

Well Name: POKER LAKE UNIT 13-1 PC	Well Location: T24S / R29E / SEC 13 / SENE / 32.218561 / -103.932718	County or Parish/State: EDDY / NM
Well Number: 507H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM05912	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: 2855410

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 05/30/2025

Time Sundry Submitted: 11:39

Date proposed operation will begin: 06/13/2025

Procedure Description: Poker Lake Unit 13-1 PC 507H XTO Permian Operating, LLC. respectfully requests approval to make the following changes to the approved APD. Changes to include KOP, FTP, proposed total depth, and pool. FROM: TO: KOP: 2270' FNL & 995' FEL OF SECTION 13-T24S-R29E 1499' FNL & 833' FEL OF SECTION 13-T24S-R29E FTP: 2059' FNL & 839' FEL OF SECTION 13-T24S-R29E 1754' FNL & 808' FEL OF SECTION 13-T24S-R29E The proposed total depth is changing FROM 17289' MD; 8279' TVD TO 17101' MD; 8277' TVD. Pool code is changing FROM Pierce Crossing; Bone Spring, East (96473) TO Wildcat S243006B; LWR Bone Spring (97753) & Pierce Crossing; Bone Spring (96473). There is no new surface disturbance.

NOI Attachments

Procedure Description

POKER_LAKE_UNIT_13_1_PC_507H_Sundry_Docs_20250530113810.pdf

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PC

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County or Parish/State: EDDY / NM

Well Number: 507H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM05912

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_13_1_PC_507H_COA_20250605160411.pdf

Operator

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

Operator Electronic Signature: SAMANTHA WEIS

Signed on: MAY 30, 2025 11:39 AM

Name: XTO PERMIAN OPERATING LLC

Title: Permitting Advisor

Street Address: 22777 SPRINGWOODS VILLAGE PARKWAY

City: SPRING

State: TX

Phone: (832) 625-7361

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

Field

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Email address:

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752342234

BLM POC Email Address: cwalls@blm.gov

Disposition: Approved

Disposition Date: 06/18/2025

Signature: Chris Walls

Form 3160-5
(June 2019)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an
abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.

NMNM05912

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other2. Name of Operator
XTO PERMIAN OPERATING LLC

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

3b. Phone No. (include area code)
(432) 683-22777. If Unit of CA/Agreement, Name and/or No.
POKER LAKE UNIT/NMNM71016X

8. Well Name and No.

POKER LAKE UNIT 13-1 PC/507H

9. API Well No.

10. Field and Pool or Exploratory Area

PIERCE CROSSING/BONE SPRING, EAST

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SEC 13/T24S/R29E/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 performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

Poker Lake Unit 13-1 PC 507H

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

FROM: TO:

KOP: 2270 FNL & 995 FEL OF SECTION 13-T24S-R29E 1499 FNL & 833 FEL OF SECTION 13-T24S-R29E

FTP: 2059' FNL & 839' FEL OF SECTION 13-T24S-R29E 1754' FNL & 808' FEL OF SECTION 13-T24S-R29E

The proposed total depth is changing FROM 17289 MD; 8279 TVD TO 17101 MD; 8277 TVD.

Continued on page 3 additional information

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

SAMANTHA WEIS / Ph: (832) 625-7361

Permitting Advisor

Title

(Electronic Submission)
Signature

Date

05/30/2025

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

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

Petroleum Engineer
Title06/18/2025
Date

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

Office CARLSBAD

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

(Instructions on page 2)

GENERAL INSTRUCTIONS

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

SPECIFIC INSTRUCTIONS

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

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

NOTICES

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

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

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

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

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

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

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

Response to this request is mandatory.

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

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

Additional Information

Additional Remarks

Pool code is changing FROM Pierce Crossing; Bone Spring, East (96473) TO Wildcat S243006B; LWR Bone Spring (97753) & Pierce Crossing; Bone Spring (96473).

There is no new surface disturbance.

Location of Well

0. SHL: SENE / 2270 FNL / 995 FEL / TWSP: 24S / RANGE: 29E / SECTION: 13 / LAT: 32.218561 / LONG: -103.932718 (TVD: 0 feet, MD: 0 feet)

PPP: SENE / 2059 FNL / 839 FEL / TWSP: 24S / RANGE: 29E / SECTION: 13 / LAT: 32.219139 / LONG: -103.932212 (TVD: 8279 feet, MD: 8800 feet)

BHL: SESE / 50 FSL / 839 FEL / TWSP: 24S / RANGE: 29E / SECTION: 24 / LAT: 32.195775 / LONG: -103.932187 (TVD: 8279 feet, MD: 17289 feet)

CONFIDENTIAL

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: XTO
WELL NAME & NO.: Poker Lake Unit 13-1 PC 507H
LOCATION: 13-24S-29E-NMP
COUNTY: Eddy County, New Mexico

Changes approved through engineering via **Sundry 2855410** on 6/5/2025. Any previous COAs not addressed within the updated COAs still apply.

Create COAs

H₂S <div style="border: 1px solid black; padding: 2px; margin: 2px auto; width: 80%;">Not Reported</div>	Cave / Karst <div style="border: 1px solid black; padding: 2px; margin: 2px auto; width: 80%;">Low</div>	Waste Prevention Rule <div style="border: 1px solid black; padding: 2px; margin: 2px auto; width: 80%;">Waste Minimization Plan</div>
Potash <div style="border: 1px solid black; padding: 2px; margin: 2px auto; width: 80%;">None</div>	R-111-Q Design <div style="border: 1px solid black; height: 20px; margin: 2px auto; width: 100%;"></div>	
Wellhead <div style="border: 1px solid black; padding: 2px; margin: 2px auto; width: 80%;">Multibowl</div>	Casing <div style="border: 1px solid black; padding: 2px; margin: 2px auto; width: 80%;">3-String Well</div>	
<input checked="" type="checkbox"/> Flex Hose <input checked="" type="checkbox"/> Break Testing	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <input type="checkbox"/> Liner </div> <div style="text-align: center;"> <input type="checkbox"/> Fluid Filled </div> <div style="text-align: center;"> <input checked="" type="checkbox"/> Casing Clearance </div> </div>	
	Cementing	
	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <input type="checkbox"/> DV Tool <input checked="" type="checkbox"/> Offline Cement </div> <div style="text-align: center;"> <input checked="" type="checkbox"/> Bradenhead <input type="checkbox"/> Open Annulus </div> <div style="text-align: center;"> <input checked="" type="checkbox"/> Echometer <input type="checkbox"/> Pilot Hole </div> </div>	
Special Requirements		
<div style="display: flex; justify-content: space-between;"> <div style="text-align: center;"><input type="checkbox"/> Capitan Reef</div> <div style="text-align: center;"><input type="checkbox"/> Water Disposal</div> <div style="text-align: center;"><input type="checkbox"/> COM</div> <div style="text-align: center;"><input checked="" type="checkbox"/> Unit</div> </div>		

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 **400** 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 (including 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 1st intermediate casing is **cement to surface**. If cement does not circulate, see B.1.a, c-d above.

Bradenhead Squeeze: 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**.
- b. **Second stage:** Operator to squeeze and top-out. Cement to meet requirements listed for this casing string. If cement does not circulate see B.1.a, c-d above.

Operator has proposed to pump down **Surface X Intermediate 1** annulus. Submit results to the BLM. If cement does not tie-back into the previous casing shoe, a third stage remediation BH may be performed. The appropriate BLM office shall be notified. ***If cement does not reach surface, the next casing string must come to surface.***

- Operator shall run a CBL from TD of the **Surface** casing to tieback requirements listed above after the second stage BH to verify TOC.
- **Operator shall run Echo-meter to verify Cement Slurry/Fluid top in the annulus.** 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.
 - No displacement fluid/wash out shall be utilized at the top of the cement slurry during second stage bradenhead when running Echo-meter if cement is required to surface.
 - Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.

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

C. PRESSURE CONTROL

1. 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.
2. 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).
3. Break testing has been approved for this well ONLY on those 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.)** If in the event break testing is not utilized, then a full BOPE test would be conducted.
 - a. Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation. **BOPE Break Testing is NOT permitted to drilling the production hole section.**
 - b. While in transfer between wells, BOPE shall be secured by the hydraulic carrier or cradle.
 - c. 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).
 - d. As a minimum, a full BOPE test shall be performed at 21-day intervals.
 - e. In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per **43 CFR 3172**. 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.

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)**

Offline Cementing

Offline cementing has been approved for **all hole sections, excluding production**. Contact the BLM prior to the commencement of any offline cementing procedure.

Casing Clearance

String does not meet 0.422" clearance requirement per 43 CFR 3172. Cement tieback requirement increased 100' for Production casing tieback. Operator may contact approving engineer to discuss changing casing set depth or grade to meet clearance requirement.

GENERAL REQUIREMENTS

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

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

Contact Eddy County Petroleum Engineering Inspection Staff:

Email or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220;
[BLM NM CFO DrillingNotifications@BLM.GOV](mailto:BLM_NM_CFO_DrillingNotifications@BLM.GOV); (575) 361-2822

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - i. Notify the BLM when moving in and removing the Spudder Rig.
 - ii. Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - iii. BOP/BOPE test to be conducted per **43 CFR 3172** as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
3. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or

- if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
 3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
 8. Whenever a casing string is cemented in the R-111-Q potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR 3172**.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible

- hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - ii. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - iii. Manufacturer representative shall install the test plug for the initial BOP test.
 - iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
 - v. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - i. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - ii. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
 - iii. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve

open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

- iv. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- v. The results of the test shall be reported to the appropriate BLM office.
- vi. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- vii. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- viii. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR 3172**.

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

Approved by Zota Stevens on 6/5/2025
575-234-5998 / zstevens@blm.gov

C-102 Submit electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONVERSION DIVISION	Revised July, 09 2024
		<input type="checkbox"/> Initial Submittal
		<input checked="" type="checkbox"/> Amended Report
		<input type="checkbox"/> As Drilled

WELL LOCATION INFORMATION

API Number 30-015-	Pool Code 97753	Pool Name WILDCAT S243006B; LWR BONE SPRING
Property Code	Property Name POKER LAKE UNIT 13-1 PC	Well Number 507H
OGRID No. 373075	Operator Name XTO PERMIAN OPERATING, LLC.	Ground Level Elevation 3,114'
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 Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
H	13	24S	29E		2,270 FNL	995 FEL	32.218561	-103.932718	EDDY

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
P	24	24S	29E		50 FSL	839 FEL	32.195775	-103.932187	EDDY

Dedicated Acres 80.00	Infill or Defining Well INFILL	Defining Well API	Overlapping Spacing Unit (Y/N) Y	Consolidation Code U
Order Numbers.			Well Setbacks are under Common Ownership: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
H	13	24S	29E		1,499 FNL	833 FEL	32.220679	-103.932191	EDDY

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
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Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
P	24	24S	29E		100 FSL	839 FEL	32.195912	-103.932187	EDDY

Unitized Area or Area of Interest NMNM105422429	Spacing Unit Type: <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical	Ground Elevation 3,114'
---	---	-----------------------------------

OPERATOR CERTIFICATIONS

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is vertical or directional well, 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 at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or a voluntary pooling agreement or a compulsory pooling order of heretofore entered by the division.

