

Well Name: POKER LAKE UNIT 28 BS	Well Location: T25S / R31E / SEC 28 / SENE / 32.101858 / -103.776764	County or Parish/State: EDDY / NM
Well Number: 407H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMLC062140	Unit or CA Name: POKER LAKE UNIT	Unit or CA Number: NMNM71016X
US Well Number:	Operator: XTO PERMIAN OPERATING LLC	

Notice of Intent

Sundry ID: 2820287

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 10/31/2024

Time Sundry Submitted: 02:28

Date proposed operation will begin: 11/21/2024

Procedure Description: XTO Permian Operating, LLC. respectfully requests approval to make the following changes to the approved APD. Changes to include KOP, FTP, LTP, BHL, and Proposed total Depth. No additional surface disturbance. FROM: KOP: 2435' FNL & 689' FEL OF SECTION 28-T25S-R31E 2032' FNL & 604' FEL OF SECTION 28-T25S-R31E FTP: 2435' FNL & 770' FEL OF SECTION 28-T25S-R31E 2551' FSL & 600' FEL OF SECTION 28-T25S-R31E LTP: 100' FSL & 770' FEL OF SECTION 4-T26S-R31E 100' FSL & 600' FEL OF SECTION 4-T26S-R31E BHL: 50' FSL & 770' FEL OF SECTION 4-T26S-R32E 50' FSL & 600' FEL OF SECTION 4-T26S-R31E The proposed total depth is changing from 23763' MD; 9971' TVD (Bone Spring 2 Sand) to 24379' MD; 10827' TVD (Bone Spring 3 Shale). See attached Drilling Plan for updated cement and casing program. A saturated salt brine will be utilized while drilling through the salt formations.

NOI Attachments

Procedure Description

PLU_28_BS___407H_Sundry_Attachments_20241209113459.pdf

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Well Number: 407H **Type of Well:** OIL WELL **Allottee or Tribe Name:**

Lease Number: NMLC062140 **Unit or CA Name:** POKER LAKE UNIT **Unit or CA Number:** NMNM71016X

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

Conditions of Approval

Additional

Poker_Lake_Unit_28_BS_309H_310H_209H_210H_COA_20241216083823.pdf

Operator

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

Operator Electronic Signature: TERRA SEBASTIAN

Signed on: DEC 09, 2024 11:35 AM

Name: XTO PERMIAN OPERATING LLC

Title: Regulatory Advisor

Street Address: 6401 HOLIDAY HILL ROAD SUITE 200

City: MIDLAND

State: TX

Phone: (432) 999-3107

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

Field

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Email address:

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752342234

BLM POC Email Address: cwalls@blm.gov

Disposition: Approved

Disposition Date: 12/16/2024

Signature: Chris Walls

Form 3160-5 (June 2019)	UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT	FORM APPROVED OMB No. 1004-0137 Expires: October 31, 2021
SUNDRY NOTICES AND REPORTS ON WELLS <i>Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.</i>		5. Lease Serial No. NMLC062140
		6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2		7. If Unit of CA/Agreement, Name and/or No. POKER LAKE UNIT/NMNM71016X
1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		8. Well Name and No. POKER LAKE UNIT 28 BS/407H
2. Name of Operator XTO PERMIAN OPERATING LLC		9. API Well No.
3a. Address 6401 HOLIDAY HILL ROAD BLDG 5, MIDLAND,	3b. Phone No. (include area code) (432) 683-2277	10. Field and Pool or Exploratory Area JENNINGS/BONE SPRING, WEST
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			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input checked="" type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat 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 recompleation in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

XTO Permian Operating, LLC. respectfully requests approval to make the following changes to the approved APD. Changes to include KOP, FTP, LTP, BHL, and Proposed total Depth.
No additional surface disturbance.

FROM:
KOP: 2435 FNL & 689 FEL OF SECTION 28-T25S-R31E 2032 FNL & 604 FEL OF SECTION 28-T25S-R31E
FTP: 2435' FNL & 770' FEL OF SECTION 28-T25S-R31E 2551' FSL & 600' FEL OF SECTION 28-T25S-R31E
LTP: 100' FSL & 770' FEL OF SECTION 4-T26S-R31E 100' FSL & 600' FEL OF SECTION 4-T26S-R31E
BHL: 50' FSL & 770' FEL OF SECTION 4-T26S-R32E 50' FSL & 600' FEL OF SECTION 4-T26S-R31E

The proposed total depth is changing from 23763 MD; 9971 TVD (Bone Spring 2 Sand) to 24379 MD; 10827 TVD (Bone Spring 3 Shale).

Continued on page 3 additional information

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) TERRA SEBASTIAN / Ph: (432) 999-3107	Title Regulatory Advisor
Signature (Electronic Submission)	Date 12/09/2024

THE SPACE FOR FEDERAL OR STATE OFFICE USE		
Approved by CHRISTOPHER WALLS / Ph: (575) 234-2234 / Approved	Title Petroleum Engineer	Date 12/16/2024
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office CARLSBAD	

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

(Instructions on page 2)

GENERAL INSTRUCTIONS

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

SPECIFIC INSTRUCTIONS

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

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

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Additional Information

Additional Remarks

See attached Drilling Plan for updated cement and casing program.

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

Location of Well

0. SHL: SENE / 2435 FNL / 689 FEL / TWSP: 25S / RANGE: 31E / SECTION: 28 / LAT: 32.101858 / LONG: -103.776764 (TVD: 0 feet, MD: 0 feet)

PPP: SENE / 2435 FNL / 770 FEL / TWSP: 25S / RANGE: 31E / SECTION: 28 / LAT: 32.101858 / LONG: -103.777026 (TVD: 9971 feet, MD: 10400 feet)

PPP: NENE / 1323 FNL / 761 FEL / TWSP: 25S / RANGE: 31E / SECTION: 33 / LAT: 32.090348 / LONG: -103.777058 (TVD: 9971 feet, MD: 14900 feet)

PPP: NESE / 2649 FNL / 769 FEL / TWSP: 25S / RANGE: 31E / SECTION: 28 / LAT: 32.101271 / LONG: -103.777028 (TVD: 9971 feet, MD: 11000 feet)

PPP: NENE / 0 FNL / 758 FEL / TWSP: 25S / RANGE: 31E / SECTION: 33 / LAT: 32.093986 / LONG: -103.777048 (TVD: 9971 feet, MD: 13600 feet)

BHL: SESE / 50 FSL / 770 FEL / TWSP: 26S / RANGE: 31E / SECTION: 4 / LAT: 32.064908 / LONG: -103.777129 (TVD: 9971 feet, MD: 23763 feet)

CONFIDENTIAL

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO
LEASE NO.:	NMLC062140
LOCATION:	Sec. 28, T.25 S, R 31 E
COUNTY:	Eddy County, New Mexico ▼
WELL NAME & NO.:	Poker Lake Unit 28 BS 406H
SURFACE HOLE FOOTAGE:	2435'/N & 719'/E
BOTTOM HOLE FOOTAGE:	50'/S & 1112'/E

WELL NAME & NO.:	Poker Lake Unit 28 BS 407H
SURFACE HOLE FOOTAGE:	2435'/N & 689'/E
BOTTOM HOLE FOOTAGE:	50'/S & 600'/E

WELL NAME & NO.:	Poker Lake Unit 28 BS 408H
SURFACE HOLE FOOTAGE:	2435'/N & 659'/E
BOTTOM HOLE FOOTAGE:	50'/S & 1600'/W

COA

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

Changes approved through engineering via **Sundry 2820286,2820287,2820288** on 12-15-2024 .
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 **994** 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 6920-6975’**.
 - 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](mailto:BLM_NM_CFO_DrillingNotifications@BLM.GOV); (575) 361-2822

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - i. Notify the BLM when moving in and removing the Spudder Rig.
 - ii. Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - iii. BOP/BOPE test to be conducted per **43 CFR 3172** as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately

around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.

3. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.

7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-Q potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR 3172**.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - ii. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - iii. Manufacturer representative shall install the test plug for the initial BOP test.
 - iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
 - v. If the cement does not circulate and one-inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.

- i. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
- ii. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
- iii. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- iv. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- v. The results of the test shall be reported to the appropriate BLM office.
- vi. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- vii. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.

- viii. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR 3172**.

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

Approved by Zota Stevens on 12/16/2024
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](mailto: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.

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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 12/16/2024
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 <div style="border: 1px solid black; padding: 2px;"><input type="checkbox"/> Initial Submittal <input checked="" type="checkbox"/> Amended Report <input type="checkbox"/> As Drilled</div>							
APD ID: 10400094974 WELL LOCATION INFORMATION									
API Number 30-015	Pool Code 97860	Pool Name JENNINGS; BONE SPRING; WEST							
Property Code	Property Name POKER LAKE UNIT 28 BS	Well Number 407H							
ORGID No. 373075	Operator Name XTO PERMIAN OPERATING, LLC.	Ground Level Elevation 3,337'							
Surface Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal		Mineral Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal							
Surface Location									
UL H	Section 28	Township 25 S	Range 31 E	Lot	Ft. from N/S 2,435' FNL	Ft. from E/W 689' FEL	Latitude 32.101858	Longitude -103.776764	County EDDY
Bottom Hole Location									
UL P	Section 4	Township 26 S	Range 31 E	Lot	Ft. from N/S 50' FSL	Ft. from E/W 600' FEL	Latitude 32.064909	Longitude -103.776581	County EDDY
Dedicated Acres 400	Infill or Defining Well Defining	Defining Well API	Overlapping Spacing Unit (Y/N) No		Consolidation Code U				
Order Numbers. N/A			Well setbacks are under Common Ownership: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						
Kick Off Point (KOP)									
UL H	Section 28	Township 25 S	Range 31 E	Lot	Ft. from N/S 2,032' FNL	Ft. from E/W 604' FEL	Latitude 32.102965	Longitude -103.776479	County EDDY
First Take Point (FTP)									
UL I	Section 28	Township 25 S	Range 31 E	Lot	Ft. from N/S 2,551' FSL	Ft. from E/W 600' FEL	Latitude 32.100996	Longitude -103.776485	County EDDY
Last Take Point (LTP)									
UL P	Section 4	Township 26 S	Range 31 E	Lot	Ft. from N/S 100' FSL	Ft. from E/W 600' FEL	Latitude 32.065047	Longitude -103.776580	County EDDY
Unitized Area or Area of Uniform Interest NMNM-071016X			Spacing Unit Type <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical				Ground Floor Elevation: 3,337'		
OPERATOR CERTIFICATIONS <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i> <i>If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling form the division.</i> <div style="display: flex; justify-content: space-between;"><div>Terra Sebastian</div><div>10/30/2024</div></div>					SURVEYOR CERTIFICATIONS <i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i> <div style="display: flex; align-items: center;"><div style="flex: 1;"><i>Tim</i> 30 Sept 2024</div><div style="text-align: center;"></div></div> <div style="font-size: small;">I, TIM C. PAPPAS, NEW MEXICO PROFESSIONAL SURVEYOR NO. 21209, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO, AND THAT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.</div> <div style="font-size: x-small;">TIM C. PAPPAS REGISTERED PROFESSIONAL LAND SURVEYOR STATE OF NEW MEXICO NO. 21209</div>				
Signature Terra Sebastian					Signature and Seal of Professional Surveyor				
Printed Name terra.b.sebastian@exxonmobil.com					Certificate Number TIM C. PAPPAS 21209		Date of Survey 9/28/2024		
Email Address									
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.									
<div style="display: flex; justify-content: space-between; align-items: center;"><div style="text-align: left;">FSC INC SURVEYORS+ENGINEERS</div><div style="text-align: center; font-size: x-small;">2821 West 7th Street., Ste 200 - Fort Worth, TX 76107 Ph: 817.349.9800 - Fax: 979.732.5271 TBPE Firm 17957 TBPLS Firm 10193887 www.fscinc.net</div><div style="text-align: right; font-size: x-small;">DATE: 9-28-2024 DRAWN BY: LM CHECKED BY: CH FIELD CREW: IR PROJECT NO: 2023040168 SCALE: SHEET: 1 OF 2 REVISION: NO</div></div>									

ACREAGE DEDICATION PLATS

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

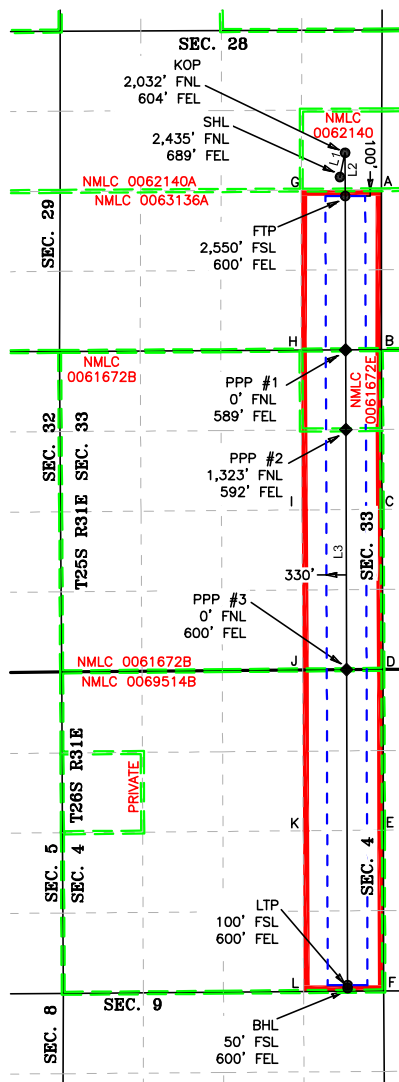
Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.

