS
8000.000	0.000	0.000	7570.713	31.490	0.000	29.720	0.000	13.393	0.000	0.000	32.310	28.826	60.283	XOM_R2OWSG MWD+IFR1+MS
8100.000	0.000	0.000	7670.713	31.796	0.000	30.028	0.000	13.535	0.000	0.000	32.611	29.140	60.332	XOM_R2OWSG MWD+IFR1+MS
8200.000	0.000	0.000	7770.713	32.102	0.000	30.337	0.000	13.680	0.000	0.000	32.912	29.456	60.380	XOM_R2OWSG MWD+IFR1+MS
8300.000	0.000	0.000	7870.713	32.410	0.000	30.647	0.000	13.829	0.000	0.000	33.215	29.772	60.427	XOM_R2OWSG MWD+IFR1+MS
8400.000	0.000	0.000	7970.713	32.719	0.000	30.958	0.000	13.981	0.000	0.000	33.519	30.090	60.474	XOM_R2OWSG MWD+IFR1+MS
8500.000	0.000	0.000	8070.713	33.029	0.000	31.270	0.000	14.136	0.000	0.000	33.824	30.408	60.520	XOM_R2OWSG MWD+IFR1+MS
8600.000	0.000	0.000	8170.713	33.340	0.000	31.583	0.000	14.294	0.000	0.000	34.130	30.727	60.566	XOM_R2OWSG MWD+IFR1+MS
8700.000	0.000	0.000	8270.713	33.652	0.000	31.897	0.000	14.456	0.000	0.000	34.438	31.047	60.611	XOM_R2OWSG MWD+IFR1+MS
8800.000	0.000	0.000	8370.713	33.965	0.000	32.211	0.000	14.621	0.000	0.000	34.746	31.368	60.656	XOM_R2OWSG MWD+IFR1+MS
8900.000	0.000	0.000	8470.713	34.279	0.000	32.527	0.000	14.790	0.000	0.000	35.055	31.690	60.700	XOM_R2OWSG MWD+IFR1+MS
9000.000	0.000	0.000	8570.713	34.593	0.000	32.844	0.000	14.962	0.000	0.000	35.365	32.012	60.744	XOM_R2OWSG MWD+IFR1+MS
9100.000	0.000	0.000	8670.713	34.909	0.000	33.161	0.000	15.137	0.000	0.000	35.676	32.335	60.787	XOM_R2OWSG MWD+IFR1+MS
9200.000	0.000	0.000	8770.713	35.225	0.000	33.480	0.000	15.316	0.000	0.000	35.987	32.659	60.830	XOM_R2OWSG MWD+IFR1+MS
9300.000	0.000	0.000	8870.713	35.542	0.000	33.799	0.000	15.499	0.000	0.000	36.300	32.984	60.872	XOM_R2OWSG MWD+IFR1+MS
9400.000	0.000	0.000	8970.713	35.860	0.000	34.119	0.000	15.684	0.000	0.000	36.613	33.309	60.914	XOM_R2OWSG MWD+IFR1+MS
9500.000	0.000	0.000	9070.713	36.179	0.000	34.439	0.000	15.873	0.000	0.000	36.928	33.635	60.955	XOM_R2OWSG MWD+IFR1+MS

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9600.000	0.000	0.000	9170.713	36.498	0.000	34.761	0.000	16.066	0.000	0.000	37.243	33.962	60.996	XOM_R2OWSG MWD+IFR1+MS
9700.000	0.000	0.000	9270.713	36.818	0.000	35.083	0.000	16.262	0.000	0.000	37.559	34.289	61.036	XOM_R2OWSG MWD+IFR1+MS
9800.000	0.000	0.000	9370.713	37.139	0.000	35.406	0.000	16.462	0.000	0.000	37.875	34.617	61.076	XOM_R2OWSG MWD+IFR1+MS
9900.000	0.000	0.000	9470.713	37.460	0.000	35.729	0.000	16.665	0.000	0.000	38.193	34.945	61.116	XOM_R2OWSG MWD+IFR1+MS
10000.000	0.000	0.000	9570.713	37.782	0.000	36.054	0.000	16.872	0.000	0.000	38.511	35.274	61.155	XOM_R2OWSG MWD+IFR1+MS
10102.089	0.000	0.000	9672.803	38.112	0.000	36.385	0.000	17.086	0.000	0.000	38.836	35.611	61.194	XOM_R2OWSG MWD+IFR1+MS
10200.000	7.833	179.890	9770.409	37.534	0.000	36.677	-0.000	17.291	0.000	0.000	39.122	35.907	61.124	XOM_R2OWSG MWD+IFR1+MS
10300.000	15.833	179.890	9868.204	36.327	0.000	36.945	-0.000	17.496	0.000	0.000	39.373	36.167	60.893	XOM_R2OWSG MWD+IFR1+MS
10400.000	23.833	179.890	9962.196	34.572	0.000	37.188	-0.000	17.703	0.000	0.000	39.594	36.394	60.544	XOM_R2OWSG MWD+IFR1+MS
10500.000	31.833	179.890	10050.556	32.347	0.000	37.403	-0.000	17.917	0.000	0.000	39.780	36.589	60.084	XOM_R2OWSG MWD+IFR1+MS
10600.000	39.833	179.890	10131.563	29.764	0.000	37.590	-0.000	18.146	0.000	0.000	39.928	36.754	59.536	XOM_R2OWSG MWD+IFR1+MS
10700.000	47.833	179.890	10203.641	26.978	0.000	37.749	-0.000	18.397	0.000	0.000	40.039	36.891	58.939	XOM_R2OWSG MWD+IFR1+MS
10800.000	55.833	179.890	10265.386	24.208	0.000	37.882	-0.000	18.675	0.000	0.000	40.113	37.006	58.340	XOM_R2OWSG MWD+IFR1+MS
10900.000	63.833	179.890	10315.598	21.751	0.000	37.989	-0.000	18.985	0.000	0.000	40.151	37.104	57.796	XOM_R2OWSG MWD+IFR1+MS
11000.000	71.833	179.890	10353.298	19.983	0.000	38.072	-0.000	19.328	0.000	0.000	40.158	37.191	57.379	XOM_R2OWSG MWD+IFR1+MS
11100.000	79.833	179.890	10377.754	19.284	0.000	38.131	-0.000	19.704	0.000	0.000	40.137	37.271	57.177	XOM_R2OWSG MWD+IFR1+MS
11200.000	87.833	179.890	10388.488	19.854	0.000	38.166	-0.000	20.107	0.000	0.000	40.095	37.349	57.308	XOM_R2OWSG MWD+IFR1+MS
11227.089	90.000	179.890	10389.000	20.219	0.000	38.170	-0.000	20.219	0.000	0.000	40.081	37.369	57.437	XOM_R2OWSG MWD+IFR1+MS
11300.000	90.000	179.890	10389.000	20.529	0.000	38.186	-0.000	20.529	0.000	0.000	40.042	37.428	57.749	XOM_R2OWSG MWD+IFR1+MS
11400.000	90.000	179.890	10389.000	20.973	0.000	38.228	-0.000	20.973	0.000	0.000	39.995	37.523	58.026	XOM_R2OWSG MWD+IFR1+MS

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11500.000	90.000	179.890	10389.000	21.436	0.000	38.290	-0.000	21.436	0.000	0.000	39.953	37.633	58.122	XOM_R2OWSG MWD+IFR1+MS
11600.000	90.000	179.890	10389.000	21.918	0.000	38.372	-0.000	21.918	0.000	0.000	39.917	37.757	58.002	XOM_R2OWSG MWD+IFR1+MS
11700.000	90.000	179.890	10389.000	22.417	0.000	38.474	-0.000	22.417	0.000	0.000	39.887	37.896	57.614	XOM_R2OWSG MWD+IFR1+MS
11800.000	90.000	179.890	10389.000	22.931	0.000	38.596	-0.000	22.931	0.000	0.000	39.863	38.048	56.877	XOM_R2OWSG MWD+IFR1+MS
11900.000	90.000	179.890	10389.000	23.461	0.000	38.737	-0.000	23.461	0.000	0.000	39.847	38.214	55.674	XOM_R2OWSG MWD+IFR1+MS
12000.000	90.000	179.890	10389.000	24.004	0.000	38.898	-0.000	24.004	0.000	0.000	39.839	38.390	53.818	XOM_R2OWSG MWD+IFR1+MS
12100.000	90.000	179.890	10389.000	24.561	0.000	39.079	-0.000	24.561	0.000	0.000	39.843	38.574	51.027	XOM_R2OWSG MWD+IFR1+MS
12200.000	90.000	179.890	10389.000	25.130	0.000	39.278	-0.000	25.130	0.000	0.000	39.864	38.760	46.887	XOM_R2OWSG MWD+IFR1+MS
12300.000	90.000	179.890	10389.000	25.710	0.000	39.495	-0.000	25.710	0.000	0.000	39.912	38.940	40.929	XOM_R2OWSG MWD+IFR1+MS
12400.000	90.000	179.890	10389.000	26.301	0.000	39.732	-0.000	26.301	0.000	0.000	39.999	39.098	33.030	XOM_R2OWSG MWD+IFR1+MS
12500.000	90.000	179.890	10389.000	26.902	0.000	39.986	-0.000	26.902	0.000	0.000	40.139	39.221	24.146	XOM_R2OWSG MWD+IFR1+MS
12600.000	90.000	179.890	10389.000	27.512	0.000	40.257	-0.000	27.512	0.000	0.000	40.337	39.305	16.062	XOM_R2OWSG MWD+IFR1+MS
12700.000	90.000	179.890	10389.000	28.131	0.000	40.547	-0.000	28.131	0.000	0.000	40.582	39.358	9.836	XOM_R2OWSG MWD+IFR1+MS
12800.000	90.000	179.890	10389.000	28.757	0.000	40.853	-0.000	28.757	0.000	0.000	40.866	39.391	5.406	XOM_R2OWSG MWD+IFR1+MS
12900.000	90.000	179.890	10389.000	29.392	0.000	41.175	-0.000	29.392	0.000	0.000	41.178	39.413	2.307	XOM_R2OWSG MWD+IFR1+MS
13000.000	90.000	179.890	10389.000	30.033	0.000	41.514	-0.000	30.033	0.000	0.000	41.514	39.427	0.117	XOM_R2OWSG MWD+IFR1+MS
13100.000	90.000	179.890	10389.000	30.682	0.000	41.869	-0.000	30.682	0.000	0.000	41.870	39.437	-1.460	XOM_R2OWSG MWD+IFR1+MS
13200.000	90.000	179.890	10389.000	31.336	0.000	42.238	-0.000	31.336	0.000	0.000	42.244	39.446	-2.617	XOM_R2OWSG MWD+IFR1+MS
13300.000	90.000	179.890	10389.000	31.996	0.000	42.623	-0.000	31.996	0.000	0.000	42.634	39.453	-3.478	XOM_R2OWSG MWD+IFR1+MS
13400.000	90.000	179.890	10389.000	32.662	0.000	43.023	-0.000	32.662	0.000	0.000	43.040	39.460	-4.127	XOM_R2OWSG MWD+IFR1+MS