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Samantha Weis 5/27/2025
Signature Date

Samantha Weis

Printed Name

samantha.r.bartnik@exxonmobil.com

Email Address

SURVEYOR CERTIFICATIONS

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief



Signature and Seal of Professional Surveyor



MARK DILLON HARP 23786
Certificate Number

5/23/2025
Date of Survey

KT

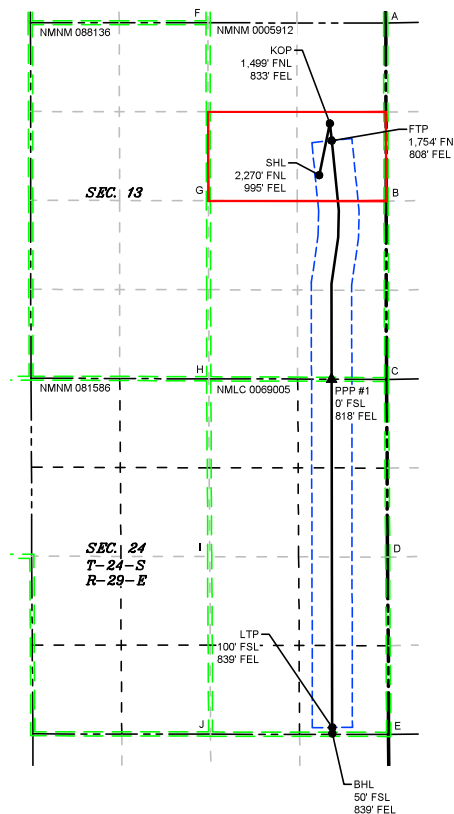
618,013003,04-19

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LEGEND

- SECTION LINE
- TOWNSHIP LINE
- DEDICATED ACREAGE
- 330' BUFFER
- MINERAL LEASE
- WELL BORE
- PPP
- WELL

WELL COORDINATE TABLE								
WELL	NAD 83 NME X	NAD 83 NME Y	NAD 83 LAT	NAD 83 LON	NAD 27 NME X	NAD 27 NME Y	NAD 27 LAT	NAD 27 LON
SHL	665,228.4	443,477.3	32.218561	-103.932718	624,044.9	443,418.0	32.218437	-103.932229
KOP	665,388.4	444,248.3	32.220679	-103.932191	624,204.9	444,188.9	32.220554	-103.931702
FTP	665,414.8	443,992.6	32.219975	-103.932109	624,231.3	443,933.2	32.219851	-103.931620
LTP	665,423.3	435,238.8	32.195912	-103.932187	624,239.5	435,179.6	32.195788	-103.931700
BHL	665,423.6	435,188.8	32.195775	-103.932187	624,239.8	435,129.6	32.195661	-103.931699
PPP #1	665,412.8	440,432.8	32.210190	-103.932159	624,229.2	440,373.5	32.210066	-103.931670

CORNER COORDINATE TABLE				
CORNER	NAD 83 NME X	NAD 83 NME Y	NAD 27 NME X	NAD 27 NME Y
A	666,218.3	445,746.5	625,034.9	445,687.1
B	666,224.6	443,088.1	625,041.0	443,028.8
C	666,230.7	440,429.8	625,047.1	440,370.5
D	666,247.3	437,782.5	625,063.6	437,723.3
E	666,262.9	435,137.6	625,079.1	435,078.4
F	663,570.2	445,748.2	622,386.8	445,688.8
G	663,576.0	443,093.9	622,392.5	443,034.6
H	663,581.8	440,439.6	622,398.2	440,380.3
I	663,595.7	437,788.4	622,412.0	437,729.1
J	663,609.5	435,141.5	622,425.8	435,082.3

C-102 Submit electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONVERSION DIVISION		Revised July, 09 2024	
	Submittal Type:	<input type="checkbox"/> Initial Submittal		
		<input checked="" type="checkbox"/> Amended Report		
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API Number 30-015-	Pool Code 96473	Pool Name PIERCE CROSSING; BONE SPRING	
Property Code	Property Name POKER LAKE UNIT 13-1 PC		Well Number 507H
OGRID No. 373075	Operator Name XTO PERMIAN OPERATING, LLC.		Ground Level Elevation 3,114'
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	

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Samantha Weis 5/27/2025
Signature Date

Samantha Weis

Printed Name

samantha.r.bartnik@exxonmobil.com

Email Address

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Signature and Seal of Professional Surveyor



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Certificate Number

5/23/2025
Date of Survey

KT

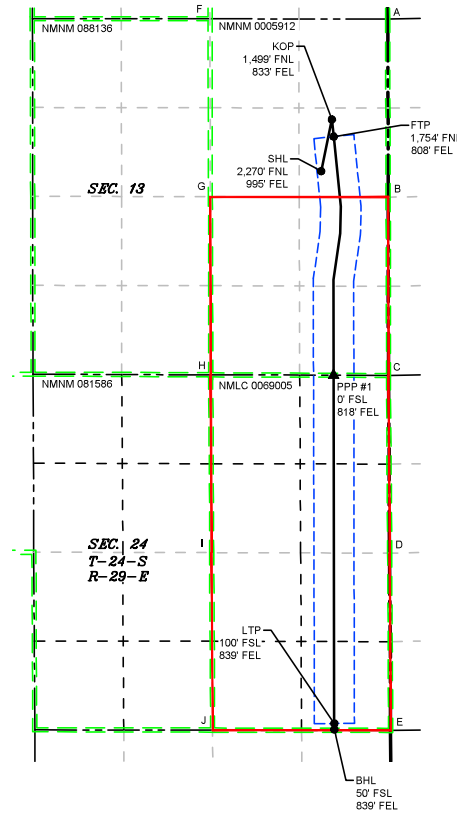
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LEGEND

	SECTION LINE		330' BUFFER		PPP
	TOWNSHIP LINE		MINERAL LEASE		WELL
	DEDICATED ACREAGE		WELL BORE		

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I	663,595.7	437,788.4	622,412.0	437,729.1
J	663,609.5	435,141.5	622,425.8	435,082.3

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

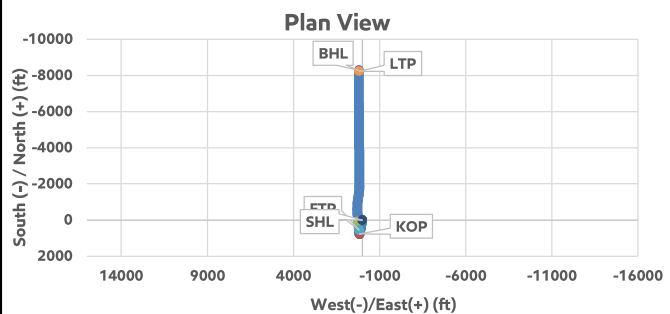
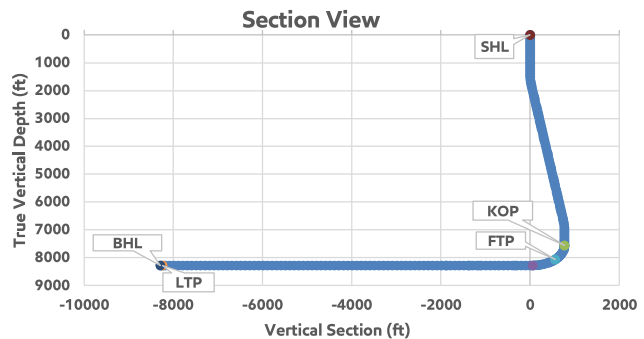
ExxonMobil
Poker Lake Unit 13-1 PC 507H
Projected TD: 17101' MD / 8277' TVD
SHL: 2270' FNL & 995' FEL , Section 13, T24S, R29E
BHL: 50' FSL & 839' FEL , Section 24, T24S, R29E
Eddy County, NM

1. Geologic Name of Surface Formation

A. Quaternary

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

Formation	Well Depth	Water/Oil/Gas
Salado	749'	Water
Base of Salt	3156'	Water
Delaware	3359'	Water
Cherry Canyon	4255'	Water/Oil/Gas
Brushy Canyon	5803'	Water/Oil/Gas
Bone Spring Lm.	7109'	Water/Oil/Gas
Avalon Shale	7241'	Water/Oil/Gas
Avalon Lower	7787'	Water/Oil/Gas
1st Bone Spring Lime	7949'	Water/Oil/Gas
1st Bone Spring Sand	8099'	Water/Oil/Gas
2nd Bone Spring Lime	8420'	Water/Oil/Gas
2nd Bone Spring Sand		
3rd Bone Spring Lime		
3rd Bone Spring Upper Shale		
3rd Bone Spring Upper Shale Base		
3rd Bone Spring Lower Shale		
rd Bone Spring Lower Shale Marke		
3rd Bone Spring Sand		
Warwink		
Red Hills		
Wolfcamp A		
Wolfcamp B		
Wolfcamp C		
Wolfcamp D		
Landing	8277'	Water/Oil/Gas



	Inclination (°)	Azimuth (°)	True Vertical Depth (ft)	Y Offset (ft)	X Offset (ft)
SHL	0	0	0	0	0
KOP	0	0	7561	771	160
LP	90	174	8277	59	235
FTP	45	174	8067	562	182
LTP	90	180	8277	-8238	195
BHL	90	180	8277	-8288	195

Section 2 Summary:

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

No other formations are expected to give up oil, gas or fresh water in measurable quantities. Surface fresh water sands will be protected by setting 9-5/8" inch casing at 724' and circulating cement back to surface.

3. Primary Casing Design**Primary Design:**

Hole Size (in.)	MD	Casing TVD	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25"	0' – 724'	724'	9-5/8"	40	J55	BTC	New	17.78	16.39	5.66
8.75"	0' – 4000'	3974'	7-5/8"	29.7	P110-ICY	Tenaris Wedge 511	New	6.00	8.55	3.76
8.75"	4000' – 7468'	7411'	7-5/8"	29.7	L80-IC	Tenaris Wedge 511	New	3.53	7.99	2.75
6.75"	0' – 7368'	7311'	5-1/2"	20	P110-CY	TPN	New	1.18	3.51	2.69
6.75"	7368' – 17101'	8277'	5-1/2"	20	P110-ICY	Tenaris Wedge 441	New	1.18	3.43	2.91

Section 3 Summary:

XTO will keep casing fluid filled to meet BLM's collapse requirement.
The planned kick off point is located at: 7618' MD / 7561' TVD.