LEGEND

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

LINE TABLE

LINE	AZIMUTH	LENGTH
L1	12° 04'50"	412.12'
L2	179° 50'10"	716.19'
L3	179° 50'03"	13,127.84'



COORDINATE TABLE

SHL (NAD 83 NME)			FTP (NAD 83 NME)		
Y =	401,237.4	N	Y =	400,924.2	N
X =	713,677.4	E	X =	713,765.7	E
LAT. =	32.101858	°N	LAT. =	32.100996	°N
LONG. =	103.776764	°W	LONG. =	103.776485	°W
KOP (NAD 83 NME)					
Y =	401,640.4	N			
X =	713,763.7	E			
LAT. =	32.102965	°N			
LONG. =	103.776479	°W			
LTP (NAD 83 NME)			BHL (NAD 83 NME)		
Y =	387,846.5	N	Y =	387,796.5	N
X =	713,803.6	E	X =	713,803.7	E
LAT. =	32.065047	°N	LAT. =	32.064909	°N
LONG. =	103.776580	°W	LONG. =	103.776581	°W
SHL (NAD 27 NME)			FTP (NAD 27 NME)		
Y =	401,179.5	N	Y =	400,866.3	N
X =	672,491.6	E	X =	672,579.9	E
LAT. =	32.101734	°N	LAT. =	32.100871	°N
LONG. =	103.776287	°W	LONG. =	103.776007	°W
KOP (NAD 27 NME)					
Y =	401,582.5	N			
X =	672,578.0	E			
LAT. =	32.102840	°N			
LONG. =	103.776002	°W			
LTP (NAD 27 NME)			BHL (NAD 27 NME)		
Y =	387,789.0	N	Y =	387,739.0	N
X =	672,617.4	E	X =	672,617.5	E
LAT. =	32.064922	°N	LAT. =	32.064785	°N
LONG. =	103.776104	°W	LONG. =	103.776105	°W
PPP #1 (NAD 83 NME)			PPP #1 (NAD 27 NME)		
Y =	398,374.3	N	Y =	398,316.5	N
X =	713,773.1	E	X =	672,587.2	E
LAT. =	32.093986	°N	LAT. =	32.093862	°N
LONG. =	103.776503	°W	LONG. =	103.776026	°W
PPP #2 (NAD 83 NME)			PPP #2 (NAD 27 NME)		
Y =	397,051.0	N	Y =	396,993.2	N
X =	713,776.9	E	X =	672,591.0	E
LAT. =	32.090349	°N	LAT. =	32.090224	°N
LONG. =	103.776513	°W	LONG. =	103.776036	°W
PPP #3 (NAD 83 NME)			PPP #3 (NAD 27 NME)		
Y =	393,075.9	N	Y =	393,018.2	N
X =	713,788.4	E	X =	672,602.3	E
LAT. =	32.079422	°N	LAT. =	32.079297	°N
LONG. =	103.776542	°W	LONG. =	103.776066	°W

CORNER COORDINATES (NAD83 NME)

A - Y =	401,027.1	N	A - X =	714,365.8	E
B - Y =	398,377.8	N	B - X =	714,362.6	E
C - Y =	395,732.5	N	C - X =	714,375.6	E
D - Y =	393,080.5	N	D - X =	714,388.8	E
E - Y =	390,416.3	N	E - X =	714,396.8	E
F - Y =	387,751.0	N	F - X =	714,403.8	E
G - Y =	401,020.7	N	G - X =	713,036.5	E
H - Y =	398,369.9	N	H - X =	713,031.4	E
I - Y =	395,722.1	N	I - X =	713,045.2	E
J - Y =	393,070.2	N	J - X =	713,059.0	E
K - Y =	390,405.5	N	K - X =	713,067.5	E
L - Y =	387,741.0	N	L - X =	713,075.6	E

CORNER COORDINATES (NAD27 NME)

A - Y =	400,969.2	N	A - X =	673,180.0	E
B - Y =	398,320.0	N	B - X =	673,176.7	E
C - Y =	395,674.8	N	C - X =	673,189.6	E
D - Y =	393,022.8	N	D - X =	673,202.7	E
E - Y =	390,358.7	N	E - X =	673,210.6	E
F - Y =	387,693.5	N	F - X =	673,217.6	E
G - Y =	400,962.8	N	G - X =	671,850.7	E
H - Y =	398,312.1	N	H - X =	671,845.5	E
I - Y =	395,664.4	N	I - X =	671,859.3	E
J - Y =	393,012.5	N	J - X =	671,873.0	E
K - Y =	390,347.9	N	K - X =	671,881.4	E
L - Y =	387,683.5	N	L - X =	671,889.4	E



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 TBPE Firm 17957 | TBPLS Firm 10193887
 www.fscinc.net
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DATE: 9-28-2024 PROJECT NO: 2023040168
 DRAWN BY: LM SCALE: 1" = 2,500'
 CHECKED BY: CH SHEET: 2 OF 2
 FIELD CREW: IR REVISION: NO

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

XTO Energy Inc.
POKER LAKE UNIT 28 BS 407H
Projected TD: 24378.7' MD / 10827' TVD
SHL: 2435' FNL & 689' FEL , Section 28, T25S, R31E
BHL: 50' FSL & 600' FEL , 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	854'	Water
Top of Salt	1221'	Water
Base of Salt	4080'	Water
Delaware	4262'	Water
Brushy Canyon	6941'	Water/Oil/Gas
Bone Spring	8170'	Water
Avalon	8341'	Water/Oil/Gas
1st Bone Spring	8957'	Water/Oil/Gas
2nd Bone Spring	9466'	Water/Oil/Gas
3rd Bone Spring	10248'	Water/Oil/Gas
Target/Land Curve	10827'	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 @ 954' (267' 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 9926.35' and cemented to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 24378.7 MD/TD and 5.5 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 9626.35 feet).

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0' – 954'	9.625	40	J-55	BTC	New	1.60	6.60	16.51
8.75	0' – 4000'	7.625	29.7	RY P-110	Flush Joint	New	2.81	2.86	1.89
8.75	4000' – 9926.35'	7.625	29.7	HC L-80	Flush Joint	New	2.05	2.31	2.31
6.75	0' – 9826.35'	5.5	20	RY P-110	Freedom/Semi-Permium	New	1.05	2.13	2.02
6.75	9826.35' - 24378.7'	5.5	20	RY P-110	Talon/Semi-Flush	New	1.05	1.93	2.02

• 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 +/- 954'**Lead: 210 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 +/- 9926.35'1st StageOptional Lead: 370 sxs Class C (mixed at 10.5 ppg, 2.77 ft³/sx, 15.59 gal/sx water)

TOC: Surface

Tail: 270 sxs Class C (mixed at 14.8 ppg, 1.35 ft³/sx, 6.39 gal/sx water)

TOC: Brushy Canyon @ 6941

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

2nd StageLead: 0 sxs Class C (mixed at 12.9 ppg, 2.16 ft³/sx, 9.61 gal/sx water)Tail: 780 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 (6941') 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 +/- 24378.7'

Lead: 20 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft³/sx, 15.00 gal/sx water) Top of Cement: 9626.35 feet
 Tail: 1020 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft³/sx, 8.38 gal/sx water) Top of Cement: 10126.35 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' - 954'	12.25	FW/Native	8.4-8.9	35-40	NC	Fresh water or native water
954' - 9926.35'	8.75	Saturated brine for salt interval / Direct Emulsion	9-9.5	30-32	NC	Fully saturated salt across salado / salt
9926.35' - 24378.7'	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 407H

Measured Depth:	24378.70 ft
TVD RKB:	10827.00 ft
Location	
Cartographic Reference System:	New Mexico East - NAD 27
Northing:	401179.50 ft
Easting:	672491.60 ft
RKB:	3369.00 ft
Ground Level:	3337.00 ft
North Reference:	Grid
Convergence Angle:	0.30 Deg

Poker Lake Unit 28 BS 407H									
Measured		TVD		Build		Turn		Dogleg	
Depth	Inclination	Azimuth	RKB	Y Offset	X Offset	Rate	Rate	Rate	Rate
(ft)	(Deg)	(Deg)	(ft)	(ft)	(ft)	(Deg/100ft)	(Deg/100ft)	(Deg/100ft)	(Deg/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	0.00	0.00
1318.98	4.38	12.08	1318.77	8.18	1.75	2.00	0.00	0.00	2.00
6496.56	4.38	12.08	6481.23	394.81	84.50	0.00	0.00	0.00	0.00
6715.55	0.00	0.00	6700.00	402.99	86.25	-2.00	0.00	0.00	2.00
10126.35	0.00	0.00	10110.80	402.99	86.25	0.00	0.00	0.00	0.00
11251.35	90.00	179.84	10827.00	-313.20	88.30	8.00	0.00	0.00	8.00
24328.70	90.00	179.84	10827.00	-13390.50	125.80	0.00	0.00	0.00	0.00
24378.70	90.00	179.84	10827.00	-13440.50	125.94	0.00	0.00	0.00	0.00
Poker Lake Unit 28 BS 407H									
Position Uncertainty		TVD	Highside	Lateral	Vertical	Magnitude	Semi-major	Semi-minor	Tool
Measured									

Depth (ft)	Inclination (°)	Azimuth (°)	RKB (ft)	Error (ft)	Bias (ft)	Error (ft)	Bias (ft)	Error (ft)	of Bias (ft)	Error (ft)	Used (°)
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	XOMR2_OWSG MWD+IFR1+MS
100.000	0.000	0.000	100.000	0.358	0.000	0.179	0.000	2.300	0.000	0.358	XOMR2_OWSG MWD+IFR1+MS
200.000	0.000	0.000	200.000	0.717	0.000	0.538	0.000	2.310	0.000	0.717	XOMR2_OWSG MWD+IFR1+MS
300.000	0.000	0.000	300.000	1.075	0.000	0.896	0.000	2.325	0.000	1.075	XOMR2_OWSG MWD+IFR1+MS
400.000	0.000	0.000	400.000	1.434	0.000	1.255	0.000	2.347	0.000	1.434	XOMR2_OWSG MWD+IFR1+MS
500.000	0.000	0.000	500.000	1.792	0.000	1.613	0.000	2.374	0.000	1.792	XOMR2_OWSG MWD+IFR1+MS
600.000	0.000	0.000	600.000	2.151	0.000	1.972	0.000	2.406	0.000	2.151	XOMR2_OWSG MWD+IFR1+MS
700.000	0.000	0.000	700.000	2.509	0.000	2.330	0.000	2.443	0.000	2.509	XOMR2_OWSG MWD+IFR1+MS
800.000	0.000	0.000	800.000	2.868	0.000	2.689	0.000	2.485	0.000	2.868	XOMR2_OWSG MWD+IFR1+MS
900.000	0.000	0.000	900.000	3.226	0.000	3.047	0.000	2.531	0.000	3.226	XOMR2_OWSG MWD+IFR1+MS
1000.000	0.000	0.000	1000.000	3.585	0.000	3.405	0.000	2.581	0.000	3.585	XOMR2_OWSG MWD+IFR1+MS
1100.000	0.000	0.000	1100.000	3.943	0.000	3.764	0.000	2.634	0.000	3.943	XOMR2_OWSG MWD+IFR1+MS
1200.000	2.000	12.080	1199.980	4.292	0.000	4.130	0.000	2.690	0.000	4.302	XOMR2_OWSG MWD+IFR1+MS
1300.000	4.000	12.080	1299.838	4.643	0.000	4.486	0.000	2.747	0.000	4.661	XOMR2_OWSG MWD+IFR1+MS
1318.985	4.380	12.080	1318.771	4.710	0.000	4.553	0.000	2.757	0.000	4.730	XOMR2_OWSG MWD+IFR1+MS
1400.000	4.380	12.080	1399.550	5.000	0.000	4.842	0.000	2.807	0.000	5.020	XOMR2_OWSG MWD+IFR1+MS
1500.000	4.380	12.080	1499.258	5.358	0.000	5.198	0.000	2.873	0.000	5.377	XOMR2_OWSG MWD+IFR1+MS
1600.000	4.380	12.080	1598.966	5.717	0.000	5.555	0.000	2.941	0.000	5.735	XOMR2_OWSG MWD+IFR1+MS
1700.000	4.380	12.080	1698.674	6.077	0.000	5.912	0.000	3.011	0.000	6.094	XOMR2_OWSG MWD+IFR1+MS