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13500.000	90.000	179.890	10389.000	33.333	0.000	43.437	-0.000	33.333	0.000	0.000	43.460	39.466	-4.621	XOM_R2OWSG MWD+IFR1+MS
13600.000	90.000	179.890	10389.000	34.009	0.000	43.864	-0.000	34.009	0.000	0.000	43.895	39.473	-4.998	XOM_R2OWSG MWD+IFR1+MS
13700.000	90.000	179.890	10389.000	34.689	0.000	44.305	-0.000	34.689	0.000	0.000	44.343	39.480	-5.287	XOM_R2OWSG MWD+IFR1+MS
13800.000	90.000	179.890	10389.000	35.374	0.000	44.759	-0.000	35.374	0.000	0.000	44.803	39.488	-5.507	XOM_R2OWSG MWD+IFR1+MS
13900.000	90.000	179.890	10389.000	36.063	0.000	45.226	-0.000	36.063	0.000	0.000	45.276	39.497	-5.674	XOM_R2OWSG MWD+IFR1+MS
14000.000	90.000	179.890	10389.000	36.755	0.000	45.704	-0.000	36.755	0.000	0.000	45.762	39.506	-5.798	XOM_R2OWSG MWD+IFR1+MS
14100.000	90.000	179.890	10389.000	37.452	0.000	46.195	-0.000	37.452	0.000	0.000	46.258	39.516	-5.889	XOM_R2OWSG MWD+IFR1+MS
14200.000	90.000	179.890	10389.000	38.152	0.000	46.697	-0.000	38.152	0.000	0.000	46.766	39.527	-5.953	XOM_R2OWSG MWD+IFR1+MS
14300.000	90.000	179.890	10389.000	38.855	0.000	47.210	-0.000	38.855	0.000	0.000	47.285	39.539	-5.994	XOM_R2OWSG MWD+IFR1+MS
14400.000	90.000	179.890	10389.000	39.561	0.000	47.734	-0.000	39.561	0.000	0.000	47.814	39.551	-6.018	XOM_R2OWSG MWD+IFR1+MS
14500.000	90.000	179.890	10389.000	40.270	0.000	48.268	-0.000	40.270	0.000	0.000	48.353	39.564	-6.028	XOM_R2OWSG MWD+IFR1+MS
14600.000	90.000	179.890	10389.000	40.981	0.000	48.812	-0.000	40.981	0.000	0.000	48.902	39.578	-6.025	XOM_R2OWSG MWD+IFR1+MS
14700.000	90.000	179.890	10389.000	41.696	0.000	49.366	-0.000	41.696	0.000	0.000	49.460	39.593	-6.013	XOM_R2OWSG MWD+IFR1+MS
14800.000	90.000	179.890	10389.000	42.413	0.000	49.930	-0.000	42.413	0.000	0.000	50.028	39.609	-5.993	XOM_R2OWSG MWD+IFR1+MS
14900.000	90.000	179.890	10389.000	43.132	0.000	50.502	-0.000	43.132	0.000	0.000	50.604	39.625	-5.966	XOM_R2OWSG MWD+IFR1+MS
15000.000	90.000	179.890	10389.000	43.853	0.000	51.084	-0.000	43.853	0.000	0.000	51.189	39.642	-5.934	XOM_R2OWSG MWD+IFR1+MS
15100.000	90.000	179.890	10389.000	44.577	0.000	51.673	-0.000	44.577	0.000	0.000	51.782	39.660	-5.897	XOM_R2OWSG MWD+IFR1+MS
15200.000	90.000	179.890	10389.000	45.302	0.000	52.271	-0.000	45.302	0.000	0.000	52.383	39.679	-5.857	XOM_R2OWSG MWD+IFR1+MS
15300.000	90.000	179.890	10389.000	46.030	0.000	52.877	-0.000	46.030	0.000	0.000	52.992	39.699	-5.814	XOM_R2OWSG MWD+IFR1+MS
15400.000	90.000	179.890	10389.000	46.760	0.000	53.490	-0.000	46.760	0.000	0.000	53.608	39.719	-5.769	XOM_R2OWSG MWD+IFR1+MS

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15500.000	90.000	179.890	10389.000	47.491	0.000	54.111	-0.000	47.491	0.000	0.000	54.231	39.740	-5.721	XOM_R2OWSG MWD+IFR1+MS
15600.000	90.000	179.890	10389.000	48.224	0.000	54.739	-0.000	48.224	0.000	0.000	54.862	39.762	-5.672	XOM_R2OWSG MWD+IFR1+MS
15700.000	90.000	179.890	10389.000	48.958	0.000	55.374	-0.000	48.958	0.000	0.000	55.499	39.785	-5.623	XOM_R2OWSG MWD+IFR1+MS
15800.000	90.000	179.890	10389.000	49.694	0.000	56.016	-0.000	49.694	0.000	0.000	56.142	39.808	-5.572	XOM_R2OWSG MWD+IFR1+MS
15900.000	90.000	179.890	10389.000	50.432	0.000	56.664	-0.000	50.432	0.000	0.000	56.792	39.832	-5.520	XOM_R2OWSG MWD+IFR1+MS
16000.000	90.000	179.890	10389.000	51.171	0.000	57.318	-0.000	51.171	0.000	0.000	57.448	39.857	-5.469	XOM_R2OWSG MWD+IFR1+MS
16100.000	90.000	179.890	10389.000	51.911	0.000	57.978	-0.000	51.911	0.000	0.000	58.110	39.882	-5.417	XOM_R2OWSG MWD+IFR1+MS
16200.000	90.000	179.890	10389.000	52.652	0.000	58.644	-0.000	52.652	0.000	0.000	58.777	39.909	-5.364	XOM_R2OWSG MWD+IFR1+MS
16300.000	90.000	179.890	10389.000	53.395	0.000	59.316	-0.000	53.395	0.000	0.000	59.450	39.936	-5.313	XOM_R2OWSG MWD+IFR1+MS
16400.000	90.000	179.890	10389.000	54.139	0.000	59.993	-0.000	54.139	0.000	0.000	60.128	39.963	-5.261	XOM_R2OWSG MWD+IFR1+MS
16500.000	90.000	179.890	10389.000	54.884	0.000	60.675	-0.000	54.884	0.000	0.000	60.811	39.992	-5.209	XOM_R2OWSG MWD+IFR1+MS
16600.000	90.000	179.890	10389.000	55.630	0.000	61.362	-0.000	55.630	0.000	0.000	61.499	40.021	-5.158	XOM_R2OWSG MWD+IFR1+MS
16700.000	90.000	179.890	10389.000	56.378	0.000	62.054	-0.000	56.378	0.000	0.000	62.192	40.050	-5.107	XOM_R2OWSG MWD+IFR1+MS
16800.000	90.000	179.890	10389.000	57.126	0.000	62.751	-0.000	57.126	0.000	0.000	62.890	40.081	-5.057	XOM_R2OWSG MWD+IFR1+MS
16900.000	90.000	179.890	10389.000	57.875	0.000	63.453	-0.000	57.875	0.000	0.000	63.592	40.112	-5.007	XOM_R2OWSG MWD+IFR1+MS
17000.000	90.000	179.890	10389.000	58.625	0.000	64.158	-0.000	58.625	0.000	0.000	64.299	40.144	-4.958	XOM_R2OWSG MWD+IFR1+MS
17100.000	90.000	179.890	10389.000	59.376	0.000	64.869	-0.000	59.376	0.000	0.000	65.009	40.176	-4.909	XOM_R2OWSG MWD+IFR1+MS
17200.000	90.000	179.890	10389.000	60.128	0.000	65.583	-0.000	60.128	0.000	0.000	65.724	40.209	-4.861	XOM_R2OWSG MWD+IFR1+MS
17300.000	90.000	179.890	10389.000	60.881	0.000	66.301	-0.000	60.881	0.000	0.000	66.443	40.243	-4.813	XOM_R2OWSG MWD+IFR1+MS
17400.000	90.000	179.890	10389.000	61.635	0.000	67.023	-0.000	61.635	0.000	0.000	67.165	40.277	-4.766	XOM_R2OWSG MWD+IFR1+MS

