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

Sundry Print Report
01/14/2025

Well Name: POKER LAKE UNIT 28 BS

Well Location: T25S / R31E / SEC 28 / SWNW / 32.101875 / -103.7896

County or Parish/State: EDDY / NM

Well Number: 108H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMLC062140A

Unit or CA Name: POKER LAKE UNIT

Unit or CA Number: NMNM71016X

US Well Number: 3001555764

Operator: XTO PERMIAN OPERATING LLC

Notice of Intent

Sundry ID: 2826587

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 12/10/2024

Time Sundry Submitted: 01:46

Date proposed operation will begin: 12/16/2024

Procedure Description: POKER LAKE UNIT 28 BS 113H SUNDRY LANGUAGE APD ID number 10400094326 has an approved API number of 30-015-55764. XTO Permian Operating, LLC. respectfully requests approval to make the following changes to the approved APD. Name change FROM Poker Lake Unit 28 BS 108H TO Poker Lake Unit 28 BS 113H. Changes also include KOP, FTP, LTP, BHL, & Proposed total Depth. There will be no additional surface disturbance. There is a dedicated acreage change. FROM: TO: KOP: 2435' FNL & 660' FWL OF SECTION 28-T25S-R31E 2037' FNL & 798' FWL OF SECTION 28-T25S-R31E FTP: 2435' FNL & 330' FWL OF SECTION 28-T25S-R31E 2553' FSL & 800' FWL OF SECTION 28-T25S-R31E LTP: 100' FSL & 330' FWL OF SECTION 4-T26S-R31E 100' FSL & 800' FWL OF SECTION 4-T26S-R31E BHL: 50' FSL & 330' FWL OF SECTION 4-T26S-R31E 50' FSL & 800' FWL OF SECTION 4-T26S-R31E The proposed total depth is changing from 23706' MD; 9891' TVD (Bone Spring) to 24343' MD; 10780' TVD (Bone Spring). A saturated salt brine will be utilized while drilling through the salt formations.

NOI Attachments

Procedure Description

PLU_28_BS___113H_Sundry_Attachments_20241209160941.pdf

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Operator: XTO PERMIAN OPERATING LLC

Conditions of Approval

Additional

Poker_Lake_Unit_28_BS_110H__109H_113H_COA_20250113162405.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: SAMANTHA WEIS

Signed on: DEC 10, 2024 01:46 PM

Name: XTO PERMIAN OPERATING LLC

Title: Permitting Advisor

Street Address: 22777 SPRINGWOODS VILLAGE PARKWAY

City: SPRING **State:** TX

Phone: (832) 625-7361

Email address: SAMANTHA.R.BARTNIK@EXXONMOBIL.COM

Field

Representative Name:

Street Address:

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

Phone:

Email address:

BLM Point of Contact

BLM POC Name: CODY LAYTON

BLM POC Title: Assistant Field Manager Lands & Minerals

BLM POC Phone: 5752345959

BLM POC Email Address: clayton@blm.gov

Disposition: Approved

Disposition Date: 01/13/2025

Signature: Cody R. Layton

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. NMLC062140A

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 28 BS/108H

2. Name of Operator XTO PERMIAN OPERATING LLC

9. API Well No. 3001555764

3a. Address 6401 HOLIDAY HILL ROAD BLDG 5, MIDLAND,

3b. Phone No. *(include area code)* (432) 683-2277

10. Field and Pool or Exploratory Area PURPLE SAGE/WOLFCAMP

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)* SEC 28/T25S/R31E/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.)

POKER LAKE UNIT 28 BS 113H

SUNDRY LANGUAGE

APD ID number 10400094326 has an approved API number of 30-015-55764. XTO Permian Operating, LLC. respectfully requests approval to make the following changes to the approved APD. Name change FROM Poker Lake Unit 28 BS 108H TO Poker Lake Unit 28 BS 113H. Changes also include KOP, FTP, LTP, BHL, & Proposed total Depth. There will be no additional surface disturbance. There is a dedicated acreage change.

FROM: TO:
KOP: 2435 FNL & 660 FWL OF SECTION 28-T25S-R31E 2037 FNL & 798 FWL OF SECTION 28-T25S-R31E
FTP: 2435' FNL & 330' FWL OF SECTION 28-T25S-R31E 2553' FSL & 800' FWL OF SECTION 28-T25S-R31E

Continued on page 3 additional information

14. I hereby certify that the foregoing is true and correct. Name *(Printed/Typed)* SAMANTHA WEIS / Ph: (832) 625-7361

Title Permitting Advisor

Signature (Electronic Submission)

Date 12/10/2024

THE SPACE FOR FEDERAL OR STATE OFICE USE

Approved by CODY LAYTON / Ph: (575) 234-5959 / Approved

Title Assistant Field Manager Lands &

Date 01/13/2025

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

LTP: 100' FSL & 330' FWL OF SECTION 4-T26S-R31E 100' FSL & 800' FWL OF SECTION 4-T26S-R31E

BHL: 50' FSL & 330' FWL OF SECTION 4-T26S-R31E 50' FSL & 800' FWL OF SECTION 4-T26S-R31E

The proposed total depth is changing from 23706 MD; 9891 TVD (Bone Spring) to 24343 MD; 10780 TVD (Bone Spring).

A saturated salt brine will be utilized while drilling through the salt formations.

Location of Well

0. SHL: SWNW / 2435 FNL / 660 FWL / TWSP: 25S / RANGE: 31E / SECTION: 28 / LAT: 32.101875 / LONG: -103.7896 (TVD: 0 feet, MD: 0 feet)

PPP: SWNW / 2435 FNL / 330 FWL / TWSP: 25S / RANGE: 31E / SECTION: 28 / LAT: 32.101877 / LONG: -103.790666 (TVD: 9891 feet, MD: 10300 feet)

PPP: NWNW / 0 FNL / 350 FWL / TWSP: 25S / RANGE: 31E / SECTION: 33 / LAT: 32.093982 / LONG: -103.790679 (TVD: 9891 feet, MD: 13300 feet)

PPP: NWSW / 2654 FNL / 331 FWL / TWSP: 25S / RANGE: 31E / SECTION: 28 / LAT: 32.101275 / LONG: -103.790667 (TVD: 9891 feet, MD: 10700 feet)

BHL: SWSW / 50 FSL / 330 FWL / TWSP: 26S / RANGE: 31E / SECTION: 4 / LAT: 32.064882 / LONG: -103.790726 (TVD: 9891 feet, MD: 23706 feet)

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO
LEASE NO.:	**NMLC062140A**
LOCATION:	Sec. 28, T.25 S, R 31 E
COUNTY:	Eddy County, New Mexico
WELL NAME & NO.:	Poker Lake Unit 28 BS 110H
SURFACE HOLE FOOTAGE:	2435'/N & 600'/W
BOTTOM HOLE FOOTAGE:	2649'/N & 656'/E

WELL NAME & NO.:	Poker Lake Unit 28 BS 113H
SURFACE HOLE FOOTAGE:	2435'/N & 660'/W
BOTTOM HOLE FOOTAGE:	50'/S & 800'/W

WELL NAME & NO.:	Poker Lake Unit 28 BS 109H
SURFACE HOLE FOOTAGE:	2435'/N & 630'/W
BOTTOM HOLE FOOTAGE:	50'/S & 500'/W

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	

*Changes approved through engineering via **Sundry 2820800,2820803,2826587**_ on 1-13-2025_.*
Any previous COAs not addressed within the updated COAs still apply.

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 **947** 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 6823'- 6849'.**
    b. **Second stage:** Operator will perform bradenhead squeeze and top-out. Cement to surface. If cement does not reach surface, the appropriate BLM office shall be notified.

Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst.

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

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

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 doghouse 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 1/13/2025

575-234-5998 / zstevens@blm.gov

GENERAL REQUIREMENTS

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

d. Spudding well (minimum of 24 hours)
e. Setting and/or Cementing of all casing strings (minimum of 4 hours)
f. 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

4. 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.
5. 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.
6. 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.

E. 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.

F. 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**.

G. 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.

H. WASTE MATERIAL AND FLUIDS

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Approved by Zota Stevens on 1/13/2025
575-234-5998 / zstevens@blm.gov

C-102

Submit Electronically
Via OCD Permitting

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION

Revised July 9, 2024

Submittal Type: ☐ Initial Submittal ☒ Amended Report ☐ As Drilled

WELL LOCATION INFORMATION

API Number	Pool Code	Pool Name
30-015 -55764	97860	Jennings, Bone Springs, west

Property Code	Property Name	Well Number
	POKER LAKE UNIT 28 BS	113H

ORGID No.	Operator Name	Ground Level Elevation
373075	XTO PERMIAN OPERATING, LLC.	3,329'

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
E	28	25 S	31 E		2,435' FNL	660' FWL	32.101875	-103.789599	EDDY

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
M	4	26 S	31 E		50' FSL	800' FWL	32.064884	-103.789209	EDDY

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
400	Defining		No	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
E	28	25 S	31 E		2,037' FNL	798' FWL	32.102968	-103.789150	EDDY

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
L	28	25 S	31 E		2,553' FSL	800' FWL	32.100999	-103.789153	EDDY

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
M	4	26 S	31 E		100' FSL	800' FWL	32.065022	-103.789209	EDDY

Unitized Area or Area of Uniform Interest	Spacing Unit Type	Ground Floor Elevation:
NMNM-071016X	☒ Horizontal ☐ Vertical	3,329'

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 — 12/6/2024

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.

4 Dec 2024

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	12/3/2024

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:	12-3-2024	PROJECT NO:	2023040158
DRAWN BY:	LM	SCALE:	
CHECKED BY:	CH	SHEET:	1 OF 2
FIELD CREW:	IR	REVISION:	1

ACREAGE DEDICATION PLATS

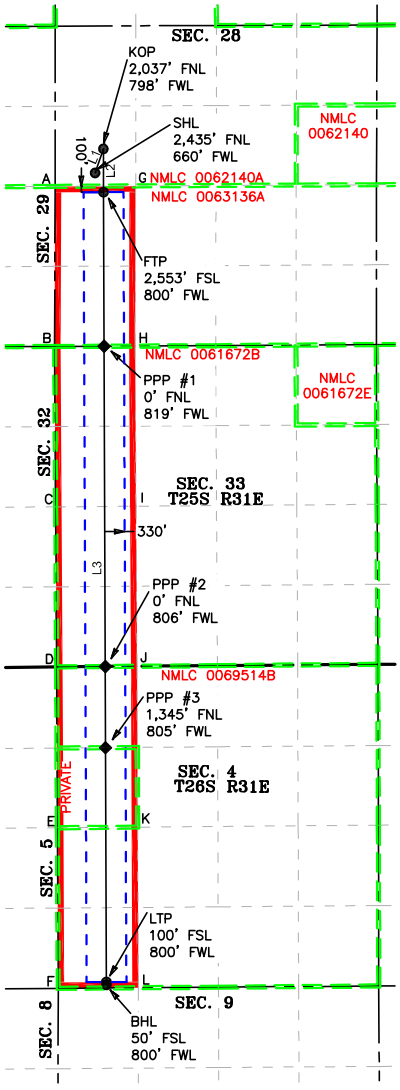
This grid represents a standard section. You may superimpose a non-standard section, or a larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the 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	18° 58'56"	421.09'
L2	179° 47'21"	716.20'
L3	179° 47'12"	13,138.04'