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Well Plan Report														
1800.000	4.380	12.080	1798.382	6.437	0.000	6.270	0.000	3.084	0.000	0.000	6.453	6.262	90.364	XOMR2_OWSG MWD+IFR1+MS
1900.000	4.380	12.080	1898.090	6.797	0.000	6.627	0.000	3.159	0.000	0.000	6.812	6.619	90.397	XOMR2_OWSG MWD+IFR1+MS
2000.000	4.380	12.080	1997.798	7.157	0.000	6.985	0.000	3.236	0.000	0.000	7.171	6.977	90.435	XOMR2_OWSG MWD+IFR1+MS
2100.000	4.380	12.080	2097.506	7.518	0.000	7.343	0.000	3.315	0.000	0.000	7.531	7.335	90.477	XOMR2_OWSG MWD+IFR1+MS
2200.000	4.380	12.080	2197.214	7.879	0.000	7.701	0.000	3.395	0.000	0.000	7.890	7.693	90.522	XOMR2_OWSG MWD+IFR1+MS
2300.000	4.380	12.080	2296.922	8.240	0.000	8.059	0.000	3.478	0.000	0.000	8.250	8.051	90.569	XOMR2_OWSG MWD+IFR1+MS
2400.000	4.380	12.080	2396.630	8.601	0.000	8.418	0.000	3.561	0.000	0.000	8.610	8.410	90.619	XOMR2_OWSG MWD+IFR1+MS
2500.000	4.380	12.080	2496.338	8.962	0.000	8.776	0.000	3.647	0.000	0.000	8.970	8.768	90.670	XOMR2_OWSG MWD+IFR1+MS
2600.000	4.380	12.080	2596.046	9.323	0.000	9.135	0.000	3.734	0.000	0.000	9.331	9.127	90.722	XOMR2_OWSG MWD+IFR1+MS
2700.000	4.380	12.080	2695.754	9.684	0.000	9.493	0.000	3.822	0.000	0.000	9.691	9.485	90.776	XOMR2_OWSG MWD+IFR1+MS
2800.000	4.380	12.080	2795.462	10.046	0.000	9.852	0.000	3.912	0.000	0.000	10.051	9.844	90.831	XOMR2_OWSG MWD+IFR1+MS
2900.000	4.380	12.080	2895.170	10.407	0.000	10.211	0.000	4.003	0.000	0.000	10.412	10.203	90.886	XOMR2_OWSG MWD+IFR1+MS
3000.000	4.380	12.080	2994.878	10.769	0.000	10.570	0.000	4.095	0.000	0.000	10.773	10.562	90.941	XOMR2_OWSG MWD+IFR1+MS
3100.000	4.380	12.080	3094.586	11.131	0.000	10.929	0.000	4.189	0.000	0.000	11.133	10.921	90.997	XOMR2_OWSG MWD+IFR1+MS
3200.000	4.380	12.080	3194.294	11.492	0.000	11.288	0.000	4.284	0.000	0.000	11.494	11.280	91.053	XOMR2_OWSG MWD+IFR1+MS
3300.000	4.380	12.080	3294.002	11.854	0.000	11.646	0.000	4.381	0.000	0.000	11.855	11.639	91.109	XOMR2_OWSG MWD+IFR1+MS
3400.000	4.380	12.080	3393.710	12.216	0.000	12.005	0.000	4.479	0.000	0.000	12.216	11.998	91.165	XOMR2_OWSG MWD+IFR1+MS
3500.000	4.380	12.080	3493.418	12.578	0.000	12.365	0.000	4.578	0.000	0.000	12.576	12.357	91.221	XOMR2_OWSG MWD+IFR1+MS
3600.000	4.380	12.080	3593.126	12.940	0.000	12.724	0.000	4.679	0.000	0.000	12.937	12.716	91.277	XOMR2_OWSG MWD+IFR1+MS
3700.000	4.380	12.080	3692.834	13.302	0.000	13.083	0.000	4.781	0.000	0.000	13.298	13.075	91.332	XOMR2_OWSG MWD+IFR1+MS

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Well Plan Report														
3800.000	4.380	12.080	3792.542	13.664	0.000	13.442	0.000	4.885	0.000	0.000	13.659	13.434	91.387	XOMR2_OWSG MWD+IFR1+MS
3900.000	4.380	12.080	3892.250	14.026	0.000	13.801	0.000	4.990	0.000	0.000	14.020	13.793	91.442	XOMR2_OWSG MWD+IFR1+MS
4000.000	4.380	12.080	3991.958	14.388	0.000	14.160	0.000	5.096	0.000	0.000	14.381	14.152	91.497	XOMR2_OWSG MWD+IFR1+MS
4100.000	4.380	12.080	4091.666	14.750	0.000	14.519	0.000	5.204	0.000	0.000	14.742	14.511	91.551	XOMR2_OWSG MWD+IFR1+MS
4200.000	4.380	12.080	4191.374	15.112	0.000	14.878	0.000	5.314	0.000	0.000	15.103	14.871	91.605	XOMR2_OWSG MWD+IFR1+MS
4300.000	4.380	12.080	4291.082	15.474	0.000	15.238	0.000	5.425	0.000	0.000	15.465	15.230	91.658	XOMR2_OWSG MWD+IFR1+MS
4400.000	4.380	12.080	4390.790	15.836	0.000	15.597	0.000	5.538	0.000	0.000	15.826	15.589	91.711	XOMR2_OWSG MWD+IFR1+MS
4500.000	4.380	12.080	4490.498	16.198	0.000	15.956	0.000	5.653	0.000	0.000	16.187	15.948	91.764	XOMR2_OWSG MWD+IFR1+MS
4600.000	4.380	12.080	4590.206	16.560	0.000	16.315	0.000	5.769	0.000	0.000	16.548	16.308	91.816	XOMR2_OWSG MWD+IFR1+MS
4700.000	4.380	12.080	4689.914	16.923	0.000	16.675	0.000	5.887	0.000	0.000	16.909	16.667	91.867	XOMR2_OWSG MWD+IFR1+MS
4800.000	4.380	12.080	4789.622	17.285	0.000	17.034	0.000	6.007	0.000	0.000	17.271	17.026	91.918	XOMR2_OWSG MWD+IFR1+MS
4900.000	4.380	12.080	4889.330	17.647	0.000	17.393	0.000	6.128	0.000	0.000	17.632	17.385	91.969	XOMR2_OWSG MWD+IFR1+MS
5000.000	4.380	12.080	4989.038	18.009	0.000	17.752	0.000	6.251	0.000	0.000	17.993	17.745	92.019	XOMR2_OWSG MWD+IFR1+MS
5100.000	4.380	12.080	5088.746	18.372	0.000	18.112	0.000	6.376	0.000	0.000	18.354	18.104	92.069	XOMR2_OWSG MWD+IFR1+MS
5200.000	4.380	12.080	5188.454	18.734	0.000	18.471	0.000	6.504	0.000	0.000	18.716	18.463	92.118	XOMR2_OWSG MWD+IFR1+MS
5300.000	4.380	12.080	5288.162	19.096	0.000	18.830	0.000	6.632	0.000	0.000	19.077	18.823	92.167	XOMR2_OWSG MWD+IFR1+MS
5400.000	4.380	12.080	5387.870	19.458	0.000	19.190	0.000	6.763	0.000	0.000	19.438	19.182	92.216	XOMR2_OWSG MWD+IFR1+MS
5500.000	4.380	12.080	5487.578	19.821	0.000	19.549	0.000	6.896	0.000	0.000	19.800	19.541	92.263	XOMR2_OWSG MWD+IFR1+MS
5600.000	4.380	12.080	5587.286	20.183	0.000	19.908	0.000	7.031	0.000	0.000	20.161	19.901	92.311	XOMR2_OWSG MWD+IFR1+MS
5700.000	4.380	12.080	5686.994	20.545	0.000	20.268	0.000	7.168	0.000	0.000	20.523	20.260	92.358	XOMR2_OWSG MWD+IFR1+MS

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Well Plan Report														
5800.000	4.380	12.080	5786.702	20.907	0.000	20.627	0.000	7.307	0.000	0.000	20.884	20.620	92.404	XOMR2_OWSG MWD+IFR1+MS
5900.000	4.380	12.080	5886.410	21.270	0.000	20.986	0.000	7.449	0.000	0.000	21.245	20.979	92.450	XOMR2_OWSG MWD+IFR1+MS
6000.000	4.380	12.080	5986.118	21.632	0.000	21.346	0.000	7.592	0.000	0.000	21.607	21.338	92.496	XOMR2_OWSG MWD+IFR1+MS
6100.000	4.380	12.080	6085.826	21.994	0.000	21.705	0.000	7.738	0.000	0.000	21.968	21.698	92.541	XOMR2_OWSG MWD+IFR1+MS
6200.000	4.380	12.080	6185.534	22.357	0.000	22.065	0.000	7.886	0.000	0.000	22.330	22.057	92.586	XOMR2_OWSG MWD+IFR1+MS
6300.000	4.380	12.080	6285.242	22.719	0.000	22.424	0.000	8.036	0.000	0.000	22.691	22.417	92.630	XOMR2_OWSG MWD+IFR1+MS
6400.000	4.380	12.080	6384.950	23.082	0.000	22.783	0.000	8.188	0.000	0.000	23.053	22.776	92.674	XOMR2_OWSG MWD+IFR1+MS
6496.561	4.380	12.080	6481.229	23.431	0.000	23.130	0.000	8.337	0.000	0.000	23.402	23.123	92.716	XOMR2_OWSG MWD+IFR1+MS
6500.000	4.311	12.080	6484.658	23.444	0.000	23.143	0.000	8.343	0.000	0.000	23.414	23.135	92.717	XOMR2_OWSG MWD+IFR1+MS
6600.000	2.311	12.080	6584.486	23.802	0.000	23.501	0.000	8.499	0.000	0.000	23.774	23.494	92.745	XOMR2_OWSG MWD+IFR1+MS
6700.000	0.311	12.080	6684.455	24.131	0.000	23.858	0.000	8.657	0.000	0.000	24.131	23.851	92.753	XOMR2_OWSG MWD+IFR1+MS
6715.546	0.000	0.000	6700.000	24.186	0.000	23.907	0.000	8.681	0.000	0.000	24.186	23.906	92.749	XOMR2_OWSG MWD+IFR1+MS
6800.000	0.000	0.000	6784.454	24.485	0.000	24.207	0.000	8.815	0.000	0.000	24.486	24.206	92.707	XOMR2_OWSG MWD+IFR1+MS
6900.000	0.000	0.000	6884.454	24.840	0.000	24.562	0.000	8.975	0.000	0.000	24.841	24.561	92.658	XOMR2_OWSG MWD+IFR1+MS
7000.000	0.000	0.000	6984.454	25.196	0.000	24.917	0.000	9.137	0.000	0.000	25.196	24.917	92.610	XOMR2_OWSG MWD+IFR1+MS
7100.000	0.000	0.000	7084.454	25.551	0.000	25.273	0.000	9.303	0.000	0.000	25.551	25.272	92.564	XOMR2_OWSG MWD+IFR1+MS
7200.000	0.000	0.000	7184.454	25.906	0.000	25.628	0.000	9.471	0.000	0.000	25.907	25.628	92.519	XOMR2_OWSG MWD+IFR1+MS
7300.000	0.000	0.000	7284.454	26.262	0.000	25.984	0.000	9.641	0.000	0.000	26.262	25.983	92.475	XOMR2_OWSG MWD+IFR1+MS
7400.000	0.000	0.000	7384.454	26.617	0.000	26.340	0.000	9.814	0.000	0.000	26.617	26.339	92.432	XOMR2_OWSG MWD+IFR1+MS
7500.000	0.000	0.000	7484.454	26.973	0.000	26.695	0.000	9.990	0.000	0.000	26.973	26.695	92.390	XOMR2_OWSG MWD+IFR1+MS

