U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Sundry Print Report
05/02/2025

Well Name: POKER LAKE UNIT 27 BD	**Well Location:** T25S / R30E / SEC 27 / NWSW / 32.099164 / -103.875645	**County or Parish/State:** EDDY / NM
Well Number: 511H	**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: 2840007

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 03/04/2025

Time Sundry Submitted: 02:19

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 & 600' FWL OF SECTION 27-T25S-R30E 2145' FSL & 598' FWL OF SECTION 27-T25S-R30E KOP: 1955' FSL & 600' FWL OF SECTION 27-T25S-R30E 2047’ FNL & 1828’ FWL OF SECTION 27-T25S-R30E FTP: 2640' FSL & 1210' FWL OF SECTION 27-T25S-R30E 2563' FSL & 1830' FWL OF SECTION 27-T25S-R30E LTP: 2510' FNL & 1210' FWL OF SECTION 10-T26S-R30E 2559' FNL & 1830' FWL OF SECTION 10-T26S-R30E BHL: 2560' FNL & 1210' FWL OF SECTION 10-T26S-R30E 2649' FNL & 1830' FWL OF SECTION 10-T26S-R30E The proposed total depth is changing from 25798’ MD; 9483’ TVD to 26237’ MD; 9629’ TVD. There is no new surface disturbance.

NOI Attachments

Procedure Description

Poker_Lake_Unit_27_BD_511H_Sundry_Docs_20250304141622.pdf

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US Well Number:	**Operator:** XTO PERMIAN OPERATING LLC	

Conditions of Approval

Additional

Poker_Lake_Unit_27_BD_511H_COA_20250411163918.pdf

Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: TERRA SEBASTIAN

Signed on: MAR 04, 2025 02:19 PM

Name: XTO PERMIAN OPERATING LLC

Title: Regulatory Advisor

Street Address: 6401 HOLIDAY HILL ROAD SUITE 200

City: MIDLAND **State:** TX

Phone: (432) 999-3107

Email address: TERRA.B.SEBASTIAN@EXXONMOBIL.COM

Field

Representative Name:

Street Address:

City: **State:** **Zip:**

Phone:

Email address:

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752342234

BLM POC Email Address: cwalls@blm.gov

Disposition: Approved

Disposition Date: 05/02/2025

Signature: Chris Walls

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE *- Other instructions on page 2*

5. Lease Serial No. NMLC063875A

6. If Indian, Allottee or Tribe Name

7. If Unit of CA/Agreement, Name and/or No. POKER LAKE UNIT/NMNM71016X

1. Type of Well
☑ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No. POKER LAKE UNIT 27 BD/511H

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			
☑ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☑ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be 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 & 600' FWL OF SECTION 27-T25S-R30E 2145' FSL & 598' FWL OF SECTION 27-T25S-R30E
KOP: 1955' FSL & 600' FWL OF SECTION 27-T25S-R30E 2047 FNL & 1828 FWL OF SECTION 27-T25S-R30E
FTP: 2640' FSL & 1210' FWL OF SECTION 27-T25S-R30E 2563' FSL & 1830' FWL OF SECTION 27-T25S-R30E
LTP: 2510' FNL & 1210' FWL OF SECTION 10-T26S-R30E 2559' FNL & 1830' FWL OF SECTION 10-T26S-R30E
BHL: 2560' FNL & 1210' FWL OF SECTION 10-T26S-R30E 2649' FNL & 1830' FWL OF SECTION 10-T26S-R30E

The proposed total depth is changing from 25798 MD; 9483 TVD to 26237 MD; 9629 TVD.

Continued on page 3 additional information

14. I hereby certify that the foregoing is true and correct. Name *(Printed/Typed)* TERRA SEBASTIAN / Ph: (432) 999-3107

Title Regulatory Advisor

Signature (Electronic Submission)

Date 03/04/2025

THE SPACE FOR FEDERAL OR STATE OFICE USE

Approved by CHRISTOPHER WALLS / Ph: (575) 234-2234 / Approved

Title Petroleum Engineer

Date 05/02/2025

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office CARLSBAD

Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.
AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.
PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c)and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.
ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.
EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:
The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.
Response to this request is mandatory.
The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect ofthis form to U.S. Department ofthe Interior, Bureau ofLand 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 / 600 FWL / TWSP: 25S / RANGE: 30E / SECTION: 27 / LAT: 32.099164 / LONG: -103.875645 (TVD: 0 feet, MD: 0 feet)

PPP: NWNW / 0 FNL / 1210 FWL / TWSP: 25S / RANGE: 30E / SECTION: 34 / LAT: 32.092371 / LONG: -103.87368 (TVD: 9483 feet, MD: 12700 feet)

PPP: NWSW / 2640 FSL / 1210 FWL / TWSP: 25S / RANGE: 30E / SECTION: 27 / LAT: 32.101056 / LONG: -103.873664 (TVD: 9483 feet, MD: 10000 feet)

PPP: NWNW / 0 FNL / 1233 FWL / TWSP: 26S / RANGE: 30E / SECTION: 3 / LAT: 32.079157 / LONG: -103.873724 (TVD: 9483 feet, MD: 18000 feet)

BHL: SWNW / 2560 FNL / 1210 FWL / TWSP: 26S / RANGE: 30E / SECTION: 10 / LAT: 32.057498 / LONG: -103.873782 (TVD: 9483 feet, MD: 25799 feet)

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 511H
SURFACE HOLE FOOTAGE:	2145'/S & 598'/W
BOTTOM HOLE FOOTAGE:	2649'/N & 1830'/W

*Changes approved through engineering via **Sundry 2840007** on _4-11-2025____. Any previous COAs not addressed within the updated COAs still apply.*

COA

H_2S	○ No		○ Yes	
Potash / WIPP	◉ None	○ Secretary	○ R-111-Q	☐ Open Annulus
	Choose an option (including blank option.)			☐ WIPP
Cave / Karst	◉ Low	○ Medium	○ High	○ Critical
Wellhead	○ Conventional	◉ Multibowl	○ Both	○ Diverter
Cementing	☑ Primary Squeeze	☐ Cont. Squeeze	☑ EchoMeter	☐ DV Tool
Special Req	☐ Capitan Reef	☐ Water Disposal	☐ COM	☑ Unit
Waste Prev.	○ Self-Certification	○ Waste Min. Plan	◉ APD Submitted prior to 06/10/2024	
Additional Language	☑ Flex Hose	☑ Casing Clearance	☐ Pilot Hole	☑ Break Testing
	☐ Four-String	☑ Offline Cementing	☐ Fluid-Filled	

A. HYDROGEN SULFIDE

Hydrogen Sulfide (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	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024
Submit Electronically Via OCD Permitting		Submittal Type: ☐ Initial Submittal ☒ Amended Report ☐ As Drilled

WELL LOCATION INFORMATION

API Number	Pool Code	Pool Name
30-015	(97814)	Wildcat G-015 S263001O; Bone Spring

Property Code	Property Name	Well Number
	POKER LAKE UNIT 27 BD	511H

ORGID No.	Operator Name	Ground Level Elevation
373075	XTO PERMIAN OPERATING, LLC.	3,264'

Surface Owner: ☐ State ☐ Fee ☐ Tribal ☐ Federal

Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
L	27	25 S	30 E		2,145' FSL	598' FWL	32.099687	-103.875648	EDDY

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
F	10	26 S	30 E		2,649' FNL	1,830' FWL	32.057259	-103.871780	EDDY

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
480	DEFINING		N	U

Order Numbers.

Well setbacks are under Common Ownership: ☒ Yes ☐ No

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
F	27	25 S	30 E		2,047' FNL	1,828' FWL	32.102823	-103.871658	EDDY

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
K	27	25 S	30 E		2,563' FSL	1,830' FWL	32.100854	-103.871663	EDDY

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
F	10	26 S	30 E		2,559' FNL	1,830' FWL	32.057506	-103.871781	EDDY

Unitized Area or Area of Uniform Interest	Spacing Unit Type	Ground Floor Elevation:
NMNM-071016X	☒ Horizontal ☐ Vertical	3,264'

OPERATOR CERTIFICATIONS

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.

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.

Terra Sebastian — 3/4/2025

Signature — Date

Terra Sebastian

Printed Name

terra.b.sebastian@exxonmobil.com

Email Address

SURVEYOR CERTIFICATIONS

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, 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.

22 Jan 2025

TIM C. PAPPAS
REGISTERED PROFESSIONAL LAND SURVEYOR
STATE OF NEW MEXICO NO. 21209

TIM C. PAPPAS NEW MEXICO 21209 PROFESSIONAL SURVEYOR

Signature and Seal of Professional Surveyor

Certificate Number	Date of Survey
TIM C. PAPPAS 21209	01/22/2025

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.

FSC INC SURVEYORS+ENGINEERS
2821 West 7th Street., Ste 200 - Fort Worth, TX 76107
Ph: 817.349.9800 - Fax: 979.732.5271
TBPE Firm 17957 | TBPLS Firm 10193887
www.fscinc.net

DATE:	1-22-2025	PROJECT NO:	2023040148
DRAWN BY:	LM	SCALE:	1" = 2,000'
CHECKED BY:	CH	SHEET:	1 OF 2
FIELD CREW:	IR	REVISION:	

ACREAGE DEDICATION PLATS

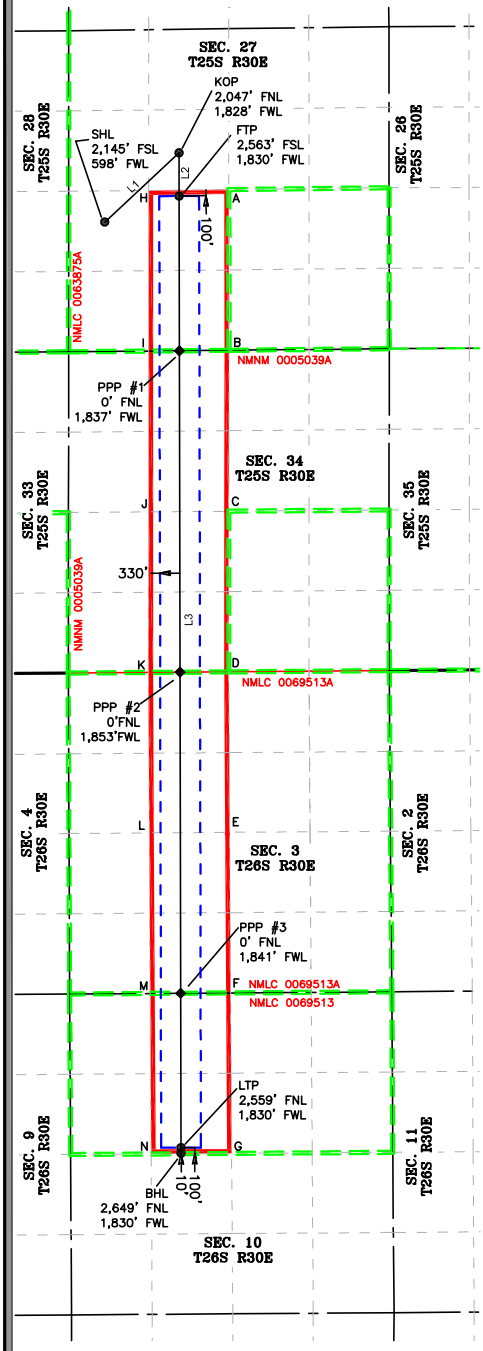
This grid represents a standard section. You may superimpose a non-standard section, or a larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the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

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

LEGEND

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

LINE TABLE		
LINE	AZIMUTH	LENGTH
L1	47° 02'03"	1,681.73'
L2	179° 53'20"	716.42'
L3	179° 53'09"	15,859.25'



COORDINATE TABLE					
SHL (NAD 83 NME)			LTP (NAD 83 NME)		
Y =	400,303.6	N	Y =	384,964.1	N
X =	683,061.6	E	X =	684,324.6	E
LAT. =	32.099687	°N	LAT. =	32.057506	°N
LONG. =	103.875648	°W	LONG. =	103.871781	°W
KOP (NAD 83 NME)			BHL (NAD 83 NME)		
Y =	401,449.8	N	Y =	384,874.1	N
X =	684,292.2	E	X =	684,325.2	E
LAT. =	32.102823	°N	LAT. =	32.057259	°N
LONG. =	103.871658	°W	LONG. =	103.871780	°W
FTP (NAD 83 NME)					
Y =	400,733.4	N			
X =	684,293.6	E			
LAT. =	32.100854	°N			
LONG. =	103.871663	°W			
SHL (NAD 27 NME)			LTP (NAD 27 NME)		
Y =	400,245.4	N	Y =	384,906.5	N
X =	641,876.4	E	X =	643,138.8	E
LAT. =	32.099562	°N	LAT. =	32.057381	°N
LONG. =	103.875166	°W	LONG. =	103.871301	°W
KOP (NAD 27 NME)			BHL (NAD 27 NME)		
Y =	401,391.8	N	Y =	384,816.5	N
X =	643,107.0	E	X =	643,139.4	E
LAT. =	32.102699	°N	LAT. =	32.057134	°N
LONG. =	103.871176	°W	LONG. =	103.871301	°W
FTP (NAD 27 NME)					
Y =	400,675.4	N			
X =	643,108.4	E			
LAT. =	32.100730	°N			
LONG. =	103.871182	°W			
PPP #1 (NAD 83 NME)			PPP #1 (NAD 27 NME)		
Y =	398,170.1	N	Y =	398,112.2	N
X =	684,298.6	E	X =	643,113.3	E
LAT. =	32.093808	°N	LAT. =	32.093683	°N
LONG. =	103.871682	°W	LONG. =	103.871201	°W
PPP #2 (NAD 83 NME)			PPP #2 (NAD 27 NME)		
Y =	392,842.6	N	Y =	392,784.8	N
X =	684,309.1	E	X =	643,123.6	E
LAT. =	32.079163	°N	LAT. =	32.079038	°N
LONG. =	103.871722	°W	LONG. =	103.871242	°W
PPP #3 (NAD 83 NME)			PPP #3 (NAD 27 NME)		
Y =	387,523.1	N	Y =	387,465.5	N
X =	684,319.6	E	X =	643,133.9	E
LAT. =	32.064540	°N	LAT. =	32.064416	°N
LONG. =	103.871762	°W	LONG. =	103.871282	°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