COORDINATE TABLE					
SHL (NAD 83 NME)			FTP (NAD 83 NME)		
Y =	401,223.4	N	Y =	400,905.4	N
X =	709,703.2	E	X =	709,842.8	E
LAT. =	32.101875	°N	LAT. =	32.100999	°N
LONG. =	103.789599	°W	LONG. =	103.789153	°W
KOP (NAD 83 NME)					
Y =	401,621.6	N			
X =	709,840.1	E			
LAT. =	32.102968	°N			
LONG. =	103.789150	°W			
LTP (NAD 83 NME)			BHL (NAD 83 NME)		
Y =	387,817.5	N	Y =	387,767.5	N
X =	709,891.4	E	X =	709,891.7	E
LAT. =	32.065022	°N	LAT. =	32.064884	°N
LONG. =	103.789209	°W	LONG. =	103.789209	°W
SHL (NAD 27 NME)			FTP (NAD 27 NME)		
Y =	401,165.5	N	Y =	400,847.5	N
X =	668,517.5	E	X =	668,657.1	E
LAT. =	32.101751	°N	LAT. =	32.100875	°N
LONG. =	103.789121	°W	LONG. =	103.788675	°W
KOP (NAD 27 NME)					
Y =	401,563.7	N			
X =	668,654.4	E			
LAT. =	32.102844	°N			
LONG. =	103.788672	°W			
LTP (NAD 27 NME)			BHL (NAD 27 NME)		
Y =	387,760.0	N	Y =	387,710.0	N
X =	668,705.2	E	X =	668,705.5	E
LAT. =	32.064897	°N	LAT. =	32.064760	°N
LONG. =	103.788733	°W	LONG. =	103.788733	°W
PPP #1 (NAD 83 NME)			PPP #1 (NAD 27 NME)		
Y =	398,352.6	N	Y =	398,294.8	N
X =	709,852.3	E	X =	668,666.5	E
LAT. =	32.093982	°N	LAT. =	32.093857	°N
LONG. =	103.789164	°W	LONG. =	103.788687	°W
PPP #2 (NAD 83 NME)			PPP #2 (NAD 27 NME)		
Y =	393,044.9	N	Y =	392,987.2	N
X =	709,872.0	E	X =	668,686.0	E
LAT. =	32.079392	°N	LAT. =	32.079267	°N
LONG. =	103.789187	°W	LONG. =	103.788710	°W
PPP #3 (NAD 83 NME)			PPP #3 (NAD 27 NME)		
Y =	391,700.1	N	Y =	391,642.5	N
X =	709,877.0	E	X =	668,691.0	E
LAT. =	32.075695	°N	LAT. =	32.075570	°N
LONG. =	103.789193	°W	LONG. =	103.788716	°W

CORNER COORDINATES (NAD83 NME)					
A - Y =	401,001.6	N	A - X =	709,043.1	E
B - Y =	398,348.5	N	B - X =	709,032.9	E
C - Y =	395,690.8	N	C - X =	709,049.4	E
D - Y =	393,038.4	N	D - X =	709,066.3	E
E - Y =	390,373.0	N	E - X =	709,078.3	E
F - Y =	387,711.6	N	F - X =	709,092.0	E
G - Y =	401,008.0	N	G - X =	710,375.2	E
H - Y =	398,355.2	N	H - X =	710,366.6	E
I - Y =	395,701.2	N	E - X =	710,382.1	E
J - Y =	393,049.2	N	F - X =	710,397.7	E
K - Y =	390,383.8	N	G - X =	710,408.3	E
L - Y =	387,721.3	N	H - X =	710,419.7	E
CORNER COORDINATES (NAD27 NME)					
A - Y =	400,943.7	N	A - X =	667,857.4	E
B - Y =	398,290.7	N	B - X =	667,847.1	E
C - Y =	395,633.1	N	C - X =	667,863.5	E
D - Y =	392,980.7	N	D - X =	667,880.3	E
E - Y =	390,315.4	N	E - X =	667,892.2	E
F - Y =	387,654.1	N	F - X =	667,905.8	E
G - Y =	400,950.1	N	G - X =	669,189.5	E
H - Y =	398,297.4	N	H - X =	669,180.8	E
I - Y =	395,643.5	N	E - X =	669,196.2	E
J - Y =	392,991.5	N	F - X =	669,211.7	E
K - Y =	390,326.2	N	G - X =	669,222.2	E
L - Y =	387,663.8	N	H - X =	669,233.5	E

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

DATE:	12-3-2024	PROJECT NO:	2023040158
DRAWN BY:	LM	SCALE:	1" = 2,500'
CHECKED BY:	CH	SHEET:	2 OF 2
FIELD CREW:	IR	REVISION:	1

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

XTO Energy Inc.
POKER LAKE UNIT 28 BS 113H
Projected TD: 24342.63' MD / 10780' TVD
SHL: 2435' FNL & 660' FWL , Section 28, T25S, R31E
BHL: 50' FSL & 800' FWL , Section 4, T26S, R31E
EDDY County, NM

1. Geologic Name of Surface Formation

A. Quaternary

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

Formation	Well Depth (TVD)	Water/Oil/Gas
Rustler	892'	Water
Top of Salt	1174'	Water
Base of Salt	3970'	Water
Delaware	4177'	Water
Brushy Canyon	6858'	Water/Oil/Gas
Bone Spring	8155'	Water
Avalon	8250'	Water/Oil/Gas
1st Bone Spring	8918'	Water/Oil/Gas
2nd Bone Spring	9395'	Water/Oil/Gas
3rd Bone Spring	10257'	Water/Oil/Gas
Target/Land Curve	10780'	Water/Oil/Gas

*** Hydrocarbons @ Brushy Canyon
*** Groundwater depth 40' (per NM State Engineers Office).

No other formations are expected to yield oil, gas or fresh water in measurable volumes. The surface fresh water sands will be protected by setting 9.625 inch casing @ 992' (182' above the salt) and circulating cement back to surface. The intermediate will isolate from the top of salt down to the next casing seat by setting 7.625 inch casing at 9880.04' and cemented to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 24342.63 MD/TD and 5.5 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 9580.04 feet).

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0' – 992'	9.625	40	J-55	BTC	New	1.61	6.35	15.88
8.75	0' – 4000'	7.625	29.7	RY P-110	Flush Joint	New	2.83	2.86	1.90
8.75	4000' – 9880.04'	7.625	29.7	HC L-80	Flush Joint	New	2.06	2.32	2.32
6.75	0' – 9780.04'	5.5	20	RY P-110	Freedom/Semi-Permium	New	1.05	2.14	2.03
6.75	9780.04' - 24342.63'	5.5	20	RY P-110	Talon/Semi-Flush	New	1.05	1.94	2.03

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

Wellhead:

Operator will utilize Multibowl System - SEE ATTACHED

4. Cement Program

Surface Casing: 9.625, 40 New BTC, J-55 casing to be set at +/- 992'

Lead: 230 sxs EconoCem-HLTRRC (mixed at 10.5 ppg, 1.87 ft3/sx, 10.13 gal/sx water)
Tail: 130 sxs Class C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)
Top of Cement: Surface
Compressives: 12-hr = 900 psi 24 hr = 1500 psi

Intermediate Casing: 7.625, 29.7 New casing to be set at +/- 9880.04'
1st Stage
Optional Lead: 370 sxs Class C (mixed at 10.5 ppg, 2.77 ft3/sx, 15.59 gal/sx water)
TOC: Surface
Tail: 280 sxs Class C (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)
TOC: Brushy Canyon @ 6858
Compressives: 12-hr = 900 psi 24 hr = 1150 psi

2nd Stage
Lead: 0 sxs Class C (mixed at 12.9 ppg, 2.16 ft3/sx, 9.61 gal/sx water)
Tail: 770 sxs Class C (mixed at 14.8 ppg, 1.33 ft3/sx, 6.39 gal/sx water)
Top of Cement: 0
Compressives: 12-hr = 900 psi 24 hr = 1150 psi

XTO requests to pump a two stage cement job on the 7-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brush Canyon (6858') and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If cement is not visually confirmed to circulate to surface, the final cement top after the second stage job will be verified by Echo-meter. If necessary, a top out consisting of 1,500 sack of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. If cement is still unable to circulate to surface, another Echo-meter run will be performed for cement top verification.

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

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

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

Production Casing: 5.5, 20 New Talon/Semi-Flush, RY P-110 casing to be set at +/- 24342.63'

Lead: 20 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft3/sx, 15.00 gal/sx water) Top of Cement: 9580.04 feet
Tail: 1020 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft3/sx, 8.38 gal/sx water) Top of Cement: 10080.04 feet
Compressives: 12-hr = 800 psi 24 hr = 1500 psi

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

5. Pressure Control Equipment

Once the permanent WH is installed on the surface casing, the blow out preventer equipment (BOP) will consist of a **5M Hydril Annular** and **a 10M Triple Ram** BOP

All BOP testing will be done by an independent service company. Operator will test as per BLM CFR43-3172

A variance is requested to allow use of a flex hose as the choke line from the BOP to the Choke Manifold. If this hose is used, a copy of the manufacturer's certification and pressure test chart will be kept on the rig. Attached is an example of a certification and pressure test chart. The manufacturer does not require anchors.

XTO requests a variance to be able to batch drill this well if necessary. In doing so, XTO will set casing and ensure that the well is cemented properly (unless approval is given for offline cementing) and the well is static. With floats holding, no pressure on the csg annulus, and the installation of a 10K TA cap as per Cactus recommendations, XTO will contact the BLM to skid the rig to drill the remaining wells on the pad. Once surface and both intermediate strings are all completed, XTO will begin drilling the production hole on each of the wells.

A variance is requested to **ONLY** test broken pressure seals on the BOP equipment when moving from wellhead to wellhead which is in compliance with API Standard 53. API standard 53 states, that for pad drilling operation, moving from one wellhead to another within 21 days, pressure testing is required for pressure-containing and pressure-controlling connections when the integrity of a pressure seal is broken. We will request permission to **ONLY** retest broken pressure seals if the following conditions are met: 1. After a full BOP test is conducted on the first well on the pad 2. When skidding to drill an intermediate section that does not penetrate into the Wolfcamp.

6. Proposed Mud Circulation System

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)	Additional Comments
0' - 992'	12.25	FW/Native	8.4-8.9	35-40	NC	Fresh water or native water
992' - 9880.04'	8.75	Saturated brine for salt interval / Direct Emulsion	9-9.5	30-32	NC	Fully saturated salt across salado / salt
9880.04' - 24342.63'	6.75	OBM	10.2-10.7	50-60	NC - 20	N/A

The necessary mud products for weight addition and fluid loss control will be on location at all times.

Spud with fresh water/native mud. Drill out from under surface casing with Saturated Salt. A saturated salt brine mud will be used while drilling through the salt formation. Use fibrous materials as needed to control seepage and lost circulation. Pump viscous sweeps as needed for hole cleaning. Pump speed will be recorded on a daily drilling report after mudding up. A Pason or Totco will be used to detect changes in loss or gain of mud volume. A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system.

7. Auxiliary Well Control and Monitoring Equipment

A. A Kelly cock will be in the drill string at all times.
B. A full opening drill pipe stabbing valve having appropriate connections will be on the rig floor at all times.
C. H2S monitors will be on location when drilling below the 9.625 casing.

8. Logging, Coring and Testing Program

Open hole logging will not be done on this well.

9. Abnormal Pressures and Temperatures / Potential Hazards

None Anticipated. BHT of 170 to 190 F is anticipated. No H2S is expected but monitors will be in place to detect any H2S occurrences. Should these circumstances be encountered the operator and drilling contractor are prepared to take all necessary steps to ensure safety of all personnel and environment. Lost circulation could occur but is not expected to be a serious problem in this area and hole seepage will be compensated for by additions of small amounts of LCM in the drilling fluid.

10. Anticipated Starting Date and Duration of Operations

Anticipated spud date will be after BLM approval. Move in operations and drilling is expected to take 40 days.

