

Lease Number: NMNM0506A

Unit or CA Name: POKER LAKE UNIT

Unit or CA Number:
NMNM71016X

US Well Number: 3001554181

Operator: XTO PERMIAN OPERATING
LLC**Notice of Intent**

Sundry ID: 2823630

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 11/20/2024

Time Sundry Submitted: 12:45

Date proposed operation will begin: 12/04/2024

Procedure Description: XTO Permian Operating, LLC. respectfully requests approval to make the following changes to the approved APD. Changes to include SHL, KOP, FTP, LTP, BHL, Proposed total Depth, and Pool. There is no new surface disturbance. There is a dedicated change. FROM: TO: SHL: 501' FNL & 2282' FWL OF SECTION 22-T24S-R31E 521' FNL & 2282' FWL OF SECTION 22-T24S-R31E KOP: 501' FNL & 2282' FWL OF SECTION 22-T24S-R31E 616' FSL & 1660' FEL OF SECTION 15-T24S-R31E FTP: 330' FNL & 2310' FWL OF SECTION 22-T24S-R31E 100' FNL & 1660' FEL OF SECTION 22-T24S-R31E LTP: 2460' FNL & 2310' FWL OF SECTION 27-T24S-R31E 100' FSL & 1660' FEL OF SECTION 27-T24S-R31E BHL: 2590' FNL & 2310' FWL OF SECTION 27-T24S-R31E 50' FSL & 1660' FEL OF SECTION 27-T24S-R31E The proposed total depth is changing from 18027' MD; 10135' TVD to 20040' MD; 8912' TVD. The pool code is changing from Wildcat; Bone Spring (96403) to Cotton Draw; Bone Spring, South (96546). 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_15_TWR_214H_Sundry_Docs_Submitted_20241210092038.pdf

US Well Number: 3001554181

Operator: XTO PERMIAN OPERATING
LLC**Conditions of Approval****Additional**

PLU_15_TWR_114H_306H_214H_COA_20241212103340.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 10, 2024 09:20 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:** 12/13/2024**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
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. NMNM0506A	
6. If Indian, Allottee or Tribe Name	
7. If Unit of CA/Agreement, Name and/or No. POKER LAKE UNIT/NMNM71016X	
8. Well Name and No. POKER LAKE UNIT 15 TWR/214H	
9. API Well No. 3001554181	
1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other	10. Field and Pool or Exploratory Area Wildcat; Bone Spring
2. Name of Operator XTO PERMIAN OPERATING LLC	11. Country or Parish, State EDDY/NM
3a. Address 6401 HOLIDAY HILL ROAD BLDG 5, MIDLAND,	3b. Phone No. (include area code) (432) 683-2277
12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA	
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 recompletable 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 recompletable 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 determined that the site is ready for final inspection.)	

XTO Permian Operating, LLC. respectfully requests approval to make the following changes to the approved APD. Changes to include SHL, KOP, FTP, LTP, BHL, Proposed total Depth, and Pool. There is no new surface disturbance. There is a dedicated change.

FROM: TO:
SHL: 501' FNL & 2282' FWL OF SECTION 22-T24S-R31E 521' FNL & 2282' FWL OF SECTION 22-T24S-R31E
KOP: 501 FNL & 2282 FWL OF SECTION 22-T24S-R31E 616 FSL & 1660 FEL OF SECTION 15-T24S-R31E
FTP: 330' FNL & 2310' FWL OF SECTION 22-T24S-R31E 100' FNL & 1660' FEL OF SECTION 22-T24S-R31E
LTP: 2460' FNL & 2310' FWL OF SECTION 27-T24S-R31E 100' FSL & 1660' FEL OF SECTION 27-T24S-R31E
BHL: 2590' FNL & 2310' FWL OF SECTION 27-T24S-R31E 50' FSL & 1660' FEL OF SECTION 27-T24S-R31E

The proposed total depth is changing from 18027 MD; 10135 TVD to 20040 MD; 8912 TVD.

Continued on page 3 additional information

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) TERRA SEBASTIAN / Ph: (432) 999-3107	Title Regulatory Advisor
Signature (Electronic Submission)	Date 12/10/2024

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by CHRISTOPHER WALLS / Ph: (575) 234-2234 / Approved	Title Petroleum Engineer	Date 12/13/2024
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

The pool code is changing from Wildcat; Bone Spring (96403) to Cotton Draw; Bone Spring, South (96546).

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: NENW / 501 FNL / 2282 FWL / TWSP: 24S / RANGE: 31E / SECTION: 22 / LAT: 32.208728 / LONG: -103.766854 (TVD: 0 feet, MD: 0 feet)

PPP: NENW / 330 FNL / 2310 FWL / TWSP: 24S / RANGE: 31E / SECTION: 22 / LAT: 32.209198 / LONG: -103.766763 (TVD: 10122 feet, MD: 10500 feet)

BHL: SENW / 2590 FNL / 2310 FWL / TWSP: 24S / RANGE: 31E / SECTION: 27 / LAT: 32.188467 / LONG: -103.766731 (TVD: 10135 feet, MD: 18027 feet)

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO
LEASE NO.:	NMNM0506A
LOCATION:	Sec. 22, T.24 S, R 31 E
COUNTY:	Eddy County, New Mexico ▼
WELL NAME & NO.:	Poker Lake Unit 15 TWR 114H
SURFACE HOLE FOOTAGE:	510'/N & 490'/W
BOTTOM HOLE FOOTAGE:	50'/S & 290'/E

WELL NAME & NO.:	Poker Lake Unit 15 TWR 306H
SURFACE HOLE FOOTAGE:	461'/N & 1319'/E
BOTTOM HOLE FOOTAGE:	50'/S & 530'/E

WELL NAME & NO.:	Poker Lake Unit 15 TWR 214H
SURFACE HOLE FOOTAGE:	521'/N & 2282'/W
BOTTOM HOLE FOOTAGE:	50'/S & 1660'/E

*Changes approved through engineering via **Sundry 2823639,2823631,2823630**, on 12-12-2024_. Any previous COAs not addressed within the updated COAs still apply.*

COA

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

A. HYDROGEN SULFIDE

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

B. CASING

1. The 9-5/8 inch surface casing shall be set at approximately 775 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 6994-7028'**.
 - 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 Medium 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.

Engineer may elect to vary this language. Speak with Chris about implementing changes and whether that change seems reasonable.

Casing Clearance

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

GENERAL REQUIREMENTS

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

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

Contact Eddy County Petroleum Engineering Inspection Staff:

Email or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220;
[BLM NM CFO DrillingNotifications@BLM.GOV](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 12/12/2024
575-234-5998 / zstevens@blm.gov

WELL LOCATION INFORMATION

API Number 30-015- 54181	Pool Code 96546	Pool Name COTTON DRAW; BONE SPRING, SOUTH
Property Code	Property Name POKER LAKE UNIT 15 TWR	Well Number 214H
OGRID No. 373075	Operator Name XTO PERMIAN OPERATING, LLC.	Ground Level Elevation 3,532'
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
C	22	24S	31E		521 FNL	2,282 FWL	32.208673	-103.766854	EDDY

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
O	27	24S	31E		50 FSL	1,660 FEL	32.181207	-103.762480	EDDY

Dedicated Acres 640.00	Infill or Defining Well INFILL	Defining Well API 30-015-54186	Overlapping Spacing Unit (Y/N) N	Consolidation Code U
Order Numbers.			Well Setbacks are under Common Ownership: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
O	15	24S	31E		616 FSL	1,660 FEL	32.211802	-103.762514	EDDY

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
B	22	24S	31E		100 FNL	1,660 FEL	32.209834	-103.762512	EDDY

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
O	27	24S	31E		100 FSL	1,660 FEL	32.181344	-103.762480	EDDY

Unitized Area of Area of Interest NMNM105422429	Spacing Unit Type : <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical	Ground Elevation 3,532'
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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.

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 information) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.