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Well Plan Report														
7600.000	0.000	0.000	7584.454	27.328	0.000	27.051	0.000	10.169	0.000	0.000	27.329	27.051	92.349	XOMR2_OWSG MWD+IFR1+MS
7700.000	0.000	0.000	7684.454	27.684	0.000	27.407	0.000	10.350	0.000	0.000	27.684	27.407	92.310	XOMR2_OWSG MWD+IFR1+MS
7800.000	0.000	0.000	7784.454	28.040	0.000	27.763	0.000	10.534	0.000	0.000	28.040	27.763	92.271	XOMR2_OWSG MWD+IFR1+MS
7900.000	0.000	0.000	7884.454	28.396	0.000	28.119	0.000	10.720	0.000	0.000	28.396	28.119	92.233	XOMR2_OWSG MWD+IFR1+MS
8000.000	0.000	0.000	7984.454	28.751	0.000	28.475	0.000	10.910	0.000	0.000	28.752	28.475	92.196	XOMR2_OWSG MWD+IFR1+MS
8100.000	0.000	0.000	8084.454	29.107	0.000	28.832	0.000	11.102	0.000	0.000	29.108	28.831	92.159	XOMR2_OWSG MWD+IFR1+MS
8200.000	0.000	0.000	8184.454	29.463	0.000	29.188	0.000	11.297	0.000	0.000	29.464	29.187	92.124	XOMR2_OWSG MWD+IFR1+MS
8300.000	0.000	0.000	8284.454	29.820	0.000	29.544	0.000	11.495	0.000	0.000	29.820	29.544	92.089	XOMR2_OWSG MWD+IFR1+MS
8400.000	0.000	0.000	8384.454	30.176	0.000	29.900	0.000	11.695	0.000	0.000	30.176	29.900	92.056	XOMR2_OWSG MWD+IFR1+MS
8500.000	0.000	0.000	8484.454	30.532	0.000	30.257	0.000	11.899	0.000	0.000	30.532	30.256	92.023	XOMR2_OWSG MWD+IFR1+MS
8600.000	0.000	0.000	8584.454	30.888	0.000	30.613	0.000	12.105	0.000	0.000	30.888	30.613	91.990	XOMR2_OWSG MWD+IFR1+MS
8700.000	0.000	0.000	8684.454	31.244	0.000	30.970	0.000	12.314	0.000	0.000	31.245	30.969	91.958	XOMR2_OWSG MWD+IFR1+MS
8800.000	0.000	0.000	8784.454	31.601	0.000	31.326	0.000	12.526	0.000	0.000	31.601	31.326	91.927	XOMR2_OWSG MWD+IFR1+MS
8900.000	0.000	0.000	8884.454	31.957	0.000	31.683	0.000	12.741	0.000	0.000	31.957	31.683	91.897	XOMR2_OWSG MWD+IFR1+MS
9000.000	0.000	0.000	8984.454	32.314	0.000	32.039	0.000	12.958	0.000	0.000	32.314	32.039	91.867	XOMR2_OWSG MWD+IFR1+MS
9100.000	0.000	0.000	9084.454	32.670	0.000	32.396	0.000	13.179	0.000	0.000	32.670	32.396	91.838	XOMR2_OWSG MWD+IFR1+MS
9200.000	0.000	0.000	9184.454	33.027	0.000	32.753	0.000	13.403	0.000	0.000	33.027	32.753	91.810	XOMR2_OWSG MWD+IFR1+MS
9300.000	0.000	0.000	9284.454	33.383	0.000	33.110	0.000	13.629	0.000	0.000	33.384	33.109	91.782	XOMR2_OWSG MWD+IFR1+MS
9400.000	0.000	0.000	9384.454	33.740	0.000	33.466	0.000	13.858	0.000	0.000	33.740	33.466	91.754	XOMR2_OWSG MWD+IFR1+MS
9500.000	0.000	0.000	9484.454	34.097	0.000	33.823	0.000	14.091	0.000	0.000	34.097	33.823	91.728	XOMR2_OWSG MWD+IFR1+MS

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9600.000	0.000	0.000	9584.454	34.453	0.000	34.180	0.000	14.326	0.000	0.000	34.453	34.180	91.701	XOMR2_OWSG MWD+IFR1+MS
9700.000	0.000	0.000	9684.454	34.810	0.000	34.537	0.000	14.564	0.000	0.000	34.810	34.537	91.676	XOMR2_OWSG MWD+IFR1+MS
9800.000	0.000	0.000	9784.454	35.167	0.000	34.894	0.000	14.805	0.000	0.000	35.167	34.894	91.650	XOMR2_OWSG MWD+IFR1+MS
9900.000	0.000	0.000	9884.454	35.524	0.000	35.251	0.000	15.050	0.000	0.000	35.524	35.250	91.625	XOMR2_OWSG MWD+IFR1+MS
10000.000	0.000	0.000	9984.454	35.880	0.000	35.608	0.000	15.297	0.000	0.000	35.881	35.607	91.601	XOMR2_OWSG MWD+IFR1+MS
10100.000	0.000	0.000	10084.454	36.237	0.000	35.965	0.000	15.547	0.000	0.000	36.237	35.964	91.577	XOMR2_OWSG MWD+IFR1+MS
10126.348	0.000	0.000	10110.803	36.331	0.000	36.059	0.000	15.613	0.000	0.000	36.331	36.058	91.571	XOMR2_OWSG MWD+IFR1+MS
10200.000	5.892	179.836	10184.325	36.293	0.000	36.306	-0.000	15.797	0.000	0.000	36.577	36.306	91.551	XOMR2_OWSG MWD+IFR1+MS
10300.000	13.892	179.836	10282.758	35.714	0.000	36.613	-0.000	16.038	0.000	0.000	36.878	36.612	91.538	XOMR2_OWSG MWD+IFR1+MS
10400.000	21.892	179.836	10377.844	34.569	0.000	36.902	-0.000	16.263	0.000	0.000	37.156	36.901	91.593	XOMR2_OWSG MWD+IFR1+MS
10500.000	29.892	179.836	10467.733	32.901	0.000	37.170	-0.000	16.469	0.000	0.000	37.401	37.170	91.794	XOMR2_OWSG MWD+IFR1+MS
10600.000	37.892	179.836	10550.675	30.777	0.000	37.415	-0.000	16.655	0.000	0.000	37.610	37.414	92.289	XOMR2_OWSG MWD+IFR1+MS
10700.000	45.892	179.836	10625.054	28.294	0.000	37.634	-0.000	16.825	0.000	0.000	37.779	37.633	93.495	XOMR2_OWSG MWD+IFR1+MS
10800.000	53.892	179.836	10689.425	25.592	0.000	37.827	-0.000	16.983	0.000	0.000	37.911	37.825	97.228	XOMR2_OWSG MWD+IFR1+MS
10900.000	61.892	179.836	10742.533	22.867	0.000	37.992	-0.000	17.138	0.000	0.000	38.011	37.983	124.368	XOMR2_OWSG MWD+IFR1+MS
11000.000	69.892	179.836	10783.346	20.395	0.000	38.129	-0.000	17.297	0.000	0.000	38.133	38.058	-13.093	XOMR2_OWSG MWD+IFR1+MS
11100.000	77.892	179.836	10811.068	18.542	0.000	38.238	-0.000	17.468	0.000	0.000	38.241	38.092	-8.096	XOMR2_OWSG MWD+IFR1+MS
11200.000	85.892	179.836	10825.160	17.703	0.000	38.317	-0.000	17.656	0.000	0.000	38.320	38.107	-6.976	XOMR2_OWSG MWD+IFR1+MS
11251.348	90.000	179.836	10827.000	17.759	0.000	38.345	-0.000	17.759	0.000	0.000	38.348	38.111	-6.946	XOMR2_OWSG MWD+IFR1+MS
11300.000	90.000	179.836	10827.000	17.863	0.000	38.369	-0.000	17.863	0.000	0.000	38.373	38.113	-6.958	XOMR2_OWSG MWD+IFR1+MS

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11400.000	90.000	179.836	10827.000	18.100	0.000	38.432	-0.000	18.100	0.000	0.000	38.437	38.117	-6.695	XOMR2_OWSG MWD+IFR1+MS
11500.000	90.000	179.836	10827.000	18.367	0.000	38.511	-0.000	18.367	0.000	0.000	38.515	38.123	-6.280	XOMR2_OWSG MWD+IFR1+MS
11600.000	90.000	179.836	10827.000	18.664	0.000	38.604	-0.000	18.664	0.000	0.000	38.609	38.129	-5.820	XOMR2_OWSG MWD+IFR1+MS
11700.000	90.000	179.836	10827.000	18.989	0.000	38.712	-0.000	18.989	0.000	0.000	38.717	38.136	-5.370	XOMR2_OWSG MWD+IFR1+MS
11800.000	90.000	179.836	10827.000	19.340	0.000	38.835	-0.000	19.340	0.000	0.000	38.840	38.143	-4.953	XOMR2_OWSG MWD+IFR1+MS
11900.000	90.000	179.836	10827.000	19.716	0.000	38.973	-0.000	19.716	0.000	0.000	38.978	38.152	-4.577	XOMR2_OWSG MWD+IFR1+MS
12000.000	90.000	179.836	10827.000	20.116	0.000	39.125	-0.000	20.116	0.000	0.000	39.130	38.161	-4.243	XOMR2_OWSG MWD+IFR1+MS
12100.000	90.000	179.836	10827.000	20.537	0.000	39.291	-0.000	20.537	0.000	0.000	39.296	38.170	-3.946	XOMR2_OWSG MWD+IFR1+MS
12200.000	90.000	179.836	10827.000	20.980	0.000	39.472	-0.000	20.980	0.000	0.000	39.477	38.181	-3.683	XOMR2_OWSG MWD+IFR1+MS
12300.000	90.000	179.836	10827.000	21.443	0.000	39.666	-0.000	21.443	0.000	0.000	39.671	38.192	-3.450	XOMR2_OWSG MWD+IFR1+MS
12400.000	90.000	179.836	10827.000	21.923	0.000	39.874	-0.000	21.923	0.000	0.000	39.879	38.203	-3.243	XOMR2_OWSG MWD+IFR1+MS
12500.000	90.000	179.836	10827.000	22.421	0.000	40.096	-0.000	22.421	0.000	0.000	40.101	38.216	-3.058	XOMR2_OWSG MWD+IFR1+MS
12600.000	90.000	179.836	10827.000	22.935	0.000	40.331	-0.000	22.935	0.000	0.000	40.335	38.228	-2.892	XOMR2_OWSG MWD+IFR1+MS
12700.000	90.000	179.836	10827.000	23.464	0.000	40.579	-0.000	23.464	0.000	0.000	40.583	38.242	-2.743	XOMR2_OWSG MWD+IFR1+MS
12800.000	90.000	179.836	10827.000	24.007	0.000	40.839	-0.000	24.007	0.000	0.000	40.844	38.256	-2.608	XOMR2_OWSG MWD+IFR1+MS
12900.000	90.000	179.836	10827.000	24.563	0.000	41.113	-0.000	24.563	0.000	0.000	41.117	38.271	-2.486	XOMR2_OWSG MWD+IFR1+MS
13000.000	90.000	179.836	10827.000	25.131	0.000	41.398	-0.000	25.131	0.000	0.000	41.403	38.287	-2.375	XOMR2_OWSG MWD+IFR1+MS
13100.000	90.000	179.836	10827.000	25.711	0.000	41.696	-0.000	25.711	0.000	0.000	41.701	38.303	-2.274	XOMR2_OWSG MWD+IFR1+MS
13200.000	90.000	179.836	10827.000	26.301	0.000	42.006	-0.000	26.301	0.000	0.000	42.010	38.320	-2.181	XOMR2_OWSG MWD+IFR1+MS
13300.000	90.000	179.836	10827.000	26.901	0.000	42.327	-0.000	26.901	0.000	0.000	42.331	38.338	-2.095	XOMR2_OWSG MWD+IFR1+MS