Well Plan Report - Poker Lake Unit 28 BS 113H

Measured Depth:	24342.63 ft
TVD RKB:	10780.00 ft
Location	
Cartographic Reference System:	New Mexico East - NAD 27
Northing:	401165.50 ft
Easting:	668517.50 ft
RKB:	3361.00 ft
Ground Level:	3329.00 ft
North Reference:	Grid
Convergence Angle:	0.29 Deg

Plan Sections Poker Lake Unit 28 BS 113H

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	0	0	0	0	0	0	0	0	
1100	0	0	1100	0	0	0	0	0	
1323.94	4.48	18.98	1323.71	8.27	2.85	2	0	2	
6492.3	4.48	18.98	6476.29	389.92	134.12	0	0	0	
6716.24	0	0	6700	398.19	136.97	-2	0	2	
10080.04	0	0	10063.8	398.19	136.97	0	0	0	
11205.04	90	179.79	10780	-318	139.6	8	0	8	FTP 7
24292.63	90	179.79	10780	-13405.5	187.7	0	0	0	LTP 7
24342.63	90	179.79	10780	-13455.5	187.88	0	0	0	BHL 1

Position Uncertainty Poker Lake Unit 28 BS 108H

Measured Depth (ft)	Inclination (°)	Azimuth (°)	TVD RKB (ft)	Highside Error (ft)	Bias (ft)	Lateral Error (ft)	Bias (ft)	Vertical Error (ft)	Bias (ft)	Magnitude of Bias (ft)	Semi-major Error (ft)	Semi-minor Error (ft)	Semi-minor Azimuth (°)	Tool Used
0	0	0	0	0	0	0	0	0	0	0	0	0	0	XOMR2_OWSG MWD+IFR1+MS
100	0	0	100	0.358	0	0.179	0	2.3	0	0	0.358	0.179	90	XOMR2_OWSG MWD+IFR1+MS
200	0	0	200	0.717	0	0.538	0	2.309	0	0	0.717	0.538	90	XOMR2_OWSG MWD+IFR1+MS
300	0	0	300	1.075	0	0.896	0	2.325	0	0	1.075	0.896	90	XOMR2_OWSG MWD+IFR1+MS
400	0	0	400	1.434	0	1.255	0	2.347	0	0	1.434	1.255	90	XOMR2_OWSG MWD+IFR1+MS
500	0	0	500	1.792	0	1.613	0	2.374	0	0	1.792	1.613	90	XOMR2_OWSG MWD+IFR1+MS
600	0	0	600	2.151	0	1.972	0	2.406	0	0	2.151	1.972	90	XOMR2_OWSG MWD+IFR1+MS
700	0	0	700	2.509	0	2.33	0	2.443	0	0	2.509	2.33	90	XOMR2_OWSG MWD+IFR1+MS
800	0	0	800	2.868	0	2.689	0	2.485	0	0	2.868	2.689	90	XOMR2_OWSG MWD+IFR1+MS
900	0	0	900	3.226	0	3.047	0	2.531	0	0	3.226	3.047	90	XOMR2_OWSG MWD+IFR1+MS
1000	0	0	1000	3.585	0	3.405	0	2.58	0	0	3.585	3.405	90	XOMR2_OWSG MWD+IFR1+MS
1100	0	0	1100	3.943	0	3.764	0	2.634	0	0	3.943	3.764	90	XOMR2_OWSG MWD+IFR1+MS
1200	2	18.982	1199.98	4.281	0	4.141	0	2.69	0	0	4.301	4.121	90.056	XOMR2_OWSG MWD+IFR1+MS
1300	4	18.982	1299.838	4.632	0	4.497	0	2.747	0	0	4.66	4.477	90.271	XOMR2_OWSG MWD+IFR1+MS
1323.938	4.479	18.982	1323.71	4.715	0	4.582	0	2.759	0	0	4.747	4.563	90.438	XOMR2_OWSG MWD+IFR1+MS
1400	4.479	18.982	1399.54	4.987	0	4.852	0	2.807	0	0	5.019	4.833	90.443	XOMR2_OWSG MWD+IFR1+MS
1500	4.479	18.982	1499.234	5.345	0	5.208	0	2.872	0	0	5.376	5.189	90.419	XOMR2_OWSG MWD+IFR1+MS
1600	4.479	18.982	1598.929	5.704	0	5.565	0	2.94	0	0	5.734	5.545	90.414	XOMR2_OWSG MWD+IFR1+MS
1700	4.479	18.982	1698.624	6.063	0	5.922	0	3.011	0	0	6.092	5.902	90.424	XOMR2_OWSG MWD+IFR1+MS
1800	4.479	18.982	1798.318	6.423	0	6.279	0	3.084	0	0	6.451	6.259	90.446	XOMR2_OWSG MWD+IFR1+MS
1900	4.479	18.982	1898.013	6.783	0	6.637	0	3.159	0	0	6.81	6.617	90.477	XOMR2_OWSG MWD+IFR1+MS
2000	4.479	18.982	1997.708	7.143	0	6.994	0	3.236	0	0	7.169	6.975	90.517	XOMR2_OWSG MWD+IFR1+MS
2100	4.479	18.982	2097.402	7.504	0	7.352	0	3.315	0	0	7.528	7.333	90.563	XOMR2_OWSG MWD+IFR1+MS
2200	4.479	18.982	2197.097	7.865	0	7.71	0	3.395	0	0	7.888	7.691	90.614	XOMR2_OWSG MWD+IFR1+MS
2300	4.479	18.982	2296.791	8.226	0	8.069	0	3.478	0	0	8.248	8.049	90.67	XOMR2_OWSG MWD+IFR1+MS
2400	4.479	18.982	2396.486	8.587	0	8.427	0	3.561	0	0	8.608	8.407	90.729	XOMR2_OWSG MWD+IFR1+MS
2500	4.479	18.982	2496.181	8.948	0	8.786	0	3.647	0	0	8.968	8.766	90.792	XOMR2_OWSG MWD+IFR1+MS
2600	4.479	18.982	2595.875	9.309	0	9.144	0	3.734	0	0	9.328	9.124	90.857	XOMR2_OWSG MWD+IFR1+MS
2700	4.479	18.982	2695.57	9.67	0	9.503	0	3.822	0	0	9.689	9.483	90.924	XOMR2_OWSG MWD+IFR1+MS
2800	4.479	18.982	2795.265	10.032	0	9.862	0	3.912	0	0	10.049	9.842	90.992	XOMR2_OWSG MWD+IFR1+MS
2900	4.479	18.982	2894.959	10.394	0	10.22	0	4.003	0	0	10.41	10.2	91.062	XOMR2_OWSG MWD+IFR1+MS
3000	4.479	18.982	2994.654	10.755	0	10.579	0	4.096	0	0	10.77	10.559	91.133	XOMR2_OWSG MWD+IFR1+MS
3100	4.479	18.982	3094.349	11.117	0	10.938	0	4.19	0	0	11.131	10.918	91.204	XOMR2_OWSG MWD+IFR1+MS

3200	4.479	18.982	3194.043	11.479	0	11.297	0	4.285	0	0	11.492	11.277	91.277	XOMR2_OWSG MWD+IFR1+MS
3300	4.479	18.982	3293.738	11.841	0	11.656	0	4.382	0	0	11.853	11.636	91.349	XOMR2_OWSG MWD+IFR1+MS
3400	4.479	18.982	3393.432	12.203	0	12.015	0	4.48	0	0	12.214	11.995	91.422	XOMR2_OWSG MWD+IFR1+MS
3500	4.479	18.982	3493.127	12.565	0	12.374	0	4.58	0	0	12.575	12.354	91.495	XOMR2_OWSG MWD+IFR1+MS
3600	4.479	18.982	3592.822	12.927	0	12.733	0	4.681	0	0	12.936	12.713	91.568	XOMR2_OWSG MWD+IFR1+MS
3700	4.479	18.982	3692.516	13.289	0	13.093	0	4.783	0	0	13.297	13.073	91.641	XOMR2_OWSG MWD+IFR1+MS
3800	4.479	18.982	3792.211	13.651	0	13.452	0	4.887	0	0	13.658	13.432	91.714	XOMR2_OWSG MWD+IFR1+MS
3900	4.479	18.982	3891.906	14.013	0	13.811	0	4.992	0	0	14.019	13.791	91.786	XOMR2_OWSG MWD+IFR1+MS
4000	4.479	18.982	3991.6	14.375	0	14.17	0	5.099	0	0	14.38	14.15	91.858	XOMR2_OWSG MWD+IFR1+MS
4100	4.479	18.982	4091.295	14.737	0	14.53	0	5.207	0	0	14.741	14.51	91.93	XOMR2_OWSG MWD+IFR1+MS
4200	4.479	18.982	4190.99	15.099	0	14.889	0	5.317	0	0	15.102	14.869	92.002	XOMR2_OWSG MWD+IFR1+MS
4300	4.479	18.982	4290.684	15.462	0	15.248	0	5.428	0	0	15.464	15.228	92.073	XOMR2_OWSG MWD+IFR1+MS
4400	4.479	18.982	4390.379	15.824	0	15.608	0	5.541	0	0	15.825	15.587	92.143	XOMR2_OWSG MWD+IFR1+MS
4500	4.479	18.982	4490.073	16.186	0	15.967	0	5.656	0	0	16.186	15.947	92.214	XOMR2_OWSG MWD+IFR1+MS
4600	4.479	18.982	4589.768	16.548	0	16.326	0	5.773	0	0	16.547	16.306	92.283	XOMR2_OWSG MWD+IFR1+MS
4700	4.479	18.982	4689.463	16.911	0	16.686	0	5.891	0	0	16.909	16.666	92.352	XOMR2_OWSG MWD+IFR1+MS
4800	4.479	18.982	4789.157	17.273	0	17.045	0	6.011	0	0	17.27	17.025	92.421	XOMR2_OWSG MWD+IFR1+MS
4900	4.479	18.982	4888.852	17.635	0	17.404	0	6.132	0	0	17.631	17.384	92.489	XOMR2_OWSG MWD+IFR1+MS
5000	4.479	18.982	4988.547	17.998	0	17.764	0	6.256	0	0	17.993	17.744	92.557	XOMR2_OWSG MWD+IFR1+MS
5100	4.479	18.982	5088.241	18.36	0	18.123	0	6.381	0	0	18.354	18.103	92.624	XOMR2_OWSG MWD+IFR1+MS
5200	4.479	18.982	5187.936	18.723	0	18.483	0	6.508	0	0	18.716	18.463	92.691	XOMR2_OWSG MWD+IFR1+MS
5300	4.479	18.982	5287.631	19.085	0	18.842	0	6.638	0	0	19.077	18.822	92.757	XOMR2_OWSG MWD+IFR1+MS
5400	4.479	18.982	5387.325	19.447	0	19.202	0	6.769	0	0	19.439	19.182	92.822	XOMR2_OWSG MWD+IFR1+MS
5500	4.479	18.982	5487.02	19.81	0	19.561	0	6.902	0	0	19.8	19.541	92.887	XOMR2_OWSG MWD+IFR1+MS
5600	4.479	18.982	5586.714	20.172	0	19.921	0	7.037	0	0	20.161	19.901	92.951	XOMR2_OWSG MWD+IFR1+MS
5700	4.479	18.982	5686.409	20.535	0	20.28	0	7.174	0	0	20.523	20.26	93.015	XOMR2_OWSG MWD+IFR1+MS
5800	4.479	18.982	5786.104	20.897	0	20.64	0	7.314	0	0	20.885	20.62	93.078	XOMR2_OWSG MWD+IFR1+MS
5900	4.479	18.982	5885.798	21.26	0	20.999	0	7.455	0	0	21.246	20.979	93.141	XOMR2_OWSG MWD+IFR1+MS
6000	4.479	18.982	5985.493	21.622	0	21.359	0	7.599	0	0	21.608	21.339	93.203	XOMR2_OWSG MWD+IFR1+MS
6100	4.479	18.982	6085.188	21.985	0	21.718	0	7.744	0	0	21.969	21.698	93.265	XOMR2_OWSG MWD+IFR1+MS
6200	4.479	18.982	6184.882	22.347	0	22.078	0	7.892	0	0	22.331	22.058	93.326	XOMR2_OWSG MWD+IFR1+MS
6300	4.479	18.982	6284.577	22.71	0	22.437	0	8.043	0	0	22.692	22.417	93.387	XOMR2_OWSG MWD+IFR1+MS
6400	4.479	18.982	6384.272	23.072	0	22.797	0	8.195	0	0	23.054	22.777	93.447	XOMR2_OWSG MWD+IFR1+MS
6492.301	4.479	18.982	6476.29	23.407	0	23.129	0	8.338	0	0	23.388	23.109	93.502	XOMR2_OWSG MWD+IFR1+MS
6500	4.325	18.982	6483.967	23.435	0	23.156	0	8.35	0	0	23.415	23.136	93.506	XOMR2_OWSG MWD+IFR1+MS