FSC INC
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TBPE Firm 17957 | TBPLS Firm 10193887
www.fscinc.net

DATE:	1-22-2025	PROJECT NO:	2023040148
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)

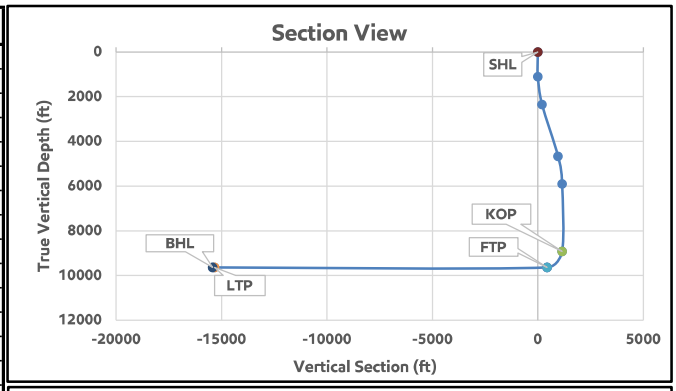
ExxonMobil
Poker Lake Unit 27 BD - 511H
Projected TD: 26237' MD / 9629' TVD
SHL: 2145' FSL & 598' FWL , Section 27, T25S, R30E
BHL: 2649' FNL & 1830' FWL , Section 10, T26S, R30E
Eddy County, NM

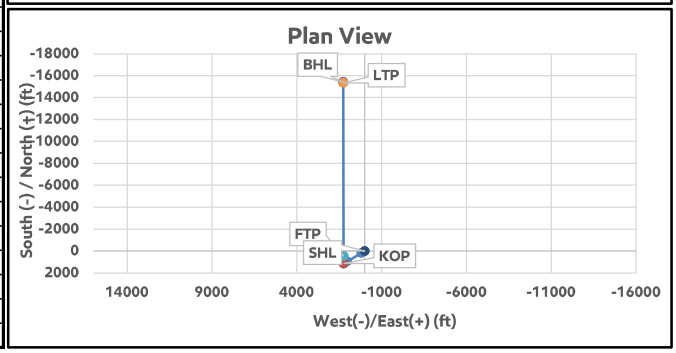
1. Geologic Name of Surface Formation

A. Quaternary

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

Formation	Well Depth	Water/Oil/Gas
Rustler	1040'	Water
Salado	1331'	Water
Base of Salt	3671'	Water
Delaware	3863'	Water
Cherry Canyon	4804'	Water/Oil/Gas
Brushy Canyon	5945'	Water/Oil/Gas
Basal Brushy Canyon	7396'	Water/Oil/Gas
Bone Spring Lm.	7660'	Water/Oil/Gas
Avalon Shale	7804'	Water/Oil/Gas
Lower Avalon Shale	8225'	Water/Oil/Gas
1st Bone Spring Lime	8390'	Water/Oil/Gas
1st Bone Spring Sand	8609'	Water/Oil/Gas
2nd Bone Spring Shale	8879'	Water/Oil/Gas
2nd Bone Spring Lime	9089'	Water/Oil/Gas
2nd Bone Spring Sand	9469'	Water/Oil/Gas
2nd BS Sand Lower Landing	9629'	Water/Oil/Gas
3rd Bone Spring Lime	9760'	Water/Oil/Gas





	Inclination (°)	Azimuth (°)	True Vertical Depth (ft)	Y Offset (ft)	X Offset (ft)
SHL	0	0	0	0	0
KOP	0	0	8913	1146	1231
LP	90	180	9629	430	1232
FTP	90	180	9629	430	1232
LTP	90	180	9629	-15339	1262
BHL	90	180	9629	-15430	1263

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 1306' 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' – 1306'	1299'	9-5/8"	40	J55	BTC	New	9.87	4.57	4.80
8.75	0' – 9053'	8435'	7-5/8"	29.7	L80-IC	Tenaris Wedge 511	New	3.35	3.23	2.49
6.75	0' – 8853'	8513'	5-1/2"	20	P110-CY	TPN	New	1.18	3.01	2.64
6.75	8853' – 26237'	9629'	5-1/2"	20	P110-IC	Tenaris Wedge 441	New	1.18	2.95	2.69

Section 3 Summary:

XTO will keep casing fluid filled to meet BLM's collapse requirement.
The planned kick off point is located at: 9253' MD / 8913' 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	299	12.4	2.11	0	1,306	100%	
Surface 1	Tail	141	14.8	1.33	1006	1,306	100%	
Intermediate 1	Lead							
Intermediate 1	Tail	291	14.8	1.45	5945	9,053	35%	
Production 1	Lead							
Production 1	Tail	1333	13.2	1.44	8553	26,237	30%	

Remedial Cementing

Casing	Slurry Type	No. Sacks	Density (ppg)	Yield (ft3/sack)	Cemented Interval	Excess (%)	Slurry Description
Intermediate 1	Bradenhead Squeeze	618	14.8	1.45	0 - 5945'	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 (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)	Comments

0' – 1306'	12.25"	FW/Native	8.3 - 8.7	35-40	NC	Fresh Water or Native Water
1306' – 9053'	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.
9053' – 8853'	6.75"	OBM	9 - 9.6	50-60	NC - 20	OBM or Cut Brine depending on Well Conditions
8853' – 26237'	6.75"	OBM	9 - 9.6	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 162F to 182F. 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 511H

Measured Depth:	26237.11 ft	**Site:**	B
TVD RKB:	9629.00 ft	**Slot:**	Poker Lake Unit 27 BD 511H
Location			
Cartographic Reference System:	New Mexico East - NAD 27		
Northing:	400245.40 ft		
Easting:	641876.40 ft		
RKB:	3296.00 ft		
Ground Level:	3264.00 ft		
North Reference:	Grid		
Convergence Angle:	0.24 Deg		

Plan Sections Poker Lake Unit 27 BD 511H

Measured Depth (ft)	Inclination (Deg)	Azimuth (Deg)	TVD RKB (ft)	Y Offset (ft)	X Offset (ft)	Build Rate (Deg/100ft)	Turn Rate (Deg/100ft)	Dogleg Rate (Deg/100ft)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	0.00	
2385.65	25.71	47.03	2342.93	193.34	207.58	2.00	0.00	2.00	
4954.13	25.71	47.03	4657.07	952.85	1023.04	0.00	0.00	0.00	
6239.78	0.00	0.00	5900.00	1146.20	1230.62	-2.00	0.00	2.00	
9252.58	0.00	0.00	8912.80	1146.20	1230.62	0.00	0.00	0.00	
10377.58	90.00	179.89	9629.00	430.00	1232.00	8.00	0.00	8.00	FTP 5
26146.51	90.00	179.89	9629.00	-15338.90	1262.40	0.00	0.00	0.00	LTP 5
26237.11	90.00	179.89	9629.00	-15429.50	1262.57	0.00	0.00	0.00	BHL 5

Position Uncertainty Poker Lake Unit 27 BD 511H

Measured	TVD	Highside	Lateral	Vertical	Magnitude	Semi-major	Semi-minor	Semi-minor	Tool

Depth (ft)	Inclination (°)	Azimuth (°)	RKB (ft)	Error (ft)	Bias (ft)	Error (ft)	Bias (ft)	Error (ft)	Bias (ft)	of Bias (ft)	Error (ft)	Error (ft)	Azimuth (°)	Used
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	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	0.000	0.358	0.179	90.000	XOM_R2OWSG MWD+IFR1+MS
200.000	0.000	0.000	200.000	0.717	0.000	0.538	0.000	2.309	0.000	0.000	0.717	0.538	90.000	XOM_R2OWSG MWD+IFR1+MS
300.000	0.000	0.000	300.000	1.075	0.000	0.896	0.000	2.325	0.000	0.000	1.075	0.896	90.000	XOM_R2OWSG MWD+IFR1+MS
400.000	0.000	0.000	400.000	1.434	0.000	1.255	0.000	2.347	0.000	0.000	1.434	1.255	90.000	XOM_R2OWSG MWD+IFR1+MS
500.000	0.000	0.000	500.000	1.792	0.000	1.613	0.000	2.373	0.000	0.000	1.792	1.613	90.000	XOM_R2OWSG MWD+IFR1+MS
600.000	0.000	0.000	600.000	2.151	0.000	1.972	0.000	2.406	0.000	0.000	2.151	1.972	90.000	XOM_R2OWSG MWD+IFR1+MS
700.000	0.000	0.000	700.000	2.509	0.000	2.330	0.000	2.442	0.000	0.000	2.509	2.330	90.000	XOM_R2OWSG MWD+IFR1+MS
800.000	0.000	0.000	800.000	2.868	0.000	2.689	0.000	2.484	0.000	0.000	2.868	2.689	90.000	XOM_R2OWSG MWD+IFR1+MS
900.000	0.000	0.000	900.000	3.226	0.000	3.047	0.000	2.530	0.000	0.000	3.226	3.047	90.000	XOM_R2OWSG MWD+IFR1+MS
1000.000	0.000	0.000	1000.000	3.585	0.000	3.405	0.000	2.579	0.000	0.000	3.585	3.405	90.000	XOM_R2OWSG MWD+IFR1+MS
1100.000	0.000	0.000	1100.000	3.943	0.000	3.764	0.000	2.632	0.000	0.000	3.943	3.764	90.000	XOM_R2OWSG MWD+IFR1+MS
1200.000	2.000	47.034	1199.980	4.202	0.000	4.216	0.000	2.688	0.000	0.000	4.299	4.119	90.083	XOM_R2OWSG MWD+IFR1+MS
1300.000	4.000	47.034	1299.838	4.549	0.000	4.570	0.000	2.745	0.000	0.000	4.655	4.472	90.399	XOM_R2OWSG MWD+IFR1+MS
1400.000	6.000	47.034	1399.452	4.892	0.000	4.924	0.000	2.803	0.000	0.000	5.012	4.825	90.720	XOM_R2OWSG MWD+IFR1+MS
1500.000	8.000	47.034	1498.702	5.231	0.000	5.279	0.000	2.862	0.000	0.000	5.370	5.178	90.942	XOM_R2OWSG MWD+IFR1+MS
1600.000	10.000	47.034	1597.465	5.565	0.000	5.636	0.000	2.923	0.000	0.000	5.731	5.532	90.964	XOM_R2OWSG MWD+IFR1+MS
1700.000	12.000	47.034	1695.623	5.896	0.000	5.996	0.000	2.986	0.000	0.000	6.094	5.887	90.696	XOM_R2OWSG MWD+IFR1+MS
1800.000	14.000	47.034	1793.055	6.223	0.000	6.360	0.000	3.051	0.000	0.000	6.460	6.243	90.057	XOM_R2OWSG MWD+IFR1+MS

1900.000	16.000	47.034	1889.643	6.548	0.000	6.728	0.000	3.122	0.000	0.000	6.829	6.601	88.978	XOM_R2OWSG MWD+IFR1+MS
2000.000	18.000	47.034	1985.268	6.870	0.000	7.104	0.000	3.197	0.000	0.000	7.204	6.962	87.407	XOM_R2OWSG MWD+IFR1+MS
2100.000	20.000	47.034	2079.816	7.190	0.000	7.487	0.000	3.279	0.000	0.000	7.585	7.326	85.320	XOM_R2OWSG MWD+IFR1+MS
2200.000	22.000	47.034	2173.169	7.509	0.000	7.880	0.000	3.370	0.000	0.000	7.975	7.693	82.740	XOM_R2OWSG MWD+IFR1+MS
2300.000	24.000	47.034	2265.215	7.829	0.000	8.284	0.000	3.472	0.000	0.000	8.374	8.063	79.748	XOM_R2OWSG MWD+IFR1+MS
2385.652	25.713	47.034	2342.929	8.102	0.000	8.640	0.000	3.567	0.000	0.000	8.725	8.383	77.056	XOM_R2OWSG MWD+IFR1+MS
2400.000	25.713	47.034	2355.856	8.160	0.000	8.701	0.000	3.579	0.000	0.000	8.785	8.438	76.800	XOM_R2OWSG MWD+IFR1+MS
2500.000	25.713	47.034	2445.954	8.566	0.000	9.129	0.000	3.723	0.000	0.000	9.206	8.808	73.287	XOM_R2OWSG MWD+IFR1+MS
2600.000	25.713	47.034	2536.052	8.979	0.000	9.567	0.000	3.875	0.000	0.000	9.637	9.181	70.477	XOM_R2OWSG MWD+IFR1+MS
2700.000	25.713	47.034	2626.150	9.397	0.000	10.011	0.000	4.034	0.000	0.000	10.078	9.558	68.225	XOM_R2OWSG MWD+IFR1+MS
2800.000	25.713	47.034	2716.248	9.820	0.000	10.462	0.000	4.200	0.000	0.000	10.525	9.939	66.407	XOM_R2OWSG MWD+IFR1+MS
2900.000	25.713	47.034	2806.346	10.248	0.000	10.919	0.000	4.371	0.000	0.000	10.979	10.323	64.922	XOM_R2OWSG MWD+IFR1+MS
3000.000	25.713	47.034	2896.443	10.679	0.000	11.380	0.000	4.548	0.000	0.000	11.439	10.710	63.694	XOM_R2OWSG MWD+IFR1+MS
3100.000	25.713	47.034	2986.541	11.114	0.000	11.846	0.000	4.728	0.000	0.000	11.903	11.099	62.666	XOM_R2OWSG MWD+IFR1+MS
3200.000	25.713	47.034	3076.639	11.551	0.000	12.316	0.000	4.913	0.000	0.000	12.371	11.491	61.798	XOM_R2OWSG MWD+IFR1+MS
3300.000	25.713	47.034	3166.737	11.991	0.000	12.789	0.000	5.102	0.000	0.000	12.843	11.886	61.055	XOM_R2OWSG MWD+IFR1+MS
3400.000	25.713	47.034	3256.835	12.434	0.000	13.265	0.000	5.294	0.000	0.000	13.319	12.282	60.414	XOM_R2OWSG MWD+IFR1+MS
3500.000	25.713	47.034	3346.933	12.878	0.000	13.744	0.000	5.490	0.000	0.000	13.797	12.680	59.857	XOM_R2OWSG MWD+IFR1+MS
3600.000	25.713	47.034	3437.031	13.325	0.000	14.226	0.000	5.687	0.000	0.000	14.278	13.081	59.368	XOM_R2OWSG MWD+IFR1+MS
3700.000	25.713	47.034	3527.128	13.773	0.000	14.709	0.000	5.888	0.000	0.000	14.762	13.483	58.937	XOM_R2OWSG MWD+IFR1+MS