Wellhead:

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

Wellhead will be installed by manufacturer's representatives.

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

4. Cement Program

Primary Cementing								
Hole Section	Slurry Type	No. Sacks	Density (ppg)	Yield (ft ³ /sack)	TOC (ft)	Casing Setting Depth (MD)	Excess (%)	Slurry Description
Surface 1	Lead	126	12.4	2.11	0	724	100%	Surface 1 Class C Lead Cement
Surface 1	Tail	141	14.8	1.33	424	724	100%	Surface 1 Class C Tail Cement
Intermediate 1	Lead							
Intermediate 1	Tail	156	14.8	1.45	5803	7,468	35%	Intermediate 1 Class C Tail Cement
Production 1	Lead							
Production 1	Tail	706	13.2	1.44	6968	17,101	25%	Production 1 Class C Tail Cement
Remedial Cementing								
Casing	Slurry Type	No. Sacks	Density (ppg)	Yield (ft ³ /sack)	Cemented Interval	Excess (%)	Slurry Description	
Intermediate 1	Bradenhead Squeeze	543	14.8	1.45	0 - 5803'	35%	Intermediate Class C Bradenhead Squeeze Cement	

Section 4 Summary:

*Bradenhead Squeeze 2nd Stage Offline

5. Pressure Control Equipment**Section 5 Summary:**

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

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

Requested Variances**4A) Offline Cementing Variance**

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

5A) Break Test Variance

A break testing variance is requested to ONLY test broken pressure seals on the BOP equipment when moving from wellhead to wellhead for the intermediate hole sections which is in compliance with API Standard 53. The maximum anticipated surface pressure is less than 4800psi and the deepest intermediate casing point does not penetrate the Wolfcamp Formation.

5B) Flex Hose Variance

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

5C) 10M Annular Variance

XOM requests a variance to use a 5000 psi annular BOP with a 10,000 psi BOP stack. The component and compatibility tables attached along with the general well control plans demonstrate how the 5000 psi annular BOP will be protected from pressures that exceed its rated working pressure (RWP). The pressure at which the control of the wellbore is transferred from the annular preventer to another available preventer will not exceed 3500 psi (70% of the RWP of the 5000 psi annular BOP).

8A) Open Hole Logging Variance

Open hole logging will not be done on this well.

10A) Spudder Rig Variance

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

10B) Batch Drilling Variance

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

6. Proposed Mud Circulation System

INTERVAL	Hole Size	Mud Type	MW	Viscosity	Fluid Loss	Comments
			(ppg)	(sec/qt)	(cc)	
0' – 724'	12.25"	FW/Native	8.3 - 8.7	35-40	NC	Fresh Water or Native Water
724' – 7468'	8.75"	BDE/OBM or FW/Brine	9.5 - 10	30-32	NC	Fluid type will be based upon on well conditions. A fully saturated system will be used across the salt interval.
7468' – 17101'	6.75"	OBM	9 - 9.5	50-60	NC - 20	OBM or Cut Brine depending on Well Conditions

Section 6 Summary:

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

Pump viscous sweeps as needed for hole cleaning. Pump speed will be recorded on a daily drilling report after mudding up. An EDR (Electronic Drilling Recorder) will be used to detect changes in loss or gain of mud volume. A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system.

7. Auxiliary Well Control and Monitoring Equipment**Section 7 Summary:**

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

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

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

8. Logging, Coring and Testing Program**Section 8 Summary:**

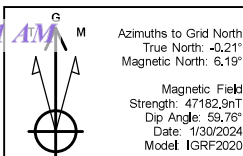
Open hole logging will not be done on this well.

9. Abnormal Pressures and Temperatures / Potential Hazards**Section 9 Summary:**

The estimated bottom hole temperature of 149F to 169F. No H2S is expected but monitors will be in place to detect any H2S occurrences. Should these circumstances be encountered the operator and drilling contractor are prepared to take all necessary steps to ensure safety of all personnel and environment. Lost circulation is possible throughout the well.

10. Anticipated Starting Date and Duration of Operations**Section 10 Summary:**

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

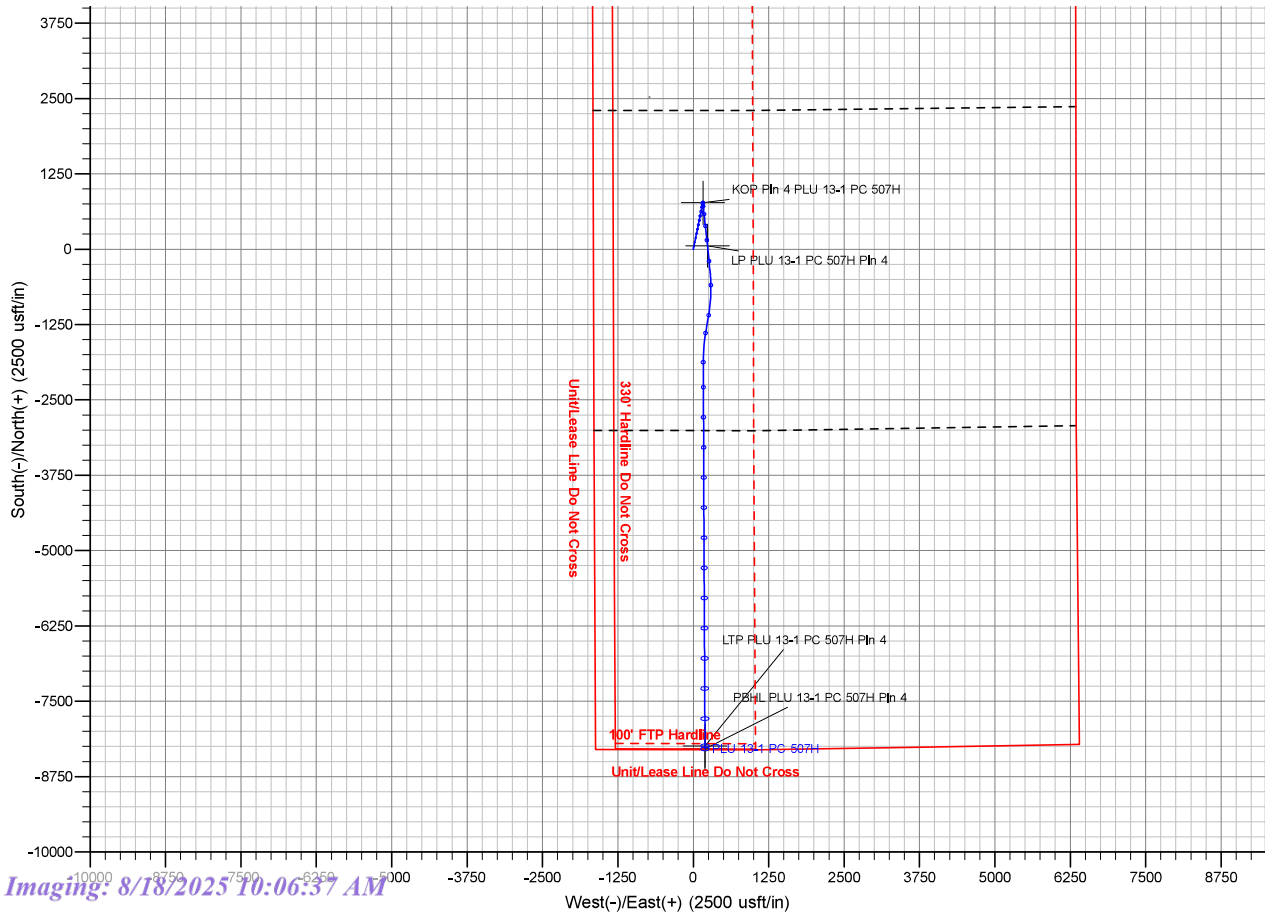
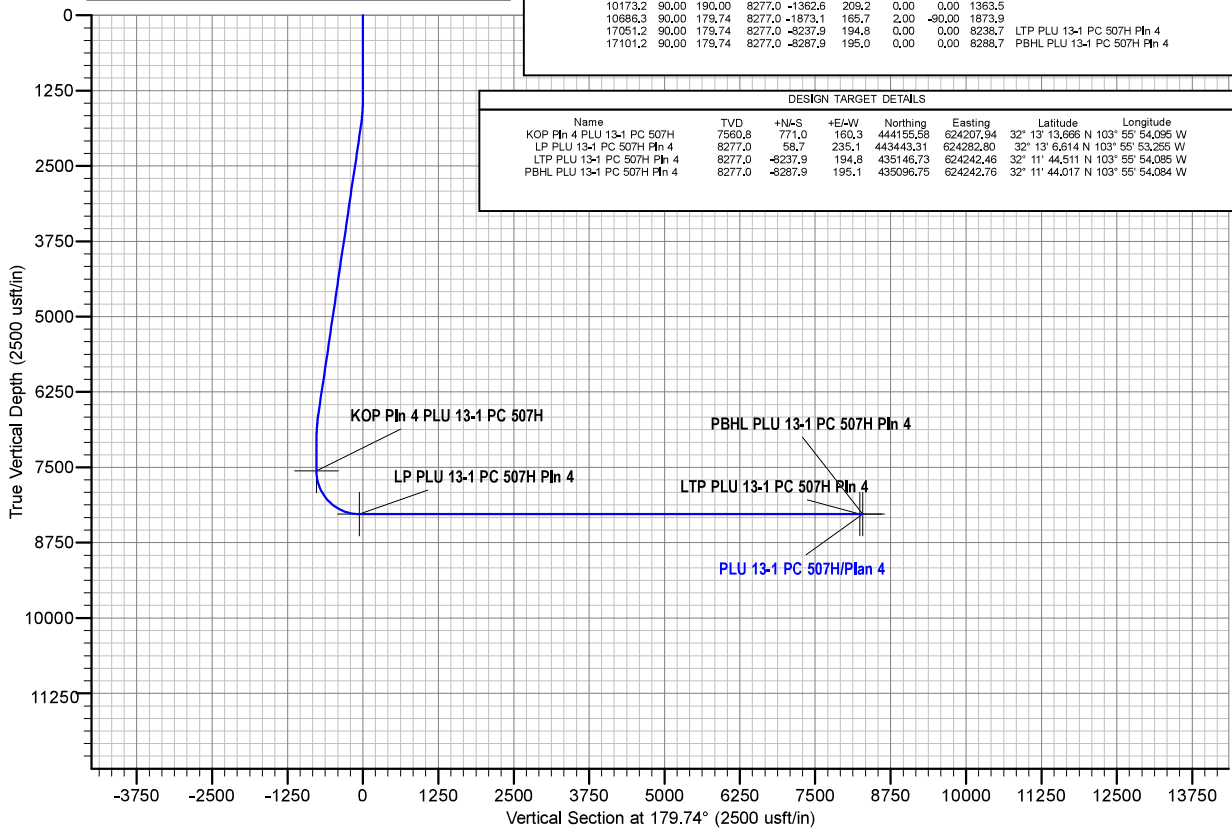