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13400.000	90.000	179.836	10827.000	27.511	0.000	42.659	-0.000	27.511	0.000	0.000	42.663	38.356	XOMR2_OWSG MWD+IFR1+MS
13500.000	90.000	179.836	10827.000	28.129	0.000	43.003	-0.000	28.129	0.000	0.000	43.007	38.375	XOMR2_OWSG MWD+IFR1+MS
13600.000	90.000	179.836	10827.000	28.755	0.000	43.357	-0.000	28.755	0.000	0.000	43.361	38.395	XOMR2_OWSG MWD+IFR1+MS
13700.000	90.000	179.836	10827.000	29.389	0.000	43.721	-0.000	29.389	0.000	0.000	43.726	38.415	XOMR2_OWSG MWD+IFR1+MS
13800.000	90.000	179.836	10827.000	30.030	0.000	44.096	-0.000	30.030	0.000	0.000	44.100	38.436	XOMR2_OWSG MWD+IFR1+MS
13900.000	90.000	179.836	10827.000	30.678	0.000	44.481	-0.000	30.678	0.000	0.000	44.485	38.457	XOMR2_OWSG MWD+IFR1+MS
14000.000	90.000	179.836	10827.000	31.332	0.000	44.876	-0.000	31.332	0.000	0.000	44.880	38.479	XOMR2_OWSG MWD+IFR1+MS
14100.000	90.000	179.836	10827.000	31.992	0.000	45.280	-0.000	31.992	0.000	0.000	45.284	38.502	XOMR2_OWSG MWD+IFR1+MS
14200.000	90.000	179.836	10827.000	32.657	0.000	45.693	-0.000	32.657	0.000	0.000	45.697	38.526	XOMR2_OWSG MWD+IFR1+MS
14300.000	90.000	179.836	10827.000	33.328	0.000	46.116	-0.000	33.328	0.000	0.000	46.119	38.550	XOMR2_OWSG MWD+IFR1+MS
14400.000	90.000	179.836	10827.000	34.003	0.000	46.547	-0.000	34.003	0.000	0.000	46.550	38.574	XOMR2_OWSG MWD+IFR1+MS
14500.000	90.000	179.836	10827.000	34.683	0.000	46.986	-0.000	34.683	0.000	0.000	46.990	38.600	XOMR2_OWSG MWD+IFR1+MS
14600.000	90.000	179.836	10827.000	35.368	0.000	47.434	-0.000	35.368	0.000	0.000	47.438	38.626	XOMR2_OWSG MWD+IFR1+MS
14700.000	90.000	179.836	10827.000	36.056	0.000	47.890	-0.000	36.056	0.000	0.000	47.893	38.653	XOMR2_OWSG MWD+IFR1+MS
14800.000	90.000	179.836	10827.000	36.748	0.000	48.353	-0.000	36.748	0.000	0.000	48.357	38.680	XOMR2_OWSG MWD+IFR1+MS
14900.000	90.000	179.836	10827.000	37.444	0.000	48.825	-0.000	37.444	0.000	0.000	48.828	38.708	XOMR2_OWSG MWD+IFR1+MS
15000.000	90.000	179.836	10827.000	38.144	0.000	49.303	-0.000	38.144	0.000	0.000	49.307	38.736	XOMR2_OWSG MWD+IFR1+MS
15100.000	90.000	179.836	10827.000	38.847	0.000	49.789	-0.000	38.847	0.000	0.000	49.792	38.766	XOMR2_OWSG MWD+IFR1+MS
15200.000	90.000	179.836	10827.000	39.552	0.000	50.281	-0.000	39.552	0.000	0.000	50.285	38.796	XOMR2_OWSG MWD+IFR1+MS
15300.000	90.000	179.836	10827.000	40.261	0.000	50.781	-0.000	40.261	0.000	0.000	50.784	38.826	XOMR2_OWSG MWD+IFR1+MS

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15400.000	90.000	179.836	10827.000	40.973	0.000	51.287	-0.000	40.973	0.000	0.000	51.290	38.857	XOMR2_OWSG MWD+IFR1+MS
15500.000	90.000	179.836	10827.000	41.687	0.000	51.799	-0.000	41.687	0.000	0.000	51.802	38.889	XOMR2_OWSG MWD+IFR1+MS
15600.000	90.000	179.836	10827.000	42.404	0.000	52.317	-0.000	42.404	0.000	0.000	52.321	38.921	XOMR2_OWSG MWD+IFR1+MS
15700.000	90.000	179.836	10827.000	43.123	0.000	52.842	-0.000	43.123	0.000	0.000	52.845	38.954	XOMR2_OWSG MWD+IFR1+MS
15800.000	90.000	179.836	10827.000	43.844	0.000	53.372	-0.000	43.844	0.000	0.000	53.375	38.988	XOMR2_OWSG MWD+IFR1+MS
15900.000	90.000	179.836	10827.000	44.567	0.000	53.908	-0.000	44.567	0.000	0.000	53.911	39.022	XOMR2_OWSG MWD+IFR1+MS
16000.000	90.000	179.836	10827.000	45.293	0.000	54.449	-0.000	45.293	0.000	0.000	54.452	39.057	XOMR2_OWSG MWD+IFR1+MS
16100.000	90.000	179.836	10827.000	46.020	0.000	54.995	-0.000	46.020	0.000	0.000	54.999	39.093	XOMR2_OWSG MWD+IFR1+MS
16200.000	90.000	179.836	10827.000	46.749	0.000	55.547	-0.000	46.749	0.000	0.000	55.550	39.129	XOMR2_OWSG MWD+IFR1+MS
16300.000	90.000	179.836	10827.000	47.480	0.000	56.104	-0.000	47.480	0.000	0.000	56.107	39.165	XOMR2_OWSG MWD+IFR1+MS
16400.000	90.000	179.836	10827.000	48.213	0.000	56.665	-0.000	48.213	0.000	0.000	56.668	39.203	XOMR2_OWSG MWD+IFR1+MS
16500.000	90.000	179.836	10827.000	48.947	0.000	57.232	-0.000	48.947	0.000	0.000	57.235	39.241	XOMR2_OWSG MWD+IFR1+MS
16600.000	90.000	179.836	10827.000	49.683	0.000	57.803	-0.000	49.683	0.000	0.000	57.806	39.279	XOMR2_OWSG MWD+IFR1+MS
16700.000	90.000	179.836	10827.000	50.421	0.000	58.378	-0.000	50.421	0.000	0.000	58.381	39.318	XOMR2_OWSG MWD+IFR1+MS
16800.000	90.000	179.836	10827.000	51.159	0.000	58.957	-0.000	51.159	0.000	0.000	58.960	39.358	XOMR2_OWSG MWD+IFR1+MS
16900.000	90.000	179.836	10827.000	51.900	0.000	59.541	-0.000	51.900	0.000	0.000	59.544	39.399	XOMR2_OWSG MWD+IFR1+MS
17000.000	90.000	179.836	10827.000	52.641	0.000	60.129	-0.000	52.641	0.000	0.000	60.132	39.440	XOMR2_OWSG MWD+IFR1+MS
17100.000	90.000	179.836	10827.000	53.384	0.000	60.721	-0.000	53.384	0.000	0.000	60.724	39.481	XOMR2_OWSG MWD+IFR1+MS
17200.000	90.000	179.836	10827.000	54.127	0.000	61.316	-0.000	54.127	0.000	0.000	61.319	39.523	XOMR2_OWSG MWD+IFR1+MS
17300.000	90.000	179.836	10827.000	54.872	0.000	61.916	-0.000	54.872	0.000	0.000	61.918	39.566	XOMR2_OWSG MWD+IFR1+MS

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17400.000	90.000	179.836	10827.000	55.618	0.000	62.519	-0.000	55.618	0.000	0.000	62.521	39.610	XOMR2_OWSG MWD+IFR1+MS
17500.000	90.000	179.836	10827.000	56.366	0.000	63.125	-0.000	56.366	0.000	0.000	63.128	39.654	XOMR2_OWSG MWD+IFR1+MS
17600.000	90.000	179.836	10827.000	57.114	0.000	63.735	-0.000	57.114	0.000	0.000	63.737	39.698	XOMR2_OWSG MWD+IFR1+MS
17700.000	90.000	179.836	10827.000	57.863	0.000	64.348	-0.000	57.863	0.000	0.000	64.351	39.743	XOMR2_OWSG MWD+IFR1+MS
17800.000	90.000	179.836	10827.000	58.613	0.000	64.964	-0.000	58.613	0.000	0.000	64.967	39.789	XOMR2_OWSG MWD+IFR1+MS
17900.000	90.000	179.836	10827.000	59.364	0.000	65.584	-0.000	59.364	0.000	0.000	65.586	39.836	XOMR2_OWSG MWD+IFR1+MS
18000.000	90.000	179.836	10827.000	60.116	0.000	66.206	-0.000	60.116	0.000	0.000	66.209	39.882	XOMR2_OWSG MWD+IFR1+MS
18100.000	90.000	179.836	10827.000	60.868	0.000	66.832	-0.000	60.868	0.000	0.000	66.834	39.930	XOMR2_OWSG MWD+IFR1+MS
18200.000	90.000	179.836	10827.000	61.622	0.000	67.460	-0.000	61.622	0.000	0.000	67.463	39.978	XOMR2_OWSG MWD+IFR1+MS
18300.000	90.000	179.836	10827.000	62.376	0.000	68.091	-0.000	62.376	0.000	0.000	68.094	40.027	XOMR2_OWSG MWD+IFR1+MS
18400.000	90.000	179.836	10827.000	63.131	0.000	68.725	-0.000	63.131	0.000	0.000	68.727	40.076	XOMR2_OWSG MWD+IFR1+MS
18500.000	90.000	179.836	10827.000	63.887	0.000	69.361	-0.000	63.887	0.000	0.000	69.364	40.126	XOMR2_OWSG MWD+IFR1+MS
18600.000	90.000	179.836	10827.000	64.643	0.000	70.000	-0.000	64.643	0.000	0.000	70.003	40.176	XOMR2_OWSG MWD+IFR1+MS
18700.000	90.000	179.836	10827.000	65.400	0.000	70.642	-0.000	65.400	0.000	0.000	70.644	40.227	XOMR2_OWSG MWD+IFR1+MS
18800.000	90.000	179.836	10827.000	66.158	0.000	71.286	-0.000	66.158	0.000	0.000	71.288	40.279	XOMR2_OWSG MWD+IFR1+MS
18900.000	90.000	179.836	10827.000	66.916	0.000	71.932	-0.000	66.916	0.000	0.000	71.934	40.331	XOMR2_OWSG MWD+IFR1+MS
19000.000	90.000	179.836	10827.000	67.675	0.000	72.581	-0.000	67.675	0.000	0.000	72.583	40.384	XOMR2_OWSG MWD+IFR1+MS
19100.000	90.000	179.836	10827.000	68.434	0.000	73.232	-0.000	68.434	0.000	0.000	73.234	40.437	XOMR2_OWSG MWD+IFR1+MS
19200.000	90.000	179.836	10827.000	69.194	0.000	73.885	-0.000	69.194	0.000	0.000	73.887	40.491	XOMR2_OWSG MWD+IFR1+MS
19300.000	90.000	179.836	10827.000	69.955	0.000	74.540	-0.000	69.955	0.000	0.000	74.542	40.545	XOMR2_OWSG MWD+IFR1+MS

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Well Plan Report													
19400.000	90.000	179.836	10827.000	70.716	0.000	75.197	-0.000	70.716	0.000	0.000	75.199	40.600	XOMR2_OWSG MWD+IFR1+MS
19500.000	90.000	179.836	10827.000	71.478	0.000	75.856	-0.000	71.478	0.000	0.000	75.858	40.655	XOMR2_OWSG MWD+IFR1+MS
19600.000	90.000	179.836	10827.000	72.240	0.000	76.517	-0.000	72.240	0.000	0.000	76.520	40.711	XOMR2_OWSG MWD+IFR1+MS
19700.000	90.000	179.836	10827.000	73.003	0.000	77.181	-0.000	73.003	0.000	0.000	77.183	40.768	XOMR2_OWSG MWD+IFR1+MS
19800.000	90.000	179.836	10827.000	73.766	0.000	77.845	-0.000	73.766	0.000	0.000	77.848	40.825	XOMR2_OWSG MWD+IFR1+MS
19900.000	90.000	179.836	10827.000	74.529	0.000	78.512	-0.000	74.529	0.000	0.000	78.514	40.883	XOMR2_OWSG MWD+IFR1+MS
20000.000	90.000	179.836	10827.000	75.293	0.000	79.181	-0.000	75.293	0.000	0.000	79.183	40.941	XOMR2_OWSG MWD+IFR1+MS
20100.000	90.000	179.836	10827.000	76.058	0.000	79.851	-0.000	76.058	0.000	0.000	79.853	40.999	XOMR2_OWSG MWD+IFR1+MS
20200.000	90.000	179.836	10827.000	76.822	0.000	80.523	-0.000	76.822	0.000	0.000	80.525	41.059	XOMR2_OWSG MWD+IFR1+MS
20300.000	90.000	179.836	10827.000	77.588	0.000	81.197	-0.000	77.588	0.000	0.000	81.199	41.118	XOMR2_OWSG MWD+IFR1+MS
20400.000	90.000	179.836	10827.000	78.353	0.000	81.872	-0.000	78.353	0.000	0.000	81.874	41.179	XOMR2_OWSG MWD+IFR1+MS
20500.000	90.000	179.836	10827.000	79.119	0.000	82.549	-0.000	79.119	0.000	0.000	82.551	41.240	XOMR2_OWSG MWD+IFR1+MS
20600.000	90.000	179.836	10827.000	79.885	0.000	83.227	-0.000	79.885	0.000	0.000	83.229	41.301	XOMR2_OWSG MWD+IFR1+MS
20700.000	90.000	179.836	10827.000	80.652	0.000	83.907	-0.000	80.652	0.000	0.000	83.909	41.363	XOMR2_OWSG MWD+IFR1+MS
20800.000	90.000	179.836	10827.000	81.419	0.000	84.588	-0.000	81.419	0.000	0.000	84.590	41.425	XOMR2_OWSG MWD+IFR1+MS
20900.000	90.000	179.836	10827.000	82.187	0.000	85.271	-0.000	82.187	0.000	0.000	85.273	41.488	XOMR2_OWSG MWD+IFR1+MS
21000.000	90.000	179.836	10827.000	82.954	0.000	85.955	-0.000	82.954	0.000	0.000	85.956	41.552	XOMR2_OWSG MWD+IFR1+MS
21100.000	90.000	179.836	10827.000	83.722	0.000	86.640	-0.000	83.722	0.000	0.000	86.642	41.616	XOMR2_OWSG MWD+IFR1+MS
21200.000	90.000	179.836	10827.000	84.491	0.000	87.327	-0.000	84.491	0.000	0.000	87.329	41.680	XOMR2_OWSG MWD+IFR1+MS
21300.000	90.000	179.836	10827.000	85.259	0.000	88.015	-0.000	85.259	0.000	0.000	88.016	41.745	XOMR2_OWSG MWD+IFR1+MS