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17500.000	90.000	179.890	10389.000	62.389	0.000	67.749	-0.000	62.389	0.000	0.000	67.891	40.312	-4.720	XOM_R2OWSG MWD+IFR1+MS
17600.000	90.000	179.890	10389.000	63.144	0.000	68.479	-0.000	63.144	0.000	0.000	68.621	40.348	-4.674	XOM_R2OWSG MWD+IFR1+MS
17700.000	90.000	179.890	10389.000	63.900	0.000	69.212	-0.000	63.900	0.000	0.000	69.354	40.384	-4.629	XOM_R2OWSG MWD+IFR1+MS
17800.000	90.000	179.890	10389.000	64.656	0.000	69.949	-0.000	64.656	0.000	0.000	70.091	40.421	-4.585	XOM_R2OWSG MWD+IFR1+MS
17900.000	90.000	179.890	10389.000	65.413	0.000	70.688	-0.000	65.413	0.000	0.000	70.831	40.459	-4.541	XOM_R2OWSG MWD+IFR1+MS
18000.000	90.000	179.890	10389.000	66.171	0.000	71.431	-0.000	66.171	0.000	0.000	71.574	40.497	-4.498	XOM_R2OWSG MWD+IFR1+MS
18100.000	90.000	179.890	10389.000	66.929	0.000	72.177	-0.000	66.929	0.000	0.000	72.320	40.536	-4.456	XOM_R2OWSG MWD+IFR1+MS
18200.000	90.000	179.890	10389.000	67.688	0.000	72.927	-0.000	67.688	0.000	0.000	73.069	40.575	-4.414	XOM_R2OWSG MWD+IFR1+MS
18300.000	90.000	179.890	10389.000	68.448	0.000	73.679	-0.000	68.448	0.000	0.000	73.821	40.615	-4.373	XOM_R2OWSG MWD+IFR1+MS
18400.000	90.000	179.890	10389.000	69.208	0.000	74.433	-0.000	69.208	0.000	0.000	74.576	40.656	-4.333	XOM_R2OWSG MWD+IFR1+MS
18500.000	90.000	179.890	10389.000	69.969	0.000	75.191	-0.000	69.969	0.000	0.000	75.333	40.697	-4.293	XOM_R2OWSG MWD+IFR1+MS
18600.000	90.000	179.890	10389.000	70.730	0.000	75.951	-0.000	70.730	0.000	0.000	76.093	40.739	-4.254	XOM_R2OWSG MWD+IFR1+MS
18700.000	90.000	179.890	10389.000	71.492	0.000	76.714	-0.000	71.492	0.000	0.000	76.856	40.782	-4.215	XOM_R2OWSG MWD+IFR1+MS
18800.000	90.000	179.890	10389.000	72.254	0.000	77.479	-0.000	72.254	0.000	0.000	77.621	40.825	-4.177	XOM_R2OWSG MWD+IFR1+MS
18900.000	90.000	179.890	10389.000	73.017	0.000	78.247	-0.000	73.017	0.000	0.000	78.388	40.869	-4.140	XOM_R2OWSG MWD+IFR1+MS
19000.000	90.000	179.890	10389.000	73.780	0.000	79.017	-0.000	73.780	0.000	0.000	79.158	40.913	-4.103	XOM_R2OWSG MWD+IFR1+MS
19100.000	90.000	179.890	10389.000	74.543	0.000	79.790	-0.000	74.543	0.000	0.000	79.930	40.958	-4.067	XOM_R2OWSG MWD+IFR1+MS
19200.000	90.000	179.890	10389.000	75.307	0.000	80.564	-0.000	75.307	0.000	0.000	80.704	41.003	-4.031	XOM_R2OWSG MWD+IFR1+MS
19300.000	90.000	179.890	10389.000	76.072	0.000	81.341	-0.000	76.072	0.000	0.000	81.481	41.049	-3.996	XOM_R2OWSG MWD+IFR1+MS
19400.000	90.000	179.890	10389.000	76.837	0.000	82.120	-0.000	76.837	0.000	0.000	82.259	41.096	-3.961	XOM_R2OWSG MWD+IFR1+MS

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19500.000	90.000	179.890	10389.000	77.602	0.000	82.901	-0.000	77.602	0.000	0.000	83.040	41.143	-3.927	XOM_R2OWSG MWD+IFR1+MS
19600.000	90.000	179.890	10389.000	78.368	0.000	83.684	-0.000	78.368	0.000	0.000	83.822	41.191	-3.894	XOM_R2OWSG MWD+IFR1+MS
19700.000	90.000	179.890	10389.000	79.134	0.000	84.469	-0.000	79.134	0.000	0.000	84.607	41.239	-3.861	XOM_R2OWSG MWD+IFR1+MS
19800.000	90.000	179.890	10389.000	79.900	0.000	85.255	-0.000	79.900	0.000	0.000	85.393	41.288	-3.829	XOM_R2OWSG MWD+IFR1+MS
19900.000	90.000	179.890	10389.000	80.667	0.000	86.044	-0.000	80.667	0.000	0.000	86.181	41.337	-3.797	XOM_R2OWSG MWD+IFR1+MS
20000.000	90.000	179.890	10389.000	81.434	0.000	86.834	-0.000	81.434	0.000	0.000	86.971	41.387	-3.765	XOM_R2OWSG MWD+IFR1+MS
20100.000	90.000	179.890	10389.000	82.201	0.000	87.626	-0.000	82.201	0.000	0.000	87.763	41.438	-3.734	XOM_R2OWSG MWD+IFR1+MS
20200.000	90.000	179.890	10389.000	82.969	0.000	88.420	-0.000	82.969	0.000	0.000	88.556	41.489	-3.704	XOM_R2OWSG MWD+IFR1+MS
20300.000	90.000	179.890	10389.000	83.737	0.000	89.215	-0.000	83.737	0.000	0.000	89.351	41.541	-3.674	XOM_R2OWSG MWD+IFR1+MS
20400.000	90.000	179.890	10389.000	84.506	0.000	90.012	-0.000	84.506	0.000	0.000	90.147	41.593	-3.644	XOM_R2OWSG MWD+IFR1+MS
20500.000	90.000	179.890	10389.000	85.274	0.000	90.811	-0.000	85.274	0.000	0.000	90.945	41.646	-3.615	XOM_R2OWSG MWD+IFR1+MS
20600.000	90.000	179.890	10389.000	86.043	0.000	91.611	-0.000	86.043	0.000	0.000	91.745	41.699	-3.587	XOM_R2OWSG MWD+IFR1+MS
20700.000	90.000	179.890	10389.000	86.812	0.000	92.412	-0.000	86.812	0.000	0.000	92.546	41.753	-3.558	XOM_R2OWSG MWD+IFR1+MS
20800.000	90.000	179.890	10389.000	87.582	0.000	93.215	-0.000	87.582	0.000	0.000	93.348	41.807	-3.531	XOM_R2OWSG MWD+IFR1+MS
20900.000	90.000	179.890	10389.000	88.352	0.000	94.020	-0.000	88.352	0.000	0.000	94.152	41.862	-3.503	XOM_R2OWSG MWD+IFR1+MS
21000.000	90.000	179.890	10389.000	89.122	0.000	94.825	-0.000	89.122	0.000	0.000	94.957	41.917	-3.476	XOM_R2OWSG MWD+IFR1+MS
21100.000	90.000	179.890	10389.000	89.892	0.000	95.632	-0.000	89.892	0.000	0.000	95.763	41.973	-3.450	XOM_R2OWSG MWD+IFR1+MS
21200.000	90.000	179.890	10389.000	90.663	0.000	96.440	-0.000	90.663	0.000	0.000	96.571	42.030	-3.423	XOM_R2OWSG MWD+IFR1+MS
21300.000	90.000	179.890	10389.000	91.433	0.000	97.250	-0.000	91.433	0.000	0.000	97.380	42.087	-3.398	XOM_R2OWSG MWD+IFR1+MS
21400.000	90.000	179.890	10389.000	92.204	0.000	98.061	-0.000	92.204	0.000	0.000	98.190	42.144	-3.372	XOM_R2OWSG MWD+IFR1+MS