WELL DETAILS: PLU 13-1 PC 507H				
Ground Elevation: 3112.0				
RKB Elevation: 3112+30 @ 3142.0usft				
Rig Name:				
Northing	Easting	Latitude	Longitude	
443384.63	624047.66	32° 13' 6.042 N	103° 55' 55.995 W	

Project: Eddy County, NM (NAD 27 NME) PLU 13-1-24 PC
Site: PLU 13-1-24 PC Pad C - Project for Ayush
Well: PLU 13-1 PC 507H
Wellbore: OH
Design: Plan 4

SECTION DETAILS										
MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	Vsect	Target	
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	0.0	
1400.0	0.00	0.00	1400.0	0.0	0.0	0.00	0.00	0.0	0.0	
1828.9	8.58	11.74	1827.3	31.4	6.5	2.00	11.74	-31.3		
6678.6	8.58	11.74	6622.7	739.6	153.8	0.00	0.00	-738.9		
7107.4	0.00	0.00	7050.0	771.0	160.3	2.00	180.00	-770.2		
7618.2	0.00	0.00	7560.8	771.0	160.3	0.00	0.00	-770.2	KOP Pln 4 PLU 13-1 PC 507H	
8743.2	90.00	174.00	8277.0	58.7	235.1	8.00	174.00	-57.6		
9143.2	90.00	174.00	8277.0	-339.1	277.0	0.00	0.00	340.4		
9943.2	90.00	190.00	8277.0	-1136.1	249.1	2.00	90.00	1137.2		
10173.2	90.00	190.00	8277.0	-1362.6	209.2	0.00	0.00	1363.5		
10866.3	90.00	179.74	8277.0	+1873.1	165.7	2.00	-90.00	1873.9		
17051.2	90.00	179.74	8277.0	-8237.9	194.8	0.00	0.00	8238.7	LTP PLU 13-1 PC 507H Pln 4	
17101.2	90.00	179.74	8277.0	-8287.9	195.0	0.00	0.00	8288.7	PBHL PLU 13-1 PC 507H Pln 4	

DESIGN TARGET DETAILS							
Name	TVD	+N-S	+E-W	Northing	Easting	Latitude	Longitude
KOP Pln 4 PLU 13-1 PC 507H	7560.8	771.0	160.3	444155.58	624207.94	32° 13' 13.066 N	103° 55' 54.095 W
LP PLU 13-1 PC 507H Pln 4	8277.0	58.7	235.1	443443.31	624262.80	32° 13' 6.514 N	103° 55' 53.255 W
LTP PLU 13-1 PC 507H Pln 4	8277.0	-8237.9	194.8	435146.73	624242.46	32° 11' 44.511 N	103° 55' 54.085 W
PBHL PLU 13-1 PC 507H Pln 4	8277.0	-8287.9	195.1	435096.75	624242.76	32° 11' 44.017 N	103° 55' 54.084 W



COMPANY ROC

FIELD *HP 532/547/549/552 - Eddy County, NM (NAD 27 NME)

SITE PLU 13-1-24 PC Pad C - Project for Ayush

WELL PLU 13-1 PC 507H

WELLPATH OH

DESIGN Plan 4

DEPTHUN1 (ft)

WELL INFO

MAP DATUM NAD 1927 (NADCON CONUS)

MAP SYSTEM US State Plane 1927 (Exact solution)

MAP ZONE New Mexico East 3001

WELL LAT 32.21835

WELL LON -103.932

WELL EW I 624047.7

WELL NS N 443384.6

CONVERGE 0.21

MAGMOD IGRF2020

DECLINATI 6.4

NORTH RE Grid

GROUND E 3112

KB ELEV N 3142

VS AZI 179.74

SURVEY TYPE INFORMATION

H 0.00 - 17101.02 PLAN 4 : XOM_R2OWSG MWD+IFR1+MS

SURVEY LIST

Measured MD	Inclination INC	Azimuth AZI	Course CL	Ler TVD	True SSTVD	Vertic NS	SubSea EW	TV X	Local N/-S Easting	Local E/-W Northing
0	0	0	0	0	0	3142	0	0	624047.7	443384.6
100	0	0	0	100	100	3042	0	0	624047.7	443384.6
200	0	0	0	100	200	2942	0	0	624047.7	443384.6
300	0	0	0	100	300	2842	0	0	624047.7	443384.6
400	0	0	0	100	400	2742	0	0	624047.7	443384.6
500	0	0	0	100	500	2642	0	0	624047.7	443384.6
600	0	0	0	100	600	2542	0	0	624047.7	443384.6
700	0	0	0	100	700	2442	0	0	624047.7	443384.6
800	0	0	0	100	800	2342	0	0	624047.7	443384.6
900	0	0	0	100	900	2242	0	0	624047.7	443384.6
1000	0	0	0	100	1000	2142	0	0	624047.7	443384.6
1100	0	0	0	100	1100	2042	0	0	624047.7	443384.6
1200	0	0	0	100	1200	1942	0	0	624047.7	443384.6
1300	0	0	0	100	1300	1842	0	0	624047.7	443384.6
1400	0	0	0	100	1400	1742	0	0	624047.7	443384.6
1500	2	11.744	100	1499.98	1642.02	1.709	0.355	624048	443386.3	
1600	4	11.744	100	1599.838	1542.162	6.832	1.42	624049.1	443391.5	

1700	6	11.744	100	1699.452	1442.548	15.365	3.194	624050.9	443400
1800	8	11.744	100	1798.702	1343.298	27.296	5.675	624053.3	443411.9
1828.894	8.578	11.744	28.894	1827.293	1314.707	31.375	6.523	624054.2	443416
1900	8.578	11.744	71.106	1897.604	1244.396	41.758	8.682	624056.3	443426.4
2000	8.578	11.744	100	1996.486	1145.514	56.361	11.717	624059.4	443441
2100	8.578	11.744	100	2095.367	1046.633	70.964	14.753	624062.4	443455.6
2200	8.578	11.744	100	2194.248	947.752	85.568	17.789	624065.4	443470.2
2300	8.578	11.744	100	2293.13	848.87	100.171	20.825	624068.5	443484.8
2400	8.578	11.744	100	2392.011	749.989	114.774	23.861	624071.5	443499.4
2500	8.578	11.744	100	2490.893	651.107	129.377	26.897	624074.6	443514
2600	8.578	11.744	100	2589.774	552.226	143.98	29.933	624077.6	443528.6
2700	8.578	11.744	100	2688.655	453.345	158.583	32.969	624080.6	443543.2
2800	8.578	11.744	100	2787.537	354.463	173.186	36.005	624083.7	443557.8
2900	8.578	11.744	100	2886.418	255.582	187.789	39.041	624086.7	443572.4
3000	8.578	11.744	100	2985.3	156.7	202.392	42.077	624089.7	443587
3100	8.578	11.744	100	3084.181	57.819	216.995	45.113	624092.8	443601.6
3200	8.578	11.744	100	3183.062	-41.062	231.599	48.149	624095.8	443616.2
3300	8.578	11.744	100	3281.944	-139.944	246.202	51.185	624098.8	443630.8
3400	8.578	11.744	100	3380.825	-238.825	260.805	54.221	624101.9	443645.4
3500	8.578	11.744	100	3479.707	-337.707	275.408	57.257	624104.9	443660
3600	8.578	11.744	100	3578.588	-436.588	290.011	60.293	624108	443674.6
3700	8.578	11.744	100	3677.47	-535.47	304.614	63.329	624111	443689.2
3800	8.578	11.744	100	3776.351	-634.351	319.217	66.365	624114	443703.8
3900	8.578	11.744	100	3875.232	-733.232	333.82	69.401	624117.1	443718.5
4000	8.578	11.744	100	3974.114	-832.114	348.423	72.437	624120.1	443733.1
4100	8.578	11.744	100	4072.995	-930.995	363.026	75.473	624123.1	443747.7
4200	8.578	11.744	100	4171.877	-1029.88	377.63	78.509	624126.2	443762.3
4300	8.578	11.744	100	4270.758	-1128.76	392.233	81.545	624129.2	443776.9
4400	8.578	11.744	100	4369.639	-1227.64	406.836	84.581	624132.2	443791.5
4500	8.578	11.744	100	4468.521	-1326.52	421.439	87.617	624135.3	443806.1
4600	8.578	11.744	100	4567.402	-1425.4	436.042	90.653	624138.3	443820.7
4700	8.578	11.744	100	4666.284	-1524.28	450.645	93.689	624141.3	443835.3
4800	8.578	11.744	100	4765.165	-1623.17	465.248	96.725	624144.4	443849.9
4900	8.578	11.744	100	4864.046	-1722.05	479.851	99.761	624147.4	443864.5
5000	8.578	11.744	100	4962.928	-1820.93	494.454	102.797	624150.5	443879.1
5100	8.578	11.744	100	5061.809	-1919.81	509.057	105.833	624153.5	443893.7
5200	8.578	11.744	100	5160.691	-2018.69	523.661	108.869	624156.5	443908.3
5300	8.578	11.744	100	5259.572	-2117.57	538.264	111.905	624159.6	443922.9
5400	8.578	11.744	100	5358.453	-2216.45	552.867	114.941	624162.6	443937.5
5500	8.578	11.744	100	5457.335	-2315.34	567.47	117.977	624165.6	443952.1
5600	8.578	11.744	100	5556.216	-2414.22	582.073	121.013	624168.7	443966.7
5700	8.578	11.744	100	5655.098	-2513.1	596.676	124.049	624171.7	443981.3
5800	8.578	11.744	100	5753.979	-2611.98	611.279	127.085	624174.7	443995.9
5900	8.578	11.744	100	5852.86	-2710.86	625.882	130.121	624177.8	444010.5
6000	8.578	11.744	100	5951.742	-2809.74	640.485	133.156	624180.8	444025.1
6100	8.578	11.744	100	6050.623	-2908.62	655.088	136.192	624183.9	444039.7
6200	8.578	11.744	100	6149.505	-3007.51	669.692	139.228	624186.9	444054.3