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Well Plan Report														
21400.000	90.000	179.836	10827.000	86.028	0.000	88.704	-0.000	86.028	0.000	0.000	88.706	41.811	-0.589	XOMR2_OWSG MWD+IFR1+MS
21500.000	90.000	179.836	10827.000	86.797	0.000	89.394	-0.000	86.797	0.000	0.000	89.396	41.877	-0.585	XOMR2_OWSG MWD+IFR1+MS
21600.000	90.000	179.836	10827.000	87.567	0.000	90.086	-0.000	87.567	0.000	0.000	90.088	41.943	-0.581	XOMR2_OWSG MWD+IFR1+MS
21700.000	90.000	179.836	10827.000	88.337	0.000	90.779	-0.000	88.337	0.000	0.000	90.781	42.010	-0.577	XOMR2_OWSG MWD+IFR1+MS
21800.000	90.000	179.836	10827.000	89.107	0.000	91.473	-0.000	89.107	0.000	0.000	91.474	42.078	-0.573	XOMR2_OWSG MWD+IFR1+MS
21900.000	90.000	179.836	10827.000	89.877	0.000	92.168	-0.000	89.877	0.000	0.000	92.170	42.146	-0.569	XOMR2_OWSG MWD+IFR1+MS
22000.000	90.000	179.836	10827.000	90.647	0.000	92.864	-0.000	90.647	0.000	0.000	92.866	42.214	-0.565	XOMR2_OWSG MWD+IFR1+MS
22100.000	90.000	179.836	10827.000	91.418	0.000	93.561	-0.000	91.418	0.000	0.000	93.563	42.283	-0.562	XOMR2_OWSG MWD+IFR1+MS
22200.000	90.000	179.836	10827.000	92.189	0.000	94.259	-0.000	92.189	0.000	0.000	94.261	42.353	-0.558	XOMR2_OWSG MWD+IFR1+MS
22300.000	90.000	179.836	10827.000	92.960	0.000	94.959	-0.000	92.960	0.000	0.000	94.960	42.423	-0.555	XOMR2_OWSG MWD+IFR1+MS
22400.000	90.000	179.836	10827.000	93.732	0.000	95.659	-0.000	93.732	0.000	0.000	95.661	42.493	-0.551	XOMR2_OWSG MWD+IFR1+MS
22500.000	90.000	179.836	10827.000	94.503	0.000	96.360	-0.000	94.503	0.000	0.000	96.362	42.564	-0.548	XOMR2_OWSG MWD+IFR1+MS
22600.000	90.000	179.836	10827.000	95.275	0.000	97.063	-0.000	95.275	0.000	0.000	97.064	42.635	-0.544	XOMR2_OWSG MWD+IFR1+MS
22700.000	90.000	179.836	10827.000	96.047	0.000	97.766	-0.000	96.047	0.000	0.000	97.767	42.707	-0.541	XOMR2_OWSG MWD+IFR1+MS
22800.000	90.000	179.836	10827.000	96.820	0.000	98.470	-0.000	96.820	0.000	0.000	98.472	42.780	-0.538	XOMR2_OWSG MWD+IFR1+MS
22900.000	90.000	179.836	10827.000	97.592	0.000	99.175	-0.000	97.592	0.000	0.000	99.177	42.852	-0.535	XOMR2_OWSG MWD+IFR1+MS
23000.000	90.000	179.836	10827.000	98.365	0.000	99.881	-0.000	98.365	0.000	0.000	99.882	42.926	-0.532	XOMR2_OWSG MWD+IFR1+MS
23100.000	90.000	179.836	10827.000	99.138	0.000	100.587	-0.000	99.138	0.000	0.000	100.589	43.000	-0.529	XOMR2_OWSG MWD+IFR1+MS
23200.000	90.000	179.836	10827.000	99.911	0.000	101.295	-0.000	99.911	0.000	0.000	101.297	43.074	-0.526	XOMR2_OWSG MWD+IFR1+MS
23300.000	90.000	179.836	10827.000	100.684	0.000	102.003	-0.000	100.684	0.000	0.000	102.005	43.148	-0.523	XOMR2_OWSG MWD+IFR1+MS

23400.000	90.000	179.836	10827.000	101.458	0.000	102.713	-0.000	101.458	0.000	0.000	102.714	43.224	-0.520	XOMR2_OWSG MWD+IFR1+MS
23500.000	90.000	179.836	10827.000	102.231	0.000	103.423	-0.000	102.231	0.000	0.000	103.424	43.299	-0.517	XOMR2_OWSG MWD+IFR1+MS
23600.000	90.000	179.836	10827.000	103.005	0.000	104.133	-0.000	103.005	0.000	0.000	104.135	43.375	-0.514	XOMR2_OWSG MWD+IFR1+MS
23700.000	90.000	179.836	10827.000	103.779	0.000	104.845	-0.000	103.779	0.000	0.000	104.846	43.452	-0.511	XOMR2_OWSG MWD+IFR1+MS
23800.000	90.000	179.836	10827.000	104.553	0.000	105.557	-0.000	104.553	0.000	0.000	105.559	43.529	-0.508	XOMR2_OWSG MWD+IFR1+MS
23900.000	90.000	179.836	10827.000	105.327	0.000	106.270	-0.000	105.327	0.000	0.000	106.272	43.606	-0.506	XOMR2_OWSG MWD+IFR1+MS
24000.000	90.000	179.836	10827.000	106.102	0.000	106.984	-0.000	106.102	0.000	0.000	106.985	43.684	-0.503	XOMR2_OWSG MWD+IFR1+MS
24100.000	90.000	179.836	10827.000	106.876	0.000	107.698	-0.000	106.876	0.000	0.000	107.700	43.762	-0.501	XOMR2_OWSG MWD+IFR1+MS
24200.000	90.000	179.836	10827.000	107.651	0.000	108.413	-0.000	107.651	0.000	0.000	108.415	43.841	-0.498	XOMR2_OWSG MWD+IFR1+MS
24300.000	90.000	179.836	10827.000	108.426	0.000	109.129	-0.000	108.426	0.000	0.000	109.131	43.920	-0.495	XOMR2_OWSG MWD+IFR1+MS
24328.702	90.000	179.836	10827.000	108.648	0.000	109.334	-0.000	108.648	0.000	0.000	109.336	43.943	-0.495	XOMR2_OWSG MWD+IFR1+MS
24378.702	90.000	179.836	10827.000	109.036	0.000	109.692	-0.000	109.036	0.000	0.000	109.694	43.983	-0.493	XOMR2_OWSG MWD+IFR1+MS

Plan Targets		Poker Lake Unit 28 BS 407H				Grid Northing		Grid Easting		TVD MSL Target Shape	
Target Name	Measured Depth	(ft)	(ft)			(ft)	(ft)	(ft)		(ft)	
FTP 15	11251.34		400866.30			672579.90		7458.00	CIRCLE		
LTP 15	24328.70		387789.00			672617.40		7458.00	CIRCLE		
BHL 9	24378.75		387739.00			672617.50		7458.00	CIRCLE		



HBE0000479

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

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

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

Background

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

Supporting Documentation

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



Figure 1: Winch System attached to BOP Stack

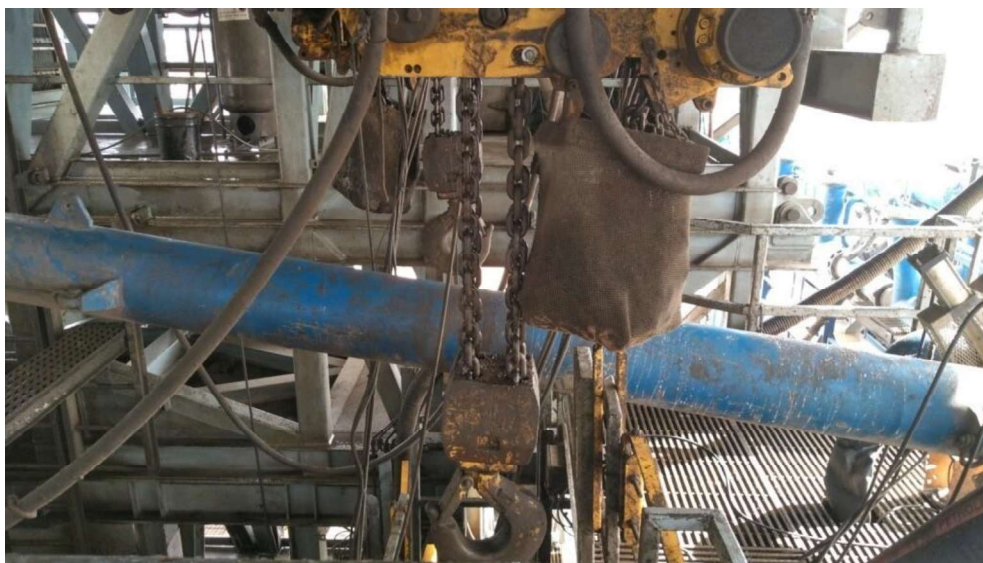


Figure 2: BOP Winch System

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

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API STANDARD 53

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

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

^a Pressure test evaluation periods shall be a minimum of five minutes.

No visible leaks.

The pressure shall remain stable during the evaluation period. The pressure shall not decrease below the intended test pressure.

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

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

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

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

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

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

XTO Energy feels break testing and our current procedures meet the intent of CFR Title 43 Part 317 0and often exceed it. There has been no evidence that break testing results in more components failing than seen on full BOP tests. XTO Energy's internal standards requires complete BOPE tests more often than that of CFR Title 43 Part 3170 (Every 21 days). In addition to function testing the annular, pipe rams and blind rams after

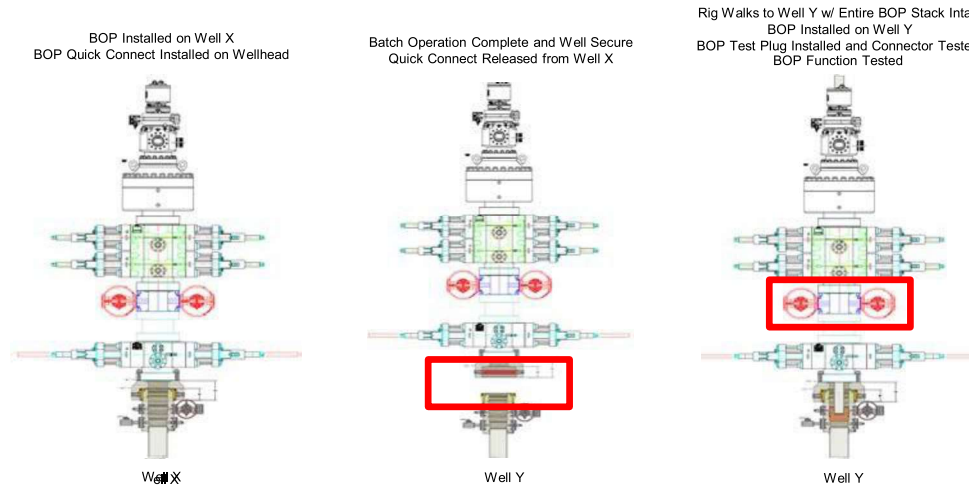
each BOP nipple up, XTO Energy performs a choke drill with the rig crew prior to drilling out every casing shoe. This is additional training for the rig crew that exceeds the requirements of the CFR Title 43 Part 3170.