Samantha Weis 11/15/2024
Signature Date

Samantha Weis

Printed Name

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

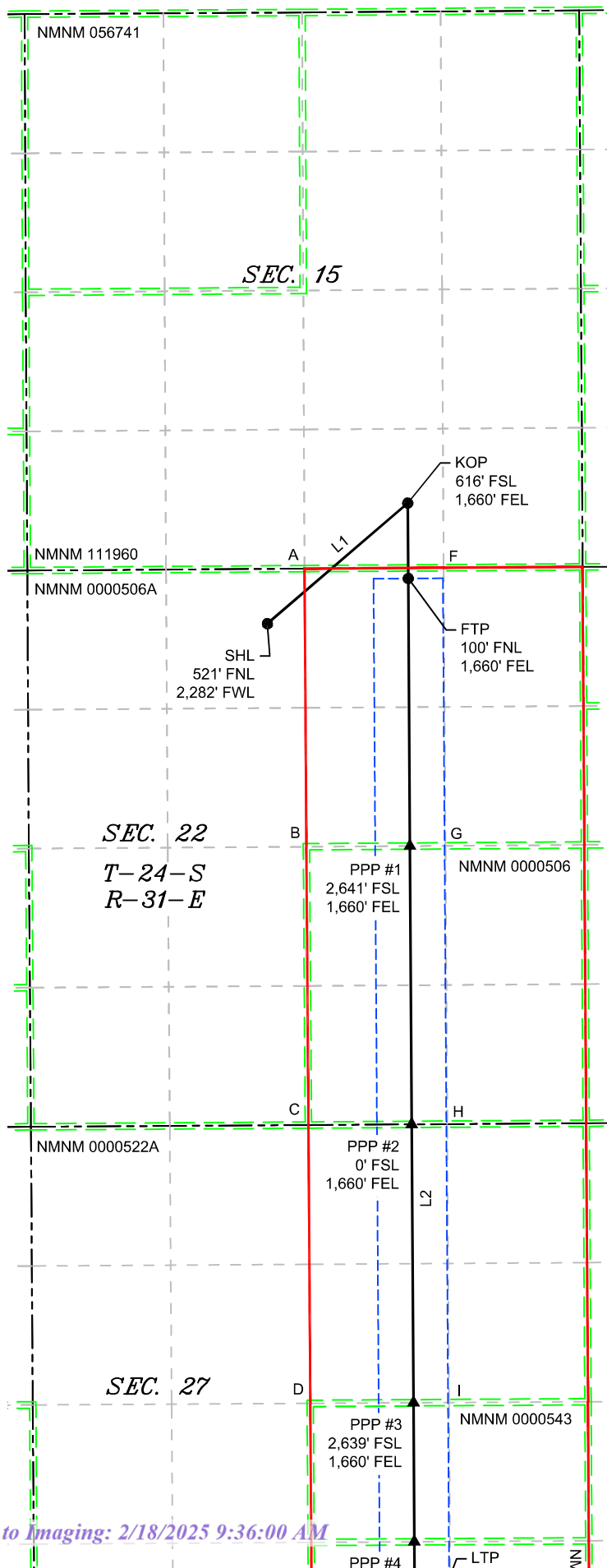
Date of Survey

10/31/2024

LINE TABLE		
LINE	AZIMUTH	LENGTH
L1	049°23'36"	1,759.94'
L2	179°38'29"	11,130.49'

LEGEND

---	SECTION LINE
---	PROPOSED WELL BORE
---	NEW MEXICO MINERAL LEASE
---	330' BUFFER
---	ALLOCATION AREA



COORDINATE TABLE					
SHL (NAD 83 NME)			SHL (NAD 27 NME)		
Y =	440,111.1	N	Y =	440,052.2	N
X =	716,541.7	E	X =	675,357.7	E
LAT. =	32.208673	°N	LAT. =	32.208549	°N
LONG. =	103.766854	°W	LONG. =	103.766371	°W
KOP (NAD 83 NME)			KOP (NAD 27 NME)		
Y =	441,256.5	N	Y =	441,197.7	N
X =	717,877.9	E	X =	676,693.9	E
LAT. =	32.211802	°N	LAT. =	32.211679	°N
LONG. =	103.762514	°W	LONG. =	103.762031	°W
FTP (NAD 83 NME)			FTP (NAD 27 NME)		
Y =	440,540.3	N	Y =	440,481.5	N
X =	717,882.3	E	X =	676,698.3	E
LAT. =	32.209834	°N	LAT. =	32.209710	°N
LONG. =	103.762512	°W	LONG. =	103.762029	°W
PPP #1 (NAD 83 NME)			PPP #1 (NAD 27 NME)		
Y =	437,999.4	N	Y =	437,940.6	N
X =	717,898.2	E	X =	676,714.1	E
LAT. =	32.202849	°N	LAT. =	32.202725	°N
LONG. =	103.762505	°W	LONG. =	103.762022	°W
PPP #2 (NAD 83 NME)			PPP #2 (NAD 27 NME)		
Y =	435,358.9	N	Y =	435,300.2	N
X =	717,914.6	E	X =	676,730.4	E
LAT. =	32.195590	°N	LAT. =	32.195467	°N
LONG. =	103.762497	°W	LONG. =	103.762014	°W
PPP #3 (NAD 83 NME)			PPP #3 (NAD 27 NME)		
Y =	432,715.3	N	Y =	432,656.6	N
X =	717,932.0	E	X =	676,747.6	E
LAT. =	32.188323	°N	LAT. =	32.188200	°N
LONG. =	103.762486	°W	LONG. =	103.762004	°W
PPP #4 (NAD 83 NME)			PPP #4 (NAD 27 NME)		
Y =	431,395.8	N	Y =	431,337.2	N
X =	717,939.9	E	X =	676,755.5	E
LAT. =	32.184696	°N	LAT. =	32.184572	°N
LONG. =	103.762483	°W	LONG. =	103.762001	°W
LTP (NAD 83 NME)			LTP (NAD 27 NME)		
Y =	430,176.3	N	Y =	430,117.7	N
X =	717,947.2	E	X =	676,762.8	E
LAT. =	32.181344	°N	LAT. =	32.181220	°N
LONG. =	103.762480	°W	LONG. =	103.761998	°W
BHL (NAD 83 NME)			BHL (NAD 27 NME)		
Y =	430,126.3	N	Y =	430,067.7	N
X =	717,947.5	E	X =	676,763.1	E
LAT. =	32.181207	°N	LAT. =	32.181083	°N
LONG. =	103.762480	°W	LONG. =	103.761998	°W
CORNER COORDINATES (NAD 83 NME)					
A - Y =	440,634.3	N	A - X =	716,896.1	E
B - Y =	437,992.9	N	B - X =	716,914.3	E
C - Y =	435,352.3	N	C - X =	716,932.4	E
D - Y =	432,709.7	N	D - X =	716,950.0	E
E - Y =	430,070.5	N	E - X =	716,967.5	E
F - Y =	440,642.4	N	F - X =	718,218.9	E
G - Y =	438,001.6	N	G - X =	718,236.2	E
H - Y =	435,361.1	N	H - X =	718,253.7	E
I - Y =	432,717.2	N	I - X =	718,271.0	E
J - Y =	430,078.3	N	J - X =	718,287.6	E
CORNER COORDINATES (NAD 27 NME)					
A - Y =	440,575.5	N	A - X =	675,712.1	E
B - Y =	437,934.1	N	B - X =	675,730.1	E
C - Y =	435,293.6	N	C - X =	675,748.2	E
D - Y =	432,651.0	N	D - X =	675,765.7	E
E - Y =	430,011.9	N	E - X =	675,783.0	E
F - Y =	440,583.6	N	F - X =	677,034.8	E
G - Y =	437,942.8	N	G - X =	677,052.1	E
H - Y =	435,302.4	N	H - X =	677,069.4	F

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

XTO Energy Inc.
POKER LAKE UNIT 15 TWR 214H
Projected TD: 20040.3' MD / 8912' TVD
SHL: 521' FNL & 2282' FWL , Section 22, T24S, R31E
BHL: 50' FSL & 1660' FEL , Section 27, T24S, 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	656'	Water
Top of Salt	992'	Water
Base of Salt	4247'	Water
Delaware	4465'	Water
Brushy Canyon	7027'	Water/Oil/Gas
Bone Spring	8316'	Water
Avalon	8412'	Water/Oil/Gas
Target/Land Curve	8912'	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 @ 756' (236' 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 8301' and cemented to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 20040.3 MD/TD and 5.5 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 8001 feet).

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0' – 756'	9.625	40	J-55	BTC	New	1.59	8.33	20.83
8.75	0' – 4000'	7.625	29.7	RY P-110	Flush Joint	New	4.28	2.57	2.26
8.75	4000' – 8301'	7.625	29.7	HC L-80	Flush Joint	New	3.11	2.29	3.18
6.75	0' – 8201'	5.5	20	RY P-110	Semi-Premium / Freedom	New	1.26	2.89	2.42
6.75	8201' - 20040.3'	5.5	20	RY P-110	Semi-Flush / Talon	New	1.26	2.66	2.42

· 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 +/- 756'

Lead: 150 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 +/- 8301'

1st Stage

Optional Lead: 380 sxs Class C (mixed at 10.5 ppg, 2.77 ft3/sx, 15.59 gal/sx water)

TOC: Surface

Tail: 110 sxs Class C (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)

TOC: Brushy Canyon @ 7027

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

2nd Stage

Lead: 0 sxs Class C (mixed at 12.9 ppg, 2.16 ft3/sx, 9.61 gal/sx water)

Tail: 790 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 (7027') 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 Semi-Flush / Talon, RY P-110 casing to be set at +/- 20040.3'

Lead: 20 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft3/sx, 15.00 gal/sx water) Top of Cement: 8001 feet

Tail: 820 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft3/sx, 8.38 gal/sx water) Top of Cement: 8501 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 casing, the blow out preventer equipment (BOP) will consist of 5M Hydril and 10M 3-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. .