6600	2.325	18.982	6583.794	23.792	0	23.515	0	8.507	0	0	23.775	23.495	93.542	XOMR2_QWSG MWD+IFR1+MS
6700	0.325	18.982	6683.762	24.12	0	23.871	0	8.665	0	0	24.132	23.851	93.552	XOMR2_QWSG MWD+IFR1+MS
6716.238	0	0	6700	24.189	0	23.91	0	8.69	0	0	24.19	23.909	93.544	XOMR2_QWSG MWD+IFR1+MS
6800	0	0	6783.762	24.486	0	24.207	0	8.822	0	0	24.487	24.206	93.477	XOMR2_QWSG MWD+IFR1+MS
6900	0	0	6883.762	24.841	0	24.562	0	8.983	0	0	24.842	24.561	93.399	XOMR2_QWSG MWD+IFR1+MS
7000	0	0	6983.762	25.195	0	24.917	0	9.145	0	0	25.196	24.916	93.322	XOMR2_QWSG MWD+IFR1+MS
7100	0	0	7083.762	25.55	0	25.272	0	9.311	0	0	25.551	25.271	93.248	XOMR2_QWSG MWD+IFR1+MS
7200	0	0	7183.762	25.905	0	25.627	0	9.479	0	0	25.906	25.626	93.176	XOMR2_QWSG MWD+IFR1+MS
7300	0	0	7283.762	26.26	0	25.982	0	9.649	0	0	26.261	25.981	93.105	XOMR2_QWSG MWD+IFR1+MS
7400	0	0	7383.762	26.615	0	26.337	0	9.822	0	0	26.616	26.337	93.037	XOMR2_QWSG MWD+IFR1+MS
7500	0	0	7483.762	26.97	0	26.693	0	9.998	0	0	26.971	26.692	92.97	XOMR2_QWSG MWD+IFR1+MS
7600	0	0	7583.762	27.326	0	27.048	0	10.177	0	0	27.326	27.047	92.904	XOMR2_QWSG MWD+IFR1+MS
7700	0	0	7683.762	27.681	0	27.404	0	10.358	0	0	27.682	27.403	92.841	XOMR2_QWSG MWD+IFR1+MS
7800	0	0	7783.762	28.037	0	27.759	0	10.542	0	0	28.037	27.759	92.778	XOMR2_QWSG MWD+IFR1+MS
7900	0	0	7883.762	28.392	0	28.115	0	10.729	0	0	28.393	28.114	92.718	XOMR2_QWSG MWD+IFR1+MS
8000	0	0	7983.762	28.748	0	28.471	0	10.918	0	0	28.748	28.47	92.659	XOMR2_QWSG MWD+IFR1+MS
8100	0	0	8083.762	29.103	0	28.826	0	11.11	0	0	29.104	28.826	92.601	XOMR2_QWSG MWD+IFR1+MS
8200	0	0	8183.762	29.459	0	29.182	0	11.305	0	0	29.46	29.182	92.544	XOMR2_QWSG MWD+IFR1+MS
8300	0	0	8283.762	29.815	0	29.538	0	11.503	0	0	29.816	29.538	92.489	XOMR2_QWSG MWD+IFR1+MS
8400	0	0	8383.762	30.171	0	29.894	0	11.704	0	0	30.171	29.894	92.435	XOMR2_QWSG MWD+IFR1+MS
8500	0	0	8483.762	30.527	0	30.25	0	11.907	0	0	30.527	30.25	92.382	XOMR2_QWSG MWD+IFR1+MS
8600	0	0	8583.762	30.883	0	30.606	0	12.113	0	0	30.883	30.606	92.331	XOMR2_QWSG MWD+IFR1+MS
8700	0	0	8683.762	31.239	0	30.963	0	12.323	0	0	31.239	30.962	92.28	XOMR2_QWSG MWD+IFR1+MS
8800	0	0	8783.762	31.595	0	31.319	0	12.535	0	0	31.595	31.318	92.231	XOMR2_QWSG MWD+IFR1+MS
8900	0	0	8883.762	31.951	0	31.675	0	12.75	0	0	31.952	31.675	92.182	XOMR2_QWSG MWD+IFR1+MS
9000	0	0	8983.762	32.307	0	32.031	0	12.967	0	0	32.308	32.031	92.135	XOMR2_QWSG MWD+IFR1+MS
9100	0	0	9083.762	32.664	0	32.388	0	13.188	0	0	32.664	32.387	92.089	XOMR2_QWSG MWD+IFR1+MS
9200	0	0	9183.762	33.02	0	32.744	0	13.412	0	0	33.02	32.744	92.043	XOMR2_QWSG MWD+IFR1+MS
9300	0	0	9283.762	33.376	0	33.1	0	13.638	0	0	33.377	33.1	91.999	XOMR2_QWSG MWD+IFR1+MS
9400	0	0	9383.762	33.733	0	33.457	0	13.868	0	0	33.733	33.457	91.955	XOMR2_QWSG MWD+IFR1+MS
9500	0	0	9483.762	34.089	0	33.814	0	14.1	0	0	34.089	33.813	91.913	XOMR2_QWSG MWD+IFR1+MS
9600	0	0	9583.762	34.446	0	34.17	0	14.335	0	0	34.446	34.17	91.871	XOMR2_QWSG MWD+IFR1+MS
9700	0	0	9683.762	34.802	0	34.527	0	14.574	0	0	34.802	34.526	91.83	XOMR2_QWSG MWD+IFR1+MS
9800	0	0	9783.762	35.159	0	34.883	0	14.815	0	0	35.159	34.883	91.79	XOMR2_QWSG MWD+IFR1+MS
9900	0	0	9883.762	35.515	0	35.24	0	15.059	0	0	35.516	35.24	91.75	XOMR2_QWSG MWD+IFR1+MS

10000	0	0	9983.762	35.872	0	35.597	0	15.306	0	0	35.872	35.596	91.712	XOMR2_OWSG MWD+IFR1+MS
10080.041	0	0	10063.803	36.157	0	35.882	0	15.506	0	0	36.158	35.882	91.681	XOMR2_OWSG MWD+IFR1+MS
10100	1.597	179.789	10083.759	36.179	0	35.95	0	15.556	0	0	36.225	35.95	91.672	XOMR2_OWSG MWD+IFR1+MS
10200	9.597	179.789	10183.202	35.917	0	36.265	0	15.802	0	0	36.536	36.265	91.613	XOMR2_OWSG MWD+IFR1+MS
10300	17.597	179.789	10280.32	35.079	0	36.565	0	16.035	0	0	36.828	36.564	91.568	XOMR2_OWSG MWD+IFR1+MS
10400	25.597	179.789	10373.224	33.694	0	36.845	0	16.25	0	0	37.091	36.845	91.613	XOMR2_OWSG MWD+IFR1+MS
10500	33.597	179.789	10460.106	31.815	0	37.104	0	16.446	0	0	37.321	37.103	91.864	XOMR2_OWSG MWD+IFR1+MS
10600	41.597	179.789	10539.274	29.521	0	37.338	0	16.624	0	0	37.512	37.338	92.578	XOMR2_OWSG MWD+IFR1+MS
10700	49.597	179.789	10609.188	26.929	0	37.546	0	16.787	0	0	37.665	37.545	94.607	XOMR2_OWSG MWD+IFR1+MS
10800	57.597	179.789	10668.486	24.198	0	37.728	0	16.943	0	0	37.78	37.725	103.246	XOMR2_OWSG MWD+IFR1+MS
10900	65.597	179.789	10716.015	21.559	0	37.881	0	17.099	0	0	37.889	37.847	-25.72	XOMR2_OWSG MWD+IFR1+MS
11000	73.597	179.789	10750.849	19.329	0	38.007	0	17.264	0	0	38.011	37.897	-11.448	XOMR2_OWSG MWD+IFR1+MS
11100	81.597	179.789	10772.311	17.902	0	38.103	0	17.443	0	0	38.108	37.921	-9.089	XOMR2_OWSG MWD+IFR1+MS
11205.041	90	179.789	10780	17.651	0	38.172	0	17.651	0	0	38.178	37.93	-8.894	XOMR2_OWSG MWD+IFR1+MS
11300	90	179.789	10780	17.863	0	38.226	0	17.863	0	0	38.233	37.934	-9.028	XOMR2_OWSG MWD+IFR1+MS
11400	90	179.789	10780	18.116	0	38.298	0	18.116	0	0	38.306	37.938	-8.762	XOMR2_OWSG MWD+IFR1+MS
11500	90	179.789	10780	18.399	0	38.385	0	18.399	0	0	38.394	37.943	-8.311	XOMR2_OWSG MWD+IFR1+MS
11600	90	179.789	10780	18.711	0	38.486	0	18.711	0	0	38.496	37.949	-7.795	XOMR2_OWSG MWD+IFR1+MS
11700	90	179.789	10780	19.05	0	38.603	0	19.05	0	0	38.613	37.956	-7.275	XOMR2_OWSG MWD+IFR1+MS
11800	90	179.789	10780	19.415	0	38.735	0	19.415	0	0	38.745	37.964	-6.781	XOMR2_OWSG MWD+IFR1+MS
11900	90	179.789	10780	19.805	0	38.881	0	19.805	0	0	38.891	37.972	-6.327	XOMR2_OWSG MWD+IFR1+MS
12000	90	179.789	10780	20.217	0	39.041	0	20.217	0	0	39.052	37.981	-5.914	XOMR2_OWSG MWD+IFR1+MS
12100	90	179.789	10780	20.651	0	39.216	0	20.651	0	0	39.226	37.991	-5.542	XOMR2_OWSG MWD+IFR1+MS
12200	90	179.789	10780	21.105	0	39.405	0	21.105	0	0	39.415	38.002	-5.208	XOMR2_OWSG MWD+IFR1+MS
12300	90	179.789	10780	21.579	0	39.607	0	21.579	0	0	39.618	38.013	-4.907	XOMR2_OWSG MWD+IFR1+MS
12400	90	179.789	10780	22.07	0	39.824	0	22.07	0	0	39.834	38.025	-4.636	XOMR2_OWSG MWD+IFR1+MS
12500	90	179.789	10780	22.577	0	40.053	0	22.577	0	0	40.064	38.037	-4.392	XOMR2_OWSG MWD+IFR1+MS
12600	90	179.789	10780	23.1	0	40.296	0	23.1	0	0	40.307	38.051	-4.171	XOMR2_OWSG MWD+IFR1+MS
12700	90	179.789	10780	23.638	0	40.552	0	23.638	0	0	40.563	38.065	-3.971	XOMR2_OWSG MWD+IFR1+MS
12800	90	179.789	10780	24.189	0	40.821	0	24.189	0	0	40.831	38.079	-3.788	XOMR2_OWSG MWD+IFR1+MS
12900	90	179.789	10780	24.753	0	41.102	0	24.753	0	0	41.113	38.095	-3.621	XOMR2_OWSG MWD+IFR1+MS
13000	90	179.789	10780	25.328	0	41.396	0	25.328	0	0	41.406	38.11	-3.469	XOMR2_OWSG MWD+IFR1+MS
13100	90	179.789	10780	25.915	0	41.701	0	25.915	0	0	41.711	38.127	-3.328	XOMR2_OWSG MWD+IFR1+MS
13200	90	179.789	10780	26.512	0	42.018	0	26.512	0	0	42.028	38.144	-3.199	XOMR2_OWSG MWD+IFR1+MS
13300	90	179.789	10780	27.118	0	42.346	0	27.118	0	0	42.356	38.162	-3.08	XOMR2_OWSG MWD+IFR1+MS