6300	8.578	11.744	100	6248.386	-3106.39	684.295	142.264	624189.9	444068.9
6400	8.578	11.744	100	6347.267	-3205.27	698.898	145.3	624193	444083.5
6500	8.578	11.744	100	6446.149	-3304.15	713.501	148.336	624196	444098.1
6600	8.578	11.744	100	6545.03	-3403.03	728.104	151.372	624199	444112.7
6678.555	8.578	11.744	78.555	6622.707	-3480.71	739.575	153.757	624201.4	444124.2
6700	8.149	11.744	21.445	6643.923	-3501.92	742.629	154.392	624202.1	444127.3
6800	6.149	11.744	100	6743.141	-3601.14	754.813	156.925	624204.6	444139.4
6900	4.149	11.744	100	6842.732	-3700.73	763.599	158.752	624206.4	444148.2
7000	2.149	11.744	100	6942.576	-3800.58	768.977	159.87	624207.5	444153.6
7107.449	0	0	107.449	7050	-3908	770.95	160.28	624207.9	444155.6
7200	0	0	92.551	7142.551	-4000.55	770.95	160.28	624207.9	444155.6
7300	0	0	100	7242.551	-4100.55	770.95	160.28	624207.9	444155.6
7400	0	0	100	7342.551	-4200.55	770.95	160.28	624207.9	444155.6
7500	0	0	100	7442.551	-4300.55	770.95	160.28	624207.9	444155.6
7600	0	0	100	7542.551	-4400.55	770.95	160.28	624207.9	444155.6
7618.249	0	0	18.249	7560.8	-4418.8	770.95	160.28	624207.9	444155.6
7650	2.54	174	31.751	7592.541	-4450.54	770.25	160.354	624208	444154.9
7700	6.54	174	50	7642.374	-4500.37	766.315	160.767	624208.4	444150.9
7750	10.54	174	50	7691.809	-4549.81	758.932	161.543	624209.2	444143.6
7800	14.54	174	50	7740.607	-4598.61	748.137	162.678	624210.3	444132.8
7850	18.54	174	50	7788.528	-4646.53	733.984	164.165	624211.8	444118.6
7900	22.54	174	50	7835.34	-4693.34	716.54	165.999	624213.7	444101.2
7950	26.54	174	50	7880.814	-4738.81	695.892	168.169	624215.8	444080.5
8000	30.54	174	50	7924.729	-4782.73	672.139	170.665	624218.3	444056.8
8050	34.54	174	50	7966.871	-4824.87	645.397	173.476	624221.1	444030
8100	38.54	174	50	8007.035	-4865.04	615.797	176.587	624224.2	444000.4
8150	42.54	174	50	8045.025	-4903.03	583.483	179.984	624227.6	443968.1
8200	46.54	174	50	8080.656	-4938.66	548.611	183.649	624231.3	443933.2
8250	50.54	174	50	8113.754	-4971.75	511.353	187.565	624235.2	443896
8300	54.54	174	50	8144.158	-5002.16	471.89	191.712	624239.4	443856.5
8350	58.54	174	50	8171.72	-5029.72	430.413	196.072	624243.7	443815
8400	62.54	174	50	8196.306	-5054.31	387.125	200.622	624248.3	443771.8
8450	66.54	174	50	8217.796	-5075.8	342.238	205.339	624253	443726.9
8500	70.54	174	50	8236.084	-5094.08	295.968	210.203	624257.9	443680.6
8550	74.54	174	50	8251.083	-5109.08	248.543	215.187	624262.8	443633.2
8600	78.54	174	50	8262.719	-5120.72	200.192	220.269	624267.9	443584.8
8650	82.54	174	50	8270.935	-5128.94	151.152	225.423	624273.1	443535.8
8700	86.54	174	50	8275.692	-5133.69	101.662	230.625	624278.3	443486.3
8743.249	90	174	43.249	8276.997	-5135	58.676	235.143	624282.8	443443.3
8800	90	174	56.751	8276.997	-5135	2.236	241.075	624288.7	443386.9
8900	90	174	100	8276.997	-5135	-97.216	251.528	624299.2	443287.4
9000	90	174	100	8276.997	-5135	-196.668	261.981	624309.6	443188
9100	90	174	100	8276.997	-5135	-296.121	272.434	624320.1	443088.5
9143.249	90	174	43.249	8276.997	-5135	-339.133	276.954	624324.6	443045.5
9200	90	175.135	56.751	8276.997	-5135	-395.628	282.327	624330	442989
9300	90	177.135	100	8276.997	-5135	-495.395	289.067	624336.7	442889.2
9400	90	179.135	100	8276.997	-5135	-595.337	292.322	624340	442789.3

9500	90	181.135	100	8276.997	-5135	-695.332	292.086	624339.7	442689.3
9600	90	183.135	100	8276.997	-5135	-795.258	288.361	624336	442589.4
9700	90	185.135	100	8276.997	-5135	-894.992	281.15	624328.8	442489.6
9800	90	187.135	100	8276.997	-5135	-994.414	270.464	624318.1	442390.2
9900	90	189.135	100	8276.997	-5135	-1093.4	256.314	624304	442291.2
9943.249	90	190	43.249	8276.997	-5135	-1136.05	249.125	624296.8	442248.6
10000	90	190	56.751	8276.997	-5135	-1191.94	239.271	624286.9	442192.7
10100	90	190	100	8276.997	-5135	-1290.42	221.906	624269.6	442094.2
10173.25	90	190	73.249	8276.997	-5135	-1362.56	209.186	624256.8	442022.1
10200	90	189.465	26.751	8276.997	-5135	-1388.92	204.664	624252.3	441995.7
10300	90	187.465	100	8276.997	-5135	-1487.83	189.944	624237.6	441896.8
10400	90	185.465	100	8276.997	-5135	-1587.19	178.685	624226.3	441797.4
10500	90	183.465	100	8276.997	-5135	-1686.88	170.901	624218.6	441697.8
10600	90	181.465	100	8276.997	-5135	-1786.78	166.6	624214.3	441597.9
10686.35	90	179.738	86.35	8276.997	-5135	-1873.12	165.694	624213.4	441511.5
10700	90	179.738	13.65	8276.997	-5135	-1886.77	165.756	624213.4	441497.9
10800	90	179.738	100	8276.997	-5135	-1986.77	166.213	624213.9	441397.9
10900	90	179.738	100	8276.997	-5135	-2086.77	166.671	624214.3	441297.9
11000	90	179.738	100	8276.997	-5135	-2186.77	167.128	624214.8	441197.9
11100	90	179.738	100	8276.998	-5135	-2286.77	167.585	624215.2	441097.9
11200	90	179.738	100	8276.998	-5135	-2386.77	168.043	624215.7	440997.9
11300	90	179.738	100	8276.998	-5135	-2486.77	168.5	624216.2	440897.9
11400	90	179.738	100	8276.998	-5135	-2586.77	168.957	624216.6	440797.9
11500	90	179.738	100	8276.998	-5135	-2686.76	169.415	624217.1	440697.9
11600	90	179.738	100	8276.998	-5135	-2786.76	169.872	624217.5	440597.9
11700	90	179.738	100	8276.998	-5135	-2886.76	170.329	624218	440497.9
11800	90	179.738	100	8276.998	-5135	-2986.76	170.786	624218.4	440397.9
11900	90	179.738	100	8276.998	-5135	-3086.76	171.244	624218.9	440297.9
12000	90	179.738	100	8276.998	-5135	-3186.76	171.701	624219.4	440197.9
12100	90	179.738	100	8276.998	-5135	-3286.76	172.158	624219.8	440097.9
12200	90	179.738	100	8276.998	-5135	-3386.76	172.616	624220.3	439997.9
12300	90	179.738	100	8276.998	-5135	-3486.76	173.073	624220.7	439897.9
12400	90	179.738	100	8276.998	-5135	-3586.75	173.53	624221.2	439797.9
12500	90	179.738	100	8276.998	-5135	-3686.75	173.987	624221.6	439697.9
12600	90	179.738	100	8276.998	-5135	-3786.75	174.445	624222.1	439597.9
12700	90	179.738	100	8276.998	-5135	-3886.75	174.902	624222.6	439497.9
12800	90	179.738	100	8276.998	-5135	-3986.75	175.359	624223	439397.9
12900	90	179.738	100	8276.998	-5135	-4086.75	175.817	624223.5	439297.9
13000	90	179.738	100	8276.998	-5135	-4186.75	176.274	624223.9	439197.9
13100	90	179.738	100	8276.998	-5135	-4286.75	176.731	624224.4	439097.9
13200	90	179.738	100	8276.998	-5135	-4386.75	177.189	624224.8	438997.9
13300	90	179.738	100	8276.998	-5135	-4486.75	177.646	624225.3	438897.9
13400	90	179.738	100	8276.998	-5135	-4586.74	178.103	624225.8	438797.9
13500	90	179.738	100	8276.999	-5135	-4686.74	178.56	624226.2	438697.9
13600	90	179.738	100	8276.999	-5135	-4786.74	179.018	624226.7	438597.9
13700	90	179.738	100	8276.999	-5135	-4886.74	179.475	624227.1	438497.9
13800	90	179.738	100	8276.999	-5135	-4986.74	179.932	624227.6	438397.9