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21500.000	90.000	179.890	10389.000	92.976	0.000	98.873	-0.000	92.976	0.000	0.000	99.002	42.202	-3.347	XOM_R2OWSG MWD+IFR1+MS
21600.000	90.000	179.890	10389.000	93.747	0.000	99.686	-0.000	93.747	0.000	0.000	99.815	42.261	-3.323	XOM_R2OWSG MWD+IFR1+MS
21700.000	90.000	179.890	10389.000	94.519	0.000	100.500	-0.000	94.519	0.000	0.000	100.628	42.320	-3.298	XOM_R2OWSG MWD+IFR1+MS
21800.000	90.000	179.890	10389.000	95.291	0.000	101.315	-0.000	95.291	0.000	0.000	101.443	42.380	-3.274	XOM_R2OWSG MWD+IFR1+MS
21900.000	90.000	179.890	10389.000	96.063	0.000	102.132	-0.000	96.063	0.000	0.000	102.259	42.440	-3.251	XOM_R2OWSG MWD+IFR1+MS
22000.000	90.000	179.890	10389.000	96.835	0.000	102.949	-0.000	96.835	0.000	0.000	103.076	42.500	-3.227	XOM_R2OWSG MWD+IFR1+MS
22100.000	90.000	179.890	10389.000	97.608	0.000	103.768	-0.000	97.608	0.000	0.000	103.894	42.561	-3.204	XOM_R2OWSG MWD+IFR1+MS
22200.000	90.000	179.890	10389.000	98.381	0.000	104.588	-0.000	98.381	0.000	0.000	104.713	42.623	-3.182	XOM_R2OWSG MWD+IFR1+MS
22300.000	90.000	179.890	10389.000	99.153	0.000	105.408	-0.000	99.153	0.000	0.000	105.533	42.685	-3.159	XOM_R2OWSG MWD+IFR1+MS
22400.000	90.000	179.890	10389.000	99.927	0.000	106.230	-0.000	99.927	0.000	0.000	106.354	42.748	-3.137	XOM_R2OWSG MWD+IFR1+MS
22500.000	90.000	179.890	10389.000	100.700	0.000	107.052	-0.000	100.700	0.000	0.000	107.176	42.811	-3.115	XOM_R2OWSG MWD+IFR1+MS
22600.000	90.000	179.890	10389.000	101.473	0.000	107.876	-0.000	101.473	0.000	0.000	107.999	42.874	-3.094	XOM_R2OWSG MWD+IFR1+MS
22700.000	90.000	179.890	10389.000	102.247	0.000	108.700	-0.000	102.247	0.000	0.000	108.823	42.938	-3.073	XOM_R2OWSG MWD+IFR1+MS
22800.000	90.000	179.890	10389.000	103.021	0.000	109.525	-0.000	103.021	0.000	0.000	109.647	43.003	-3.052	XOM_R2OWSG MWD+IFR1+MS
22900.000	90.000	179.890	10389.000	103.795	0.000	110.351	-0.000	103.795	0.000	0.000	110.473	43.068	-3.031	XOM_R2OWSG MWD+IFR1+MS
23000.000	90.000	179.890	10389.000	104.569	0.000	111.178	-0.000	104.569	0.000	0.000	111.299	43.133	-3.011	XOM_R2OWSG MWD+IFR1+MS
23100.000	90.000	179.890	10389.000	105.343	0.000	112.006	-0.000	105.343	0.000	0.000	112.126	43.199	-2.991	XOM_R2OWSG MWD+IFR1+MS
23200.000	90.000	179.890	10389.000	106.118	0.000	112.834	-0.000	106.118	0.000	0.000	112.954	43.266	-2.971	XOM_R2OWSG MWD+IFR1+MS
23300.000	90.000	179.890	10389.000	106.892	0.000	113.663	-0.000	106.892	0.000	0.000	113.783	43.333	-2.952	XOM_R2OWSG MWD+IFR1+MS
23400.000	90.000	179.890	10389.000	107.667	0.000	114.494	-0.000	107.667	0.000	0.000	114.613	43.400	-2.932	XOM_R2OWSG MWD+IFR1+MS

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Well Plan Report															
8/24, 11:33 PM	23500.000	90.000	179.890	10389.000	108.442	0.000	115.324	-0.000	108.442	0.000	0.000	115.443	43.468	-2.913	XOM_R2OWSG MWD+IFR1+MS
	23600.000	90.000	179.890	10389.000	109.217	0.000	116.156	-0.000	109.217	0.000	0.000	116.274	43.536	-2.895	XOM_R2OWSG MWD+IFR1+MS
	23700.000	90.000	179.890	10389.000	109.992	0.000	116.988	-0.000	109.992	0.000	0.000	117.106	43.605	-2.876	XOM_R2OWSG MWD+IFR1+MS
	23800.000	90.000	179.890	10389.000	110.767	0.000	117.821	-0.000	110.767	0.000	0.000	117.938	43.674	-2.858	XOM_R2OWSG MWD+IFR1+MS
	23900.000	90.000	179.890	10389.000	111.543	0.000	118.655	-0.000	111.543	0.000	0.000	118.771	43.744	-2.840	XOM_R2OWSG MWD+IFR1+MS
	24000.000	90.000	179.890	10389.000	112.318	0.000	119.489	-0.000	112.318	0.000	0.000	119.605	43.814	-2.822	XOM_R2OWSG MWD+IFR1+MS
	24100.000	90.000	179.890	10389.000	113.094	0.000	120.324	-0.000	113.094	0.000	0.000	120.440	43.884	-2.804	XOM_R2OWSG MWD+IFR1+MS
	24200.000	90.000	179.890	10389.000	113.870	0.000	121.160	-0.000	113.870	0.000	0.000	121.275	43.956	-2.787	XOM_R2OWSG MWD+IFR1+MS
	24300.000	90.000	179.890	10389.000	114.646	0.000	121.996	-0.000	114.646	0.000	0.000	122.111	44.027	-2.770	XOM_R2OWSG MWD+IFR1+MS
	24400.000	90.000	179.890	10389.000	115.422	0.000	122.833	-0.000	115.422	0.000	0.000	122.947	44.099	-2.753	XOM_R2OWSG MWD+IFR1+MS
	24500.000	90.000	179.890	10389.000	116.198	0.000	123.671	-0.000	116.198	0.000	0.000	123.784	44.171	-2.736	XOM_R2OWSG MWD+IFR1+MS
	24600.000	90.000	179.890	10389.000	116.974	0.000	124.509	-0.000	116.974	0.000	0.000	124.622	44.244	-2.720	XOM_R2OWSG MWD+IFR1+MS
	24700.000	90.000	179.890	10389.000	117.751	0.000	125.347	-0.000	117.751	0.000	0.000	125.460	44.317	-2.703	XOM_R2OWSG MWD+IFR1+MS
	24800.000	90.000	179.890	10389.000	118.527	0.000	126.187	-0.000	118.527	0.000	0.000	126.299	44.391	-2.687	XOM_R2OWSG MWD+IFR1+MS
	24900.000	90.000	179.890	10389.000	119.304	0.000	127.026	-0.000	119.304	0.000	0.000	127.138	44.465	-2.671	XOM_R2OWSG MWD+IFR1+MS
	25000.000	90.000	179.890	10389.000	120.080	0.000	127.867	-0.000	120.080	0.000	0.000	127.978	44.540	-2.656	XOM_R2OWSG MWD+IFR1+MS
	25100.000	90.000	179.890	10389.000	120.857	0.000	128.708	-0.000	120.857	0.000	0.000	128.818	44.615	-2.640	XOM_R2OWSG MWD+IFR1+MS
	25200.000	90.000	179.890	10389.000	121.634	0.000	129.549	-0.000	121.634	0.000	0.000	129.659	44.690	-2.625	XOM_R2OWSG MWD+IFR1+MS
	25300.000	90.000	179.890	10389.000	122.411	0.000	130.391	-0.000	122.411	0.000	0.000	130.501	44.766	-2.609	XOM_R2OWSG MWD+IFR1+MS
	25400.000	90.000	179.890	10389.000	123.188	0.000	131.234	-0.000	123.188	0.000	0.000	131.343	44.842	-2.594	XOM_R2OWSG MWD+IFR1+MS

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Well Plan Report														
25500.000	90.000	179.890	10389.000	123.966	0.000	132.077	-0.000	123.966	0.000	0.000	132.185	44.919	-2.580	XOM_R2OWSG MWD+IFR1+MS
25600.000	90.000	179.890	10389.000	124.743	0.000	132.920	-0.000	124.743	0.000	0.000	133.028	44.996	-2.565	XOM_R2OWSG MWD+IFR1+MS
25700.000	90.000	179.890	10389.000	125.520	0.000	133.764	-0.000	125.520	0.000	0.000	133.872	45.073	-2.550	XOM_R2OWSG MWD+IFR1+MS
25800.000	90.000	179.890	10389.000	126.298	0.000	134.609	-0.000	126.298	0.000	0.000	134.716	45.151	-2.536	XOM_R2OWSG MWD+IFR1+MS
25900.000	90.000	179.890	10389.000	127.075	0.000	135.453	-0.000	127.075	0.000	0.000	135.560	45.229	-2.522	XOM_R2OWSG MWD+IFR1+MS
26000.000	90.000	179.890	10389.000	127.853	0.000	136.299	-0.000	127.853	0.000	0.000	136.405	45.308	-2.508	XOM_R2OWSG MWD+IFR1+MS
26100.000	90.000	179.890	10389.000	128.631	0.000	137.145	-0.000	128.631	0.000	0.000	137.250	45.387	-2.494	XOM_R2OWSG MWD+IFR1+MS
26200.000	90.000	179.890	10389.000	129.409	0.000	137.991	-0.000	129.409	0.000	0.000	138.096	45.467	-2.480	XOM_R2OWSG MWD+IFR1+MS
26300.000	90.000	179.890	10389.000	130.187	0.000	138.838	-0.000	130.187	0.000	0.000	138.942	45.547	-2.467	XOM_R2OWSG MWD+IFR1+MS
26400.000	90.000	179.890	10389.000	130.965	0.000	139.685	-0.000	130.965	0.000	0.000	139.789	45.627	-2.453	XOM_R2OWSG MWD+IFR1+MS
26500.000	90.000	179.890	10389.000	131.743	0.000	140.532	-0.000	131.743	0.000	0.000	140.636	45.708	-2.440	XOM_R2OWSG MWD+IFR1+MS
26600.000	90.000	179.890	10389.000	132.521	0.000	141.380	-0.000	132.521	0.000	0.000	141.484	45.789	-2.427	XOM_R2OWSG MWD+IFR1+MS
26700.000	90.000	179.890	10389.000	133.299	0.000	142.228	-0.000	133.299	0.000	0.000	142.331	45.870	-2.414	XOM_R2OWSG MWD+IFR1+MS
26800.000	90.000	179.890	10389.000	134.077	0.000	143.077	-0.000	134.077	0.000	0.000	143.180	45.952	-2.401	XOM_R2OWSG MWD+IFR1+MS
26900.000	90.000	179.890	10389.000	134.856	0.000	143.926	-0.000	134.856	0.000	0.000	144.028	46.035	-2.389	XOM_R2OWSG MWD+IFR1+MS
26997.119	90.000	179.890	10389.000	135.612	0.000	144.751	-0.000	135.612	0.000	0.000	144.853	46.115	-2.376	XOM_R2OWSG MWD+IFR1+MS
27000.000	90.000	179.890	10389.000	135.634	0.000	144.776	-0.000	135.634	0.000	0.000	144.877	46.117	-2.376	XOM_R2OWSG MWD+IFR1+MS
27087.687	90.000	179.890	10389.000	136.317	0.000	145.521	-0.000	136.317	0.000	0.000	145.622	46.190	-2.365	XOM_R2OWSG MWD+IFR1+MS