13400	90	179.789	10780	27.733	0	42.686	0	27.733	0	0	42.696	38.181	-2.969 XOMR2_OWSG MWD+IFR1+MS
13500	90	179.789	10780	28.357	0	43.037	0	28.357	0	0	43.046	38.2	-2.866 XOMR2_OWSG MWD+IFR1+MS
13600	90	179.789	10780	28.988	0	43.398	0	28.988	0	0	43.408	38.22	-2.771 XOMR2_OWSG MWD+IFR1+MS
13700	90	179.789	10780	29.627	0	43.769	0	29.627	0	0	43.779	38.24	-2.682 XOMR2_OWSG MWD+IFR1+MS
13800	90	179.789	10780	30.273	0	44.151	0	30.273	0	0	44.161	38.261	-2.598 XOMR2_OWSG MWD+IFR1+MS
13900	90	179.789	10780	30.925	0	44.543	0	30.925	0	0	44.552	38.283	-2.52 XOMR2_OWSG MWD+IFR1+MS
14000	90	179.789	10780	31.583	0	44.944	0	31.583	0	0	44.953	38.306	-2.447 XOMR2_OWSG MWD+IFR1+MS
14100	90	179.789	10780	32.247	0	45.354	0	32.247	0	0	45.364	38.329	-2.378 XOMR2_OWSG MWD+IFR1+MS
14200	90	179.789	10780	32.916	0	45.774	0	32.916	0	0	45.783	38.353	-2.314 XOMR2_OWSG MWD+IFR1+MS
14300	90	179.789	10780	33.59	0	46.202	0	33.59	0	0	46.211	38.377	-2.252 XOMR2_OWSG MWD+IFR1+MS
14400	90	179.789	10780	34.269	0	46.639	0	34.269	0	0	46.648	38.402	-2.195 XOMR2_OWSG MWD+IFR1+MS
14500	90	179.789	10780	34.952	0	47.085	0	34.952	0	0	47.094	38.428	-2.14 XOMR2_OWSG MWD+IFR1+MS
14600	90	179.789	10780	35.64	0	47.538	0	35.64	0	0	47.547	38.454	-2.088 XOMR2_OWSG MWD+IFR1+MS
14700	90	179.789	10780	36.331	0	48	0	36.331	0	0	48.009	38.481	-2.039 XOMR2_OWSG MWD+IFR1+MS
14800	90	179.789	10780	37.026	0	48.469	0	37.026	0	0	48.478	38.509	-1.993 XOMR2_OWSG MWD+IFR1+MS
14900	90	179.789	10780	37.725	0	48.945	0	37.725	0	0	48.954	38.537	-1.948 XOMR2_OWSG MWD+IFR1+MS
15000	90	179.789	10780	38.427	0	49.429	0	38.427	0	0	49.438	38.566	-1.906 XOMR2_OWSG MWD+IFR1+MS
15100	90	179.789	10780	39.132	0	49.92	0	39.132	0	0	49.928	38.595	-1.866 XOMR2_OWSG MWD+IFR1+MS
15200	90	179.789	10780	39.84	0	50.418	0	39.84	0	0	50.426	38.625	-1.828 XOMR2_OWSG MWD+IFR1+MS
15300	90	179.789	10780	40.551	0	50.922	0	40.551	0	0	50.93	38.656	-1.791 XOMR2_OWSG MWD+IFR1+MS
15400	90	179.789	10780	41.265	0	51.433	0	41.265	0	0	51.441	38.688	-1.756 XOMR2_OWSG MWD+IFR1+MS
15500	90	179.789	10780	41.981	0	51.95	0	41.981	0	0	51.958	38.72	-1.722 XOMR2_OWSG MWD+IFR1+MS
15600	90	179.789	10780	42.7	0	52.473	0	42.7	0	0	52.481	38.752	-1.69 XOMR2_OWSG MWD+IFR1+MS
15700	90	179.789	10780	43.42	0	53.002	0	43.42	0	0	53.009	38.786	-1.659 XOMR2_OWSG MWD+IFR1+MS
15800	90	179.789	10780	44.143	0	53.536	0	44.143	0	0	53.544	38.819	-1.63 XOMR2_OWSG MWD+IFR1+MS
15900	90	179.789	10780	44.869	0	54.076	0	44.869	0	0	54.084	38.854	-1.601 XOMR2_OWSG MWD+IFR1+MS
16000	90	179.789	10780	45.596	0	54.622	0	45.596	0	0	54.629	38.889	-1.574 XOMR2_OWSG MWD+IFR1+MS
16100	90	179.789	10780	46.325	0	55.172	0	46.325	0	0	55.18	38.925	-1.548 XOMR2_OWSG MWD+IFR1+MS
16200	90	179.789	10780	47.055	0	55.728	0	47.055	0	0	55.736	38.961	-1.522 XOMR2_OWSG MWD+IFR1+MS
16300	90	179.789	10780	47.788	0	56.289	0	47.788	0	0	56.296	38.998	-1.498 XOMR2_OWSG MWD+IFR1+MS
16400	90	179.789	10780	48.522	0	56.854	0	48.522	0	0	56.861	39.036	-1.475 XOMR2_OWSG MWD+IFR1+MS
16500	90	179.789	10780	49.258	0	57.424	0	49.258	0	0	57.431	39.074	-1.452 XOMR2_OWSG MWD+IFR1+MS
16600	90	179.789	10780	49.995	0	57.999	0	49.995	0	0	58.006	39.113	-1.43 XOMR2_OWSG MWD+IFR1+MS
16700	90	179.789	10780	50.733	0	58.577	0	50.733	0	0	58.584	39.152	-1.409 XOMR2_OWSG MWD+IFR1+MS
16800	90	179.789	10780	51.473	0	59.16	0	51.473	0	0	59.167	39.192	-1.389 XOMR2_OWSG MWD+IFR1+MS

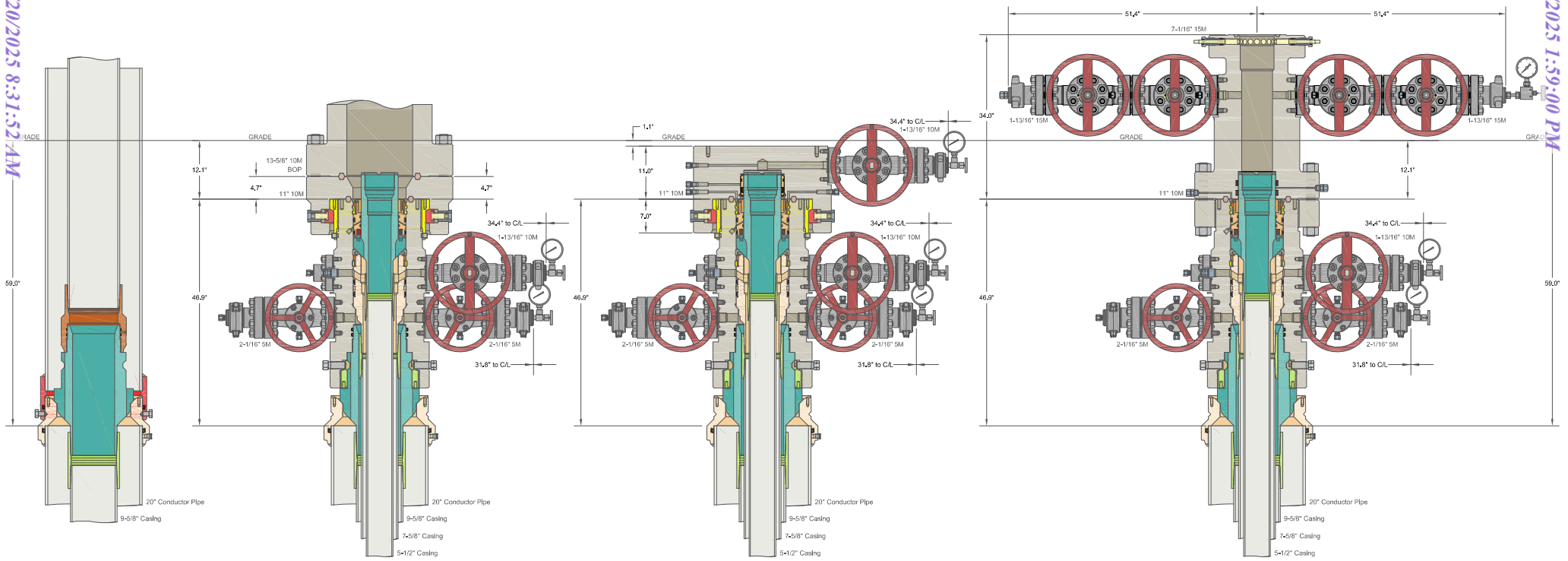
16900	90	179.789	10780	52.215	0	59.748	0	52.215	0	0	59.755	39.233	-1.369 XOMR2_OWSG MWD+IFR1+MS
17000	90	179.789	10780	52.957	0	60.339	0	52.957	0	0	60.346	39.274	-1.35 XOMR2_OWSG MWD+IFR1+MS
17100	90	179.789	10780	53.701	0	60.934	0	53.701	0	0	60.941	39.316	-1.331 XOMR2_OWSG MWD+IFR1+MS
17200	90	179.789	10780	54.446	0	61.532	0	54.446	0	0	61.539	39.359	-1.314 XOMR2_OWSG MWD+IFR1+MS
17300	90	179.789	10780	55.192	0	62.135	0	55.192	0	0	62.142	39.402	-1.296 XOMR2_OWSG MWD+IFR1+MS
17400	90	179.789	10780	55.939	0	62.741	0	55.939	0	0	62.747	39.445	-1.279 XOMR2_OWSG MWD+IFR1+MS
17500	90	179.789	10780	56.687	0	63.35	0	56.687	0	0	63.357	39.49	-1.263 XOMR2_OWSG MWD+IFR1+MS
17600	90	179.789	10780	57.436	0	63.963	0	57.436	0	0	63.969	39.535	-1.247 XOMR2_OWSG MWD+IFR1+MS
17700	90	179.789	10780	58.186	0	64.579	0	58.186	0	0	64.585	39.58	-1.232 XOMR2_OWSG MWD+IFR1+MS
17800	90	179.789	10780	58.937	0	65.198	0	58.937	0	0	65.204	39.626	-1.217 XOMR2_OWSG MWD+IFR1+MS
17900	90	179.789	10780	59.689	0	65.82	0	59.689	0	0	65.826	39.673	-1.203 XOMR2_OWSG MWD+IFR1+MS
18000	90	179.789	10780	60.441	0	66.445	0	60.441	0	0	66.451	39.72	-1.189 XOMR2_OWSG MWD+IFR1+MS
18100	90	179.789	10780	61.195	0	67.073	0	61.195	0	0	67.079	39.768	-1.175 XOMR2_OWSG MWD+IFR1+MS
18200	90	179.789	10780	61.949	0	67.704	0	61.949	0	0	67.71	39.816	-1.162 XOMR2_OWSG MWD+IFR1+MS
18300	90	179.789	10780	62.704	0	68.338	0	62.704	0	0	68.344	39.865	-1.149 XOMR2_OWSG MWD+IFR1+MS
18400	90	179.789	10780	63.46	0	68.974	0	63.46	0	0	68.98	39.914	-1.136 XOMR2_OWSG MWD+IFR1+MS
18500	90	179.789	10780	64.216	0	69.613	0	64.216	0	0	69.619	39.964	-1.124 XOMR2_OWSG MWD+IFR1+MS
18600	90	179.789	10780	64.973	0	70.254	0	64.973	0	0	70.26	40.015	-1.112 XOMR2_OWSG MWD+IFR1+MS
18700	90	179.789	10780	65.731	0	70.898	0	65.731	0	0	70.904	40.066	-1.101 XOMR2_OWSG MWD+IFR1+MS
18800	90	179.789	10780	66.489	0	71.544	0	66.489	0	0	71.55	40.118	-1.089 XOMR2_OWSG MWD+IFR1+MS
18900	90	179.789	10780	67.248	0	72.192	0	67.248	0	0	72.198	40.17	-1.078 XOMR2_OWSG MWD+IFR1+MS
19000	90	179.789	10780	68.007	0	72.843	0	68.007	0	0	72.849	40.223	-1.067 XOMR2_OWSG MWD+IFR1+MS
19100	90	179.789	10780	68.767	0	73.496	0	68.767	0	0	73.502	40.277	-1.057 XOMR2_OWSG MWD+IFR1+MS
19200	90	179.789	10780	69.528	0	74.151	0	69.528	0	0	74.157	40.331	-1.047 XOMR2_OWSG MWD+IFR1+MS
19300	90	179.789	10780	70.289	0	74.808	0	70.289	0	0	74.814	40.385	-1.037 XOMR2_OWSG MWD+IFR1+MS
19400	90	179.789	10780	71.051	0	75.468	0	71.051	0	0	75.473	40.44	-1.027 XOMR2_OWSG MWD+IFR1+MS
19500	90	179.789	10780	71.813	0	76.129	0	71.813	0	0	76.134	40.496	-1.017 XOMR2_OWSG MWD+IFR1+MS
19600	90	179.789	10780	72.576	0	76.792	0	72.576	0	0	76.797	40.552	-1.008 XOMR2_OWSG MWD+IFR1+MS
19700	90	179.789	10780	73.339	0	77.457	0	73.339	0	0	77.462	40.609	-0.999 XOMR2_OWSG MWD+IFR1+MS
19800	90	179.789	10780	74.102	0	78.123	0	74.102	0	0	78.129	40.666	-0.99 XOMR2_OWSG MWD+IFR1+MS
19900	90	179.789	10780	74.867	0	78.792	0	74.867	0	0	78.797	40.724	-0.981 XOMR2_OWSG MWD+IFR1+MS
20000	90	179.789	10780	75.631	0	79.462	0	75.631	0	0	79.467	40.783	-0.973 XOMR2_OWSG MWD+IFR1+MS
20100	90	179.789	10780	76.396	0	80.134	0	76.396	0	0	80.139	40.842	-0.964 XOMR2_OWSG MWD+IFR1+MS
20200	90	179.789	10780	77.161	0	80.808	0	77.161	0	0	80.813	40.901	-0.956 XOMR2_OWSG MWD+IFR1+MS
20300	90	179.789	10780	77.927	0	81.483	0	77.927	0	0	81.488	40.961	-0.948 XOMR2_OWSG MWD+IFR1+MS