13900	90	179.738	100	8276.999	-5135	-5086.74	180.39	624228.1	438297.9
14000	90	179.738	100	8276.999	-5135	-5186.74	180.847	624228.5	438197.9
14100	90	179.738	100	8276.999	-5135	-5286.74	181.304	624229	438097.9
14200	90	179.738	100	8276.999	-5135	-5386.74	181.762	624229.4	437997.9
14300	90	179.738	100	8276.999	-5135	-5486.73	182.219	624229.9	437897.9
14400	90	179.738	100	8276.999	-5135	-5586.73	182.676	624230.3	437797.9
14500	90	179.738	100	8276.999	-5135	-5686.73	183.133	624230.8	437697.9
14600	90	179.738	100	8276.999	-5135	-5786.73	183.591	624231.3	437597.9
14700	90	179.738	100	8276.999	-5135	-5886.73	184.048	624231.7	437497.9
14800	90	179.738	100	8276.999	-5135	-5986.73	184.505	624232.2	437397.9
14900	90	179.738	100	8276.999	-5135	-6086.73	184.963	624232.6	437297.9
15000	90	179.738	100	8276.999	-5135	-6186.73	185.42	624233.1	437197.9
15100	90	179.738	100	8276.999	-5135	-6286.73	185.877	624233.5	437097.9
15200	90	179.738	100	8276.999	-5135	-6386.73	186.335	624234	436997.9
15300	90	179.738	100	8276.999	-5135	-6486.72	186.792	624234.5	436897.9
15400	90	179.738	100	8276.999	-5135	-6586.72	187.249	624234.9	436797.9
15500	90	179.738	100	8276.999	-5135	-6686.72	187.706	624235.4	436697.9
15600	90	179.738	100	8276.999	-5135	-6786.72	188.164	624235.8	436597.9
15700	90	179.738	100	8276.999	-5135	-6886.72	188.621	624236.3	436497.9
15800	90	179.738	100	8276.999	-5135	-6986.72	189.078	624236.7	436397.9
15900	90	179.738	100	8277	-5135	-7086.72	189.536	624237.2	436297.9
16000	90	179.738	100	8277	-5135	-7186.72	189.993	624237.7	436197.9
16100	90	179.738	100	8277	-5135	-7286.72	190.45	624238.1	436097.9
16200	90	179.738	100	8277	-5135	-7386.72	190.908	624238.6	435997.9
16300	90	179.738	100	8277	-5135	-7486.71	191.365	624239	435897.9
16400	90	179.738	100	8277	-5135	-7586.71	191.822	624239.5	435797.9
16500	90	179.738	100	8277	-5135	-7686.71	192.279	624239.9	435697.9
16600	90	179.738	100	8277	-5135	-7786.71	192.737	624240.4	435597.9
16700	90	179.738	100	8277	-5135	-7886.71	193.194	624240.9	435497.9
16800	90	179.738	100	8277	-5135	-7986.71	193.651	624241.3	435397.9
16900	90	179.738	100	8277	-5135	-8086.71	194.109	624241.8	435297.9
17000	90	179.738	100	8277	-5135	-8186.71	194.566	624242.2	435197.9
17051.19	90	179.738	51.194	8277	-5135	-8237.9	194.8	624242.5	435146.7
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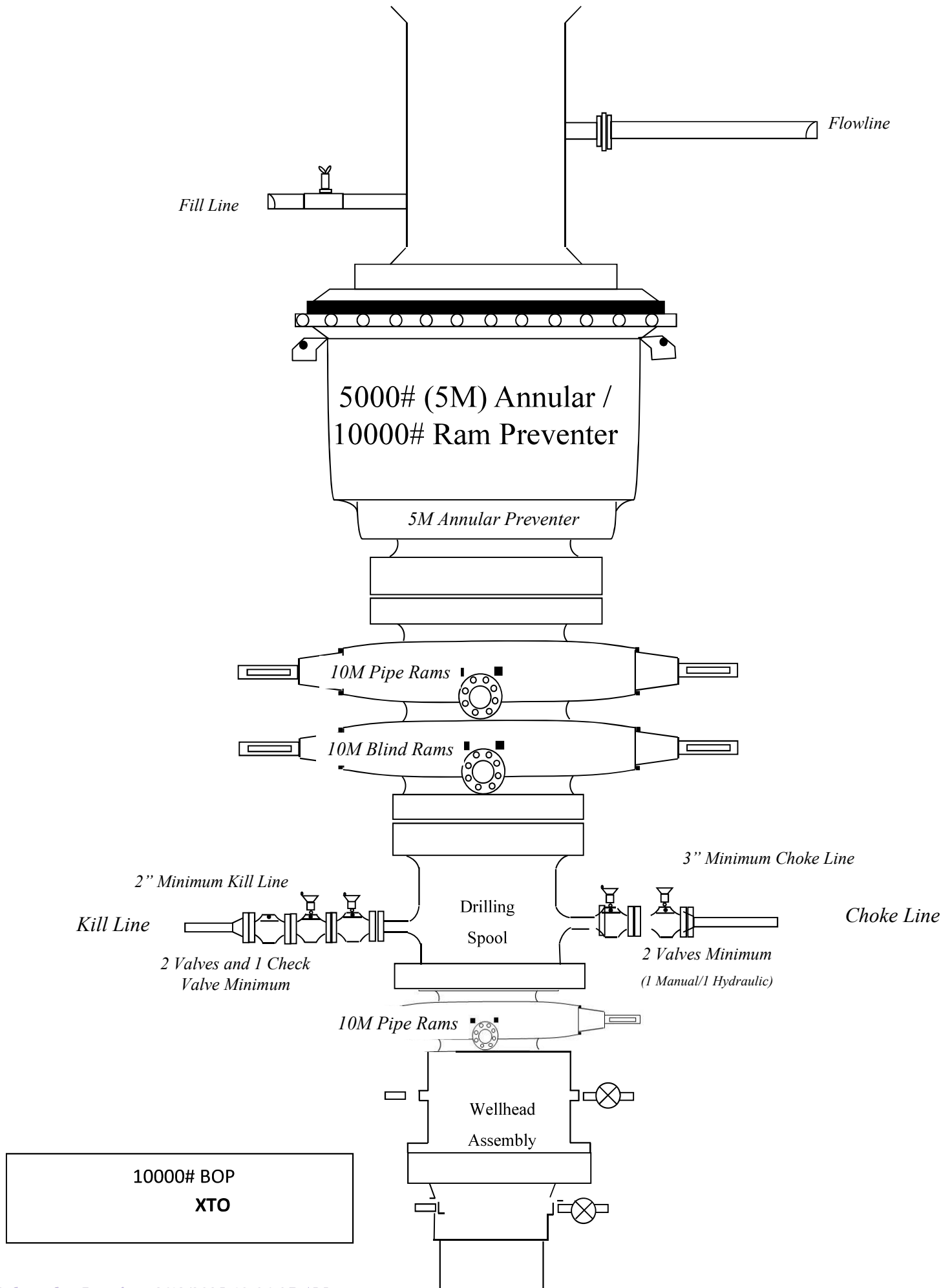
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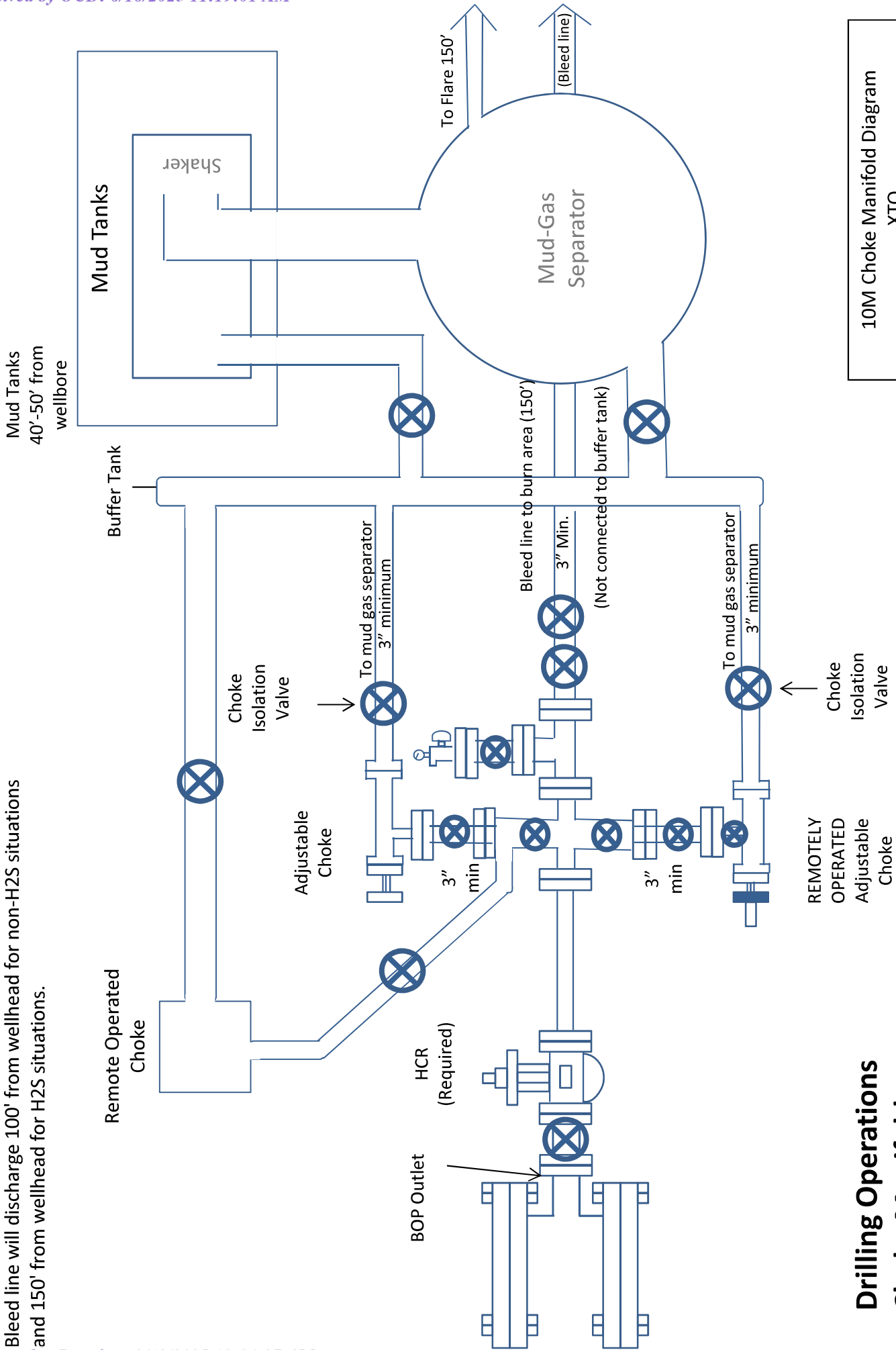
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32.19557	-103.932	0	0	0	8238.699
32.19556	-103.932	0	0	0	8288.68



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**



TenarisHydril Wedge 511



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

Outside Diameter	7.625 in.	Wall Thickness	0.375 in.	Grade	P110-4CY
Min. Wall Thickness	90.00 %	Pipe Body Drift	API Standard	Type	Casing
Connection OD Option	REGULAR				

Pipe Body Data

Geometry		Performance	
Nominal OD	7.625 in.	Wall Thickness	0.375 in.
Nominal Weight	29.70 lb/ft	Plain End Weight	29.06 lb/ft
Drift	6.750 in.	OD Tolerance	API
Nominal ID	6.875 in.		
		Body Yield Strength	1068 x1000 lb
		Min. Internal Yield Pressure	11,070 psi
		SMYS	125,000 psi
		Collapse Pressure	7360 psi

Connection Data

Geometry		Performance		Make-Up Torques	
Connection OD	7.625 in.	Tension Efficiency	61.10 %	Minimum	5900 ft-lb
Connection ID	6.787 in.	Joint Yield Strength	653 x1000 lb	Optimum	7100 ft-lb
Make-up Loss	3.704 in.	Internal Pressure Capacity	11,070 psi	Maximum	10,300 ft-lb
Threads per inch	3.28	Compression Efficiency	73.80 %		
Connection OD Option	Regular	Compression Strength	788 x1000 lb	Operation Limit Torques	
		Max. Allowable Bending	45.83 °/100 ft	Operating Torque	55,000 ft-lb
		External Pressure Capacity	7360 psi	Yield Torque	82,000 ft-lb

Notes

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TenarisHydril Wedge 511



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

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

Pipe Body Data

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

Connection Data

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

Notes

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TPN™



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

Outside Diameter	5,500 in.	Wall Thickness	0,361 in.	Grade	P110-CY
Min. Wall Thickness	87.50 %	Pipe Body Drift	API Standard	Type	Casing
Connection OD Option	REGULAR				

Pipe Body Data

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

Connection Data

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

Notes

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PI/CIII



TenarisHydril Wedge 441®



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

Outside Diameter	5.500 in.	Wall Thickness	0.361 in.	Grade	P110-4CY
Min. Wall Thickness	87.50 %	Pipe Body Drift	API Standard	Type	Casing
Connection OD Option	REGULAR				