Procedures

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

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

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



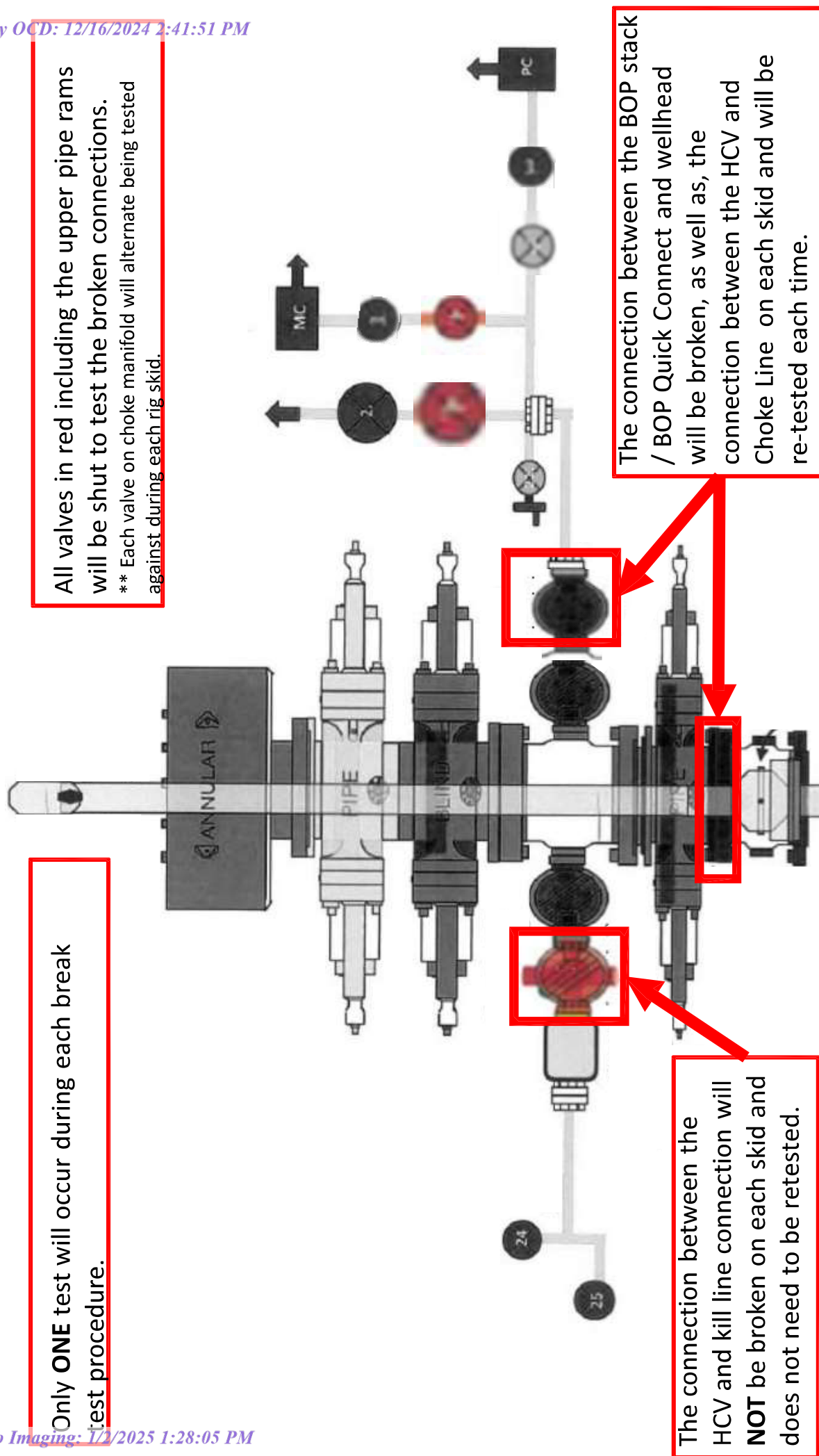
Summary

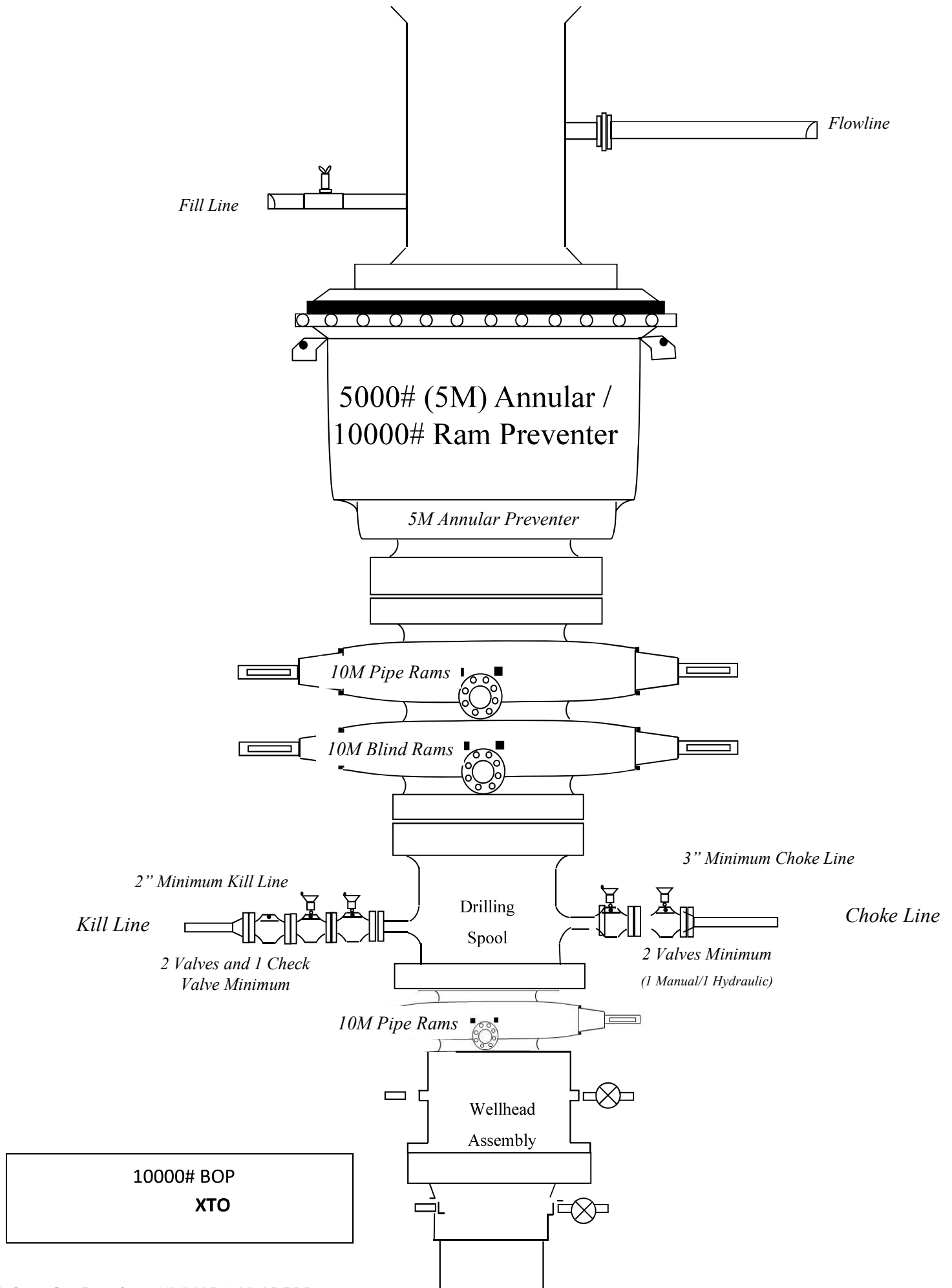
A variance is requested to **ONLY** test broken pressure seals on the BOP equipment when moving from wellhead to wellhead which is in compliance with API Standard 53. API Standard 53 states, that for pad drilling operation, moving from one wellhead to another within 21 days, pressure testing is required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

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

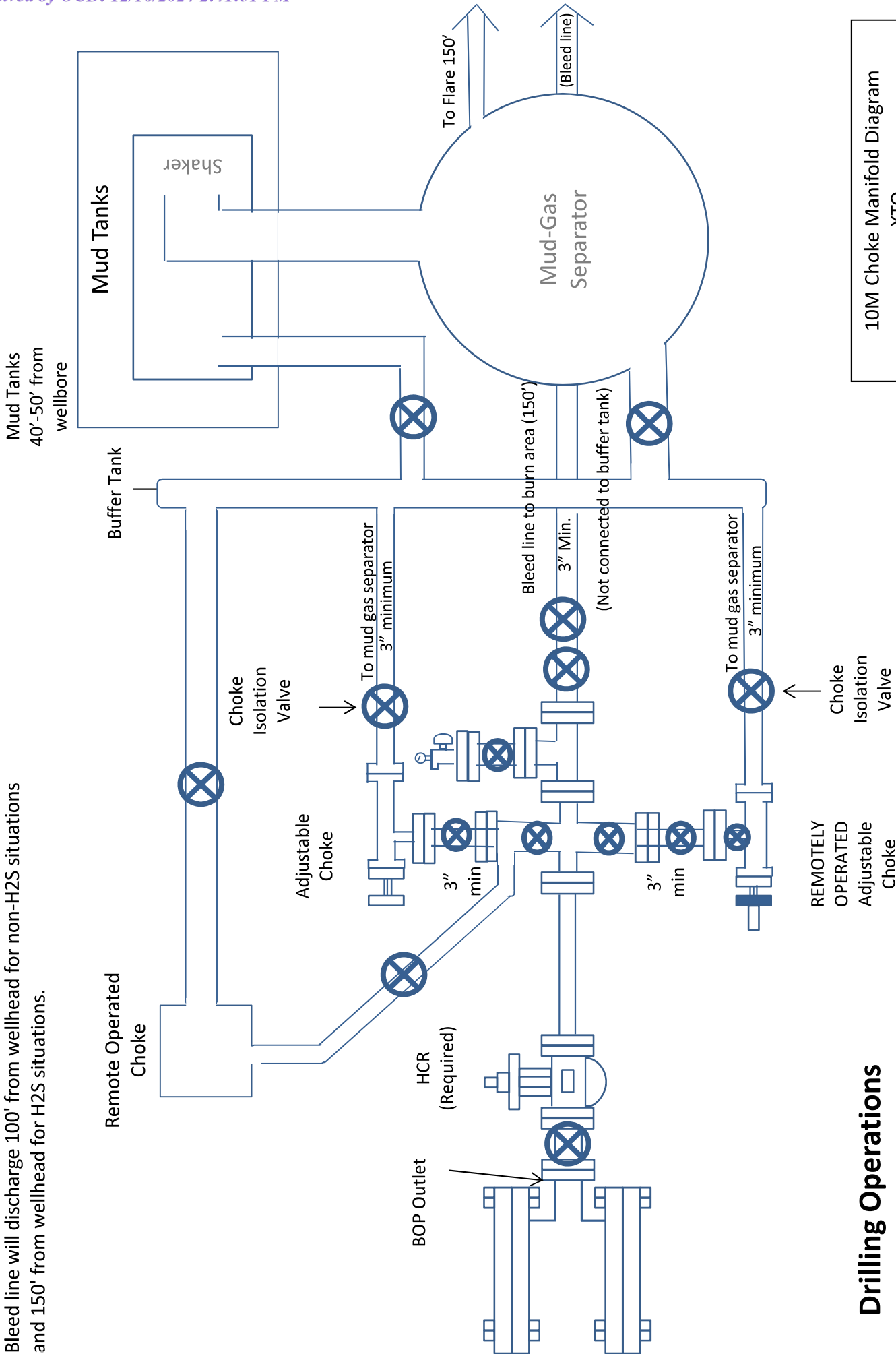
Based on discussions with the BLM on February 27th 2020 and the supporting documentation submitted to the BLM, we will request permission to **ONLY** retest broken pressure seals if the following conditions are met:

1. After a full BOP test is conducted on the first well on the pad.
2. The first intermediate hole section drilled on the pad will be the deepest. All of the remaining hole sections will be the same depth or shallower.
3. Full BOP test will be required if the intermediate hole section being drilled has a MASP over 5M.
4. Full BOP test will be required prior to drilling the production hole.





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



10M Choke Manifold Diagram
XTO

**Drilling Operations
Choke Manifold
10M Service**



U. S. Steel Tubular Products
5.500" 20.00lb/ft (0.361" Wall) P110 RY USS-FREEDOM HTQ®

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

UNCONTROLLED

Notes

- 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).
- Uniaxial bending rating shown is structural only, and equal to compression efficiency.
- Torques have been calculated assuming a thread compound friction factor of 1.0 and are recommended only. Field make-up torques may require adjustment based on actual field conditions (e.g. make-up speed, temperature, thread compound, etc.).
- Reference length is calculated by joint strength divided by plain end weight with 1.5 safety factor.

Legal Notice

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Spring, Texas 77380
1-877-893-9461
connections@uss.com
www.usstubular.com

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.