20400	90	179.789	10780	78.693	0	82.16	0	78.693	0	0	82.165	41.022	-0.94	XOMR2_OWSG MWD+IFR1+MS
20500	90	179.789	10780	79.459	0	82.838	0	79.459	0	0	82.843	41.083	-0.933	XOMR2_OWSG MWD+IFR1+MS
20600	90	179.789	10780	80.226	0	83.518	0	80.226	0	0	83.523	41.144	-0.925	XOMR2_OWSG MWD+IFR1+MS
20700	90	179.789	10780	80.993	0	84.199	0	80.993	0	0	84.204	41.206	-0.918	XOMR2_OWSG MWD+IFR1+MS
20800	90	179.789	10780	81.76	0	84.882	0	81.76	0	0	84.887	41.269	-0.911	XOMR2_OWSG MWD+IFR1+MS
20900	90	179.789	10780	82.528	0	85.566	0	82.528	0	0	85.571	41.332	-0.904	XOMR2_OWSG MWD+IFR1+MS
21000	90	179.789	10780	83.296	0	86.252	0	83.296	0	0	86.256	41.396	-0.897	XOMR2_OWSG MWD+IFR1+MS

21100	90	179.789	10780	84.065	0	86.938	0	84.065	0	0	86.943	41.46	-0.89	XOMR2_OWSG MWD+IFR1+MS
21200	90	179.789	10780	84.833	0	87.627	0	84.833	0	0	87.631	41.524	-0.883	XOMR2_OWSG MWD+IFR1+MS
21300	90	179.789	10780	85.602	0	88.316	0	85.602	0	0	88.32	41.59	-0.877	XOMR2_OWSG MWD+IFR1+MS
21400	90	179.789	10780	86.371	0	89.006	0	86.371	0	0	89.011	41.655	-0.871	XOMR2_OWSG MWD+IFR1+MS
21500	90	179.789	10780	87.141	0	89.698	0	87.141	0	0	89.703	41.722	-0.864	XOMR2_OWSG MWD+IFR1+MS
21600	90	179.789	10780	87.911	0	90.391	0	87.911	0	0	90.396	41.788	-0.858	XOMR2_OWSG MWD+IFR1+MS
21700	90	179.789	10780	88.681	0	91.085	0	88.681	0	0	91.09	41.855	-0.852	XOMR2_OWSG MWD+IFR1+MS
21800	90	179.789	10780	89.451	0	91.78	0	89.451	0	0	91.785	41.923	-0.846	XOMR2_OWSG MWD+IFR1+MS
21900	90	179.789	10780	90.222	0	92.477	0	90.222	0	0	92.481	41.991	-0.84	XOMR2_OWSG MWD+IFR1+MS
22000	90	179.789	10780	90.993	0	93.174	0	90.993	0	0	93.178	42.06	-0.835	XOMR2_OWSG MWD+IFR1+MS
22100	90	179.789	10780	91.764	0	93.872	0	91.764	0	0	93.877	42.129	-0.829	XOMR2_OWSG MWD+IFR1+MS
22200	90	179.789	10780	92.535	0	94.572	0	92.535	0	0	94.576	42.199	-0.824	XOMR2_OWSG MWD+IFR1+MS
22300	90	179.789	10780	93.306	0	95.272	0	93.306	0	0	95.277	42.269	-0.818	XOMR2_OWSG MWD+IFR1+MS
22400	90	179.789	10780	94.078	0	95.974	0	94.078	0	0	95.978	42.34	-0.813	XOMR2_OWSG MWD+IFR1+MS
22500	90	179.789	10780	94.85	0	96.676	0	94.85	0	0	96.68	42.411	-0.808	XOMR2_OWSG MWD+IFR1+MS
22600	90	179.789	10780	95.622	0	97.38	0	95.622	0	0	97.384	42.482	-0.803	XOMR2_OWSG MWD+IFR1+MS
22700	90	179.789	10780	96.395	0	98.084	0	96.395	0	0	98.088	42.554	-0.798	XOMR2_OWSG MWD+IFR1+MS
22800	90	179.789	10780	97.167	0	98.789	0	97.167	0	0	98.793	42.627	-0.793	XOMR2_OWSG MWD+IFR1+MS
22900	90	179.789	10780	97.94	0	99.495	0	97.94	0	0	99.499	42.7	-0.788	XOMR2_OWSG MWD+IFR1+MS
23000	90	179.789	10780	98.713	0	100.202	0	98.713	0	0	100.206	42.773	-0.783	XOMR2_OWSG MWD+IFR1+MS
23100	90	179.789	10780	99.486	0	100.91	0	99.486	0	0	100.914	42.847	-0.778	XOMR2_OWSG MWD+IFR1+MS
23200	90	179.789	10780	100.259	0	101.618	0	100.259	0	0	101.622	42.922	-0.774	XOMR2_OWSG MWD+IFR1+MS
23300	90	179.789	10780	101.033	0	102.328	0	101.033	0	0	102.332	42.996	-0.769	XOMR2_OWSG MWD+IFR1+MS
23400	90	179.789	10780	101.806	0	103.038	0	101.806	0	0	103.042	43.072	-0.764	XOMR2_OWSG MWD+IFR1+MS
23500	90	179.789	10780	102.58	0	103.749	0	102.58	0	0	103.753	43.147	-0.76	XOMR2_OWSG MWD+IFR1+MS
23600	90	179.789	10780	103.354	0	104.46	0	103.354	0	0	104.464	43.224	-0.756	XOMR2_OWSG MWD+IFR1+MS
23700	90	179.789	10780	104.128	0	105.173	0	104.128	0	0	105.177	43.3	-0.751	XOMR2_OWSG MWD+IFR1+MS
23800	90	179.789	10780	104.903	0	105.886	0	104.903	0	0	105.89	43.377	-0.747	XOMR2_OWSG MWD+IFR1+MS
23900	90	179.789	10780	105.677	0	106.6	0	105.677	0	0	106.604	43.455	-0.743	XOMR2_OWSG MWD+IFR1+MS
24000	90	179.789	10780	106.452	0	107.315	0	106.452	0	0	107.318	43.533	-0.739	XOMR2_OWSG MWD+IFR1+MS
24100	90	179.789	10780	107.226	0	108.03	0	107.226	0	0	108.034	43.611	-0.735	XOMR2_OWSG MWD+IFR1+MS
24200	90	179.789	10780	108.001	0	108.746	0	108.001	0	0	108.75	43.69	-0.731	XOMR2_OWSG MWD+IFR1+MS
24292.629	90	179.789	10780	108.719	0	109.409	0	108.719	0	0	109.413	43.764	-0.727	XOMR2_OWSG MWD+IFR1+MS
24300	90	179.789	10780	108.776	0	109.462	0	108.776	0	0	109.466	43.77	-0.727	XOMR2_OWSG MWD+IFR1+MS
24342.631	90	179.789	10780	109.107	0	109.768	0	109.107	0	0	109.771	43.804	-0.725	XOMR2_OWSG MWD+IFR1+MS

Plan Targets	Poker Lake Unit 28 BS 113H

Target Name	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape
FTP 7	11204.95	400847.5	668657.1	7419	CIRCLE
LTP 7	24292.63	387760	668705.2	7419	CIRCLE
BHL 1	24342.63	387710	668705.5	7419	CIRCLE



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

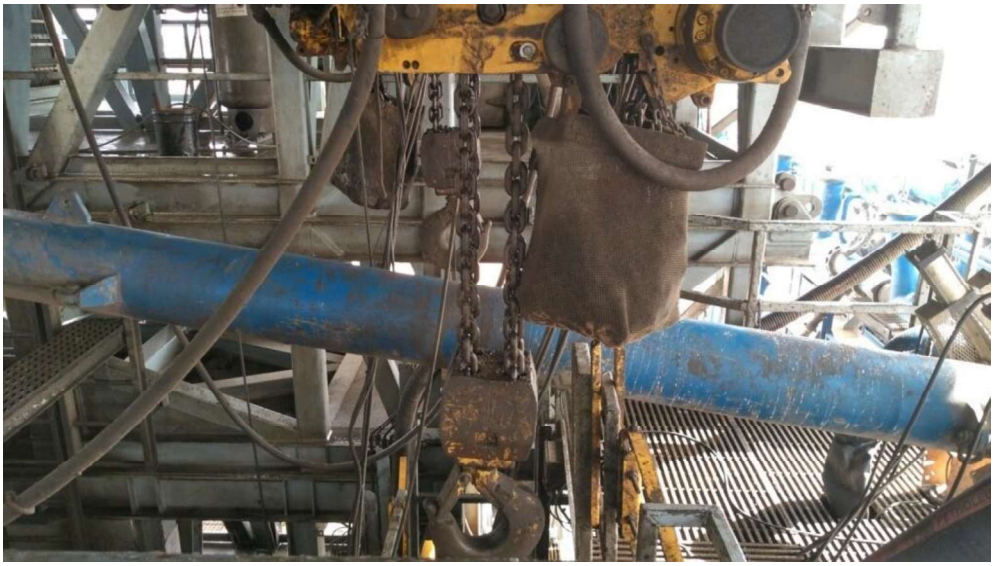


Figure 2: BOP Winch System

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.

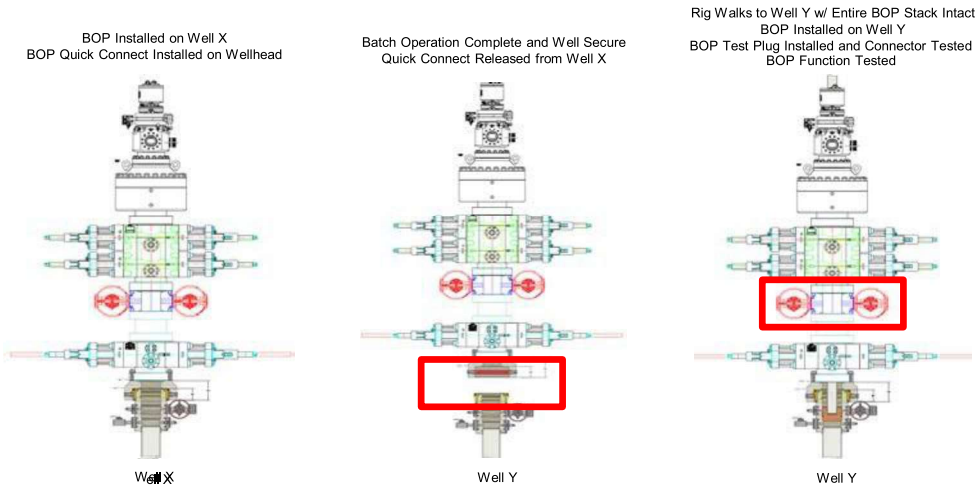
XTO Energy feels break testing and our current procedures meet the intent of CFR Title 43 Part 317 0and often exceed it. There has been no evidence that break testing results in more components failing than seen on full BOP tests. XTO Energy's internal standards requires complete BOPE tests more often 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.