3800.000	25.713	47.034	3617.226	14.223	0.000	15.195	0.000	6.091	0.000	0.000	15.247	13.886	58.553	XOM_R2OWSG MWD+IFR1+MS
3900.000	25.713	47.034	3707.324	14.674	0.000	15.683	0.000	6.296	0.000	0.000	15.734	14.291	58.210	XOM_R2OWSG MWD+IFR1+MS
4000.000	25.713	47.034	3797.422	15.126	0.000	16.172	0.000	6.503	0.000	0.000	16.223	14.697	57.902	XOM_R2OWSG MWD+IFR1+MS
4100.000	25.713	47.034	3887.520	15.580	0.000	16.662	0.000	6.712	0.000	0.000	16.714	15.104	57.624	XOM_R2OWSG MWD+IFR1+MS
4200.000	25.713	47.034	3977.618	16.035	0.000	17.154	0.000	6.923	0.000	0.000	17.206	15.513	57.372	XOM_R2OWSG MWD+IFR1+MS
4300.000	25.713	47.034	4067.715	16.490	0.000	17.648	0.000	7.136	0.000	0.000	17.700	15.922	57.142	XOM_R2OWSG MWD+IFR1+MS
4400.000	25.713	47.034	4157.813	16.947	0.000	18.142	0.000	7.350	0.000	0.000	18.194	16.333	56.932	XOM_R2OWSG MWD+IFR1+MS
4500.000	25.713	47.034	4247.911	17.404	0.000	18.638	0.000	7.566	0.000	0.000	18.690	16.744	56.739	XOM_R2OWSG MWD+IFR1+MS
4600.000	25.713	47.034	4338.009	17.863	0.000	19.134	0.000	7.784	0.000	0.000	19.187	17.156	56.562	XOM_R2OWSG MWD+IFR1+MS
4700.000	25.713	47.034	4428.107	18.321	0.000	19.632	0.000	8.003	0.000	0.000	19.685	17.569	56.398	XOM_R2OWSG MWD+IFR1+MS
4800.000	25.713	47.034	4518.205	18.781	0.000	20.130	0.000	8.223	0.000	0.000	20.183	17.983	56.247	XOM_R2OWSG MWD+IFR1+MS
4900.000	25.713	47.034	4608.302	19.241	0.000	20.629	0.000	8.444	0.000	0.000	20.683	18.398	56.106	XOM_R2OWSG MWD+IFR1+MS
4954.129	25.713	47.034	4657.071	19.490	0.000	20.899	0.000	8.565	0.000	0.000	20.953	18.623	56.037	XOM_R2OWSG MWD+IFR1+MS
5000.000	24.796	47.034	4698.558	19.733	0.000	21.126	0.000	8.668	0.000	0.000	21.180	18.812	55.982	XOM_R2OWSG MWD+IFR1+MS
5100.000	22.796	47.034	4790.052	20.238	0.000	21.609	0.000	8.884	0.000	0.000	21.664	19.223	55.894	XOM_R2OWSG MWD+IFR1+MS
5200.000	20.796	47.034	4882.899	20.710	0.000	22.074	0.000	9.088	0.000	0.000	22.130	19.630	55.848	XOM_R2OWSG MWD+IFR1+MS
5300.000	18.796	47.034	4976.985	21.148	0.000	22.521	0.000	9.280	0.000	0.000	22.578	20.032	55.840	XOM_R2OWSG MWD+IFR1+MS
5400.000	16.796	47.034	5072.195	21.551	0.000	22.950	0.000	9.458	0.000	0.000	23.007	20.429	55.863	XOM_R2OWSG MWD+IFR1+MS
5500.000	14.796	47.034	5168.414	21.918	0.000	23.360	0.000	9.625	0.000	0.000	23.419	20.818	55.910	XOM_R2OWSG MWD+IFR1+MS
5600.000	12.796	47.034	5265.525	22.247	0.000	23.752	0.000	9.780	0.000	0.000	23.812	21.200	55.977	XOM_R2OWSG MWD+IFR1+MS

5700.000	10.796	47.034	5363.408	22.540	0.000	24.127	0.000	9.924	0.000	0.000	24.188	21.572	56.059	XOM_R2OWSG MWD+IFR1+MS
5800.000	8.796	47.034	5461.945	22.795	0.000	24.485	0.000	10.058	0.000	0.000	24.547	21.934	56.152	XOM_R2OWSG MWD+IFR1+MS
5900.000	6.796	47.034	5561.016	23.011	0.000	24.826	0.000	10.183	0.000	0.000	24.889	22.284	56.252	XOM_R2OWSG MWD+IFR1+MS
6000.000	4.796	47.034	5660.500	23.189	0.000	25.151	0.000	10.300	0.000	0.000	25.215	22.624	56.355	XOM_R2OWSG MWD+IFR1+MS
6100.000	2.796	47.034	5760.275	23.329	0.000	25.460	0.000	10.411	0.000	0.000	25.526	22.951	56.457	XOM_R2OWSG MWD+IFR1+MS
6200.000	0.796	47.034	5860.221	23.431	0.000	25.756	0.000	10.515	0.000	0.000	25.822	23.265	56.554	XOM_R2OWSG MWD+IFR1+MS
6239.780	0.000	0.000	5900.000	25.191	0.000	24.188	0.000	10.555	0.000	0.000	25.938	23.386	56.589	XOM_R2OWSG MWD+IFR1+MS
6300.000	0.000	0.000	5960.220	25.370	0.000	24.365	0.000	10.615	0.000	0.000	26.112	23.567	56.640	XOM_R2OWSG MWD+IFR1+MS
6400.000	0.000	0.000	6060.220	25.667	0.000	24.659	0.000	10.718	0.000	0.000	26.404	23.869	56.724	XOM_R2OWSG MWD+IFR1+MS
6500.000	0.000	0.000	6160.220	25.966	0.000	24.955	0.000	10.823	0.000	0.000	26.697	24.172	56.807	XOM_R2OWSG MWD+IFR1+MS
6600.000	0.000	0.000	6260.220	26.266	0.000	25.253	0.000	10.931	0.000	0.000	26.992	24.476	56.888	XOM_R2OWSG MWD+IFR1+MS
6700.000	0.000	0.000	6360.220	26.568	0.000	25.553	0.000	11.041	0.000	0.000	27.288	24.782	56.969	XOM_R2OWSG MWD+IFR1+MS
6800.000	0.000	0.000	6460.220	26.871	0.000	25.853	0.000	11.154	0.000	0.000	27.586	25.090	57.048	XOM_R2OWSG MWD+IFR1+MS
6900.000	0.000	0.000	6560.220	27.176	0.000	26.156	0.000	11.271	0.000	0.000	27.885	25.398	57.125	XOM_R2OWSG MWD+IFR1+MS
7000.000	0.000	0.000	6660.220	27.482	0.000	26.459	0.000	11.390	0.000	0.000	28.186	25.708	57.202	XOM_R2OWSG MWD+IFR1+MS
7100.000	0.000	0.000	6760.220	27.789	0.000	26.764	0.000	11.512	0.000	0.000	28.488	26.020	57.277	XOM_R2OWSG MWD+IFR1+MS
7200.000	0.000	0.000	6860.220	28.097	0.000	27.071	0.000	11.637	0.000	0.000	28.791	26.332	57.352	XOM_R2OWSG MWD+IFR1+MS
7300.000	0.000	0.000	6960.220	28.407	0.000	27.378	0.000	11.765	0.000	0.000	29.095	26.646	57.425	XOM_R2OWSG MWD+IFR1+MS
7400.000	0.000	0.000	7060.220	28.718	0.000	27.687	0.000	11.896	0.000	0.000	29.401	26.960	57.497	XOM_R2OWSG MWD+IFR1+MS
7500.000	0.000	0.000	7160.220	29.029	0.000	27.997	0.000	12.030	0.000	0.000	29.708	27.276	57.568	XOM_R2OWSG MWD+IFR1+MS

7600.000	0.000	0.000	7260.220	29.342	0.000	28.308	0.000	12.167	0.000	0.000	30.016	27.593	57.638	XOM_R2OWSG MWD+IFR1+MS
7700.000	0.000	0.000	7360.220	29.656	0.000	28.621	0.000	12.307	0.000	0.000	30.325	27.911	57.707	XOM_R2OWSG MWD+IFR1+MS
7800.000	0.000	0.000	7460.220	29.971	0.000	28.934	0.000	12.451	0.000	0.000	30.636	28.229	57.775	XOM_R2OWSG MWD+IFR1+MS
7900.000	0.000	0.000	7560.220	30.287	0.000	29.248	0.000	12.597	0.000	0.000	30.947	28.549	57.842	XOM_R2OWSG MWD+IFR1+MS
8000.000	0.000	0.000	7660.220	30.604	0.000	29.564	0.000	12.747	0.000	0.000	31.259	28.870	57.908	XOM_R2OWSG MWD+IFR1+MS
8100.000	0.000	0.000	7760.220	30.921	0.000	29.880	0.000	12.900	0.000	0.000	31.573	29.191	57.973	XOM_R2OWSG MWD+IFR1+MS
8200.000	0.000	0.000	7860.220	31.240	0.000	30.197	0.000	13.056	0.000	0.000	31.887	29.514	58.037	XOM_R2OWSG MWD+IFR1+MS
8300.000	0.000	0.000	7960.220	31.559	0.000	30.516	0.000	13.215	0.000	0.000	32.202	29.837	58.101	XOM_R2OWSG MWD+IFR1+MS
8400.000	0.000	0.000	8060.220	31.880	0.000	30.835	0.000	13.378	0.000	0.000	32.518	30.161	58.163	XOM_R2OWSG MWD+IFR1+MS
8500.000	0.000	0.000	8160.220	32.201	0.000	31.155	0.000	13.544	0.000	0.000	32.835	30.485	58.225	XOM_R2OWSG MWD+IFR1+MS
8600.000	0.000	0.000	8260.220	32.523	0.000	31.475	0.000	13.713	0.000	0.000	33.153	30.811	58.285	XOM_R2OWSG MWD+IFR1+MS
8700.000	0.000	0.000	8360.220	32.845	0.000	31.797	0.000	13.886	0.000	0.000	33.472	31.137	58.345	XOM_R2OWSG MWD+IFR1+MS
8800.000	0.000	0.000	8460.220	33.169	0.000	32.119	0.000	14.062	0.000	0.000	33.791	31.464	58.404	XOM_R2OWSG MWD+IFR1+MS
8900.000	0.000	0.000	8560.220	33.493	0.000	32.443	0.000	14.241	0.000	0.000	34.111	31.791	58.463	XOM_R2OWSG MWD+IFR1+MS
9000.000	0.000	0.000	8660.220	33.817	0.000	32.766	0.000	14.423	0.000	0.000	34.432	32.120	58.520	XOM_R2OWSG MWD+IFR1+MS
9100.000	0.000	0.000	8760.220	34.143	0.000	33.091	0.000	14.609	0.000	0.000	34.754	32.448	58.577	XOM_R2OWSG MWD+IFR1+MS
9200.000	0.000	0.000	8860.220	34.469	0.000	33.416	0.000	14.798	0.000	0.000	35.077	32.778	58.633	XOM_R2OWSG MWD+IFR1+MS
9252.583	0.000	0.000	8912.803	34.641	0.000	33.588	0.000	14.899	0.000	0.000	35.246	32.951	58.662	XOM_R2OWSG MWD+IFR1+MS
9300.000	3.793	179.890	8960.185	34.445	0.000	33.731	-0.000	14.990	0.000	0.000	35.390	33.098	58.630	XOM_R2OWSG MWD+IFR1+MS
9400.000	11.793	179.890	9059.181	33.582	0.000	34.013	-0.000	15.175	0.000	0.000	35.657	33.373	58.355	XOM_R2OWSG MWD+IFR1+MS