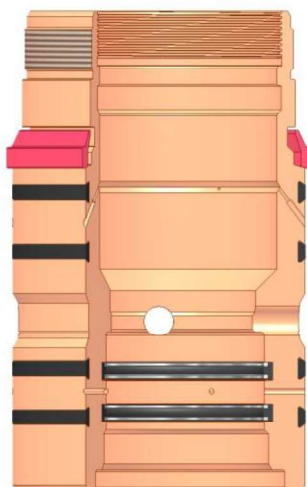
1. Cement Program

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

2. Offline Cementing Procedure

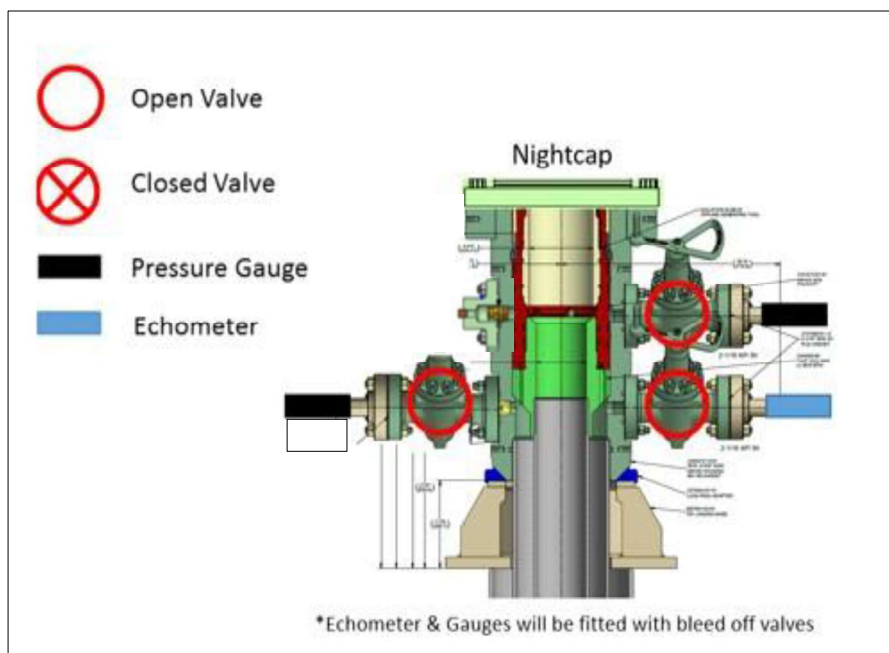
The operational sequence will be as follows. If a well control event occurs, the BLM will be contacted for approval prior to conducting offline cementing operations.

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 nippedled down until after the cement job is completed with cement 500ft above the highest formation capable of flow with kill weight mud above or after it has achieved 50-psi compressive strength if kill weight fluid cannot be verified.



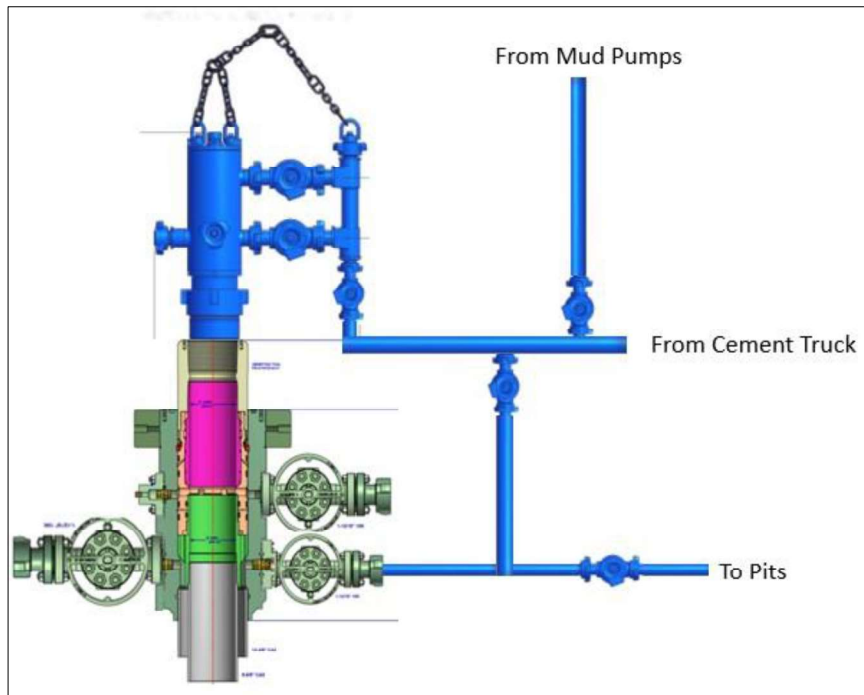
Annular packoff with both external and internal seals

XTO Permian Operating, LLC Offline Cementing Variance Request



Wellhead diagram during skidding operations

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

XTO Permian Operating, LLC Offline Cementing Variance Request

Wellhead diagram during offline cementing operations

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

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

Description of Operations:

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



U. S. Steel Tubular Products

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

11/29/2021 4:16:04 PM



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]

UNCONTROLLED

Notes

1.

Other than proprietary collapse and connection values, performance properties have been calculated using standard equations defined by API 5C3 and do not incorporate any additional design or safety factors. Calculations assume nominal pipe OD, nominal wall thickness, and Specified Minimum Yield Strength (SMYS).
2.

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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*NEW CHOKE HOSE
INSTALLED 02-10-2024*

CERTIFICATE OF CONFORMANCE

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

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

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

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

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

1/25/2024



H3-15/16

1/25/2024 11:48:06 AM

TEST REPORT

CUSTOMER

Company: Nabors Industries Inc.

Production description: 74621/66-1531

Sales order #: 529480

Customer reference: FG1213

TEST OBJECT

Serial number: H3-012524-1

Lot number:

Description: 74621/66-1531

Hose ID: 3" 16C CK

Part number:

TEST INFORMATION

Test procedure: GTS-04-053

Test pressure: 15000.00 psi

Test pressure hold: 3600.00 sec

Work pressure: 10000.00 psi

Work pressure hold: 900.00 sec

Length difference: 0.00 %

Length difference: 0.00 inch

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

Part number:

Description:

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

Part number:

Description:

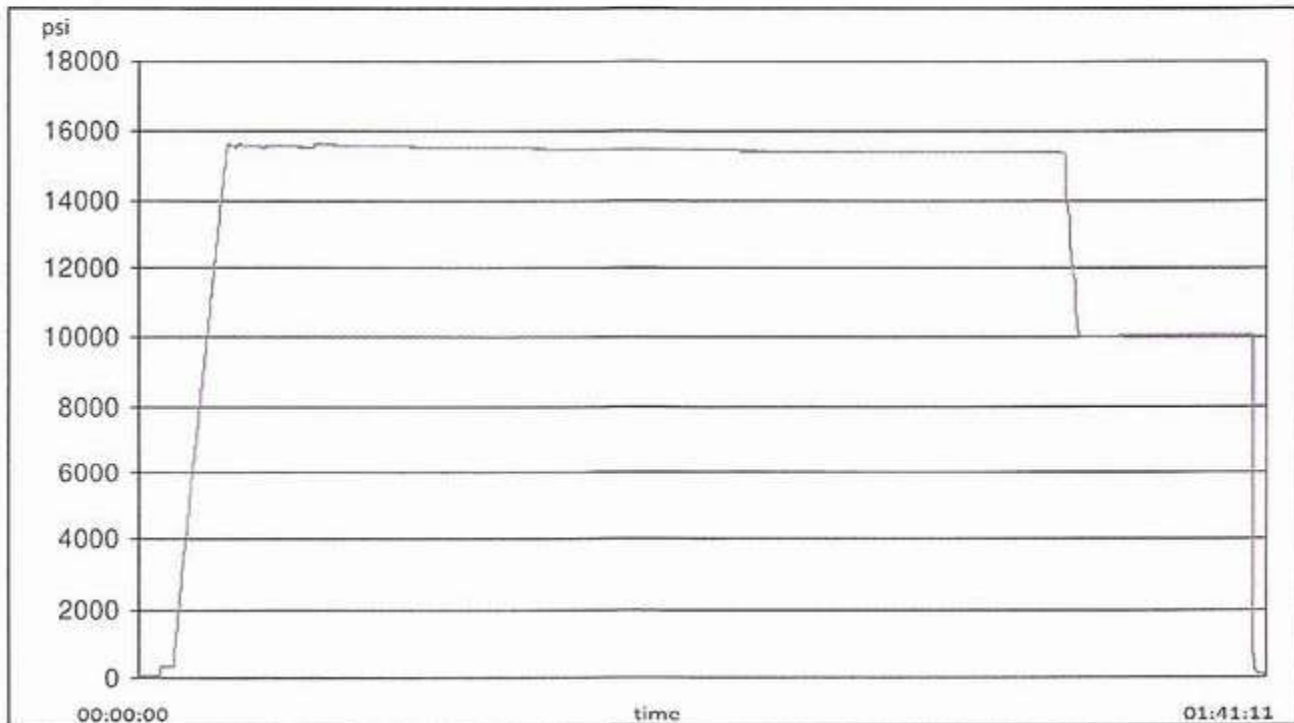
Visual check:

Pressure test result: PASS

Length measurement result:

Length: 45 feet

Test operator: Travis





H3-15/1b

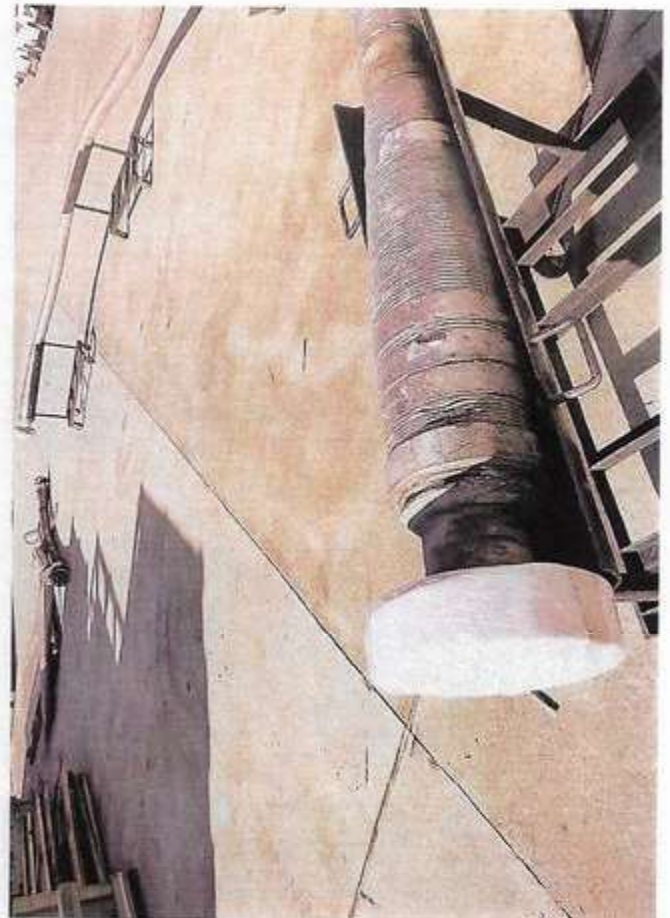
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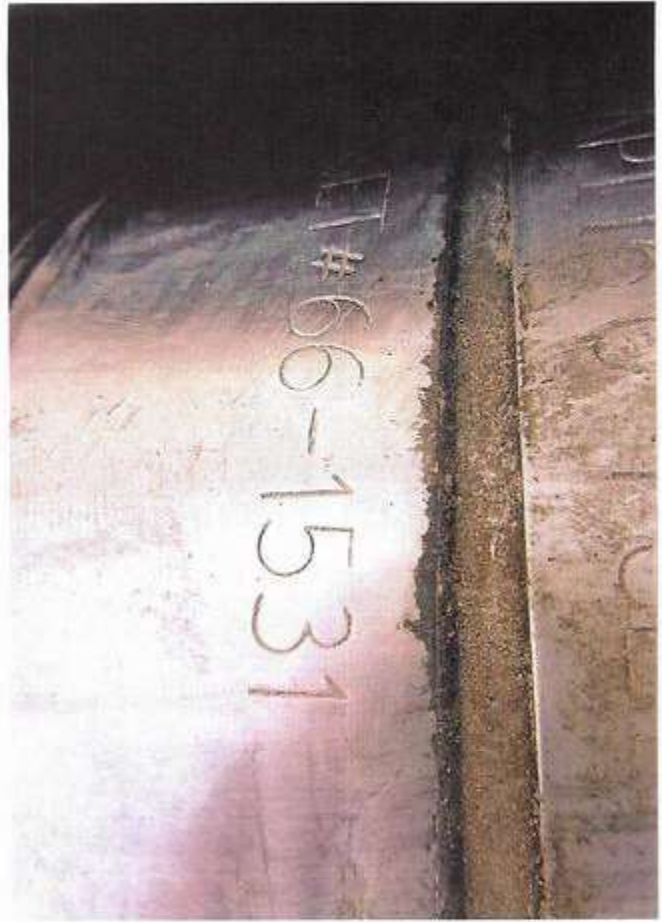
TEST REPORT

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





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Phone: (505) 476-3441

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Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/oed/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 412463

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 412463
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
dmcclure	If cement is not circulated to surface during cementing operations, a Cement Bond Log (CBL) is required.	1/2/2025