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' - 756'	12.25	FW/Native	8.4-8.9	35-40	NC	Fresh water or native water
756' - 4465'	8.75	Saturated brine	10.0-10.5	30-32	NC	Fully saturated salt across salado / salt
4465' - 8301'	8.75	Brine or Direct Emulsion	10-10.5	30-32	NC	Depending on well conditions
8301' - 20040.3'	6.75	OBM	9-9.5	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 155 to 175 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 - PLU 15 Twin Wells Ranch-214H

Measured Depth: 20040.30 ft
TVD RKB: 8912.00 ft
Location
Cartographic Reference System: New Mexico East - NAD 27
Northing: 440052.20 ft
Easting: 675357.70 ft
RKB: 3564.00 ft
Ground Level: 3532.00 ft
North Reference: Grid
Convergence Angle: 0.30 Deg

Site: Pad 2
Slot: PLU 15 Twin Wells Ranch-214H

Plan Sections PLU 15 Twin Wells Ranch-214H

Measured Depth (ft)	Inclination (Deg)	Azimuth (Deg)	TVD RKB (ft)	Y Offset (ft)	X Offset (ft)	Build		Turn		Dogleg	
						Rate (Deg/100ft)	Rate	Rate (Deg/100ft)	Rate	Rate (Deg/100ft)	Rate
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2162.65	21.25	49.39	2138.45	126.81	147.92	2.00	2.00	0.00	0.00	2.00	2.00
5942.85	21.25	49.39	5661.55	1018.67	1188.22	0.00	0.00	0.00	0.00	0.00	0.00
7005.50	0.00	0.00	6700.00	1145.48	1336.14	-2.00	-2.00	0.00	0.00	2.00	2.00
8501.30	0.00	0.00	8195.80	1145.48	1336.14	0.00	0.00	0.00	0.00	0.00	0.00
9626.30	90.00	179.64	8912.00	429.30	1340.60	8.00	8.00	0.00	0.00	8.00	FTP 13
19990.30	90.00	179.64	8912.00	-9934.50	1405.10	0.00	0.00	0.00	0.00	0.00	LTP 13
20040.30	90.00	179.64	8912.00	-9984.50	1405.41	0.00	0.00	0.00	0.00	0.00	BHL 13

Position Uncertainty PLU 15 Twin Wells Ranch-214H

Measured	TVD	Highside	Lateral	Vertical	Magnitude	Semi-major	Semi-minor	Tool
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Depth (ft)	Inclination (°)	Azimuth (°)	RKB (ft)	Error (ft)	Bias (ft)	Error (ft)	Bias (ft)	Error (ft)	of Bias (ft)	Error (ft)	Error (ft)	Azimuth (°)	Used
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	MWD+IFR1+MS
100.000	0.000	0.000	100.000	0.700	0.000	0.350	0.000	2.300	0.000	0.751	0.220	112.264	MWD+IFR1+MS
200.000	0.000	0.000	200.000	1.112	0.000	0.861	0.000	2.310	0.000	1.259	0.627	122.711	MWD+IFR1+MS
300.000	0.000	0.000	300.000	1.497	0.000	1.271	0.000	2.326	0.000	1.698	0.986	125.469	MWD+IFR1+MS
400.000	0.000	0.000	400.000	1.871	0.000	1.658	0.000	2.348	0.000	2.108	1.344	126.713	MWD+IFR1+MS
500.000	0.000	0.000	500.000	2.240	0.000	2.034	0.000	2.375	0.000	2.503	1.701	127.419	MWD+IFR1+MS
600.000	0.000	0.000	600.000	2.607	0.000	2.405	0.000	2.408	0.000	2.888	2.059	127.873	MWD+IFR1+MS
700.000	0.000	0.000	700.000	2.971	0.000	2.773	0.000	2.446	0.000	3.267	2.417	128.190	MWD+IFR1+MS
800.000	0.000	0.000	800.000	3.334	0.000	3.138	0.000	2.488	0.000	3.642	2.775	128.423	MWD+IFR1+MS
900.000	0.000	0.000	900.000	3.696	0.000	3.502	0.000	2.535	0.000	4.014	3.133	128.602	MWD+IFR1+MS
1000.000	0.000	0.000	1000.000	4.058	0.000	3.865	0.000	2.585	0.000	4.384	3.491	128.744	MWD+IFR1+MS
1100.000	0.000	0.000	1100.000	4.419	0.000	4.228	0.000	2.639	0.000	4.752	3.849	128.859	MWD+IFR1+MS
1200.000	2.000	49.393	1199.980	5.261	0.000	4.245	0.000	2.696	0.000	5.274	4.232	133.350	MWD+IFR1+MS
1300.000	4.000	49.393	1299.838	6.009	0.000	4.635	0.000	2.756	0.000	6.019	4.635	-39.487	MWD+IFR1+MS
1400.000	6.000	49.393	1399.452	6.686	0.000	5.021	0.000	2.822	0.000	6.717	5.008	-36.008	MWD+IFR1+MS
1500.000	8.000	49.393	1498.702	7.310	0.000	5.404	0.000	2.895	0.000	7.369	5.373	-34.020	MWD+IFR1+MS
1600.000	10.000	49.393	1597.465	7.892	0.000	5.785	0.000	2.979	0.000	7.983	5.735	-32.749	MWD+IFR1+MS
1700.000	12.000	49.393	1695.623	8.441	0.000	6.167	0.000	3.073	0.000	8.565	6.099	-31.869	MWD+IFR1+MS
1800.000	14.000	49.393	1793.055	8.961	0.000	6.549	0.000	3.181	0.000	9.121	6.465	-31.222	MWD+IFR1+MS
1900.000	16.000	49.393	1889.643	9.456	0.000	6.935	0.000	3.305	0.000	9.655	6.836	-30.722	MWD+IFR1+MS
2000.000	18.000	49.393	1985.268	9.930	0.000	7.326	0.000	3.445	0.000	10.169	7.213	-30.315	MWD+IFR1+MS
2100.000	20.000	49.393	2079.816	10.386	0.000	7.723	0.000	3.602	0.000	10.667	7.598	-29.968	MWD+IFR1+MS
2162.649	21.253	49.393	2138.447	10.569	0.000	7.967	0.000	3.674	0.000	10.887	7.843	-29.927	MWD+IFR1+MS
2200.000	21.253	49.393	2173.258	10.675	0.000	8.111	0.000	3.709	0.000	10.986	7.990	-29.947	MWD+IFR1+MS
2300.000	21.253	49.393	2266.457	10.960	0.000	8.512	0.000	3.817	0.000	11.250	8.397	-29.861	MWD+IFR1+MS
2400.000	21.253	49.393	2359.656	11.263	0.000	8.930	0.000	3.935	0.000	11.534	8.817	-29.592	MWD+IFR1+MS
2500.000	21.253	49.393	2452.855	11.576	0.000	9.353	0.000	4.059	0.000	11.825	9.241	-29.309	MWD+IFR1+MS
2600.000	21.253	49.393	2546.054	11.897	0.000	9.780	0.000	4.187	0.000	12.123	9.668	-29.010	MWD+IFR1+MS
2700.000	21.253	49.393	2639.253	12.225	0.000	10.209	0.000	4.319	0.000	12.428	10.099	-28.693	MWD+IFR1+MS
2800.000	21.253	49.393	2732.451	12.560	0.000	10.642	0.000	4.456	0.000	12.739	10.533	-28.355	MWD+IFR1+MS
2900.000	21.253	49.393	2825.650	12.902	0.000	11.078	0.000	4.597	0.000	13.056	10.969	-27.993	MWD+IFR1+MS