Plan Targets	Poker Lake Unit 27 BD 512H													Grid Easting	TVD MSL	Target Shape
	Measured Depth															

Well Plan Report

Target Name

FTP 7
LTP 7
BHL 7

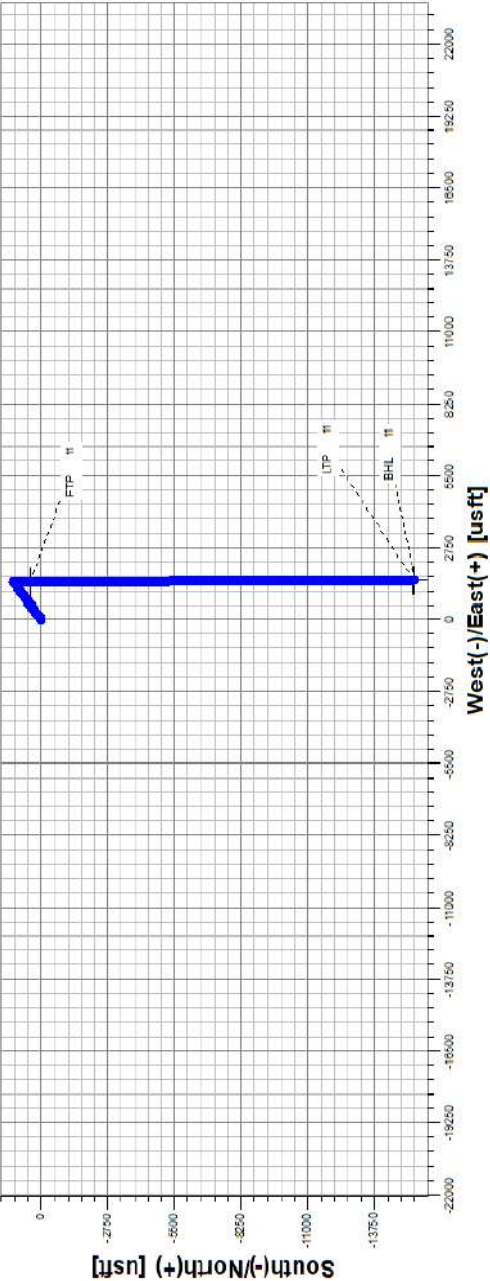
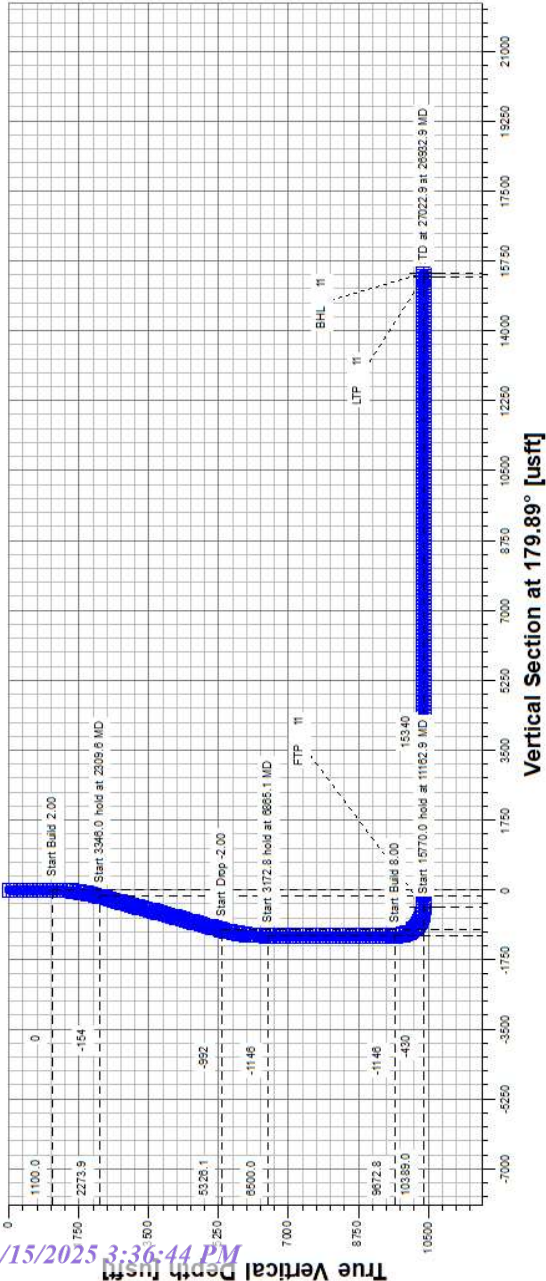
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(ft)
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(ft)
643388.40
643418.80
643419.40

(ft)
7092.00 CIRCLE
7092.00 CIRCLE
7092.00 CIRCLE

Poker Lake Unit 27 BD 512H



Formation	TVDSS (feet)	TVD (feet)
Rustler	2,286'	1,011'
Salado	1,994'	1,303'
Base of Salt	-369'	3,665'
Delaware	-575'	3,872'
Cherry Canyon	-1,535'	4,832'
Brushy Canyon	-2,707'	6,004'
Basal Brushy Canyon	-4,129'	7,426'
Bone Spring Lm.	-4,380'	7,677'
Avalon Shale	-4,527'	7,824'
Lower Avalon Shale	-4,903'	8,200'
1st Bone Spring Lime	-5,111'	8,408'
1st Bone Spring Sand	-5,343'	8,640'
2nd Bone Spring Shale	-5,612'	8,909'
2nd Bone Spring Lime	-5,826'	9,123'
2nd Bone Spring Sand	-6,207'	9,504'
3rd Bone Spring Lime	-6,527'	9,824'
Harkey	-6,871'	10,168'
3rd Bone Spring Shale	-6,912'	10,209'
3rd Shale Landing	-7,092'	10,389'



HBE0000479

20" x 9-5/8" x 7-5/8" x 5-1/2" MBU-T-CFL-R-DBLO Wellhead
With 11" 10M x 7-1/16" 15M CTH-DBLHPS Tubing Head
And 9-5/8", 7-5/8" & 5-1/2" Pin Bottom Mandrel Casing Hangers

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

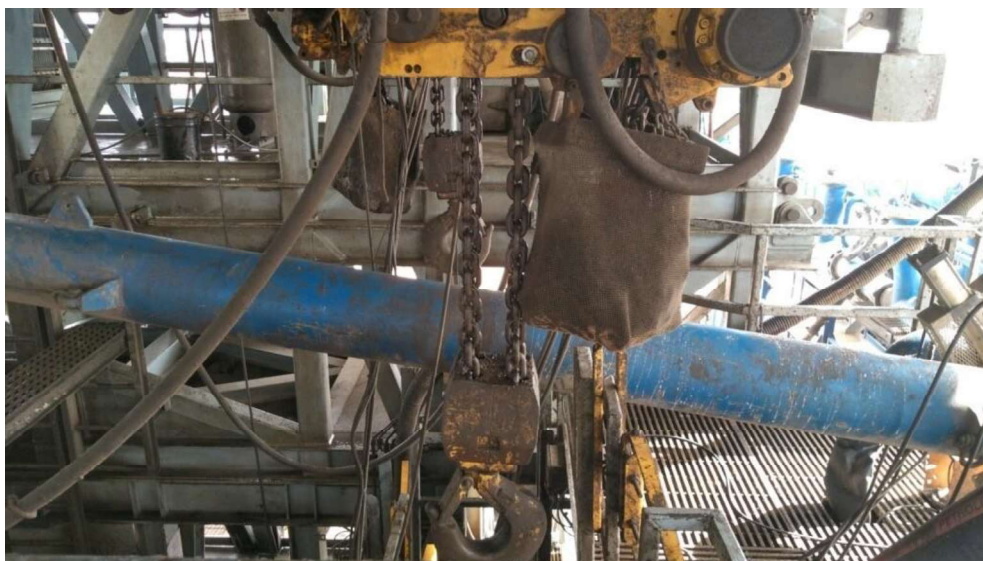


Figure 2: BOP Winch System

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.