9500.000	19.793	179.890	9155.328	32.177	0.000	34.270	-0.000	15.356	0.000	0.000	35.896	33.614	57.915	XOM_R2OWSG MWD+IFR1+MS
9600.000	27.793	179.890	9246.754	30.286	0.000	34.499	-0.000	15.539	0.000	0.000	36.102	33.822	57.292	XOM_R2OWSG MWD+IFR1+MS
9700.000	35.793	179.890	9331.680	27.994	0.000	34.700	-0.000	15.733	0.000	0.000	36.271	33.996	56.507	XOM_R2OWSG MWD+IFR1+MS
9800.000	43.793	179.890	9408.454	25.425	0.000	34.874	-0.000	15.944	0.000	0.000	36.403	34.140	55.595	XOM_R2OWSG MWD+IFR1+MS
9900.000	51.793	179.890	9475.580	22.749	0.000	35.021	-0.000	16.181	0.000	0.000	36.499	34.258	54.607	XOM_R2OWSG MWD+IFR1+MS
10000.000	59.793	179.890	9531.752	20.209	0.000	35.143	-0.000	16.451	0.000	0.000	36.560	34.355	53.603	XOM_R2OWSG MWD+IFR1+MS
10100.000	67.793	179.890	9575.877	18.142	0.000	35.241	-0.000	16.760	0.000	0.000	36.588	34.439	52.653	XOM_R2OWSG MWD+IFR1+MS
10200.000	75.793	179.890	9607.096	16.949	0.000	35.316	-0.000	17.107	0.000	0.000	36.588	34.515	51.850	XOM_R2OWSG MWD+IFR1+MS
10300.000	83.793	179.890	9624.802	16.951	0.000	35.369	-0.000	17.491	0.000	0.000	36.564	34.588	51.320	XOM_R2OWSG MWD+IFR1+MS
10377.583	90.000	179.890	9629.000	17.809	0.000	35.394	-0.000	17.809	0.000	0.000	36.531	34.646	51.231	XOM_R2OWSG MWD+IFR1+MS
10400.000	90.000	179.890	9629.000	17.903	0.000	35.398	-0.000	17.903	0.000	0.000	36.520	34.663	51.261	XOM_R2OWSG MWD+IFR1+MS
10500.000	90.000	179.890	9629.000	18.340	0.000	35.438	-0.000	18.340	0.000	0.000	36.477	34.750	51.075	XOM_R2OWSG MWD+IFR1+MS
10600.000	90.000	179.890	9629.000	18.799	0.000	35.500	-0.000	18.799	0.000	0.000	36.443	34.850	50.487	XOM_R2OWSG MWD+IFR1+MS
10700.000	90.000	179.890	9629.000	19.279	0.000	35.584	-0.000	19.279	0.000	0.000	36.418	34.962	49.383	XOM_R2OWSG MWD+IFR1+MS
10800.000	90.000	179.890	9629.000	19.779	0.000	35.689	-0.000	19.779	0.000	0.000	36.405	35.085	47.601	XOM_R2OWSG MWD+IFR1+MS
10900.000	90.000	179.890	9629.000	20.297	0.000	35.815	-0.000	20.297	0.000	0.000	36.406	35.216	44.919	XOM_R2OWSG MWD+IFR1+MS
11000.000	90.000	179.890	9629.000	20.831	0.000	35.963	-0.000	20.831	0.000	0.000	36.425	35.350	41.070	XOM_R2OWSG MWD+IFR1+MS
11100.000	90.000	179.890	9629.000	21.381	0.000	36.131	-0.000	21.381	0.000	0.000	36.469	35.480	35.850	XOM_R2OWSG MWD+IFR1+MS
11200.000	90.000	179.890	9629.000	21.946	0.000	36.320	-0.000	21.946	0.000	0.000	36.549	35.596	29.377	XOM_R2OWSG MWD+IFR1+MS
11300.000	90.000	179.890	9629.000	22.523	0.000	36.530	-0.000	22.523	0.000	0.000	36.671	35.689	22.356	XOM_R2OWSG MWD+IFR1+MS

11400.000	90.000	179.890	9629.000	23.113	0.000	36.759	-0.000	23.113	0.000	0.000	36.839	35.758	15.821	XOM_R2OWSG MWD+IFR1+MS
11500.000	90.000	179.890	9629.000	23.714	0.000	37.008	-0.000	23.714	0.000	0.000	37.049	35.804	10.460	XOM_R2OWSG MWD+IFR1+MS
11600.000	90.000	179.890	9629.000	24.325	0.000	37.276	-0.000	24.325	0.000	0.000	37.294	35.835	6.377	XOM_R2OWSG MWD+IFR1+MS
11700.000	90.000	179.890	9629.000	24.946	0.000	37.562	-0.000	24.946	0.000	0.000	37.568	35.856	3.361	XOM_R2OWSG MWD+IFR1+MS
11800.000	90.000	179.890	9629.000	25.576	0.000	37.867	-0.000	25.576	0.000	0.000	37.868	35.870	1.145	XOM_R2OWSG MWD+IFR1+MS
11900.000	90.000	179.890	9629.000	26.215	0.000	38.190	-0.000	26.215	0.000	0.000	38.190	35.880	-0.494	XOM_R2OWSG MWD+IFR1+MS
12000.000	90.000	179.890	9629.000	26.861	0.000	38.530	-0.000	26.861	0.000	0.000	38.532	35.887	-1.717	XOM_R2OWSG MWD+IFR1+MS
12100.000	90.000	179.890	9629.000	27.515	0.000	38.888	-0.000	27.515	0.000	0.000	38.893	35.893	-2.640	XOM_R2OWSG MWD+IFR1+MS
12200.000	90.000	179.890	9629.000	28.175	0.000	39.261	-0.000	28.175	0.000	0.000	39.272	35.899	-3.341	XOM_R2OWSG MWD+IFR1+MS
12300.000	90.000	179.890	9629.000	28.841	0.000	39.651	-0.000	28.841	0.000	0.000	39.667	35.905	-3.877	XOM_R2OWSG MWD+IFR1+MS
12400.000	90.000	179.890	9629.000	29.513	0.000	40.057	-0.000	29.513	0.000	0.000	40.078	35.911	-4.289	XOM_R2OWSG MWD+IFR1+MS
12500.000	90.000	179.890	9629.000	30.191	0.000	40.477	-0.000	30.191	0.000	0.000	40.504	35.917	-4.605	XOM_R2OWSG MWD+IFR1+MS
12600.000	90.000	179.890	9629.000	30.874	0.000	40.912	-0.000	30.874	0.000	0.000	40.945	35.923	-4.846	XOM_R2OWSG MWD+IFR1+MS
12700.000	90.000	179.890	9629.000	31.561	0.000	41.362	-0.000	31.561	0.000	0.000	41.399	35.931	-5.030	XOM_R2OWSG MWD+IFR1+MS
12800.000	90.000	179.890	9629.000	32.253	0.000	41.825	-0.000	32.253	0.000	0.000	41.868	35.938	-5.167	XOM_R2OWSG MWD+IFR1+MS
12900.000	90.000	179.890	9629.000	32.949	0.000	42.301	-0.000	32.949	0.000	0.000	42.349	35.947	-5.268	XOM_R2OWSG MWD+IFR1+MS
13000.000	90.000	179.890	9629.000	33.649	0.000	42.790	-0.000	33.649	0.000	0.000	42.843	35.956	-5.340	XOM_R2OWSG MWD+IFR1+MS
13100.000	90.000	179.890	9629.000	34.353	0.000	43.292	-0.000	34.353	0.000	0.000	43.349	35.967	-5.387	XOM_R2OWSG MWD+IFR1+MS
13200.000	90.000	179.890	9629.000	35.060	0.000	43.806	-0.000	35.060	0.000	0.000	43.867	35.977	-5.416	XOM_R2OWSG MWD+IFR1+MS
13300.000	90.000	179.890	9629.000	35.770	0.000	44.331	-0.000	35.770	0.000	0.000	44.396	35.989	-5.429	XOM_R2OWSG MWD+IFR1+MS

13400.000	90.000	179.890	9629.000	36.484	0.000	44.867	-0.000	36.484	0.000	0.000	44.936	36.002	-5.429	XOM_R2OWSG MWD+IFR1+MS
13500.000	90.000	179.890	9629.000	37.200	0.000	45.414	-0.000	37.200	0.000	0.000	45.487	36.015	-5.419	XOM_R2OWSG MWD+IFR1+MS
13600.000	90.000	179.890	9629.000	37.919	0.000	45.971	-0.000	37.919	0.000	0.000	46.047	36.029	-5.401	XOM_R2OWSG MWD+IFR1+MS
13700.000	90.000	179.890	9629.000	38.641	0.000	46.539	-0.000	38.641	0.000	0.000	46.618	36.044	-5.375	XOM_R2OWSG MWD+IFR1+MS
13800.000	90.000	179.890	9629.000	39.365	0.000	47.116	-0.000	39.365	0.000	0.000	47.197	36.059	-5.344	XOM_R2OWSG MWD+IFR1+MS
13900.000	90.000	179.890	9629.000	40.091	0.000	47.702	-0.000	40.091	0.000	0.000	47.786	36.076	-5.309	XOM_R2OWSG MWD+IFR1+MS
14000.000	90.000	179.890	9629.000	40.819	0.000	48.297	-0.000	40.819	0.000	0.000	48.384	36.093	-5.269	XOM_R2OWSG MWD+IFR1+MS
14100.000	90.000	179.890	9629.000	41.550	0.000	48.901	-0.000	41.550	0.000	0.000	48.990	36.111	-5.227	XOM_R2OWSG MWD+IFR1+MS
14200.000	90.000	179.890	9629.000	42.282	0.000	49.513	-0.000	42.282	0.000	0.000	49.604	36.129	-5.182	XOM_R2OWSG MWD+IFR1+MS
14300.000	90.000	179.890	9629.000	43.016	0.000	50.133	-0.000	43.016	0.000	0.000	50.226	36.149	-5.136	XOM_R2OWSG MWD+IFR1+MS
14400.000	90.000	179.890	9629.000	43.752	0.000	50.761	-0.000	43.752	0.000	0.000	50.856	36.169	-5.088	XOM_R2OWSG MWD+IFR1+MS
14500.000	90.000	179.890	9629.000	44.490	0.000	51.396	-0.000	44.490	0.000	0.000	51.493	36.189	-5.039	XOM_R2OWSG MWD+IFR1+MS
14600.000	90.000	179.890	9629.000	45.229	0.000	52.039	-0.000	45.229	0.000	0.000	52.137	36.211	-4.989	XOM_R2OWSG MWD+IFR1+MS
14700.000	90.000	179.890	9629.000	45.970	0.000	52.688	-0.000	45.970	0.000	0.000	52.787	36.233	-4.939	XOM_R2OWSG MWD+IFR1+MS
14800.000	90.000	179.890	9629.000	46.712	0.000	53.344	-0.000	46.712	0.000	0.000	53.444	36.256	-4.888	XOM_R2OWSG MWD+IFR1+MS
14900.000	90.000	179.890	9629.000	47.456	0.000	54.007	-0.000	47.456	0.000	0.000	54.108	36.280	-4.837	XOM_R2OWSG MWD+IFR1+MS
15000.000	90.000	179.890	9629.000	48.201	0.000	54.675	-0.000	48.201	0.000	0.000	54.777	36.304	-4.787	XOM_R2OWSG MWD+IFR1+MS
15100.000	90.000	179.890	9629.000	48.947	0.000	55.350	-0.000	48.947	0.000	0.000	55.453	36.329	-4.736	XOM_R2OWSG MWD+IFR1+MS
15200.000	90.000	179.890	9629.000	49.694	0.000	56.030	-0.000	49.694	0.000	0.000	56.134	36.355	-4.686	XOM_R2OWSG MWD+IFR1+MS
15300.000	90.000	179.890	9629.000	50.443	0.000	56.715	-0.000	50.443	0.000	0.000	56.820	36.381	-4.636	XOM_R2OWSG MWD+IFR1+MS

15400.000	90.000	179.890	9629.000	51.192	0.000	57.407	-0.000	51.192	0.000	0.000	57.512	36.408	-4.586	XOM_R2OWSG MWD+IFR1+MS
15500.000	90.000	179.890	9629.000	51.943	0.000	58.103	-0.000	51.943	0.000	0.000	58.208	36.436	-4.537	XOM_R2OWSG MWD+IFR1+MS
15600.000	90.000	179.890	9629.000	52.694	0.000	58.804	-0.000	52.694	0.000	0.000	58.910	36.464	-4.489	XOM_R2OWSG MWD+IFR1+MS
15700.000	90.000	179.890	9629.000	53.447	0.000	59.510	-0.000	53.447	0.000	0.000	59.616	36.493	-4.441	XOM_R2OWSG MWD+IFR1+MS
15800.000	90.000	179.890	9629.000	54.200	0.000	60.220	-0.000	54.200	0.000	0.000	60.327	36.523	-4.394	XOM_R2OWSG MWD+IFR1+MS
15900.000	90.000	179.890	9629.000	54.955	0.000	60.935	-0.000	54.955	0.000	0.000	61.042	36.553	-4.347	XOM_R2OWSG MWD+IFR1+MS
16000.000	90.000	179.890	9629.000	55.710	0.000	61.655	-0.000	55.710	0.000	0.000	61.762	36.584	-4.301	XOM_R2OWSG MWD+IFR1+MS
16100.000	90.000	179.890	9629.000	56.466	0.000	62.378	-0.000	56.466	0.000	0.000	62.485	36.616	-4.255	XOM_R2OWSG MWD+IFR1+MS
16200.000	90.000	179.890	9629.000	57.223	0.000	63.105	-0.000	57.223	0.000	0.000	63.213	36.648	-4.211	XOM_R2OWSG MWD+IFR1+MS
16300.000	90.000	179.890	9629.000	57.980	0.000	63.837	-0.000	57.980	0.000	0.000	63.944	36.681	-4.167	XOM_R2OWSG MWD+IFR1+MS
16400.000	90.000	179.890	9629.000	58.738	0.000	64.572	-0.000	58.738	0.000	0.000	64.679	36.714	-4.123	XOM_R2OWSG MWD+IFR1+MS
16500.000	90.000	179.890	9629.000	59.497	0.000	65.310	-0.000	59.497	0.000	0.000	65.418	36.748	-4.081	XOM_R2OWSG MWD+IFR1+MS
16600.000	90.000	179.890	9629.000	60.257	0.000	66.052	-0.000	60.257	0.000	0.000	66.160	36.783	-4.039	XOM_R2OWSG MWD+IFR1+MS
16700.000	90.000	179.890	9629.000	61.017	0.000	66.798	-0.000	61.017	0.000	0.000	66.905	36.818	-3.997	XOM_R2OWSG MWD+IFR1+MS
16800.000	90.000	179.890	9629.000	61.778	0.000	67.547	-0.000	61.778	0.000	0.000	67.654	36.854	-3.957	XOM_R2OWSG MWD+IFR1+MS
16900.000	90.000	179.890	9629.000	62.539	0.000	68.298	-0.000	62.539	0.000	0.000	68.405	36.891	-3.917	XOM_R2OWSG MWD+IFR1+MS
17000.000	90.000	179.890	9629.000	63.301	0.000	69.053	-0.000	63.301	0.000	0.000	69.160	36.928	-3.878	XOM_R2OWSG MWD+IFR1+MS
17100.000	90.000	179.890	9629.000	64.064	0.000	69.811	-0.000	64.064	0.000	0.000	69.918	36.966	-3.839	XOM_R2OWSG MWD+IFR1+MS
17200.000	90.000	179.890	9629.000	64.827	0.000	70.572	-0.000	64.827	0.000	0.000	70.678	37.004	-3.801	XOM_R2OWSG MWD+IFR1+MS
17300.000	90.000	179.890	9629.000	65.591	0.000	71.335	-0.000	65.591	0.000	0.000	71.442	37.043	-3.764	XOM_R2OWSG MWD+IFR1+MS