Pipe Body Data

Geometry		Performance	
Nominal OD	5.500 in.	Wall Thickness	0.361 in.
Nominal Weight	20.00 lb/ft	Plain End Weight	19.83 lb/ft
Drift	4.653 in.	OD Tolerance	API
Nominal ID	4.778 in.		
		Body Yield Strength	729 x1000 lb
		Min. Internal Yield Pressure	14,360 psi
		SMYS	125,000 psi
		Collapse Pressure	12,300 psi

Connection Data

Geometry		Performance		Make-Up Torques	
Connection OD	5.852 in.	Tension Efficiency	81.50 %	Minimum	15,000 ft-lb
Coupling Length	8.714 in.	Joint Yield Strength	594 x1000 lb	Optimum	16,000 ft-lb
Connection ID	4.778 in.	Internal Pressure Capacity	14,360 psi	Maximum	19,200 ft-lb
Make-up Loss	3.780 in.	Compression Efficiency	81.50 %		
Threads per inch	3.40	Compression Strength	594 x1000 lb	Operation Limit Torques	
Connection OD Option	Regular	Max. Allowable Bending	84,76 °/100 ft	Operating Torque	36,000 ft-lb
		External Pressure Capacity	12,300 psi	Yield Torque	42,000 ft-lb
				Buck-On	
				Minimum	19,200 ft-lb
				Maximum	20,700 ft-lb

Notes

This connection is fully interchangeable with:
Wedge 441® - 5.5 in. - 0.304 (17.00) in. (lb/ft)
Wedge 461® - 5.5 in. - 0.304 (17.00) / 0.361 (20.00) / 0.415 (23.00) in. (lb/ft)
Connections with Dopeless® Technology are fully compatible with the same connection in its doped version

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

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HBE0000479

CACTUS WELLHEAD LLC

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

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.

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

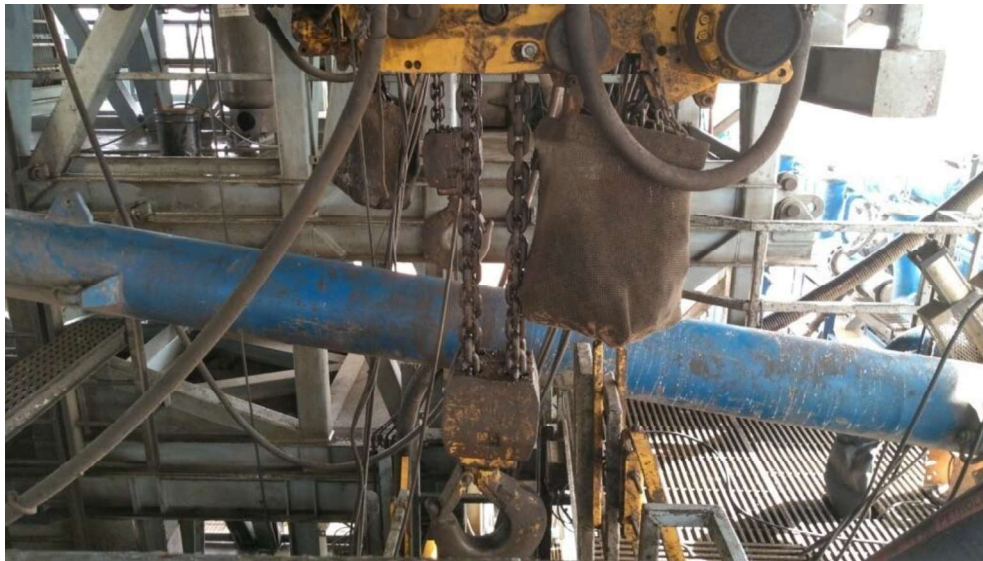


Figure 2: BOP Winch System

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.

62

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

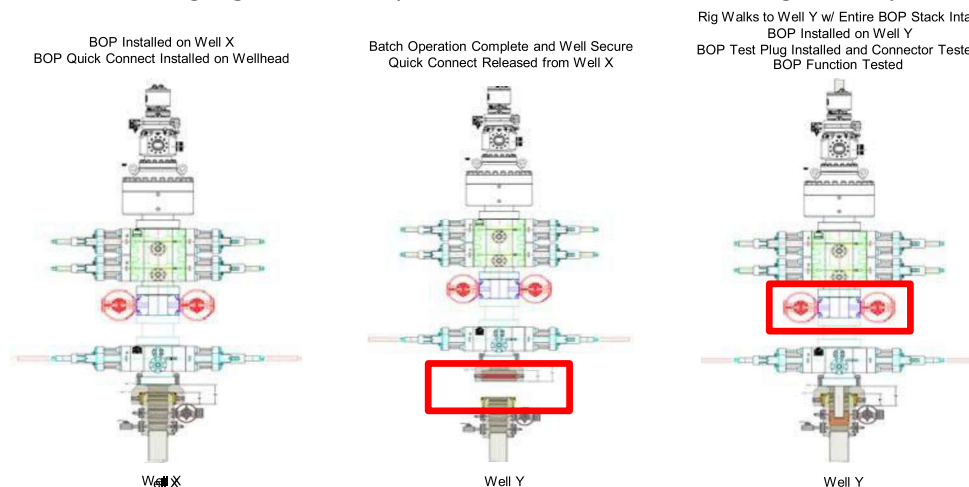
each BOP nipple up, XTO Energy performs a choke drill with the rig crew prior to drilling out every casing shoe. This is additional training for the rig crew that exceeds the requirements of the CFR Title 43 Part 3170.

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



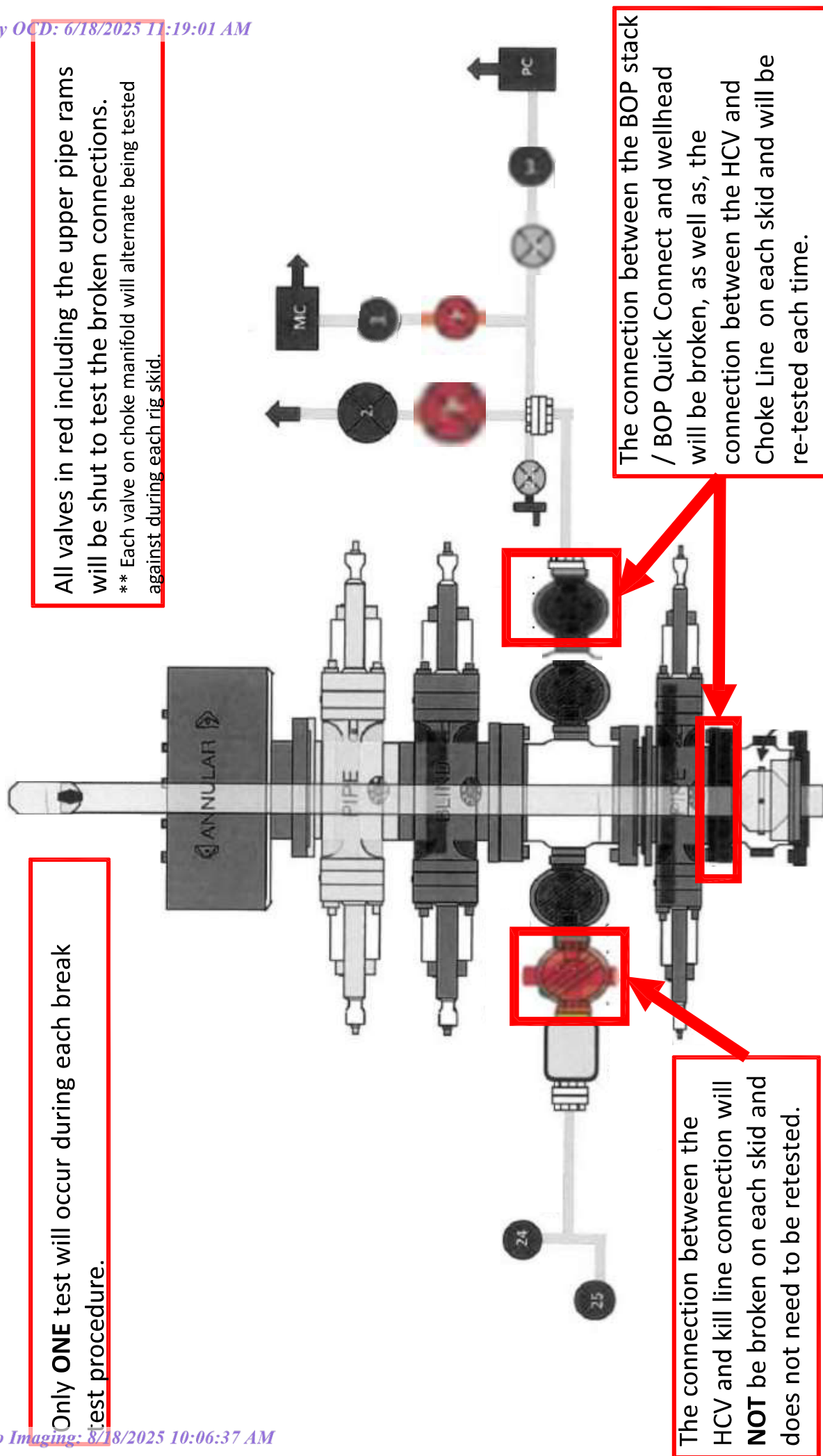
Summary

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.