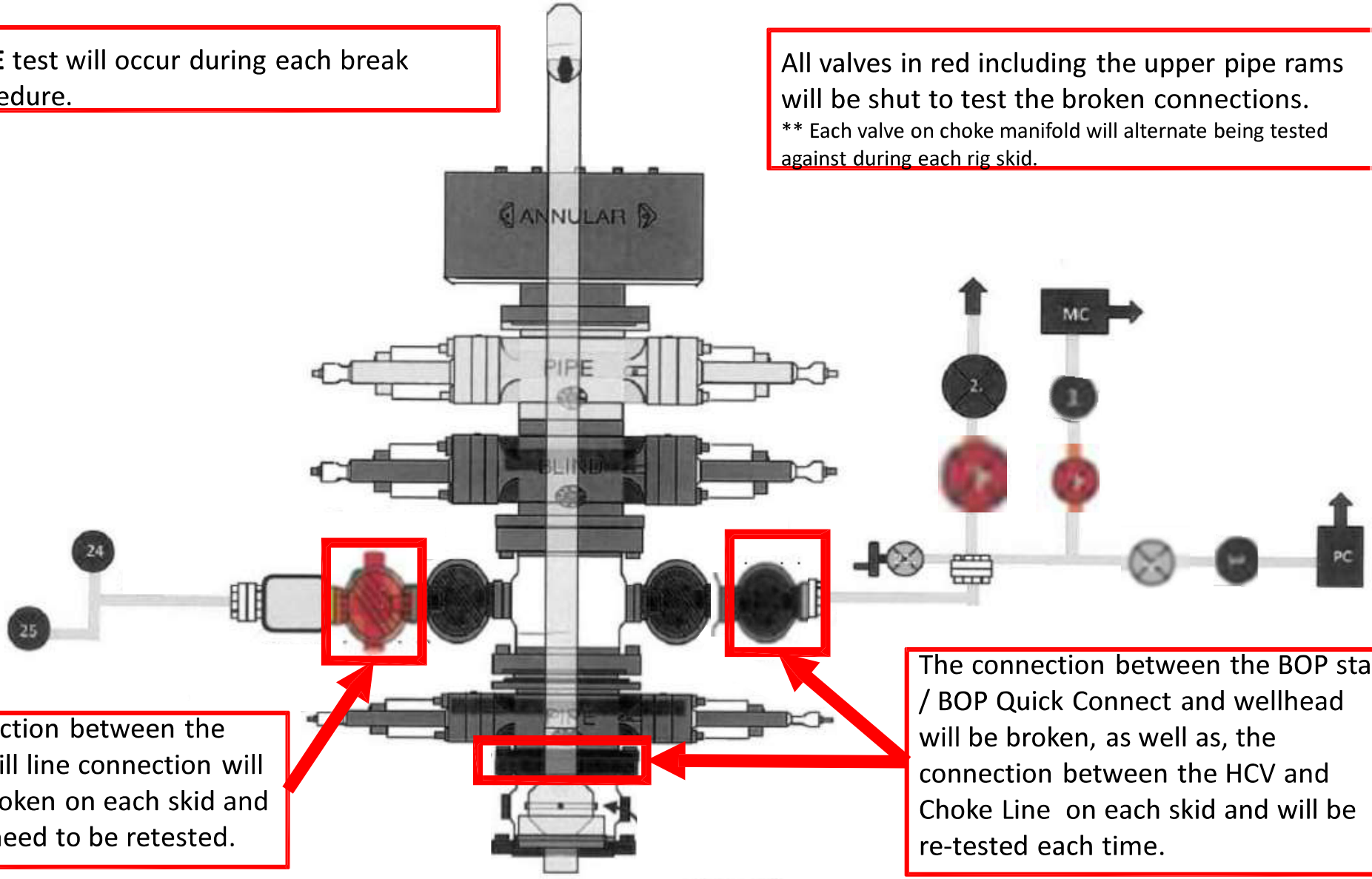
2. The first intermediate hole section drilled on the pad will be the deepest. All of the remaining hole sections will be the same depth or shallower.

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.

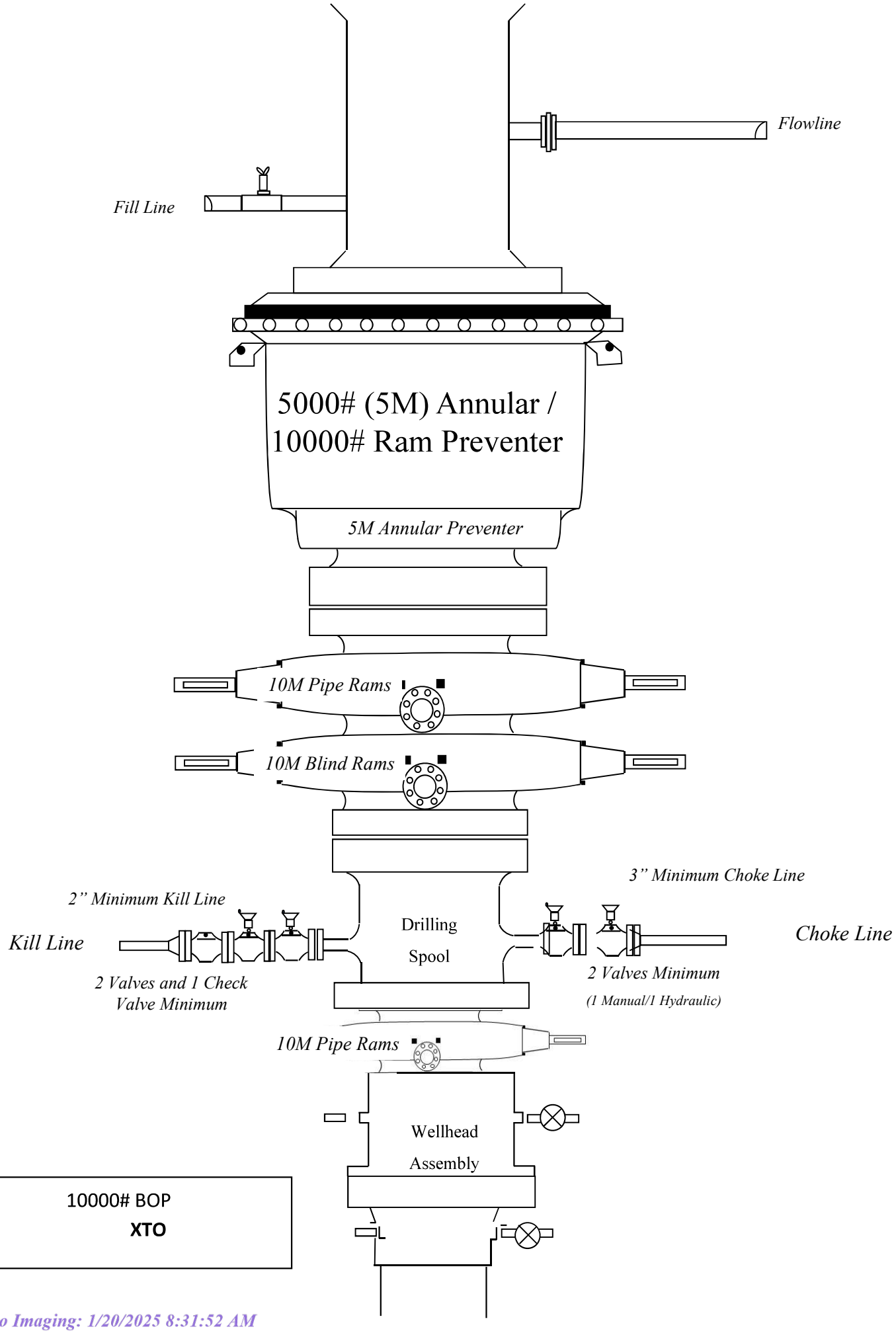
Only **ONE** test will occur during each break test procedure.

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.

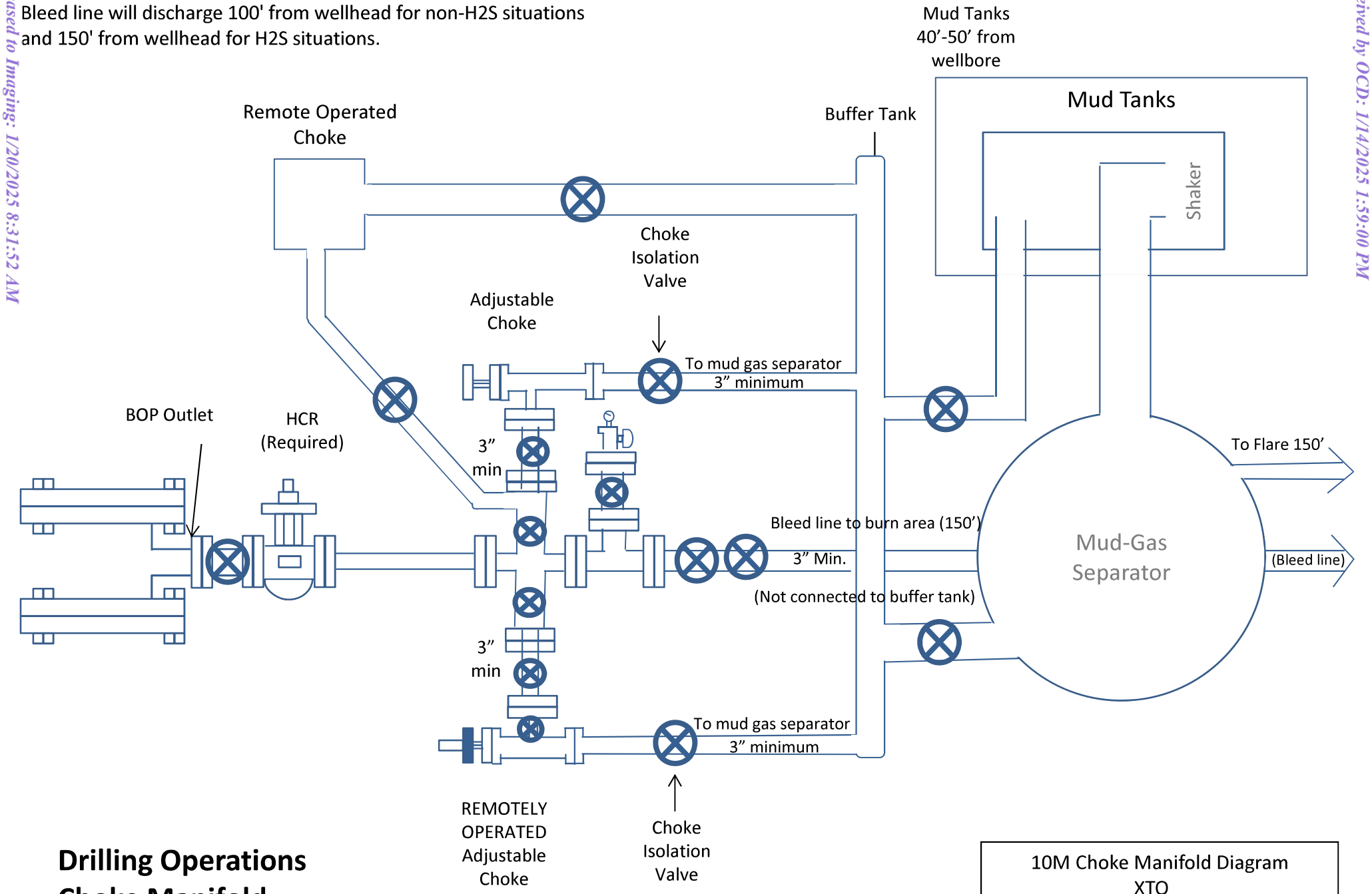
The connection between the BOP stack / BOP Quick Connect and wellhead will be broken, as well as, the connection between the HCV and Choke Line on each skid and will be re-tested each time.



10000# BOP

XTO

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

U. S. Steel Tubular Products

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5.500" 20.00lb/ft (0.361" Wall) P110 RY USS-FREEDOM HTQ®

MECHANICAL PROPERTIES	Pipe	USS-FREEDOM HTQ®		--
Minimum Yield Strength	110,000	--	psi	--
Maximum Yield Strength	125,000	--	psi	--
Minimum Tensile Strength	125,000	--	psi	--
DIMENSIONS	**Pipe**	**USS-FREEDOM HTQ®**		**--**
Outside Diameter	5.500	6.300	in.	--
Wall Thickness	0.361	--	in.	--
Inside Diameter	4.778	4.778	in.	--
Standard Drift	4.653	4.653	in.	--
Alternate Drift	--	--	in.	--
Nominal Linear Weight, T&C	20.00	--	lb/ft	--
Plain End Weight	19.83	--	lb/ft	--
SECTION AREA	**Pipe**	**USS-FREEDOM HTQ®**		**--**
Critical Area	5.828	5.828	sq. in.	--
Joint Efficiency	--	100.0	%	--
PERFORMANCE	**Pipe**	**USS-FREEDOM HTQ®**		**--**
Minimum Collapse Pressure	11,100	11,100	psi	--
Minimum Internal Yield Pressure	12,640	12,640	psi	--
Minimum Pipe Body Yield Strength	641,000	--	lb	--
Joint Strength	--	641,000	lb	--
Compression Rating	--	641,000	lb	--
Reference Length [4]	--	21,370	ft	--
Maximum Uniaxial Bend Rating [2]	--	91.7	deg/100 ft	--
MAKE-UP DATA	**Pipe**	**USS-FREEDOM HTQ®**		**--**
Make-Up Loss	--	4.13	in.	--
Minimum Make-Up Torque [3]	--	15,000	ft-lb	--
Maximum Make-Up Torque [3]	--	21,000	ft-lb	--
Maximum Operating Torque[3]	--	29,500	ft-lb	--

Notes

1. Other than proprietary collapse and connection values, performance properties have been calculated using standard equations defined by API 5C3 and do not incorporate any additional design or safety factors. Calculations assume nominal pipe OD, nominal wall thickness, and Specified Minimum Yield Strength (SMYS).
2. Uniaxial bending rating shown is structural only, and equal to compression efficiency.
3. Torques have been calculated assuming a thread compound friction factor of 1.0 and are recommended only. Field make-up torques may require adjustment based on actual field conditions (e.g. make-up speed, temperature, thread compound, etc.).
4. Reference length is calculated by joint strength divided by plain end weight with 1.5 safety factor.