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3000.000	21.253	49.393	2918.849	13.249	0.000	11.515	0.000	4.741	0.000	0.000	13.378	11.407	-27.602	MWD+IFR1+MS
3100.000	21.253	49.393	3012.048	13.602	0.000	11.955	0.000	4.888	0.000	0.000	13.706	11.848	-27.180	MWD+IFR1+MS
3200.000	21.253	49.393	3105.247	13.960	0.000	12.397	0.000	5.038	0.000	0.000	14.038	12.289	-26.720	MWD+IFR1+MS
3300.000	21.253	49.393	3198.446	14.322	0.000	12.840	0.000	5.191	0.000	0.000	14.374	12.733	-26.217	MWD+IFR1+MS
3400.000	21.253	49.393	3291.645	14.689	0.000	13.285	0.000	5.347	0.000	0.000	14.715	13.177	-25.662	MWD+IFR1+MS
3500.000	21.253	49.393	3384.844	15.060	0.000	13.731	0.000	5.505	0.000	0.000	15.059	13.622	-25.047	MWD+IFR1+MS
3600.000	21.253	49.393	3478.043	15.434	0.000	14.178	0.000	5.666	0.000	0.000	15.408	14.069	-24.360	MWD+IFR1+MS
3700.000	21.253	49.393	3571.242	15.812	0.000	14.627	0.000	5.828	0.000	0.000	15.760	14.516	-23.588	MWD+IFR1+MS
3800.000	21.253	49.393	3664.441	16.193	0.000	15.076	0.000	5.993	0.000	0.000	16.115	14.963	-22.712	MWD+IFR1+MS
3900.000	21.253	49.393	3757.639	16.577	0.000	15.526	0.000	6.160	0.000	0.000	16.474	15.411	-21.711	MWD+IFR1+MS
4000.000	21.253	49.393	3850.838	16.964	0.000	15.977	0.000	6.328	0.000	0.000	16.836	15.860	-20.557	MWD+IFR1+MS
4100.000	21.253	49.393	3944.037	17.353	0.000	16.429	0.000	6.499	0.000	0.000	17.201	16.308	-19.214	MWD+IFR1+MS
4200.000	21.253	49.393	4037.236	17.745	0.000	16.882	0.000	6.671	0.000	0.000	17.569	16.755	-17.636	MWD+IFR1+MS
4300.000	21.253	49.393	4130.435	18.139	0.000	17.335	0.000	6.844	0.000	0.000	17.942	17.202	-15.767	MWD+IFR1+MS
4400.000	21.253	49.393	4223.634	18.536	0.000	17.789	0.000	7.020	0.000	0.000	18.317	17.648	-13.534	MWD+IFR1+MS
4500.000	21.253	49.393	4316.833	18.934	0.000	18.243	0.000	7.197	0.000	0.000	18.698	18.092	-10.854	MWD+IFR1+MS
4600.000	21.253	49.393	4410.032	19.334	0.000	18.698	0.000	7.375	0.000	0.000	19.082	18.534	-7.635	MWD+IFR1+MS
4700.000	21.253	49.393	4503.231	19.736	0.000	19.154	0.000	7.555	0.000	0.000	19.473	18.973	-3.801	MWD+IFR1+MS
4800.000	21.253	49.393	4596.430	20.139	0.000	19.610	0.000	7.736	0.000	0.000	19.870	19.406	0.667	MWD+IFR1+MS
4900.000	21.253	49.393	4689.628	20.544	0.000	20.066	0.000	7.919	0.000	0.000	20.275	19.835	5.681	MWD+IFR1+MS
5000.000	21.253	49.393	4782.827	20.951	0.000	20.522	0.000	8.103	0.000	0.000	20.688	20.257	11.002	MWD+IFR1+MS
5100.000	21.253	49.393	4876.026	21.358	0.000	20.979	0.000	8.289	0.000	0.000	21.109	20.672	16.289	MWD+IFR1+MS
5200.000	21.253	49.393	4969.225	21.768	0.000	21.437	0.000	8.476	0.000	0.000	21.538	21.081	21.213	MWD+IFR1+MS
5300.000	21.253	49.393	5062.424	22.178	0.000	21.894	0.000	8.665	0.000	0.000	21.973	21.485	25.563	MWD+IFR1+MS
5400.000	21.253	49.393	5155.623	22.589	0.000	22.352	0.000	8.854	0.000	0.000	22.414	21.886	29.274	MWD+IFR1+MS
5500.000	21.253	49.393	5248.822	23.002	0.000	22.811	0.000	9.046	0.000	0.000	22.859	22.283	32.381	MWD+IFR1+MS
5600.000	21.253	49.393	5342.021	23.416	0.000	23.269	0.000	9.238	0.000	0.000	23.308	22.679	34.964	MWD+IFR1+MS
5700.000	21.253	49.393	5435.220	23.830	0.000	23.728	0.000	9.432	0.000	0.000	23.759	23.073	37.116	MWD+IFR1+MS
5800.000	21.253	49.393	5528.419	24.246	0.000	24.187	0.000	9.627	0.000	0.000	24.211	23.467	38.917	MWD+IFR1+MS
5900.000	21.253	49.393	5621.617	24.662	0.000	24.646	0.000	9.824	0.000	0.000	24.665	23.861	40.436	MWD+IFR1+MS
5942.849	21.253	49.393	5661.553	24.839	0.000	24.840	0.000	9.908	0.000	0.000	24.857	24.028	41.162	MWD+IFR1+MS
6000.000	20.110	49.393	5715.019	25.112	0.000	25.096	0.000	10.021	0.000	0.000	25.111	24.252	41.972	MWD+IFR1+MS
6100.000	18.110	49.393	5809.504	25.619	0.000	25.536	0.000	10.227	0.000	0.000	25.550	24.690	41.901	MWD+IFR1+MS

6200.000	16.110	49.393	5905.073	26.126	0.000	25.962	0.000	10.430	0.000	0.000	25.980	25.156	40.699	MWD+IFR1+MS
6300.000	14.110	49.393	6001.611	26.590	0.000	26.371	0.000	10.617	0.000	0.000	26.395	25.614	39.231	MWD+IFR1+MS
6400.000	12.110	49.393	6099.000	27.011	0.000	26.765	0.000	10.789	0.000	0.000	26.796	26.063	37.427	MWD+IFR1+MS
6500.000	10.110	49.393	6197.121	27.389	0.000	27.142	0.000	10.949	0.000	0.000	27.182	26.500	35.201	MWD+IFR1+MS
6600.000	8.110	49.393	6295.854	27.722	0.000	27.503	0.000	11.097	0.000	0.000	27.556	26.924	32.455	MWD+IFR1+MS
6700.000	6.110	49.393	6395.080	28.012	0.000	27.849	0.000	11.235	0.000	0.000	27.919	27.333	29.099	MWD+IFR1+MS
6800.000	4.110	49.393	6494.678	28.259	0.000	28.180	0.000	11.365	0.000	0.000	28.272	27.724	25.087	MWD+IFR1+MS
6900.000	2.110	49.393	6594.525	28.461	0.000	28.497	0.000	11.488	0.000	0.000	28.619	28.095	20.480	MWD+IFR1+MS
7005.498	0.000	0.000	6700.000	28.541	0.000	28.895	0.000	11.612	0.000	0.000	28.935	28.500	17.808	MWD+IFR1+MS
7100.000	0.000	0.000	6794.502	28.859	0.000	29.166	0.000	11.721	0.000	0.000	29.205	28.819	18.693	MWD+IFR1+MS
7200.000	0.000	0.000	6894.502	29.164	0.000	29.454	0.000	11.840	0.000	0.000	29.494	29.123	19.393	MWD+IFR1+MS
7300.000	0.000	0.000	6994.502	29.471	0.000	29.743	0.000	11.961	0.000	0.000	29.785	29.429	20.094	MWD+IFR1+MS
7400.000	0.000	0.000	7094.502	29.779	0.000	30.035	0.000	12.086	0.000	0.000	30.078	29.735	20.839	MWD+IFR1+MS
7500.000	0.000	0.000	7194.502	30.088	0.000	30.328	0.000	12.213	0.000	0.000	30.372	30.043	21.631	MWD+IFR1+MS
7600.000	0.000	0.000	7294.502	30.398	0.000	30.622	0.000	12.343	0.000	0.000	30.668	30.352	22.472	MWD+IFR1+MS
7700.000	0.000	0.000	7394.502	30.709	0.000	30.917	0.000	12.477	0.000	0.000	30.965	30.662	23.367	MWD+IFR1+MS
7800.000	0.000	0.000	7494.502	31.022	0.000	31.214	0.000	12.613	0.000	0.000	31.263	30.972	24.318	MWD+IFR1+MS
7900.000	0.000	0.000	7594.502	31.335	0.000	31.512	0.000	12.753	0.000	0.000	31.563	31.284	25.329	MWD+IFR1+MS
8000.000	0.000	0.000	7694.502	31.649	0.000	31.812	0.000	12.895	0.000	0.000	31.865	31.596	26.403	MWD+IFR1+MS
8100.000	0.000	0.000	7794.502	31.964	0.000	32.112	0.000	13.041	0.000	0.000	32.167	31.909	27.542	MWD+IFR1+MS
8200.000	0.000	0.000	7894.502	32.280	0.000	32.414	0.000	13.190	0.000	0.000	32.472	32.223	28.749	MWD+IFR1+MS
8300.000	0.000	0.000	7994.502	32.597	0.000	32.717	0.000	13.343	0.000	0.000	32.777	32.537	30.025	MWD+IFR1+MS
8400.000	0.000	0.000	8094.502	32.915	0.000	33.021	0.000	13.498	0.000	0.000	33.084	32.852	31.371	MWD+IFR1+MS
8501.301	0.000	0.000	8195.803	33.238	0.000	33.330	0.000	13.659	0.000	0.000	33.396	33.172	32.790	MWD+IFR1+MS
8600.000	7.896	179.643	8294.189	32.924	0.000	33.606	-0.000	13.827	0.000	0.000	33.831	33.553	63.694	MWD+IFR1+MS
8700.000	15.896	179.643	8391.962	33.075	0.000	33.860	-0.000	14.106	0.000	0.000	35.189	33.859	87.880	MWD+IFR1+MS
8800.000	23.896	179.643	8485.917	32.758	0.000	34.089	-0.000	14.600	0.000	0.000	36.436	34.089	90.112	MWD+IFR1+MS
8900.000	31.896	179.643	8574.225	32.033	0.000	34.292	-0.000	15.379	0.000	0.000	37.490	34.291	90.927	MWD+IFR1+MS
9000.000	39.896	179.643	8655.168	31.005	0.000	34.469	-0.000	16.470	0.000	0.000	38.340	34.465	91.403	MWD+IFR1+MS
9100.000	47.896	179.643	8727.169	29.803	0.000	34.621	-0.000	17.852	0.000	0.000	38.988	34.614	91.790	MWD+IFR1+MS
9200.000	55.896	179.643	8788.829	28.589	0.000	34.749	-0.000	19.475	0.000	0.000	39.447	34.739	92.185	MWD+IFR1+MS
9300.000	63.896	179.643	8838.945	27.549	0.000	34.856	-0.000	21.271	0.000	0.000	39.741	34.841	92.642	MWD+IFR1+MS
9400.000	71.896	179.643	8876.544	26.876	0.000	34.942	-0.000	23.168	0.000	0.000	39.900	34.921	93.192	MWD+IFR1+MS