17400.000	90.000	179.890	9629.000	66.355	0.000	72.102	-0.000	66.355	0.000	0.000	72.207	37.082	-3.727	XOM_R2OWSG MWD+IFR1+MS
17500.000	90.000	179.890	9629.000	67.119	0.000	72.870	-0.000	67.119	0.000	0.000	72.976	37.123	-3.691	XOM_R2OWSG MWD+IFR1+MS
17600.000	90.000	179.890	9629.000	67.884	0.000	73.642	-0.000	67.884	0.000	0.000	73.747	37.163	-3.656	XOM_R2OWSG MWD+IFR1+MS
17700.000	90.000	179.890	9629.000	68.650	0.000	74.415	-0.000	68.650	0.000	0.000	74.520	37.205	-3.621	XOM_R2OWSG MWD+IFR1+MS
17800.000	90.000	179.890	9629.000	69.416	0.000	75.191	-0.000	69.416	0.000	0.000	75.296	37.246	-3.587	XOM_R2OWSG MWD+IFR1+MS
17900.000	90.000	179.890	9629.000	70.182	0.000	75.970	-0.000	70.182	0.000	0.000	76.074	37.289	-3.553	XOM_R2OWSG MWD+IFR1+MS
18000.000	90.000	179.890	9629.000	70.949	0.000	76.750	-0.000	70.949	0.000	0.000	76.854	37.332	-3.520	XOM_R2OWSG MWD+IFR1+MS
18100.000	90.000	179.890	9629.000	71.716	0.000	77.533	-0.000	71.716	0.000	0.000	77.637	37.375	-3.487	XOM_R2OWSG MWD+IFR1+MS
18200.000	90.000	179.890	9629.000	72.483	0.000	78.318	-0.000	72.483	0.000	0.000	78.421	37.420	-3.455	XOM_R2OWSG MWD+IFR1+MS
18300.000	90.000	179.890	9629.000	73.251	0.000	79.105	-0.000	73.251	0.000	0.000	79.207	37.464	-3.424	XOM_R2OWSG MWD+IFR1+MS
18400.000	90.000	179.890	9629.000	74.019	0.000	79.893	-0.000	74.019	0.000	0.000	79.996	37.509	-3.393	XOM_R2OWSG MWD+IFR1+MS
18500.000	90.000	179.890	9629.000	74.788	0.000	80.684	-0.000	74.788	0.000	0.000	80.786	37.555	-3.363	XOM_R2OWSG MWD+IFR1+MS
18600.000	90.000	179.890	9629.000	75.557	0.000	81.477	-0.000	75.557	0.000	0.000	81.578	37.602	-3.333	XOM_R2OWSG MWD+IFR1+MS
18700.000	90.000	179.890	9629.000	76.326	0.000	82.271	-0.000	76.326	0.000	0.000	82.372	37.649	-3.304	XOM_R2OWSG MWD+IFR1+MS
18800.000	90.000	179.890	9629.000	77.095	0.000	83.067	-0.000	77.095	0.000	0.000	83.168	37.696	-3.275	XOM_R2OWSG MWD+IFR1+MS
18900.000	90.000	179.890	9629.000	77.865	0.000	83.865	-0.000	77.865	0.000	0.000	83.965	37.744	-3.246	XOM_R2OWSG MWD+IFR1+MS
19000.000	90.000	179.890	9629.000	78.635	0.000	84.664	-0.000	78.635	0.000	0.000	84.764	37.792	-3.218	XOM_R2OWSG MWD+IFR1+MS
19100.000	90.000	179.890	9629.000	79.406	0.000	85.465	-0.000	79.406	0.000	0.000	85.565	37.842	-3.191	XOM_R2OWSG MWD+IFR1+MS
19200.000	90.000	179.890	9629.000	80.176	0.000	86.268	-0.000	80.176	0.000	0.000	86.367	37.891	-3.164	XOM_R2OWSG MWD+IFR1+MS
19300.000	90.000	179.890	9629.000	80.947	0.000	87.072	-0.000	80.947	0.000	0.000	87.170	37.941	-3.137	XOM_R2OWSG MWD+IFR1+MS

19400.000	90.000	179.890	9629.000	81.719	0.000	87.877	-0.000	81.719	0.000	0.000	87.975	37.992	-3.111	XOM_R2OWSG MWD+IFR1+MS
19500.000	90.000	179.890	9629.000	82.490	0.000	88.684	-0.000	82.490	0.000	0.000	88.782	38.043	-3.085	XOM_R2OWSG MWD+IFR1+MS
19600.000	90.000	179.890	9629.000	83.262	0.000	89.493	-0.000	83.262	0.000	0.000	89.590	38.095	-3.060	XOM_R2OWSG MWD+IFR1+MS
19700.000	90.000	179.890	9629.000	84.034	0.000	90.302	-0.000	84.034	0.000	0.000	90.399	38.147	-3.035	XOM_R2OWSG MWD+IFR1+MS
19800.000	90.000	179.890	9629.000	84.806	0.000	91.113	-0.000	84.806	0.000	0.000	91.210	38.200	-3.011	XOM_R2OWSG MWD+IFR1+MS
19900.000	90.000	179.890	9629.000	85.578	0.000	91.926	-0.000	85.578	0.000	0.000	92.022	38.253	-2.986	XOM_R2OWSG MWD+IFR1+MS
20000.000	90.000	179.890	9629.000	86.351	0.000	92.739	-0.000	86.351	0.000	0.000	92.835	38.307	-2.963	XOM_R2OWSG MWD+IFR1+MS
20100.000	90.000	179.890	9629.000	87.124	0.000	93.554	-0.000	87.124	0.000	0.000	93.649	38.361	-2.939	XOM_R2OWSG MWD+IFR1+MS
20200.000	90.000	179.890	9629.000	87.897	0.000	94.370	-0.000	87.897	0.000	0.000	94.465	38.416	-2.916	XOM_R2OWSG MWD+IFR1+MS
20300.000	90.000	179.890	9629.000	88.670	0.000	95.187	-0.000	88.670	0.000	0.000	95.281	38.471	-2.893	XOM_R2OWSG MWD+IFR1+MS
20400.000	90.000	179.890	9629.000	89.444	0.000	96.006	-0.000	89.444	0.000	0.000	96.099	38.527	-2.871	XOM_R2OWSG MWD+IFR1+MS
20500.000	90.000	179.890	9629.000	90.218	0.000	96.825	-0.000	90.218	0.000	0.000	96.918	38.584	-2.849	XOM_R2OWSG MWD+IFR1+MS
20600.000	90.000	179.890	9629.000	90.991	0.000	97.645	-0.000	90.991	0.000	0.000	97.738	38.640	-2.827	XOM_R2OWSG MWD+IFR1+MS
20700.000	90.000	179.890	9629.000	91.766	0.000	98.467	-0.000	91.766	0.000	0.000	98.559	38.698	-2.806	XOM_R2OWSG MWD+IFR1+MS
20800.000	90.000	179.890	9629.000	92.540	0.000	99.289	-0.000	92.540	0.000	0.000	99.381	38.756	-2.785	XOM_R2OWSG MWD+IFR1+MS
20900.000	90.000	179.890	9629.000	93.314	0.000	100.113	-0.000	93.314	0.000	0.000	100.204	38.814	-2.764	XOM_R2OWSG MWD+IFR1+MS
21000.000	90.000	179.890	9629.000	94.089	0.000	100.937	-0.000	94.089	0.000	0.000	101.028	38.873	-2.744	XOM_R2OWSG MWD+IFR1+MS
21100.000	90.000	179.890	9629.000	94.864	0.000	101.763	-0.000	94.864	0.000	0.000	101.853	38.932	-2.724	XOM_R2OWSG MWD+IFR1+MS
21200.000	90.000	179.890	9629.000	95.638	0.000	102.589	-0.000	95.638	0.000	0.000	102.679	38.992	-2.704	XOM_R2OWSG MWD+IFR1+MS
21300.000	90.000	179.890	9629.000	96.414	0.000	103.416	-0.000	96.414	0.000	0.000	103.506	39.052	-2.684	XOM_R2OWSG MWD+IFR1+MS

21400.000	90.000	179.890	9629.000	97.189	0.000	104.244	-0.000	97.189	0.000	0.000	104.333	39.113	-2.665	XOM_R2OWSG MWD+IFR1+MS
21500.000	90.000	179.890	9629.000	97.964	0.000	105.073	-0.000	97.964	0.000	0.000	105.162	39.174	-2.646	XOM_R2OWSG MWD+IFR1+MS
21600.000	90.000	179.890	9629.000	98.740	0.000	105.903	-0.000	98.740	0.000	0.000	105.991	39.236	-2.628	XOM_R2OWSG MWD+IFR1+MS
21700.000	90.000	179.890	9629.000	99.515	0.000	106.734	-0.000	99.515	0.000	0.000	106.821	39.298	-2.609	XOM_R2OWSG MWD+IFR1+MS
21800.000	90.000	179.890	9629.000	100.291	0.000	107.565	-0.000	100.291	0.000	0.000	107.652	39.360	-2.591	XOM_R2OWSG MWD+IFR1+MS
21900.000	90.000	179.890	9629.000	101.067	0.000	108.397	-0.000	101.067	0.000	0.000	108.484	39.423	-2.573	XOM_R2OWSG MWD+IFR1+MS
22000.000	90.000	179.890	9629.000	101.843	0.000	109.230	-0.000	101.843	0.000	0.000	109.317	39.487	-2.555	XOM_R2OWSG MWD+IFR1+MS
22100.000	90.000	179.890	9629.000	102.619	0.000	110.064	-0.000	102.619	0.000	0.000	110.150	39.551	-2.538	XOM_R2OWSG MWD+IFR1+MS
22200.000	90.000	179.890	9629.000	103.396	0.000	110.898	-0.000	103.396	0.000	0.000	110.984	39.615	-2.521	XOM_R2OWSG MWD+IFR1+MS
22300.000	90.000	179.890	9629.000	104.172	0.000	111.733	-0.000	104.172	0.000	0.000	111.819	39.680	-2.504	XOM_R2OWSG MWD+IFR1+MS
22400.000	90.000	179.890	9629.000	104.949	0.000	112.569	-0.000	104.949	0.000	0.000	112.654	39.746	-2.487	XOM_R2OWSG MWD+IFR1+MS
22500.000	90.000	179.890	9629.000	105.726	0.000	113.406	-0.000	105.726	0.000	0.000	113.490	39.811	-2.470	XOM_R2OWSG MWD+IFR1+MS
22600.000	90.000	179.890	9629.000	106.503	0.000	114.243	-0.000	106.503	0.000	0.000	114.327	39.878	-2.454	XOM_R2OWSG MWD+IFR1+MS
22700.000	90.000	179.890	9629.000	107.279	0.000	115.081	-0.000	107.279	0.000	0.000	115.164	39.944	-2.438	XOM_R2OWSG MWD+IFR1+MS
22800.000	90.000	179.890	9629.000	108.057	0.000	115.919	-0.000	108.057	0.000	0.000	116.002	40.012	-2.422	XOM_R2OWSG MWD+IFR1+MS
22900.000	90.000	179.890	9629.000	108.834	0.000	116.758	-0.000	108.834	0.000	0.000	116.841	40.079	-2.407	XOM_R2OWSG MWD+IFR1+MS
23000.000	90.000	179.890	9629.000	109.611	0.000	117.598	-0.000	109.611	0.000	0.000	117.680	40.147	-2.391	XOM_R2OWSG MWD+IFR1+MS
23100.000	90.000	179.890	9629.000	110.388	0.000	118.438	-0.000	110.388	0.000	0.000	118.520	40.216	-2.376	XOM_R2OWSG MWD+IFR1+MS
23200.000	90.000	179.890	9629.000	111.166	0.000	119.279	-0.000	111.166	0.000	0.000	119.361	40.285	-2.361	XOM_R2OWSG MWD+IFR1+MS
23300.000	90.000	179.890	9629.000	111.944	0.000	120.121	-0.000	111.944	0.000	0.000	120.202	40.354	-2.346	XOM_R2OWSG MWD+IFR1+MS