U. S. Steel Tubular Products
460 Wildwood Forest Drive, Suite 300S
Spring, Texas 77380

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connections@uss.com
www.usstubular.com

U. S. Steel Tubular Products

11/29/2021 4:16:04 PM

5.500" 20.00lb/ft (0.361" Wall) P110 RY USS-TALON HTQ™ RD

MECHANICAL PROPERTIES	Pipe	USS-TALON HTQ™ RD		[6]
Minimum Yield Strength	110,000	--	psi	--
Maximum Yield Strength	125,000	--	psi	--
Minimum Tensile Strength	125,000	--	psi	--
DIMENSIONS	**Pipe**	**USS-TALON HTQ™ RD**		**--**
Outside Diameter	5.500	5.900	in.	--
Wall Thickness	0.361	--	in.	--
Inside Diameter	4.778	4.778	in.	--
Standard Drift	4.653	4.653	in.	--
Alternate Drift	--	--	in.	--
Nominal Linear Weight, T&C	20.00	--	lb/ft	--
Plain End Weight	19.83	--	lb/ft	--
SECTION AREA	**Pipe**	**USS-TALON HTQ™ RD**		**--**
Critical Area	5.828	5.828	sq. in.	--
Joint Efficiency	--	100.0	%	[2]
PERFORMANCE	**Pipe**	**USS-TALON HTQ™ RD**		**--**
Minimum Collapse Pressure	11,100	11,100	psi	--
Minimum Internal Yield Pressure	12,640	12,640	psi	--
Minimum Pipe Body Yield Strength	641,000	--	lb	--
Joint Strength	--	641,000	lb	--
Compression Rating	--	641,000	lb	--
Reference Length	--	21,370	ft	[5]
Maximum Uniaxial Bend Rating	--	91.7	deg/100 ft	[3]
MAKE-UP DATA	**Pipe**	**USS-TALON HTQ™ RD**		**--**
Make-Up Loss	--	5.58	in.	--
Minimum Make-Up Torque	--	17,000	ft-lb	[4]
Maximum Make-Up Torque	--	20,000	ft-lb	[4]
Maximum Operating Torque	--	39,500	ft-lb	[4]

Notes

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

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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.

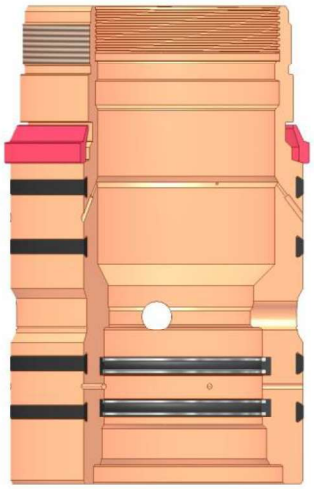
1. Cement Program

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

2. Offline Cementing Procedure

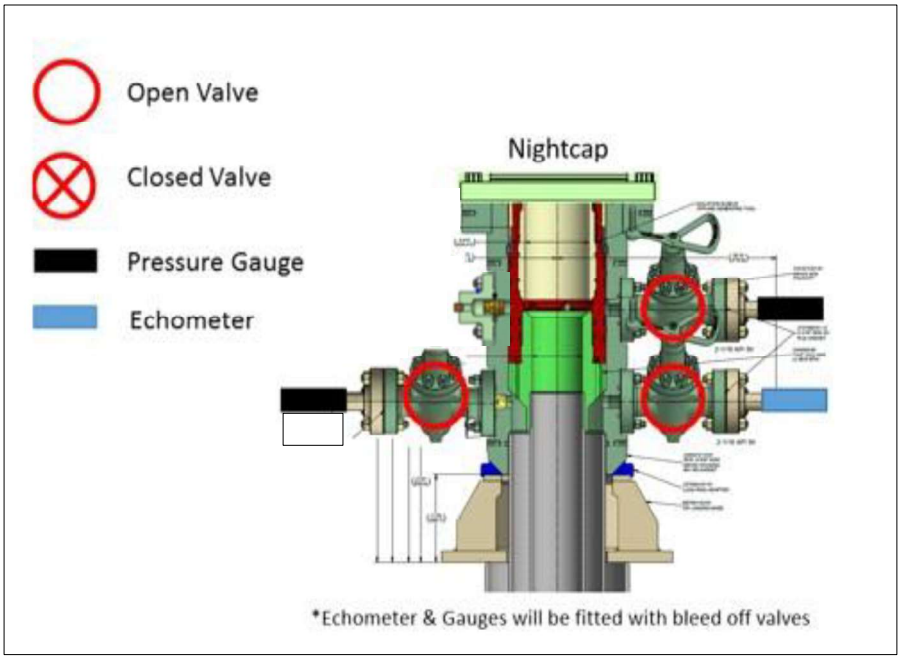
The operational sequence will be as follows. If a well control event occurs, the BLM will be contacted for approval prior to conducting offline cementing operations.

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

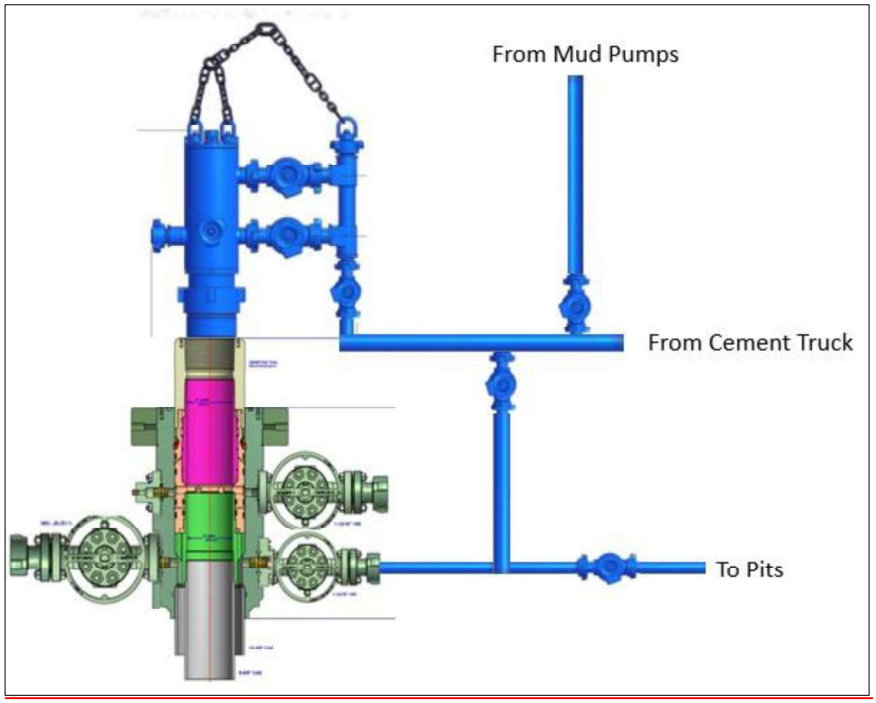
XTO Permian Operating, LLC Offline Cementing Variance Request



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.

BLACK GOLD®

GATES ENGINEERING & SERVICES NORTH AMERICA
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Houston, TX. 77086

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WEB: www.gates.com/oilandgas

NEW CHOKE HOSE INSTALLED 02-10-2024

CERTIFICATE OF CONFORMANCE

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

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

SIGNATURE: F. OSMOS

TITLE: QUALITY ASSURANCE

DATE: 1/25/2024

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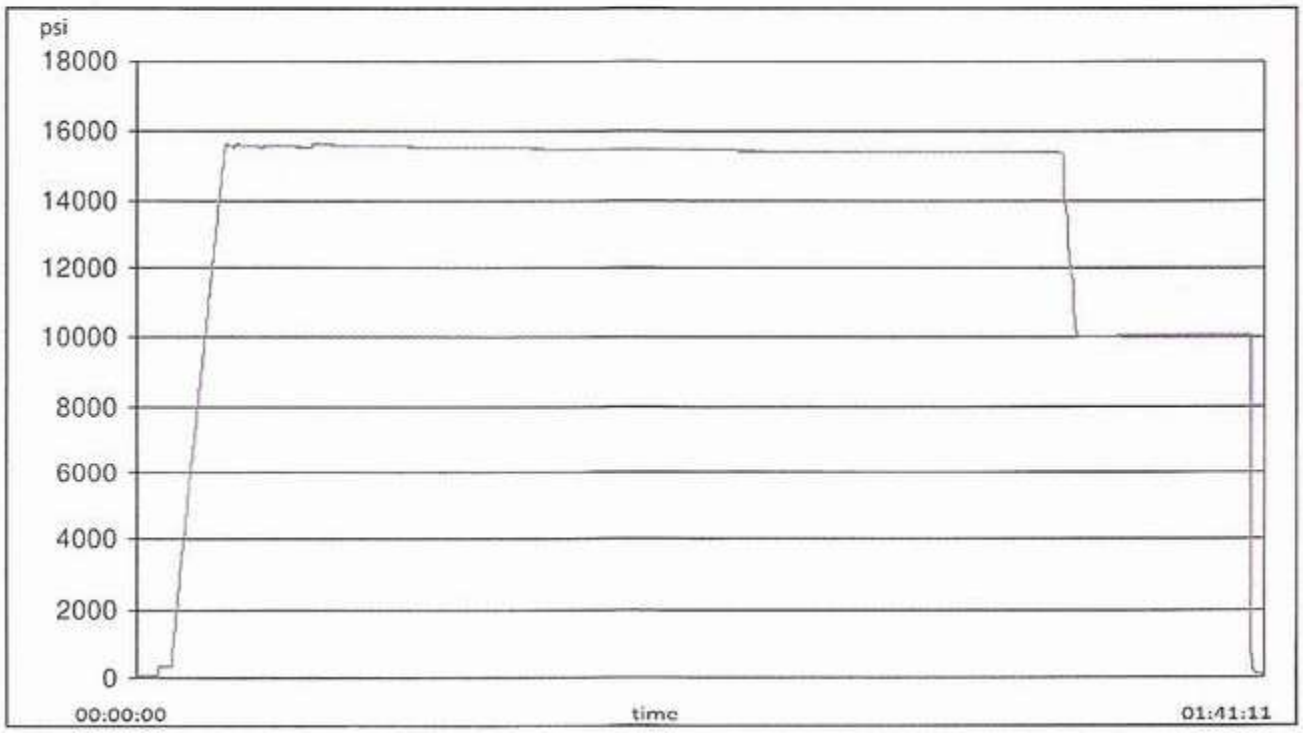
1/25/2024 11:48:06 AM

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				



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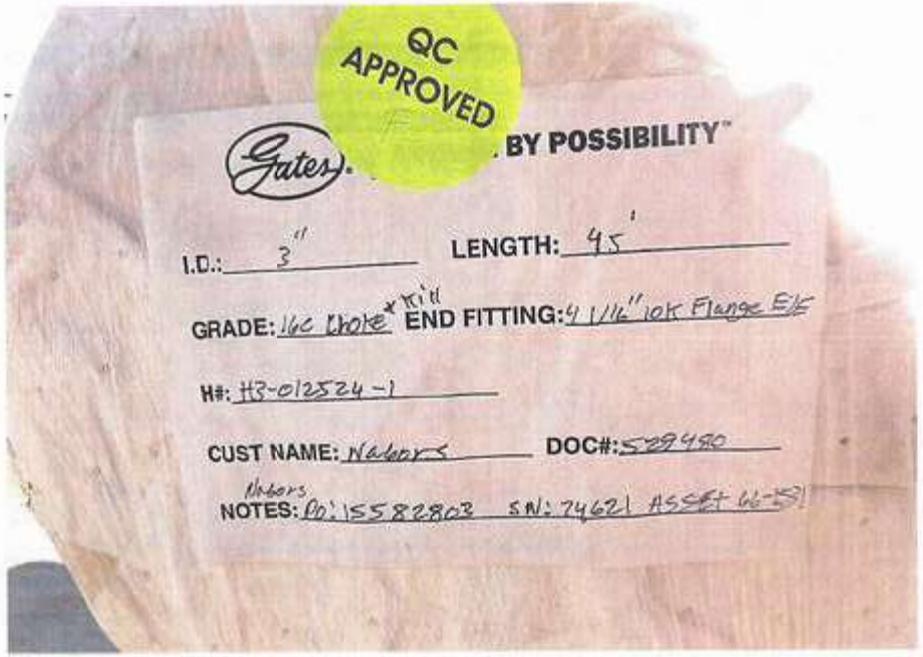
TEST REPORT

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



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

Action 420607

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 420607
	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.	1/20/2025