**BLACK GOLD®**

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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:

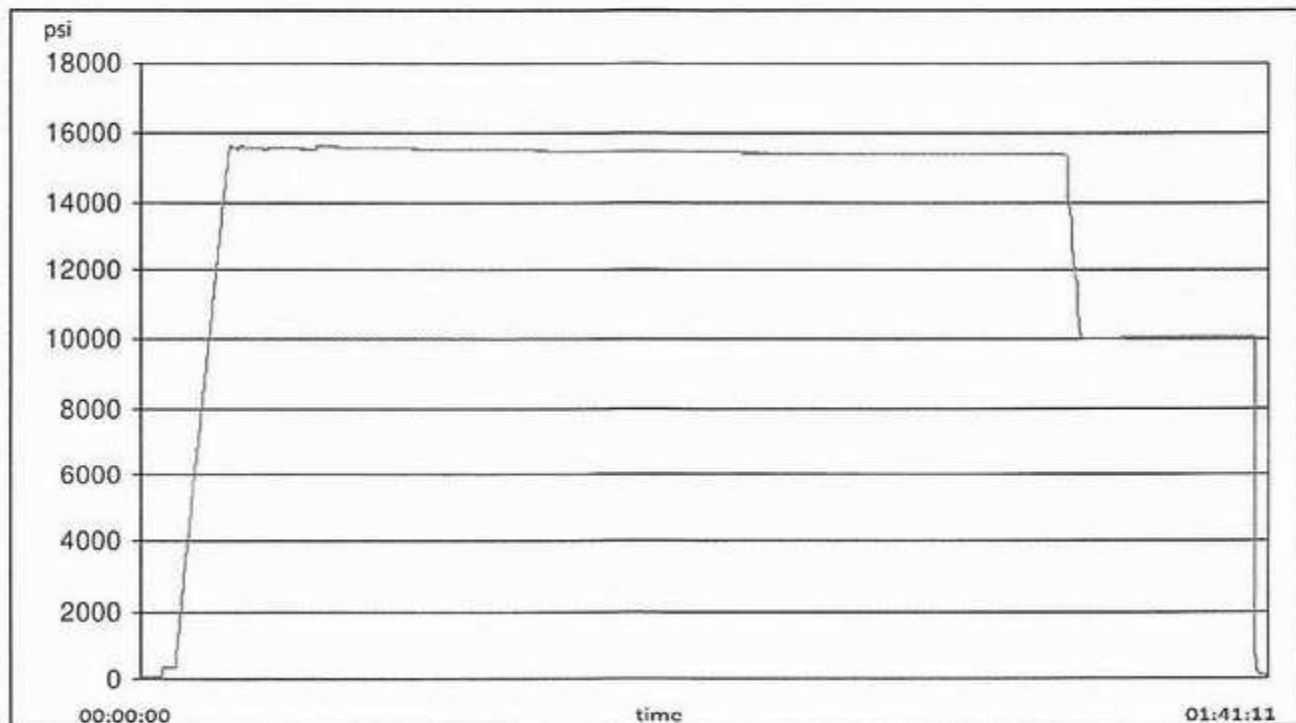
Visual check:

Pressure test result: PASS

Length measurement result:

Length: 45 feet

Test operator: Travis





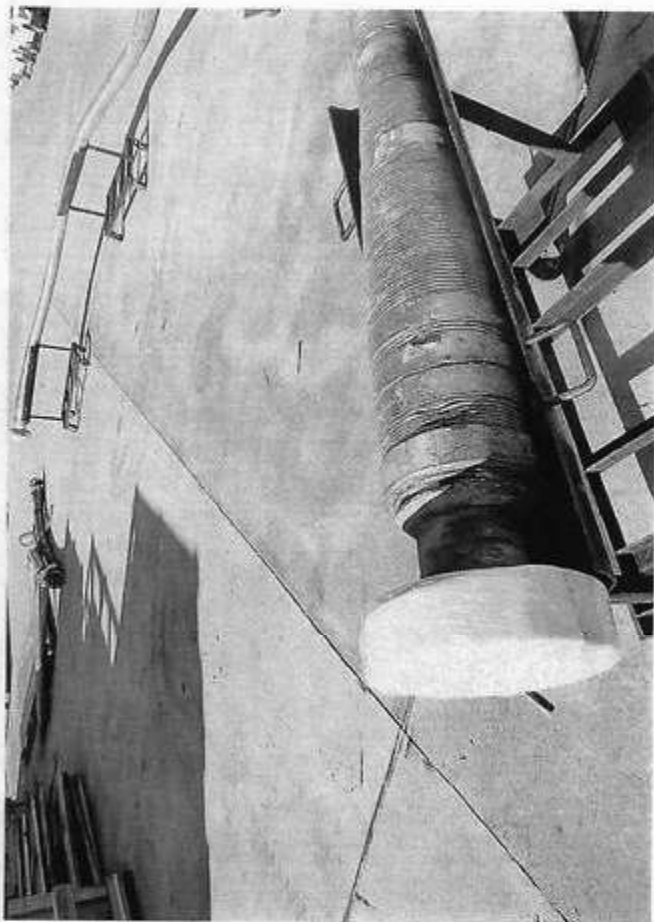
H3-15/16

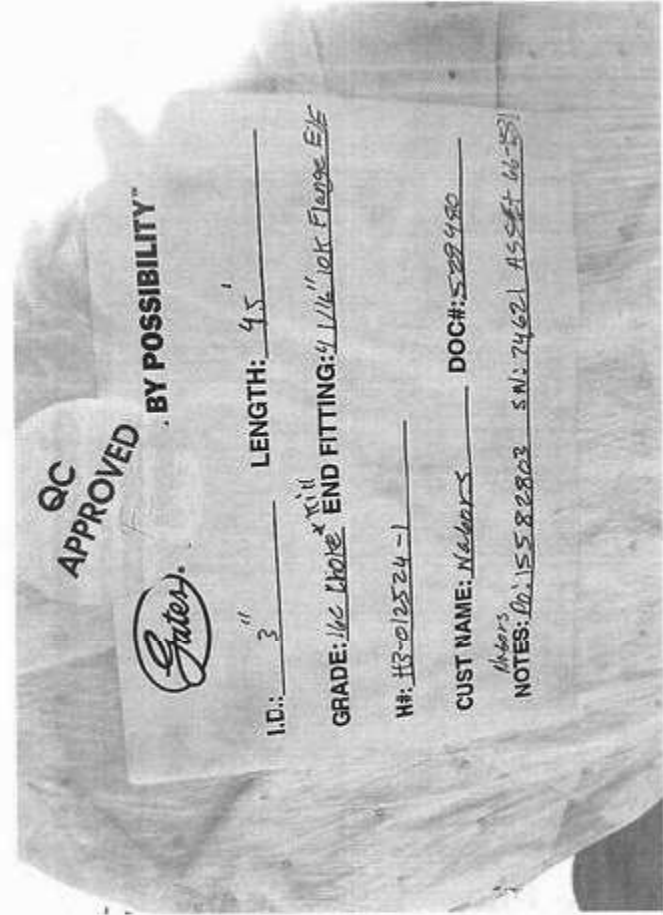
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TEST REPORT

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

Comment





XTO Permian Operating, LLC Offline Cementing Variance Request

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

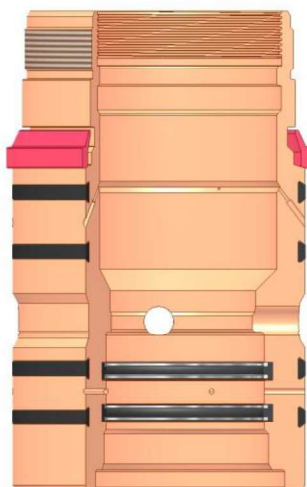
1. Cement Program

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

2. Offline Cementing Procedure

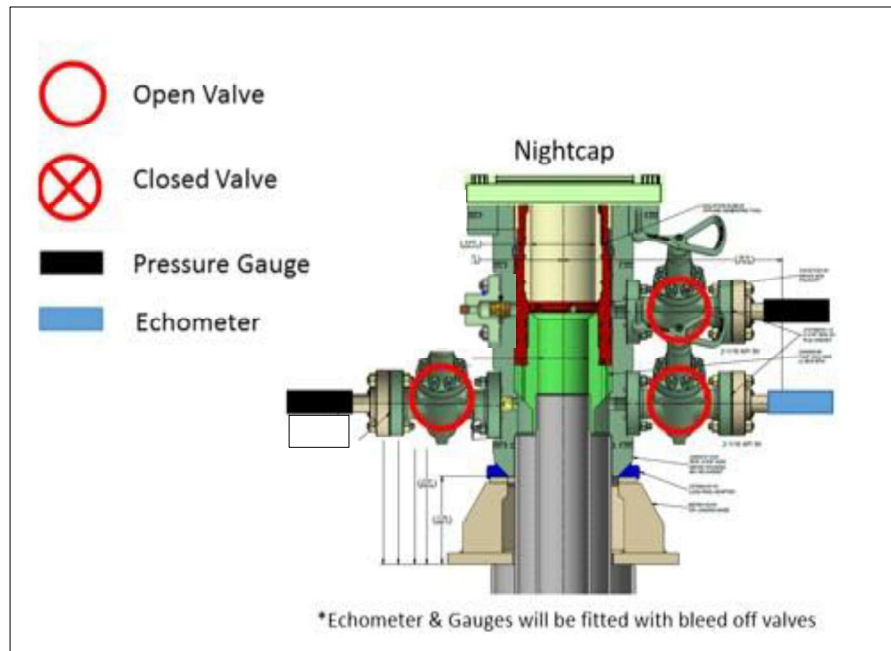
The operational sequence will be as follows. If a well control event occurs, the BLM will be contacted for approval prior to conducting offline cementing operations.

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



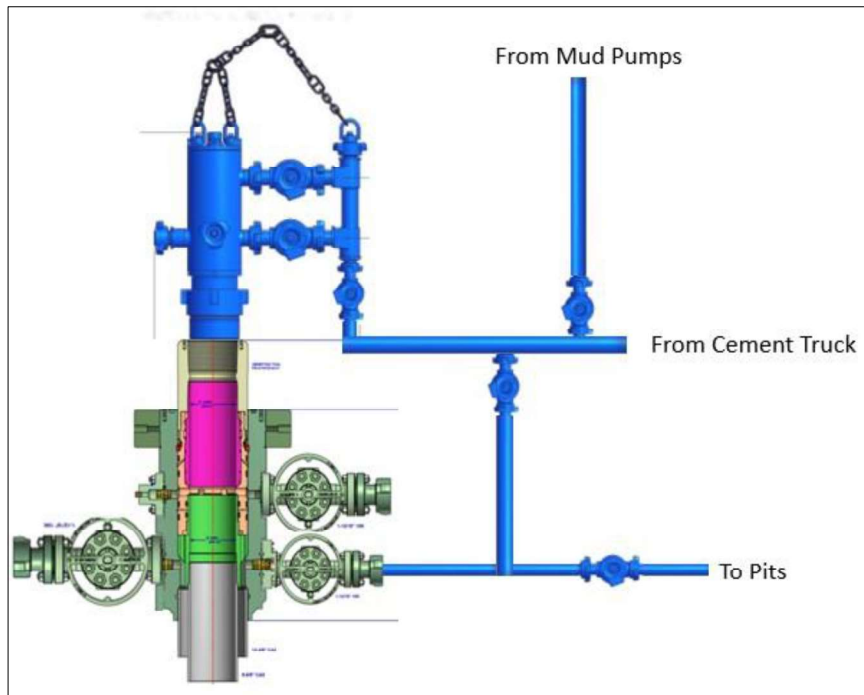
Annular packoff with both external and internal seals

XTO Permian Operating, LLC Offline Cementing Variance Request



Wellhead diagram during skidding operations

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

XTO Permian Operating, LLC Offline Cementing Variance Request

Wellhead diagram during offline cementing operations

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

Sante Fe Main Office
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Phone: (505) 629-6116

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

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

CONDITIONS

Action 476412

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 476412
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Any previous COA's not addressed within the updated COA's still apply.	8/18/2025