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9500.000	79.896	179.643	8900.892	26.739	0.000	35.008	-0.000	25.096	0.000	0.000	39.964	34.979	93.848	MWD+IFR1+MS
9600.000	87.896	179.643	8911.517	27.238	0.000	35.055	-0.000	26.992	0.000	0.000	39.980	35.015	94.596	MWD+IFR1+MS
9626.301	90.000	179.643	8912.000	27.105	0.000	35.062	-0.000	27.105	0.000	0.000	39.983	35.019	94.796	MWD+IFR1+MS
9700.000	90.000	179.643	8912.000	27.324	0.000	35.087	-0.000	27.324	0.000	0.000	39.992	35.034	95.379	MWD+IFR1+MS
9800.000	90.000	179.643	8912.000	27.616	0.000	35.145	-0.000	27.616	0.000	0.000	40.006	35.076	96.200	MWD+IFR1+MS
9900.000	90.000	179.643	8912.000	27.928	0.000	35.227	-0.000	27.928	0.000	0.000	40.022	35.140	97.060	MWD+IFR1+MS
10000.000	90.000	179.643	8912.000	28.259	0.000	35.330	-0.000	28.259	0.000	0.000	40.042	35.222	97.969	MWD+IFR1+MS
10100.000	90.000	179.643	8912.000	28.607	0.000	35.454	-0.000	28.607	0.000	0.000	40.065	35.323	98.936	MWD+IFR1+MS
10200.000	90.000	179.643	8912.000	28.972	0.000	35.601	-0.000	28.972	0.000	0.000	40.091	35.442	99.975	MWD+IFR1+MS
10300.000	90.000	179.643	8912.000	29.354	0.000	35.768	-0.000	29.354	0.000	0.000	40.122	35.578	101.099	MWD+IFR1+MS
10400.000	90.000	179.643	8912.000	29.751	0.000	35.956	-0.000	29.751	0.000	0.000	40.158	35.730	102.324	MWD+IFR1+MS
10500.000	90.000	179.643	8912.000	30.164	0.000	36.164	-0.000	30.164	0.000	0.000	40.199	35.897	103.669	MWD+IFR1+MS
10600.000	90.000	179.643	8912.000	30.591	0.000	36.393	-0.000	30.591	0.000	0.000	40.246	36.079	105.153	MWD+IFR1+MS
10700.000	90.000	179.643	8912.000	31.033	0.000	36.641	-0.000	31.033	0.000	0.000	40.301	36.273	106.801	MWD+IFR1+MS
10800.000	90.000	179.643	8912.000	31.487	0.000	36.909	-0.000	31.487	0.000	0.000	40.366	36.478	108.637	MWD+IFR1+MS
10900.000	90.000	179.643	8912.000	31.955	0.000	37.195	-0.000	31.955	0.000	0.000	40.441	36.691	110.688	MWD+IFR1+MS
11000.000	90.000	179.643	8912.000	32.434	0.000	37.501	-0.000	32.434	0.000	0.000	40.529	36.910	112.979	MWD+IFR1+MS
11100.000	90.000	179.643	8912.000	32.926	0.000	37.824	-0.000	32.926	0.000	0.000	40.632	37.131	115.529	MWD+IFR1+MS
11200.000	90.000	179.643	8912.000	33.428	0.000	38.164	-0.000	33.428	0.000	0.000	40.754	37.353	118.348	MWD+IFR1+MS
11300.000	90.000	179.643	8912.000	33.942	0.000	38.522	-0.000	33.942	0.000	0.000	40.898	37.570	121.428	MWD+IFR1+MS
11400.000	90.000	179.643	8912.000	34.465	0.000	38.897	-0.000	34.465	0.000	0.000	41.067	37.780	124.736	MWD+IFR1+MS
11500.000	90.000	179.643	8912.000	34.999	0.000	39.288	-0.000	34.999	0.000	0.000	41.263	37.978	128.212	MWD+IFR1+MS
11600.000	90.000	179.643	8912.000	35.541	0.000	39.694	-0.000	35.541	0.000	0.000	41.491	38.162	131.770	MWD+IFR1+MS
11700.000	90.000	179.643	8912.000	36.093	0.000	40.116	-0.000	36.093	0.000	0.000	41.749	38.329	-44.690	MWD+IFR1+MS
11800.000	90.000	179.643	8912.000	36.653	0.000	40.552	-0.000	36.653	0.000	0.000	42.041	38.480	-41.266	MWD+IFR1+MS
11900.000	90.000	179.643	8912.000	37.221	0.000	41.003	-0.000	37.221	0.000	0.000	42.363	38.614	-38.036	MWD+IFR1+MS
12000.000	90.000	179.643	8912.000	37.797	0.000	41.467	-0.000	37.797	0.000	0.000	42.716	38.731	-35.054	MWD+IFR1+MS
12100.000	90.000	179.643	8912.000	38.380	0.000	41.945	-0.000	38.380	0.000	0.000	43.097	38.835	-32.346	MWD+IFR1+MS
12200.000	90.000	179.643	8912.000	38.971	0.000	42.435	-0.000	38.971	0.000	0.000	43.504	38.927	-29.913	MWD+IFR1+MS
12300.000	90.000	179.643	8912.000	39.568	0.000	42.939	-0.000	39.568	0.000	0.000	43.934	39.008	-27.744	MWD+IFR1+MS
12400.000	90.000	179.643	8912.000	40.172	0.000	43.454	-0.000	40.172	0.000	0.000	44.385	39.080	-25.816	MWD+IFR1+MS
12500.000	90.000	179.643	8912.000	40.781	0.000	43.981	-0.000	40.781	0.000	0.000	44.857	39.144	-24.104	MWD+IFR1+MS
12600.000	90.000	179.643	8912.000	41.397	0.000	44.519	-0.000	41.397	0.000	0.000	45.346	39.202	-22.583	MWD+IFR1+MS