23400.000	90.000	179.890	9629.000	112.721	0.000	120.963	-0.000	112.721	0.000	0.000	121.043	40.424	-2.331	XOM_R2OWSG MWD+IFR1+MS
23500.000	90.000	179.890	9629.000	113.499	0.000	121.805	-0.000	113.499	0.000	0.000	121.886	40.494	-2.317	XOM_R2OWSG MWD+IFR1+MS
23600.000	90.000	179.890	9629.000	114.277	0.000	122.648	-0.000	114.277	0.000	0.000	122.728	40.564	-2.303	XOM_R2OWSG MWD+IFR1+MS
23700.000	90.000	179.890	9629.000	115.055	0.000	123.492	-0.000	115.055	0.000	0.000	123.571	40.635	-2.288	XOM_R2OWSG MWD+IFR1+MS
23800.000	90.000	179.890	9629.000	115.833	0.000	124.336	-0.000	115.833	0.000	0.000	124.415	40.707	-2.275	XOM_R2OWSG MWD+IFR1+MS
23900.000	90.000	179.890	9629.000	116.611	0.000	125.181	-0.000	116.611	0.000	0.000	125.260	40.779	-2.261	XOM_R2OWSG MWD+IFR1+MS
24000.000	90.000	179.890	9629.000	117.389	0.000	126.026	-0.000	117.389	0.000	0.000	126.104	40.851	-2.247	XOM_R2OWSG MWD+IFR1+MS
24100.000	90.000	179.890	9629.000	118.168	0.000	126.871	-0.000	118.168	0.000	0.000	126.950	40.924	-2.234	XOM_R2OWSG MWD+IFR1+MS
24200.000	90.000	179.890	9629.000	118.946	0.000	127.718	-0.000	118.946	0.000	0.000	127.795	40.997	-2.220	XOM_R2OWSG MWD+IFR1+MS
24300.000	90.000	179.890	9629.000	119.725	0.000	128.564	-0.000	119.725	0.000	0.000	128.641	41.070	-2.207	XOM_R2OWSG MWD+IFR1+MS
24400.000	90.000	179.890	9629.000	120.503	0.000	129.411	-0.000	120.503	0.000	0.000	129.488	41.144	-2.194	XOM_R2OWSG MWD+IFR1+MS
24500.000	90.000	179.890	9629.000	121.282	0.000	130.259	-0.000	121.282	0.000	0.000	130.335	41.219	-2.182	XOM_R2OWSG MWD+IFR1+MS
24600.000	90.000	179.890	9629.000	122.061	0.000	131.106	-0.000	122.061	0.000	0.000	131.183	41.293	-2.169	XOM_R2OWSG MWD+IFR1+MS
24700.000	90.000	179.890	9629.000	122.840	0.000	131.955	-0.000	122.840	0.000	0.000	132.031	41.369	-2.157	XOM_R2OWSG MWD+IFR1+MS
24800.000	90.000	179.890	9629.000	123.619	0.000	132.804	-0.000	123.619	0.000	0.000	132.879	41.444	-2.144	XOM_R2OWSG MWD+IFR1+MS
24900.000	90.000	179.890	9629.000	124.398	0.000	133.653	-0.000	124.398	0.000	0.000	133.728	41.520	-2.132	XOM_R2OWSG MWD+IFR1+MS
25000.000	90.000	179.890	9629.000	125.177	0.000	134.502	-0.000	125.177	0.000	0.000	134.577	41.596	-2.120	XOM_R2OWSG MWD+IFR1+MS
25100.000	90.000	179.890	9629.000	125.956	0.000	135.352	-0.000	125.956	0.000	0.000	135.427	41.673	-2.108	XOM_R2OWSG MWD+IFR1+MS
25200.000	90.000	179.890	9629.000	126.735	0.000	136.203	-0.000	126.735	0.000	0.000	136.277	41.750	-2.096	XOM_R2OWSG MWD+IFR1+MS
25300.000	90.000	179.890	9629.000	127.514	0.000	137.053	-0.000	127.514	0.000	0.000	137.127	41.828	-2.085	XOM_R2OWSG MWD+IFR1+MS

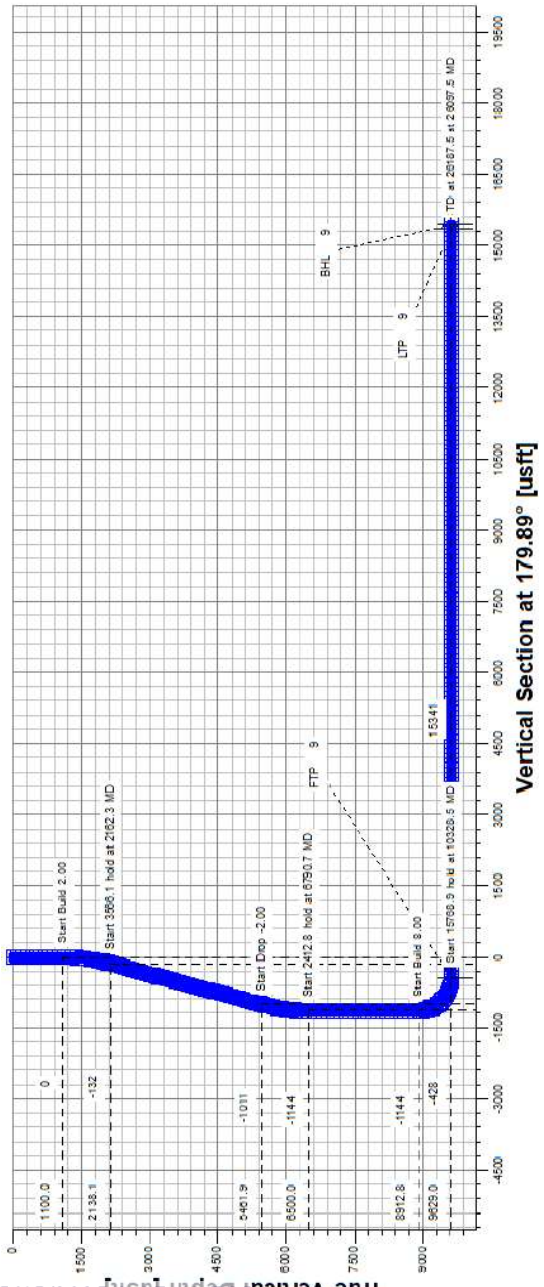
25400.000	90.000	179.890	9629.000	128.293	0.000	137.905	-0.000	128.293	0.000	0.000	137.978	41.905	-2.073	XOM_R2OWSG MWD+IFR1+MS
25500.000	90.000	179.890	9629.000	129.073	0.000	138.756	-0.000	129.073	0.000	0.000	138.829	41.984	-2.062	XOM_R2OWSG MWD+IFR1+MS
25600.000	90.000	179.890	9629.000	129.852	0.000	139.608	-0.000	129.852	0.000	0.000	139.681	42.062	-2.051	XOM_R2OWSG MWD+IFR1+MS
25700.000	90.000	179.890	9629.000	130.632	0.000	140.460	-0.000	130.632	0.000	0.000	140.533	42.141	-2.039	XOM_R2OWSG MWD+IFR1+MS
25800.000	90.000	179.890	9629.000	131.411	0.000	141.313	-0.000	131.411	0.000	0.000	141.385	42.221	-2.028	XOM_R2OWSG MWD+IFR1+MS
25900.000	90.000	179.890	9629.000	132.191	0.000	142.166	-0.000	132.191	0.000	0.000	142.238	42.300	-2.018	XOM_R2OWSG MWD+IFR1+MS
26000.000	90.000	179.890	9629.000	132.971	0.000	143.019	-0.000	132.971	0.000	0.000	143.091	42.381	-2.007	XOM_R2OWSG MWD+IFR1+MS
26100.000	90.000	179.890	9629.000	133.751	0.000	143.873	-0.000	133.751	0.000	0.000	143.944	42.461	-1.996	XOM_R2OWSG MWD+IFR1+MS
26146.512	90.000	179.890	9629.000	134.113	0.000	144.269	-0.000	134.113	0.000	0.000	144.340	42.499	-1.991	XOM_R2OWSG MWD+IFR1+MS
26200.000	90.000	179.890	9629.000	134.530	0.000	144.726	-0.000	134.530	0.000	0.000	144.797	42.542	-1.986	XOM_R2OWSG MWD+IFR1+MS
26237.113	90.000	179.890	9629.000	134.820	0.000	145.042	-0.000	134.820	0.000	0.000	145.113	42.572	-1.982	XOM_R2OWSG MWD+IFR1+MS

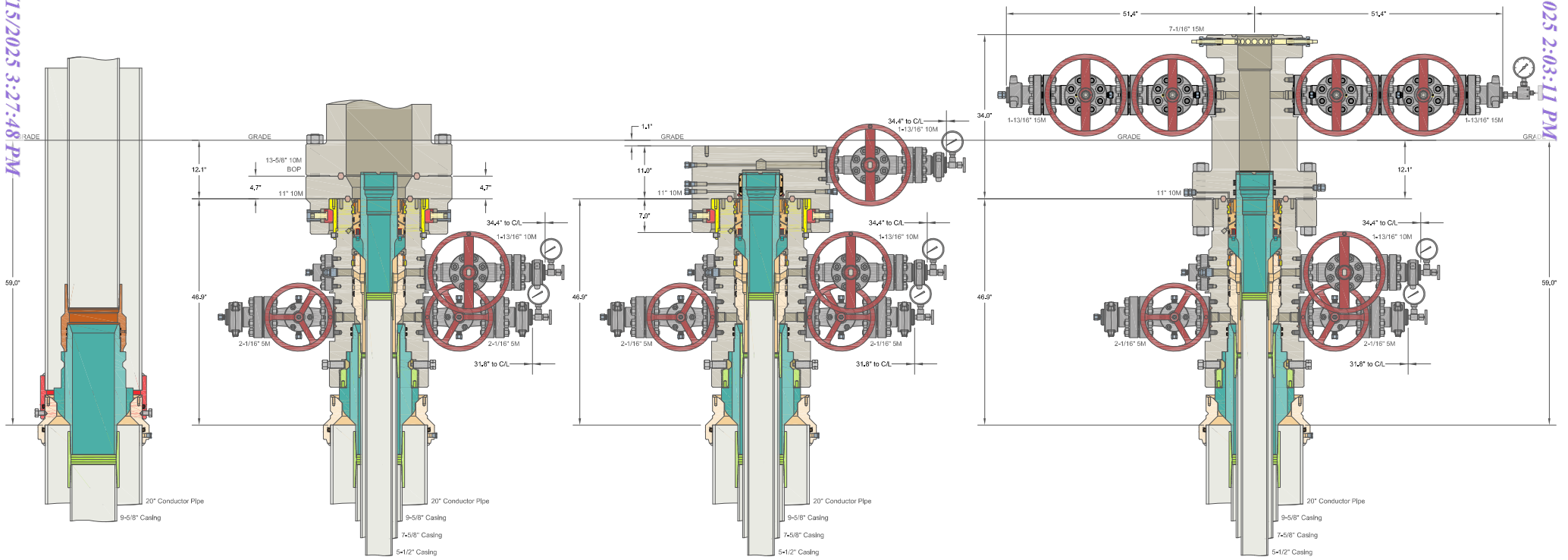
Plan Targets Poker Lake Unit 27 BD 511H

Target Name	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape
FTP 5	10377.55	400675.40	643108.40	6333.00	CIRCLE
LTP 5	26146.51	384906.50	643138.80	6333.00	CIRCLE
BHL 5	26236.52	384816.50	643139.40	6333.00	CIRCLE

Poker Lake Unit 27 BD 511H

Formation	TVDSS (feet)	TVD (feet)
Rustler	2,257'	1,040'
Salado	1,965'	1,331'
Base of Salt	-375'	3,671'
Delaware	-567'	3,863'
Cherry Canyon	-1,507'	4,804'
Brushy Canyon	-2,649'	5,945'
Basal Brushy Canyon	-4,100'	7,396'
Bone Spring Lm.	-4,364'	7,660'
Avalon Shale	-4,508'	7,804'
Lower Avalon Shale	-4,929'	8,225'
1st Bone Spring Lime	-5,093'	8,390'
1st Bone Spring Sand	-5,313'	8,609'
2nd Bone Spring Shale	-5,583'	8,879'
2nd Bone Spring Lime	-5,793'	9,089'
2nd Bone Spring Sand	-6,173'	9,469'
2nd BS Sand Lower Landing	-6,333'	9,629'
3rd Bone Spring Lime	-6,464'	9,760'





ALL DIMENSIONS APPROXIMATE

CACTUS WELLHEAD LLC

XTO ENERGY INC
DELAWARE BASIN

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

DRAWN	VJK	31MAR22
APPRV		
DRAWING NO.	HBE0000479	

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

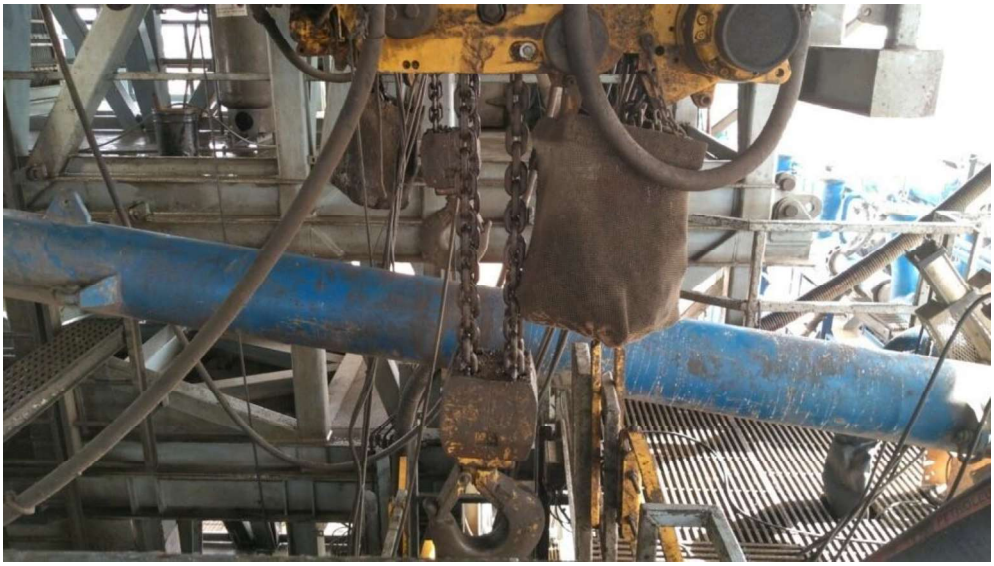


Figure 2: BOP Winch System

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 3170recognizes 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.