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API STANDARD 53

Table C.4—Initial Pressure Testing, Surface BOP Stacks

Component to be Pressure Tested	Pressure Test—Low Pressure ^{a,c} psig (MPa)	Pressure Test—High Pressure ^{a,c}	
		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 ^{b,d}	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

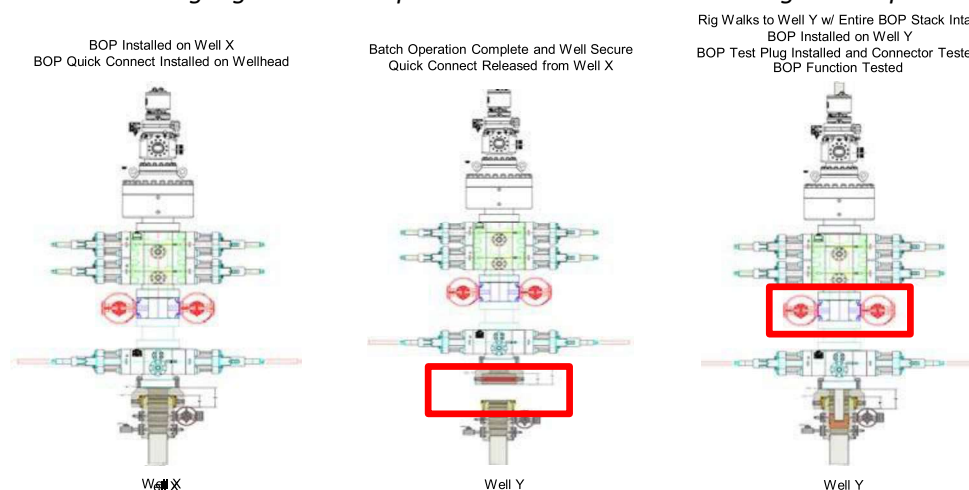
each BOP nipple up, XTO Energy performs a choke drill with the rig crew prior to drilling out every casing shoe. This is additional training for the rig crew that exceeds the requirements of the CFR Title 43 Part 3170.

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



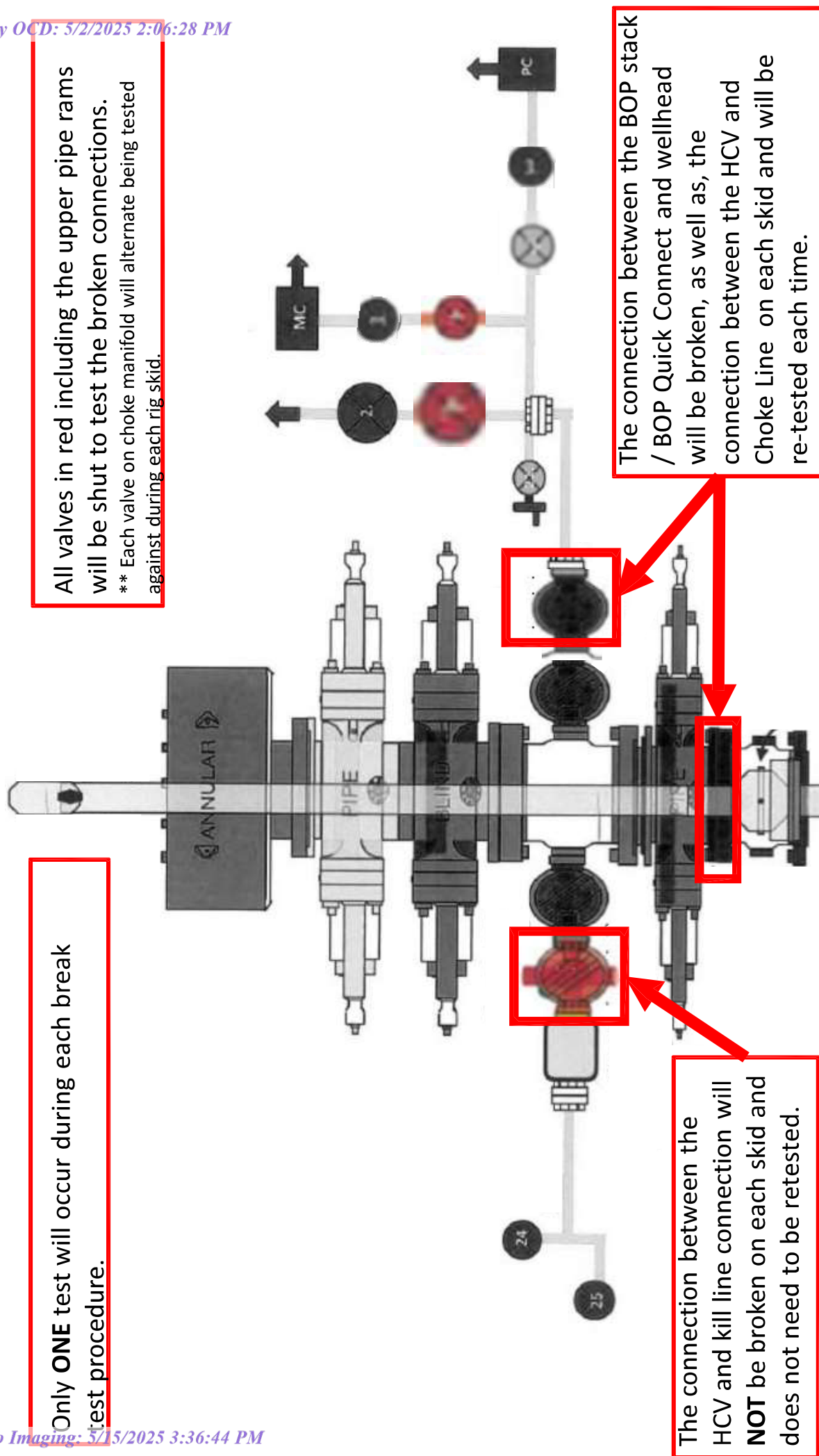
Summary

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.

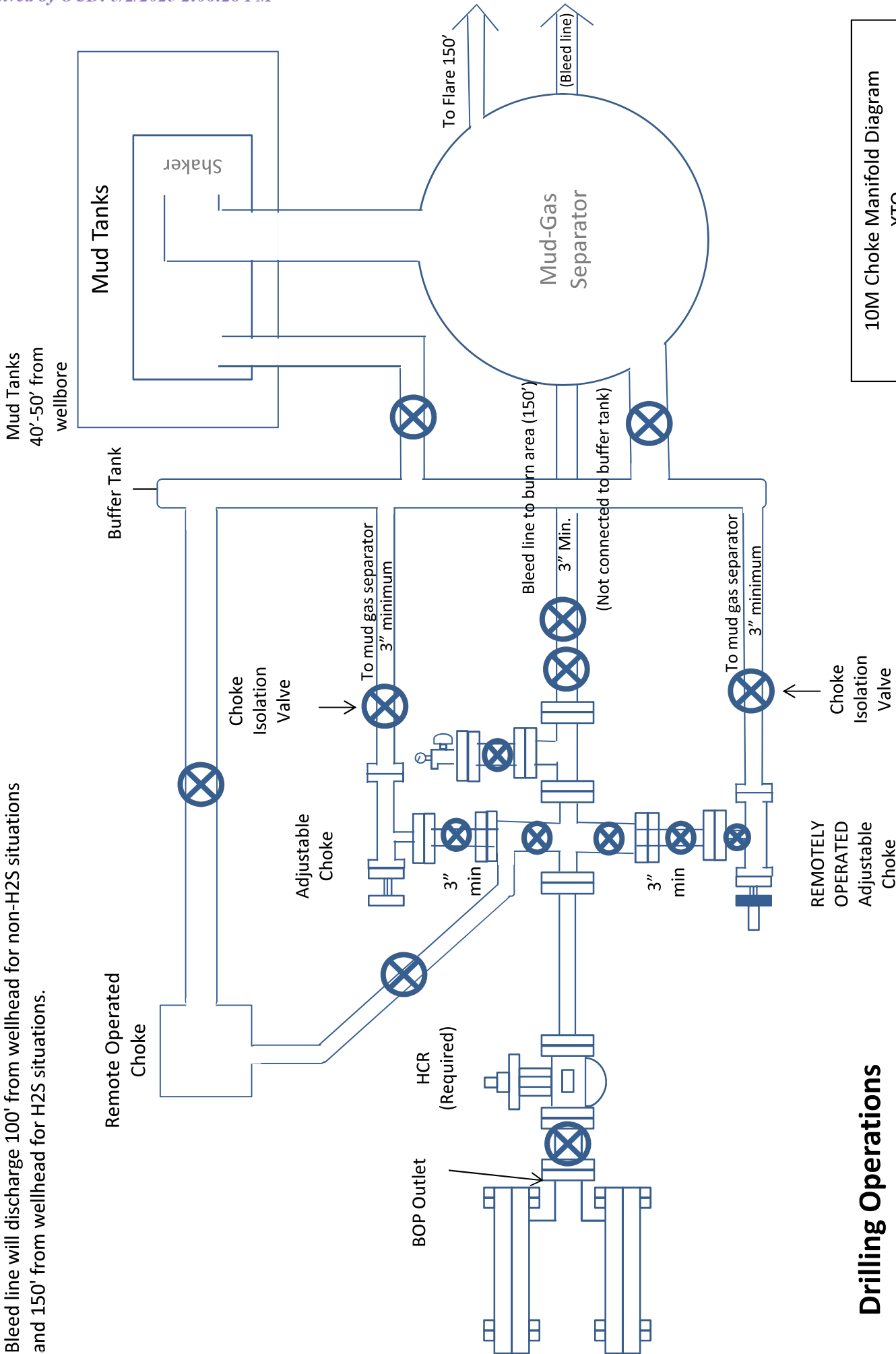
The BOP will be secured by a hydraulic carrier or cradle. The BLM will be contacted if a Well Control event occurs prior to the commencement of a BOPE Break Testing operation.