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12700.000	90.000	179.643	8912.000	42.018	0.000	45.067	-0.000	42.018	0.000	45.851	39.256	-21.229	MWD+IFR1+MS
12800.000	90.000	179.643	8912.000	42.645	0.000	45.626	-0.000	42.645	0.000	46.372	39.305	-20.020	MWD+IFR1+MS
12900.000	90.000	179.643	8912.000	43.277	0.000	46.196	-0.000	43.277	0.000	46.906	39.350	-18.937	MWD+IFR1+MS
13000.000	90.000	179.643	8912.000	43.914	0.000	46.774	-0.000	43.914	0.000	47.454	39.392	-17.963	MWD+IFR1+MS
13100.000	90.000	179.643	8912.000	44.555	0.000	47.363	-0.000	44.555	0.000	48.014	39.433	-17.084	MWD+IFR1+MS
13200.000	90.000	179.643	8912.000	45.201	0.000	47.960	-0.000	45.201	0.000	48.586	39.471	-16.287	MWD+IFR1+MS
13300.000	90.000	179.643	8912.000	45.852	0.000	48.565	-0.000	45.852	0.000	49.168	39.507	-15.562	MWD+IFR1+MS
13400.000	90.000	179.643	8912.000	46.506	0.000	49.179	-0.000	46.506	0.000	49.761	39.542	-14.901	MWD+IFR1+MS
13500.000	90.000	179.643	8912.000	47.165	0.000	49.801	-0.000	47.165	0.000	50.363	39.576	-14.295	MWD+IFR1+MS
13600.000	90.000	179.643	8912.000	47.827	0.000	50.431	-0.000	47.827	0.000	50.975	39.608	-13.739	MWD+IFR1+MS
13700.000	90.000	179.643	8912.000	48.493	0.000	51.068	-0.000	48.493	0.000	51.595	39.641	-13.226	MWD+IFR1+MS
13800.000	90.000	179.643	8912.000	49.162	0.000	51.713	-0.000	49.162	0.000	52.224	39.672	-12.752	MWD+IFR1+MS
13900.000	90.000	179.643	8912.000	49.835	0.000	52.364	-0.000	49.835	0.000	52.860	39.703	-12.312	MWD+IFR1+MS
14000.000	90.000	179.643	8912.000	50.511	0.000	53.022	-0.000	50.511	0.000	53.505	39.733	-11.903	MWD+IFR1+MS
14100.000	90.000	179.643	8912.000	51.190	0.000	53.686	-0.000	51.190	0.000	54.156	39.764	-11.523	MWD+IFR1+MS
14200.000	90.000	179.643	8912.000	51.873	0.000	54.356	-0.000	51.873	0.000	54.814	39.794	-11.167	MWD+IFR1+MS
14300.000	90.000	179.643	8912.000	52.558	0.000	55.032	-0.000	52.558	0.000	55.479	39.823	-10.834	MWD+IFR1+MS
14400.000	90.000	179.643	8912.000	53.245	0.000	55.714	-0.000	53.245	0.000	56.150	39.853	-10.522	MWD+IFR1+MS
14500.000	90.000	179.643	8912.000	53.936	0.000	56.402	-0.000	53.936	0.000	56.827	39.883	-10.229	MWD+IFR1+MS
14600.000	90.000	179.643	8912.000	54.629	0.000	57.095	-0.000	54.629	0.000	57.510	39.913	-9.952	MWD+IFR1+MS
14700.000	90.000	179.643	8912.000	55.324	0.000	57.793	-0.000	55.324	0.000	58.199	39.942	-9.692	MWD+IFR1+MS
14800.000	90.000	179.643	8912.000	56.022	0.000	58.496	-0.000	56.022	0.000	58.893	39.972	-9.445	MWD+IFR1+MS
14900.000	90.000	179.643	8912.000	56.722	0.000	59.203	-0.000	56.722	0.000	59.592	40.002	-9.212	MWD+IFR1+MS
15000.000	90.000	179.643	8912.000	57.424	0.000	59.915	-0.000	57.424	0.000	60.297	40.032	-8.991	MWD+IFR1+MS
15100.000	90.000	179.643	8912.000	58.129	0.000	60.632	-0.000	58.129	0.000	61.006	40.062	-8.781	MWD+IFR1+MS
15200.000	90.000	179.643	8912.000	58.835	0.000	61.353	-0.000	58.835	0.000	61.719	40.093	-8.582	MWD+IFR1+MS
15300.000	90.000	179.643	8912.000	59.543	0.000	62.078	-0.000	59.543	0.000	62.437	40.123	-8.392	MWD+IFR1+MS
15400.000	90.000	179.643	8912.000	60.254	0.000	62.807	-0.000	60.254	0.000	63.159	40.154	-8.211	MWD+IFR1+MS
15500.000	90.000	179.643	8912.000	60.966	0.000	63.540	-0.000	60.966	0.000	63.886	40.185	-8.039	MWD+IFR1+MS
15600.000	90.000	179.643	8912.000	61.679	0.000	64.276	-0.000	61.679	0.000	64.616	40.217	-7.874	MWD+IFR1+MS
15700.000	90.000	179.643	8912.000	62.395	0.000	65.016	-0.000	62.395	0.000	65.350	40.248	-7.716	MWD+IFR1+MS
15800.000	90.000	179.643	8912.000	63.112	0.000	65.760	-0.000	63.112	0.000	66.088	40.280	-7.565	MWD+IFR1+MS
15900.000	90.000	179.643	8912.000	63.831	0.000	66.507	-0.000	63.831	0.000	66.829	40.312	-7.421	MWD+IFR1+MS

16000.000	90.000	179.643	8912.000	64.551	0.000	67.257	-0.000	64.551	0.000	67.574	40.345	-7.282	MWD+IFR1+MS
16100.000	90.000	179.643	8912.000	65.273	0.000	68.011	-0.000	65.273	0.000	68.322	40.378	-7.149	MWD+IFR1+MS
16200.000	90.000	179.643	8912.000	65.996	0.000	68.767	-0.000	65.996	0.000	69.073	40.411	-7.021	MWD+IFR1+MS
16300.000	90.000	179.643	8912.000	66.721	0.000	69.526	-0.000	66.721	0.000	69.828	40.444	-6.898	MWD+IFR1+MS
16400.000	90.000	179.643	8912.000	67.447	0.000	70.288	-0.000	67.447	0.000	70.585	40.478	-6.780	MWD+IFR1+MS
16500.000	90.000	179.643	8912.000	68.174	0.000	71.053	-0.000	68.174	0.000	71.346	40.512	-6.666	MWD+IFR1+MS
16600.000	90.000	179.643	8912.000	68.903	0.000	71.821	-0.000	68.903	0.000	72.109	40.547	-6.556	MWD+IFR1+MS
16700.000	90.000	179.643	8912.000	69.633	0.000	72.591	-0.000	69.633	0.000	72.874	40.582	-6.450	MWD+IFR1+MS
16800.000	90.000	179.643	8912.000	70.364	0.000	73.363	-0.000	70.364	0.000	73.643	40.617	-6.348	MWD+IFR1+MS
16900.000	90.000	179.643	8912.000	71.096	0.000	74.138	-0.000	71.096	0.000	74.414	40.652	-6.249	MWD+IFR1+MS
17000.000	90.000	179.643	8912.000	71.829	0.000	74.915	-0.000	71.829	0.000	75.187	40.688	-6.153	MWD+IFR1+MS
17100.000	90.000	179.643	8912.000	72.563	0.000	75.695	-0.000	72.563	0.000	75.963	40.724	-6.061	MWD+IFR1+MS
17200.000	90.000	179.643	8912.000	73.298	0.000	76.477	-0.000	73.298	0.000	76.741	40.761	-5.972	MWD+IFR1+MS
17300.000	90.000	179.643	8912.000	74.035	0.000	77.261	-0.000	74.035	0.000	77.521	40.798	-5.885	MWD+IFR1+MS
17400.000	90.000	179.643	8912.000	74.772	0.000	78.047	-0.000	74.772	0.000	78.304	40.835	-5.802	MWD+IFR1+MS
17500.000	90.000	179.643	8912.000	75.510	0.000	78.835	-0.000	75.510	0.000	79.088	40.873	-5.720	MWD+IFR1+MS
17600.000	90.000	179.643	8912.000	76.250	0.000	79.624	-0.000	76.250	0.000	79.875	40.911	-5.642	MWD+IFR1+MS
17700.000	90.000	179.643	8912.000	76.990	0.000	80.416	-0.000	76.990	0.000	80.663	40.950	-5.565	MWD+IFR1+MS
17800.000	90.000	179.643	8912.000	77.731	0.000	81.210	-0.000	77.731	0.000	81.454	40.989	-5.491	MWD+IFR1+MS
17900.000	90.000	179.643	8912.000	78.473	0.000	82.005	-0.000	78.473	0.000	82.246	41.028	-5.419	MWD+IFR1+MS
18000.000	90.000	179.643	8912.000	79.215	0.000	82.802	-0.000	79.215	0.000	83.040	41.068	-5.350	MWD+IFR1+MS
18100.000	90.000	179.643	8912.000	79.959	0.000	83.601	-0.000	79.959	0.000	83.836	41.108	-5.282	MWD+IFR1+MS
18200.000	90.000	179.643	8912.000	80.703	0.000	84.402	-0.000	80.703	0.000	84.634	41.148	-5.216	MWD+IFR1+MS
18300.000	90.000	179.643	8912.000	81.448	0.000	85.204	-0.000	81.448	0.000	85.433	41.189	-5.151	MWD+IFR1+MS
18400.000	90.000	179.643	8912.000	82.194	0.000	86.007	-0.000	82.194	0.000	86.234	41.230	-5.089	MWD+IFR1+MS
18500.000	90.000	179.643	8912.000	82.940	0.000	86.812	-0.000	82.940	0.000	87.036	41.272	-5.028	MWD+IFR1+MS
18600.000	90.000	179.643	8912.000	83.688	0.000	87.619	-0.000	83.688	0.000	87.840	41.314	-4.969	MWD+IFR1+MS
18700.000	90.000	179.643	8912.000	84.435	0.000	88.427	-0.000	84.435	0.000	88.645	41.356	-4.911	MWD+IFR1+MS
18800.000	90.000	179.643	8912.000	85.184	0.000	89.236	-0.000	85.184	0.000	89.452	41.399	-4.855	MWD+IFR1+MS
18900.000	90.000	179.643	8912.000	85.933	0.000	90.046	-0.000	85.933	0.000	90.261	41.442	-4.800	MWD+IFR1+MS
19000.000	90.000	179.643	8912.000	86.683	0.000	90.858	-0.000	86.683	0.000	91.070	41.486	-4.746	MWD+IFR1+MS
19100.000	90.000	179.643	8912.000	87.433	0.000	91.672	-0.000	87.433	0.000	91.881	41.530	-4.694	MWD+IFR1+MS
19200.000	90.000	179.643	8912.000	88.184	0.000	92.486	-0.000	88.184	0.000	92.693	41.574	-4.643	MWD+IFR1+MS