62 API STANDARD 53

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

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

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

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

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

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

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

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

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

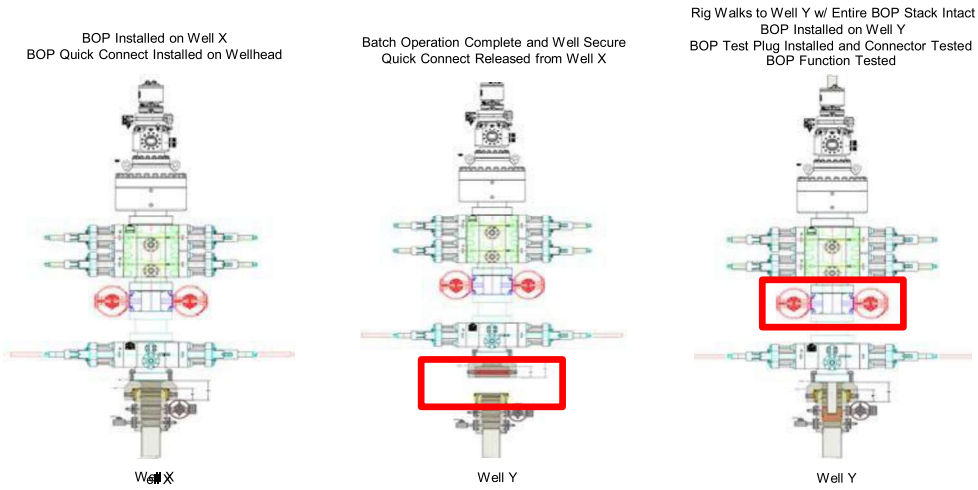
XTO Energy feels break testing and our current procedures meet the intent of CFR Title 43 Part 317 0and often exceed it. There has been no evidence that break testing results in more components failing than seen on full BOP tests. XTO Energy's internal standards requires complete BOPE tests more often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

Procedures

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

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

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



Summary

A variance is requested to **ONLY** test broken pressure seals on the BOP equipment when moving from wellhead to wellhead which is in compliance with API Standard 53. API Standard 53 states, that for pad drilling operation, moving from one wellhead to another within 21 days, pressure testing is required for pressure-containing and pressure-controlling connections when the integrity of a pressure seal is broken.

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

Based on discussions with the BLM on February 27th 2020 and the supporting documentation submitted to the BLM, we will request permission to ONLY retest broken pressure seals if the following conditions are met:

1. After a full BOP test is conducted on the first well on the pad.

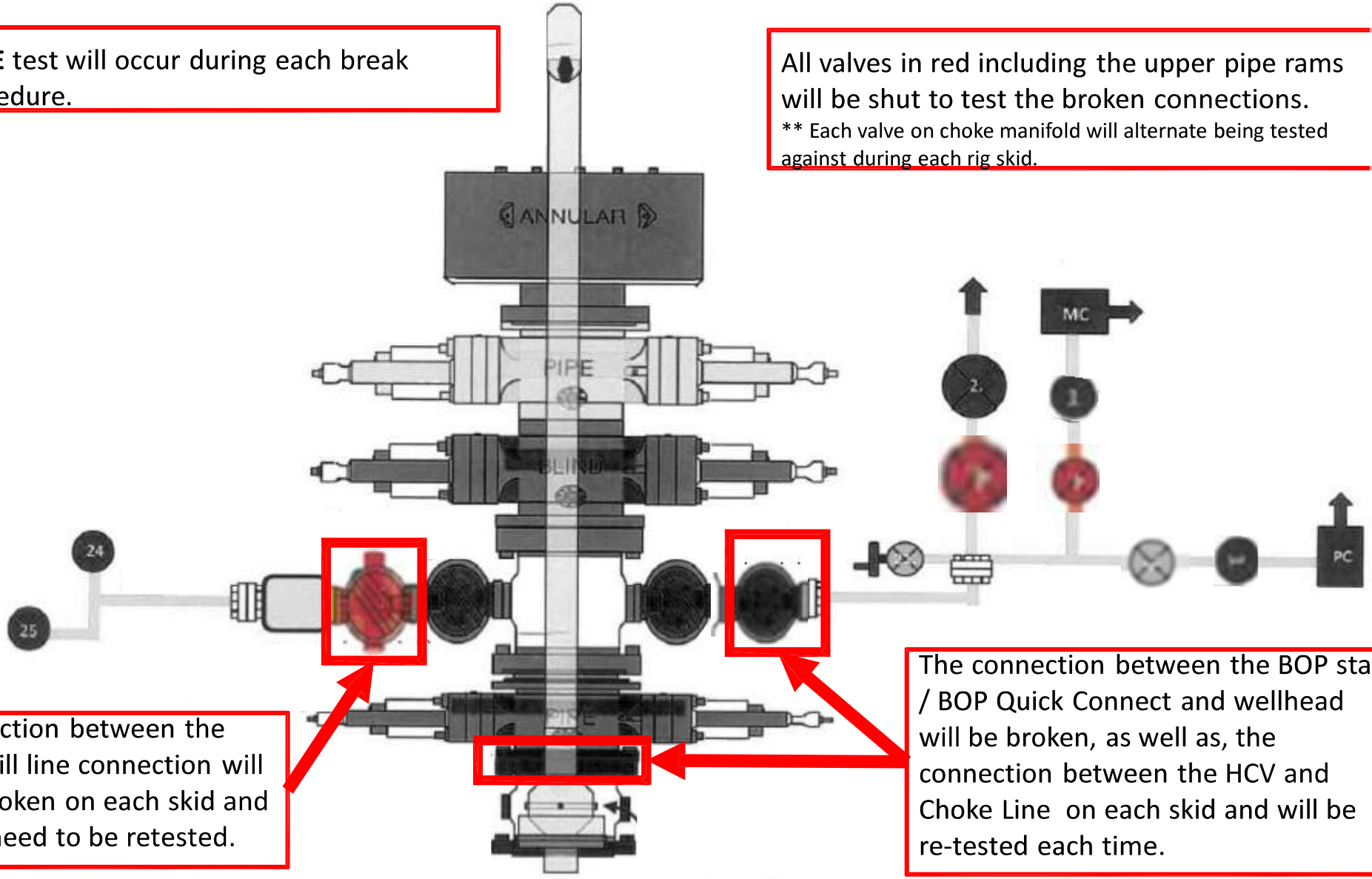
2. The first intermediate hole section drilled on the pad will be the deepest. All of the remaining hole sections will be the same depth or shallower.

3. Full BOP test will be required if the intermediate hole section being drilled has a MASP over 5M.

4. Full BOP test will be required prior to drilling the production hole.

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

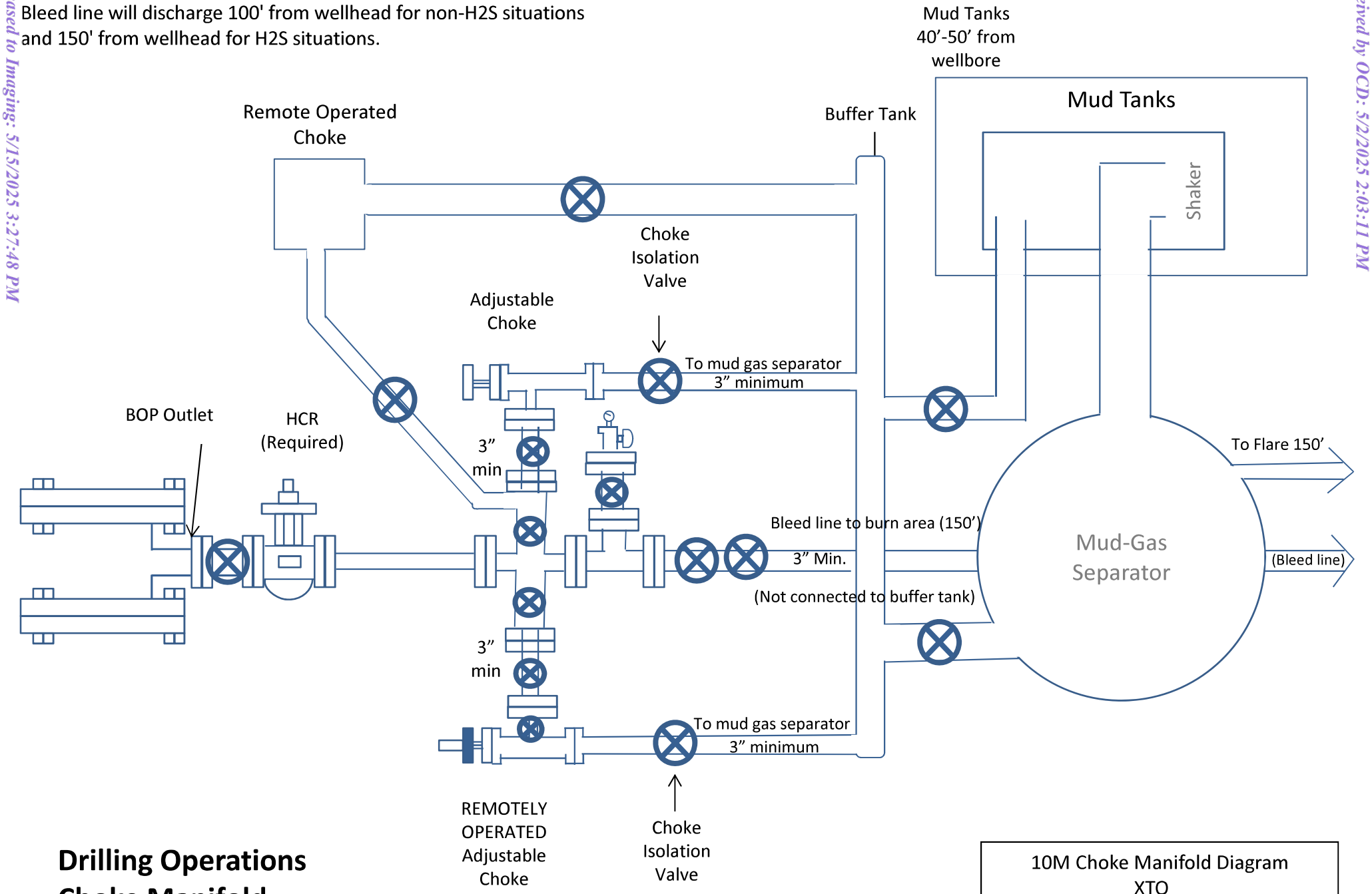
All valves in red including the upper pipe rams will be shut to test the broken connections.
** Each valve on choke manifold will alternate being tested against during each rig skid.



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

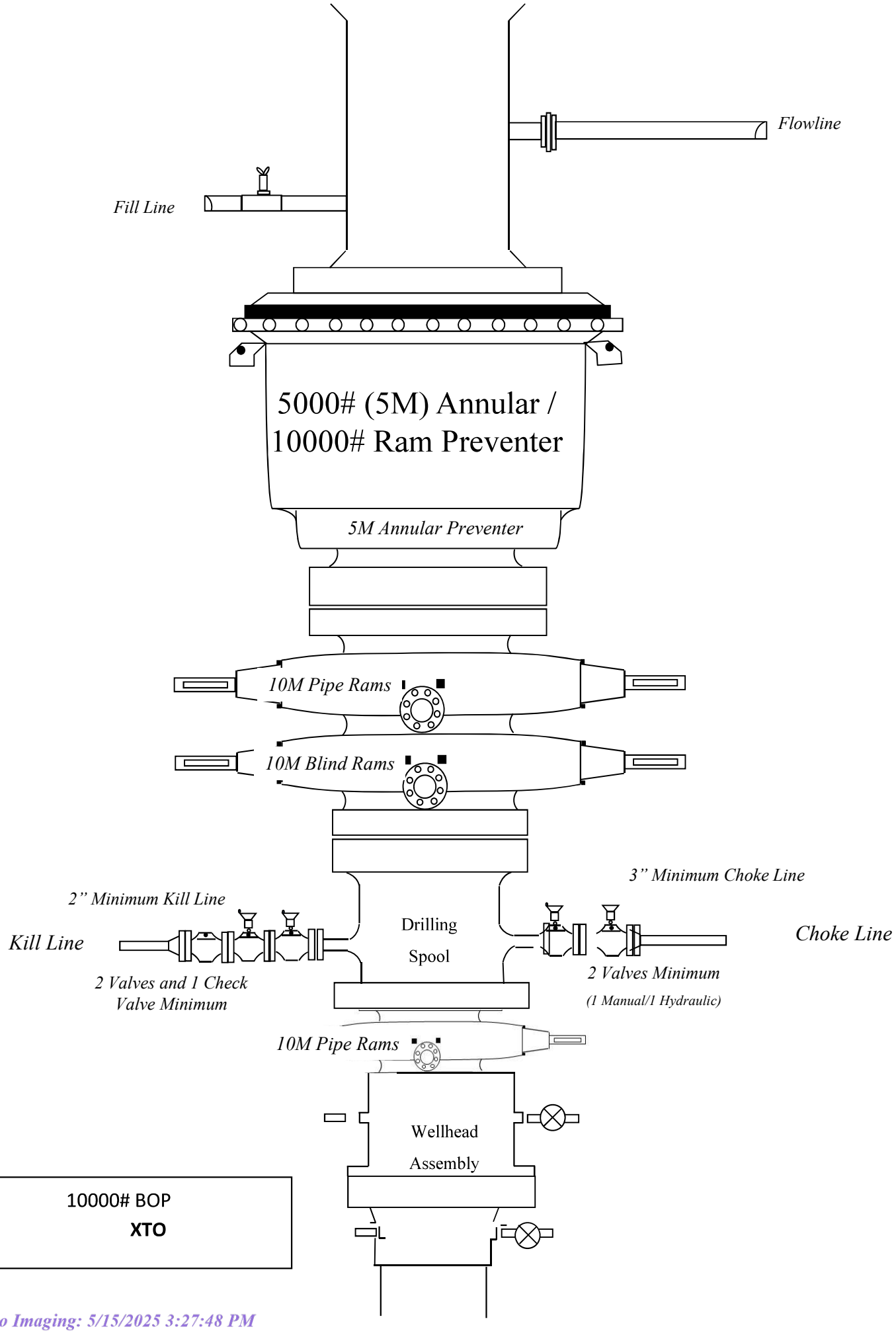
The connection between the BOP stack / BOP Quick Connect and wellhead will be broken, as well as, the connection between the HCV and Choke Line on each skid and will be re-tested each time.