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.

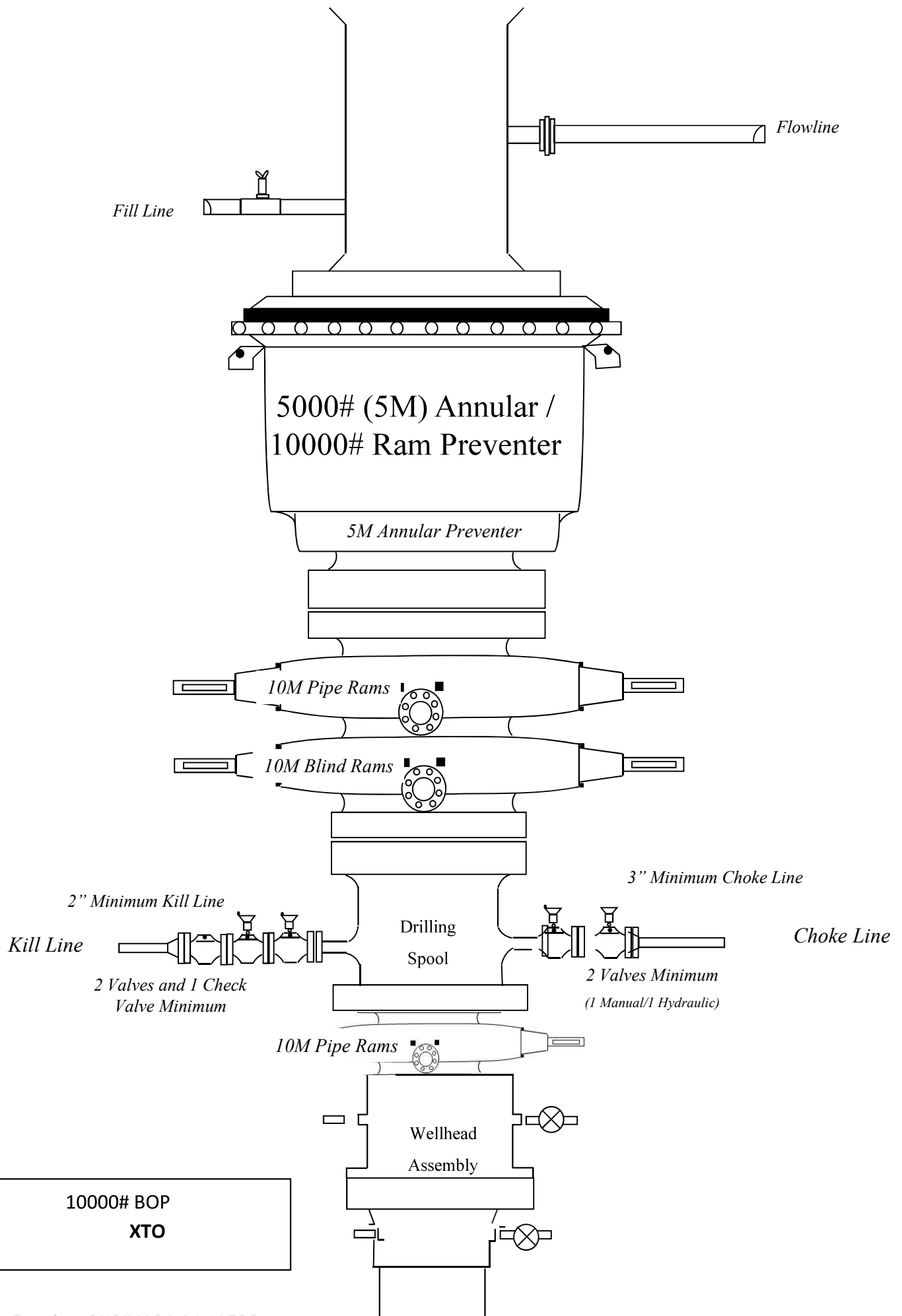


Bleed line will discharge 100' from wellhead for non-H2S situations and 150' from wellhead for H2S situations.



10M Choke Manifold Diagram
XTO

**Drilling Operations
Choke Manifold
10M Service**



**BLACK GOLD®**

GATES ENGINEERING & SERVICES NORTH AMERICA
7603 Prairie Oak Dr.
Houston, TX. 77086

PHONE: +1 (281) 602-4100**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

1/25/2024 11:48:06 AM

TEST REPORT

CUSTOMER

Company: Nabors Industries Inc.

Production description: 74621/66-1531

Sales order #: 529480

Customer reference: FG1213

TEST OBJECT

Serial number: H3-012524-1

Lot number:

Description: 74621/66-1531

Hose ID: 3" 16C CK

Part number:

TEST INFORMATION

Test procedure: GTS-04-053

Test pressure: 15000.00 psi

Test pressure hold: 3600.00 sec

Work pressure: 10000.00 psi

Work pressure hold: 900.00 sec

Length difference: 0.00 %

Length difference: 0.00 inch

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

Part number:

Description:

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

Part number:

Description:

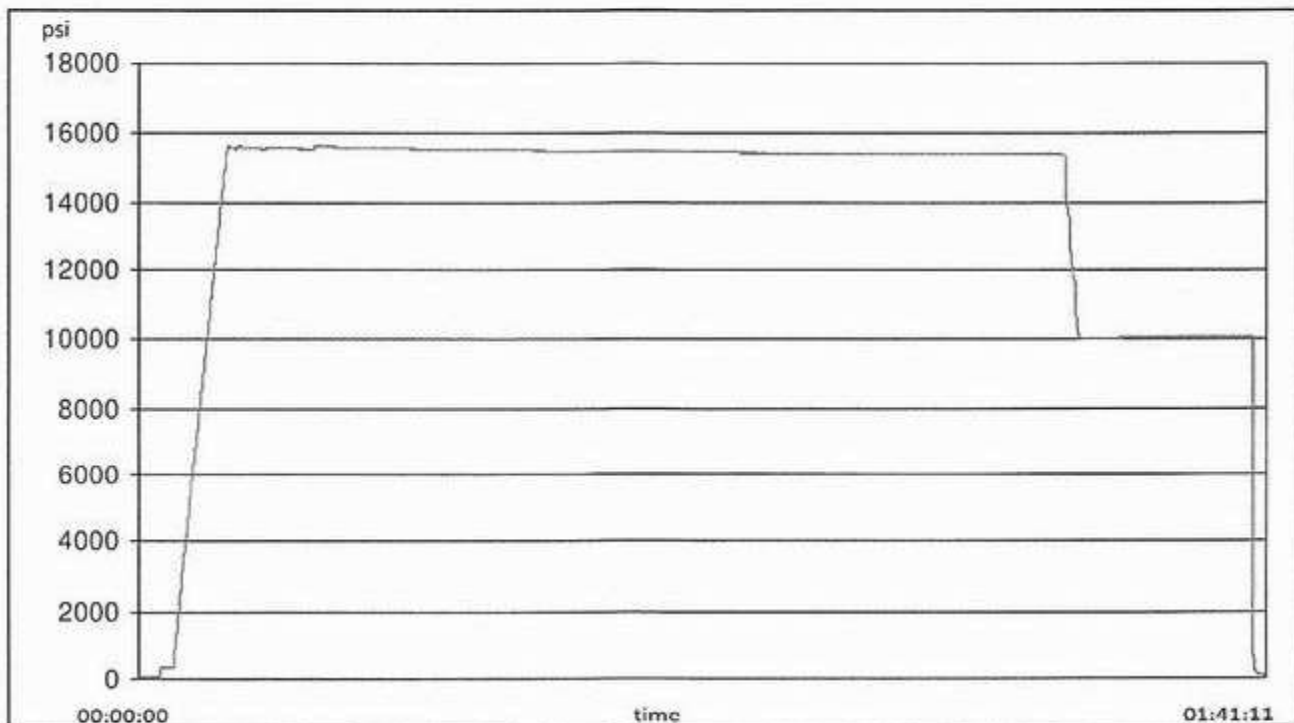
Visual check:

Pressure test result: PASS

Length measurement result:

Length: 45 feet

Test operator: Travis





H3-15/16

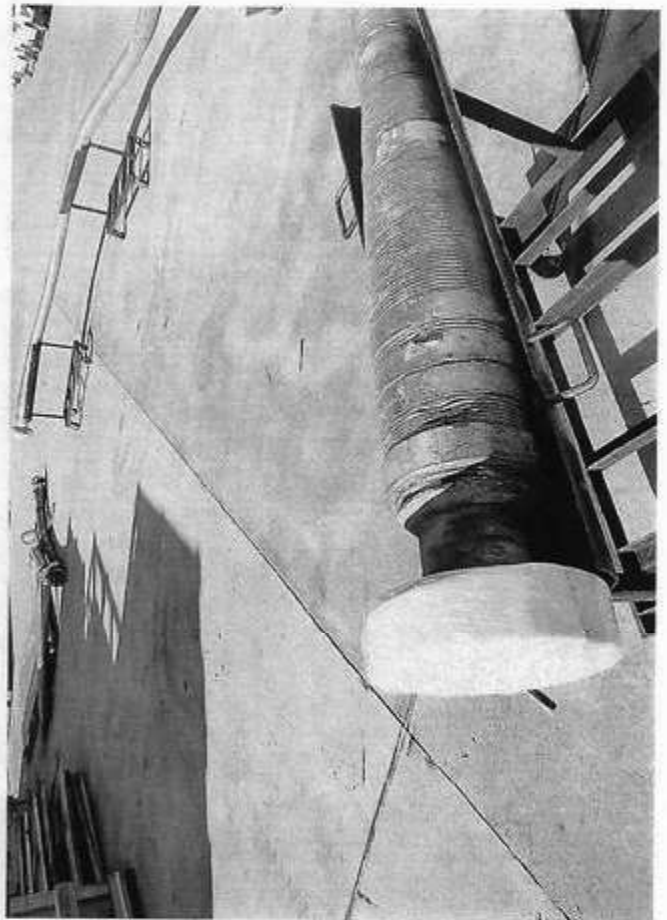
1/25/2024 11:48:06 AM

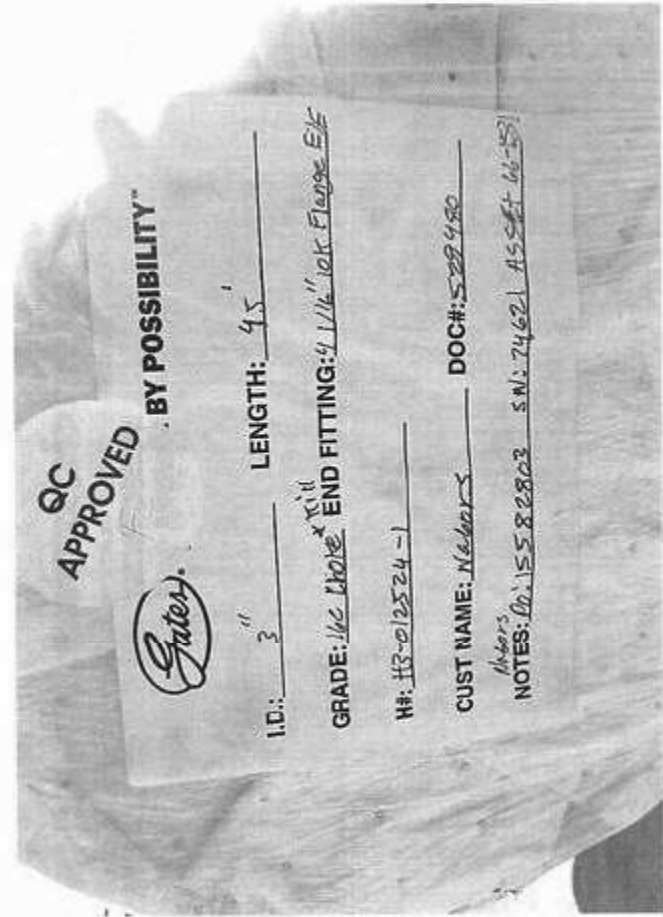
TEST REPORT

GAUGE TRACEABILITY

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

Comment





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.

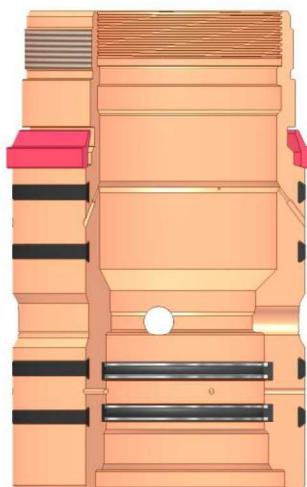
1. Cement Program

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

2. Offline Cementing Procedure

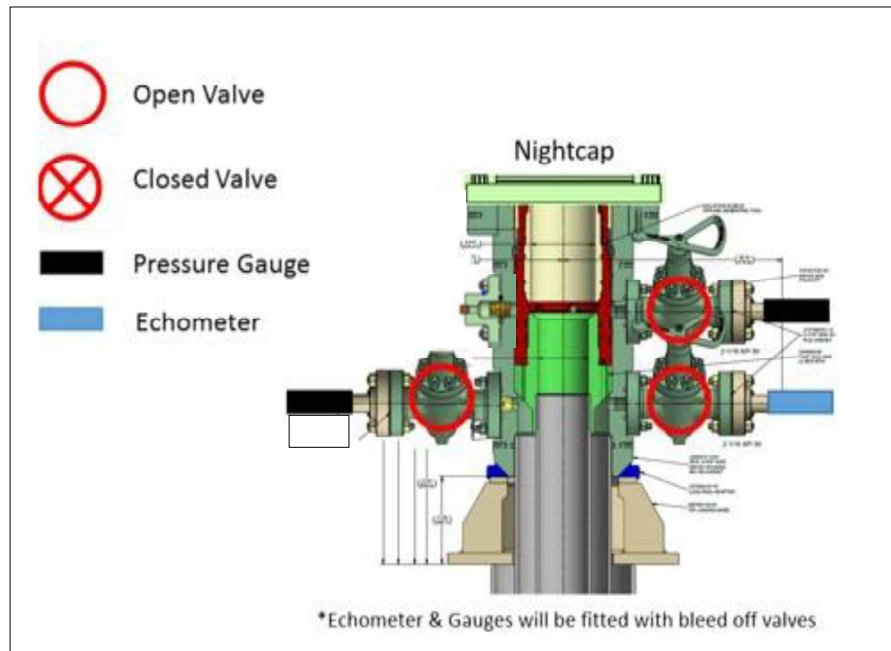
The operational sequence will be as follows. If a well control event occurs, the BLM will be contacted for approval prior to conducting offline cementing operations.

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.



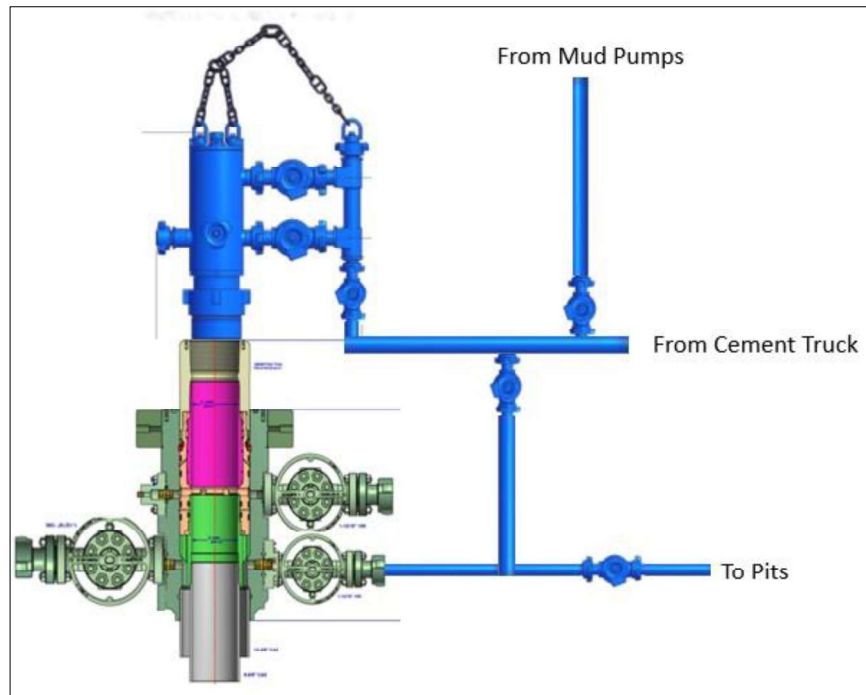
Annular packoff with both external and internal seals

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.	Body Yield Strength	641 x1000 lb
Nominal Weight	20.00 lb/ft	Plain End Weight	19.83 lb/ft	Min. Internal Yield Pressure	12,640 psi
Drift	4.653 in.	OD Tolerance	API	SMYS	110,000 psi
Nominal ID	4,778 in.			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	Operation Limit Torques	
Connection OD Option	Regular	Max. Allowable Bending	92 °/100 ft	Operating Torque	26,350 ft-lb
		External Pressure Capacity	11,100 psi	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: P110-4C	Grade: P110-4C
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	P110-4C
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.	Body Yield Strength	683 x1000 lb
Nominal Weight	29.70 lb/ft	Plain End Weight	29.06 lb/ft	Min. Internal Yield Pressure	6890 psi
Drift	6.750 in.	OD Tolerance	API	SMYS	80,000 psi
Nominal ID	6.875 in.			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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Phone: (505) 476-3441

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Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

CONDITIONS

Action 458151

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 458151
	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