19300.000	90.000	179.643	8912.000	88.936	0.000	93.302	-0.000	88.936	0.000	0.000	93.507	41.619	-4.594	MWD+IFR1+MS
19400.000	90.000	179.643	8912.000	89.688	0.000	94.119	-0.000	89.688	0.000	0.000	94.321	41.664	-4.545	MWD+IFR1+MS
19500.000	90.000	179.643	8912.000	90.441	0.000	94.936	-0.000	90.441	0.000	0.000	95.137	41.709	-4.498	MWD+IFR1+MS
19600.000	90.000	179.643	8912.000	91.194	0.000	95.756	-0.000	91.194	0.000	0.000	95.954	41.755	-4.451	MWD+IFR1+MS
19700.000	90.000	179.643	8912.000	91.948	0.000	96.576	-0.000	91.948	0.000	0.000	96.772	41.801	-4.406	MWD+IFR1+MS
19800.000	90.000	179.643	8912.000	92.702	0.000	97.397	-0.000	92.702	0.000	0.000	97.591	41.848	-4.362	MWD+IFR1+MS
19900.000	90.000	179.643	8912.000	93.457	0.000	98.219	-0.000	93.457	0.000	0.000	98.412	41.895	-4.318	MWD+IFR1+MS
19990.302	90.000	179.643	8912.000	94.139	0.000	98.962	-0.000	94.139	0.000	0.000	99.153	41.938	-4.280	MWD+IFR1+MS
20000.000	90.000	179.643	8912.000	94.212	0.000	99.041	-0.000	94.212	0.000	0.000	99.232	41.942	-4.276	MWD+IFR1+MS
20040.301	90.000	179.643	8912.000	94.516	0.000	99.372	-0.000	94.516	0.000	0.000	99.562	41.962	-4.260	MWD+IFR1+MS

PLU 15 Twin Wells Ranch-214H

Plan Targets											
Target Name	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape						
FTP 13	9626.30	440481.50	676698.30	5348.00	CIRCLE						
LTP 13	19990.30	430117.70	676762.80	5348.00	CIRCLE						
BHL 13	20040.31	430067.70	676763.10	5348.00	CIRCLE						

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

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

No visible leaks.

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

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

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

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

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

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

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

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

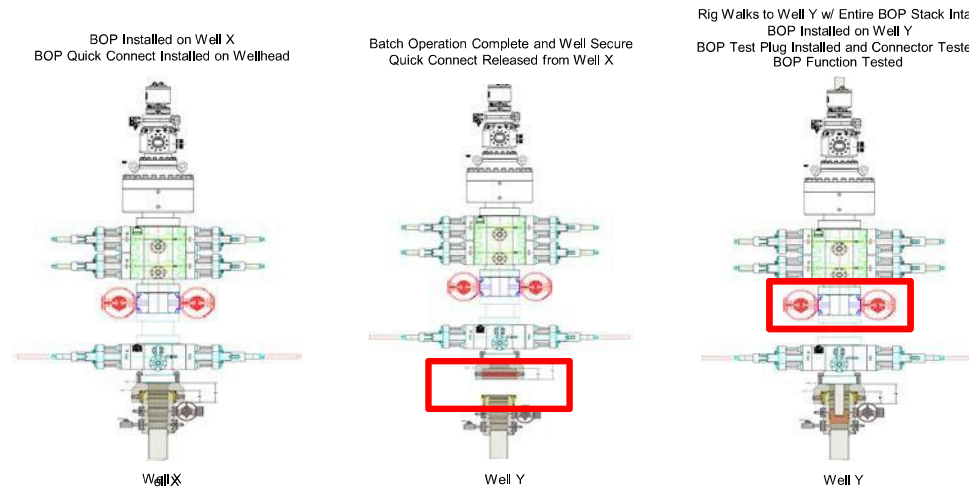
each BOP nipple up, XTO Energy performs a choke drill with the rig crew prior to drilling out every casing shoe. This is additional training for the rig crew that exceeds the requirements of the CFR Title 43 Part 3170.