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



Drilling Operations
Choke Manifold
10M Service

10M Choke Manifold Diagram
XTO



10000# BOP

XTO

BLACK GOLD®

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

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

NEW CHOKE HOSE INSTALLED 02-10-2024

CERTIFICATE OF CONFORMANCE

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

CUSTOMER:	NABORS DRILLING TECHNOLOGIES USA DBA NABORS DRILLING USA
CUSTOMER P.O.#:	15582803 (TAG NABORS PO #15582803 SN 74621 ASSET 66-1531)
CUSTOMER P/N:	IMR RETEST SN 74621 ASSET #66-1531
PART DESCRIPTION:	RETEST OF CUSTOMER 3" X 45 FT 16C CHOKE & KILL HOSE ASSEMBLY C/W 4 1/16" 10K FLANGES
SALES ORDER #:	529480
QUANTITY:	1
SERIAL #:	74621 H3-012524-1

SIGNATURE: F. OSPINOS

TITLE: QUALITY ASSURANCE

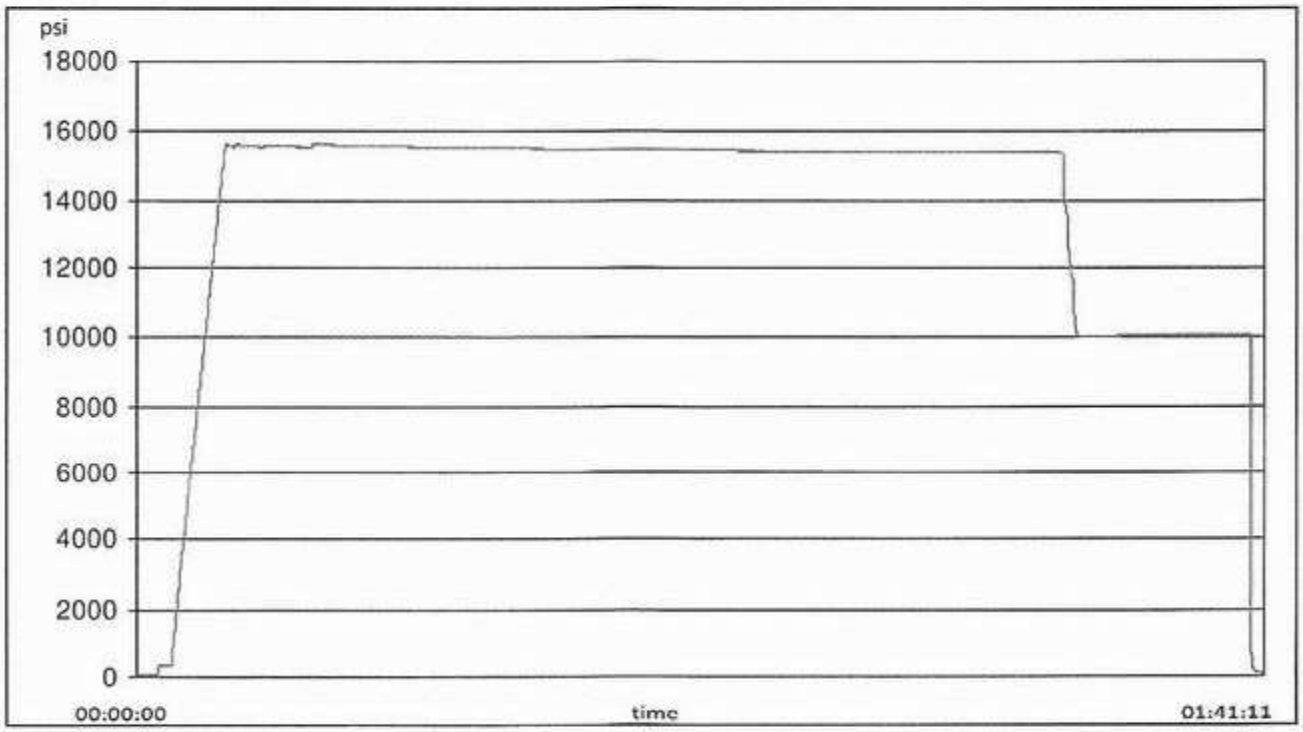
DATE: 1/25/2024

H3-15/16

1/25/2024 11:48:06 AM

TEST REPORT

CUSTOMER			TEST OBJECT		
Company:	Nabors Industries Inc.		Serial number:	H3-012524-1	
			Lot number:		
Production description:	74621/66-1531		Description:	74621/66-1531	
Sales order #:	529480				
Customer reference:	FG1213		Hose ID:	3" 16C CK	
			Part number:		
TEST INFORMATION					
Test procedure:	GTS-04-053		Fitting 1:	3.0 x 4-1/16 10K	
Test pressure:	15000.00	psi	Part number:		
Test pressure hold:	3600.00	sec	Description:		
Work pressure:	10000.00	psi			
Work pressure hold:	900.00	sec	Fitting 2:	3.0 x 4-1/16 10K	
Length difference:	0.00	%	Part number:		
Length difference:	0.00	inch	Description:		
Visual check:			Length:	45	feet
Pressure test result:	PASS				
Length measurement result:					
Test operator:	Travis				



H3-15/16

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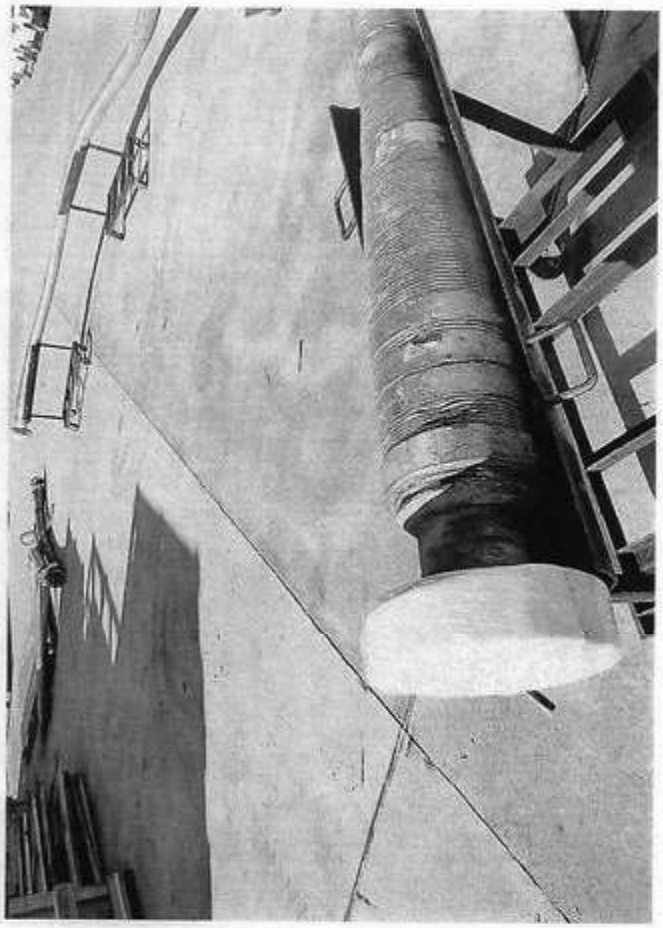
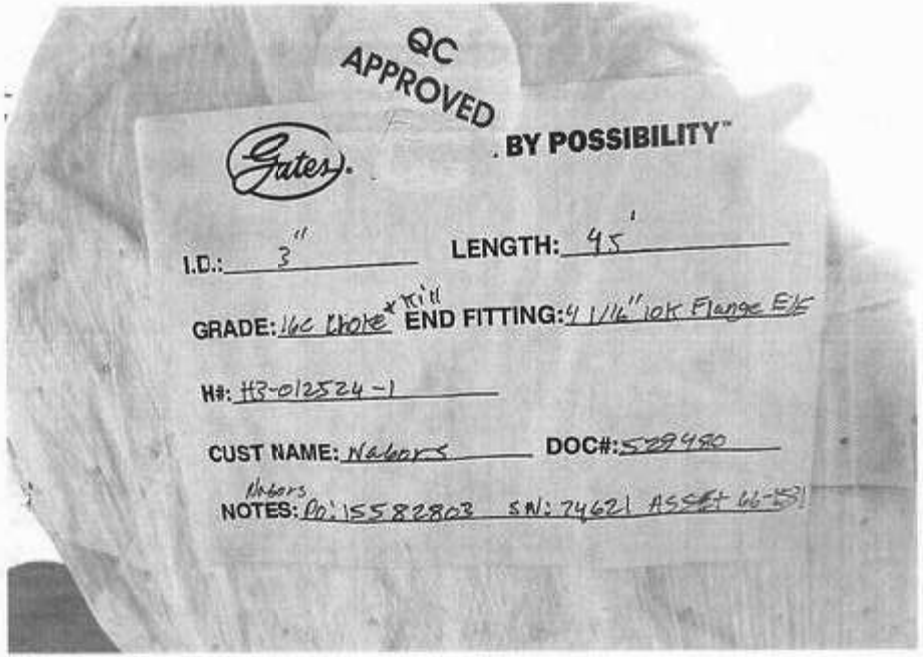
TEST REPORT

GAUGE TRACEABILITY

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

Comment





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.

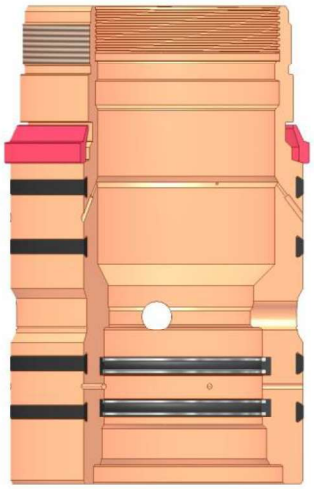
1. Cement Program

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

2. Offline Cementing Procedure

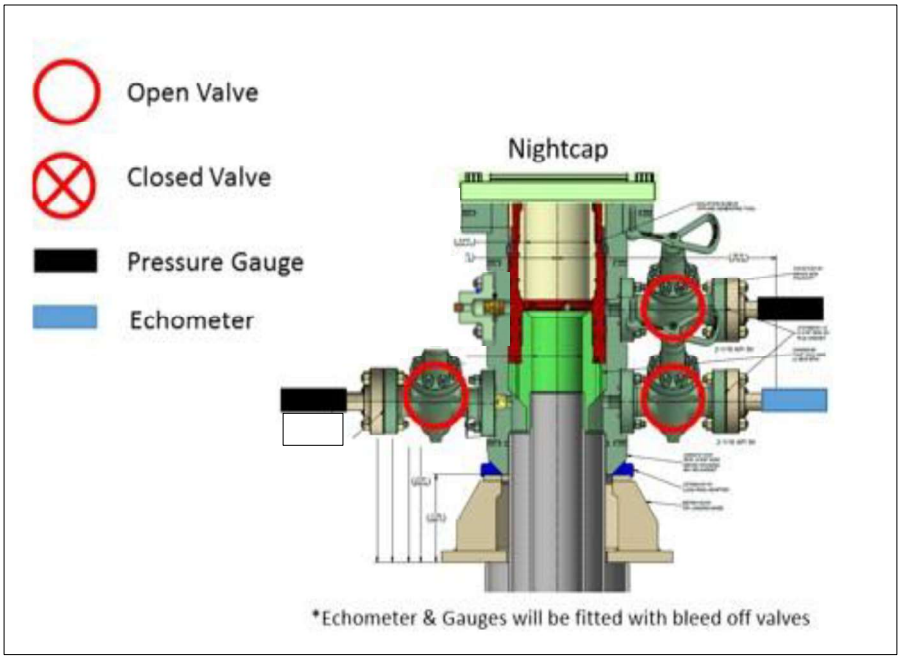
The operational sequence will be as follows. If a well control event occurs, the BLM will be contacted for approval prior to conducting offline cementing operations.

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 nippled 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

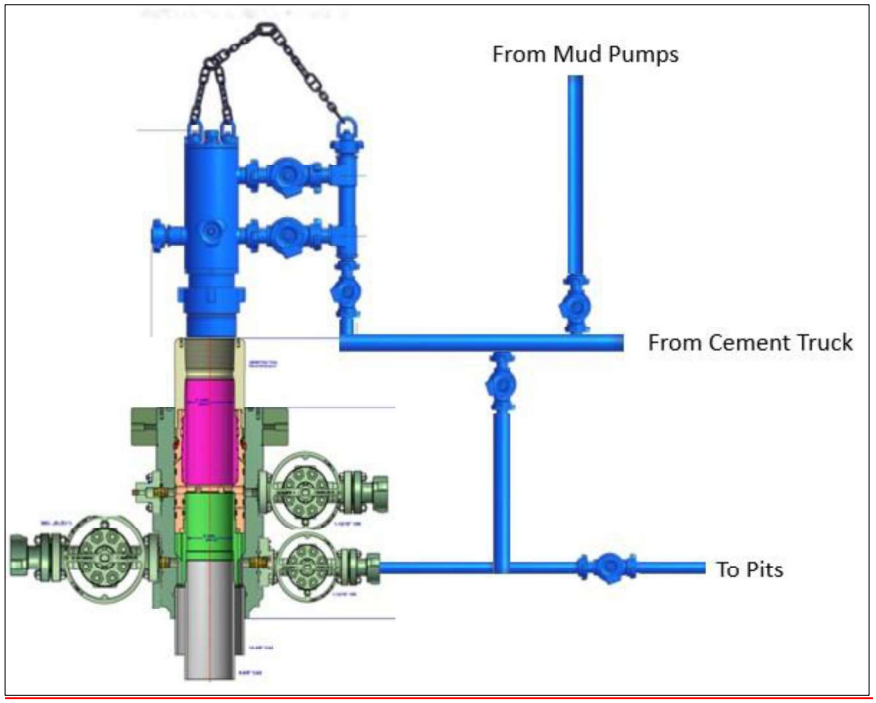
XTO Permian Operating, LLC Offline Cementing Variance Request



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 nippling 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 nippled 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.

Tenaris

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 lastest 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

PI/CIII

Tenaris

TenarisHydril Wedge 441®

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

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

Pipe Body Data

Geometry				Performance	
Nominal OD	5.500 in.	**Wall Thickness**	0.361 in.	**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**	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 lastest 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

Tenaris

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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For further information on concepts indicated in this datasheet, download the Datasheet Manual from www.tenaris.com

Sante Fe Main Office
Phone: (505) 476-3441

General Information
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

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 458150
	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