Procedures

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

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

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



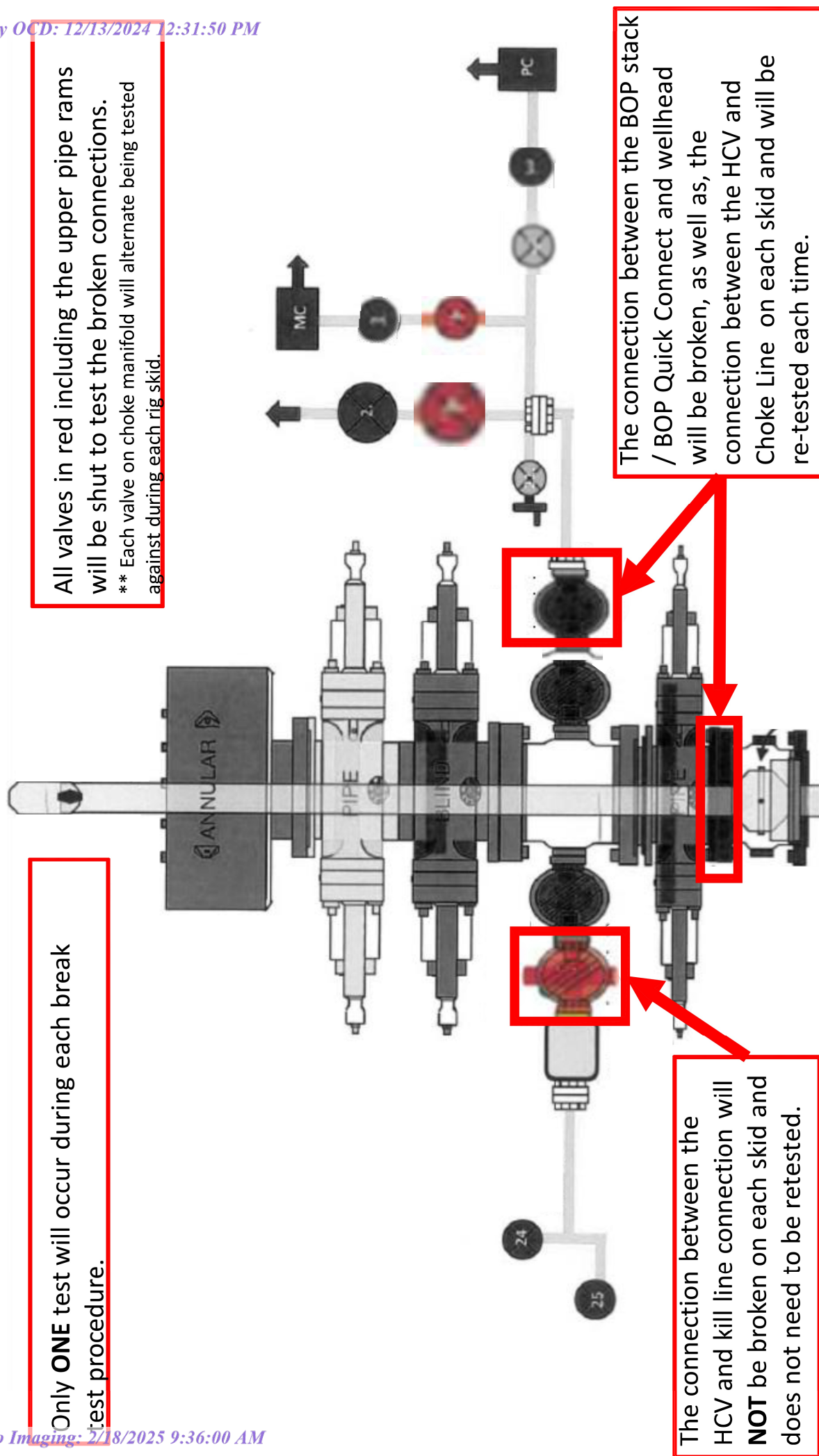
Summary

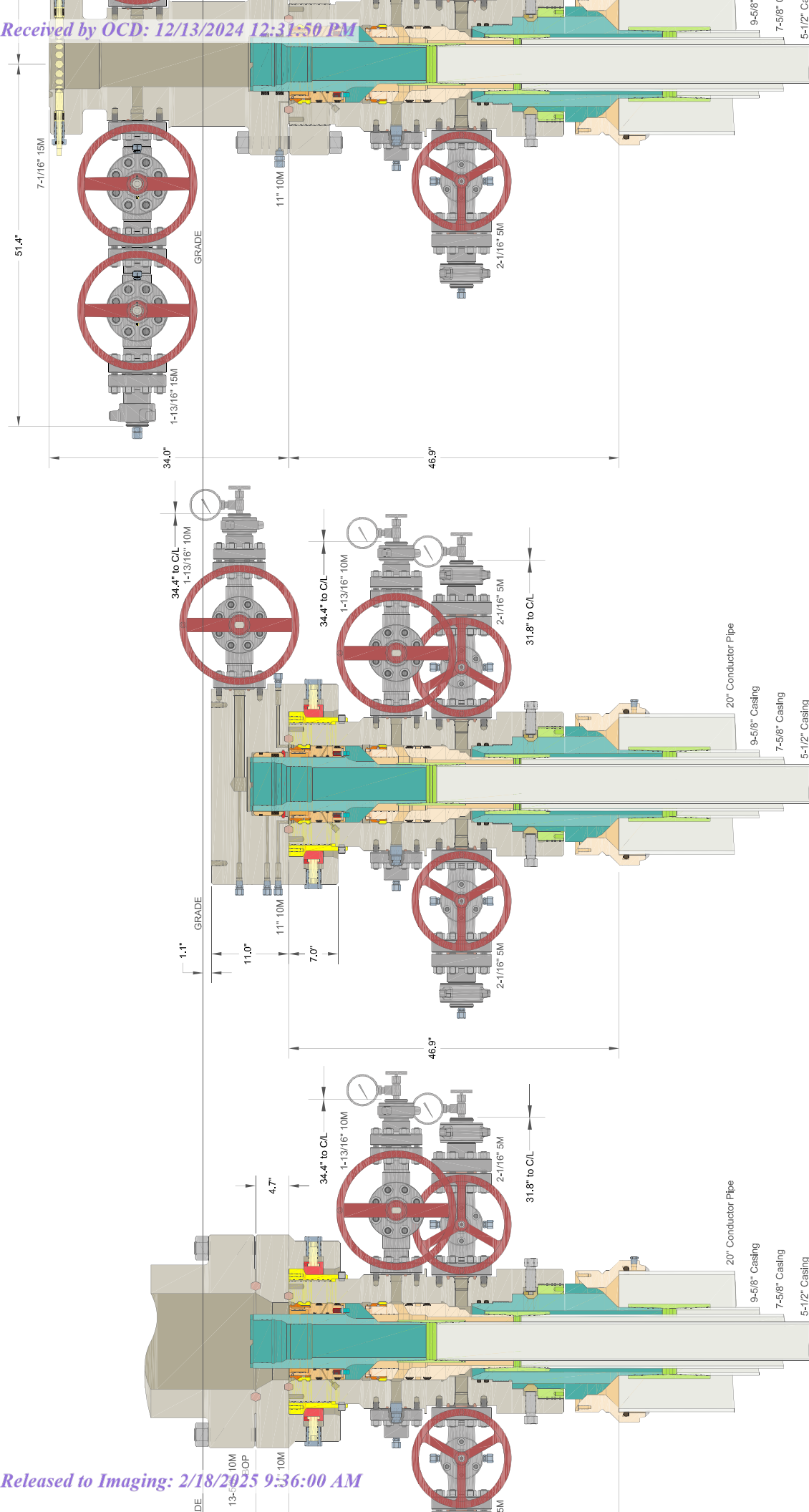
A variance is requested to **ONLY** test broken pressure seals on the BOP equipment when moving from wellhead to wellhead which is in compliance with API Standard 53. API Standard 53 states, that for pad drilling operation, moving from one wellhead to another within 21 days, pressure testing is required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

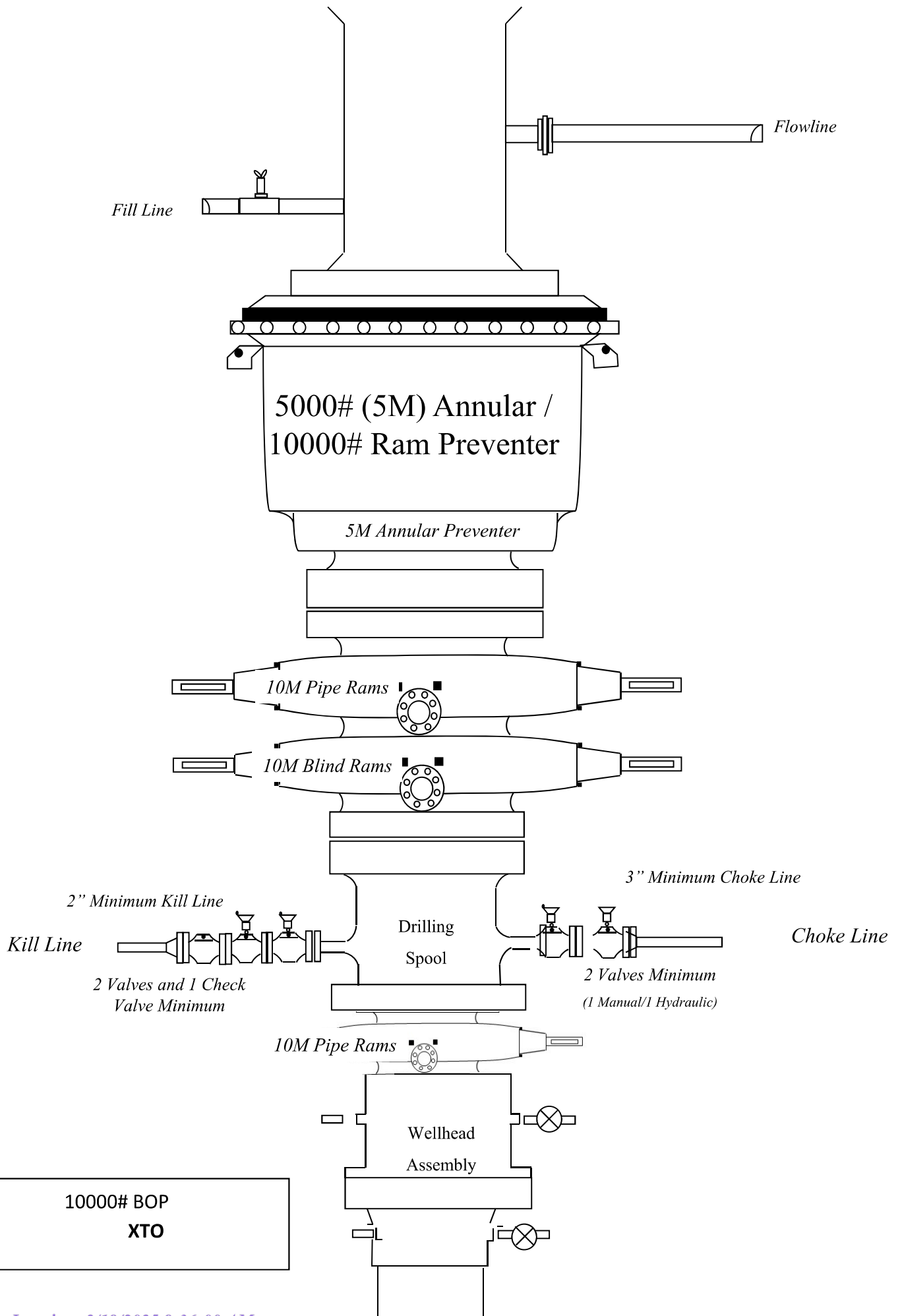
The BOP will be secured by a hydraulic carrier or cradle. The BLM will be contacted if a Well Control event occurs prior to the commencement of a BOPE Break Testing operation.

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

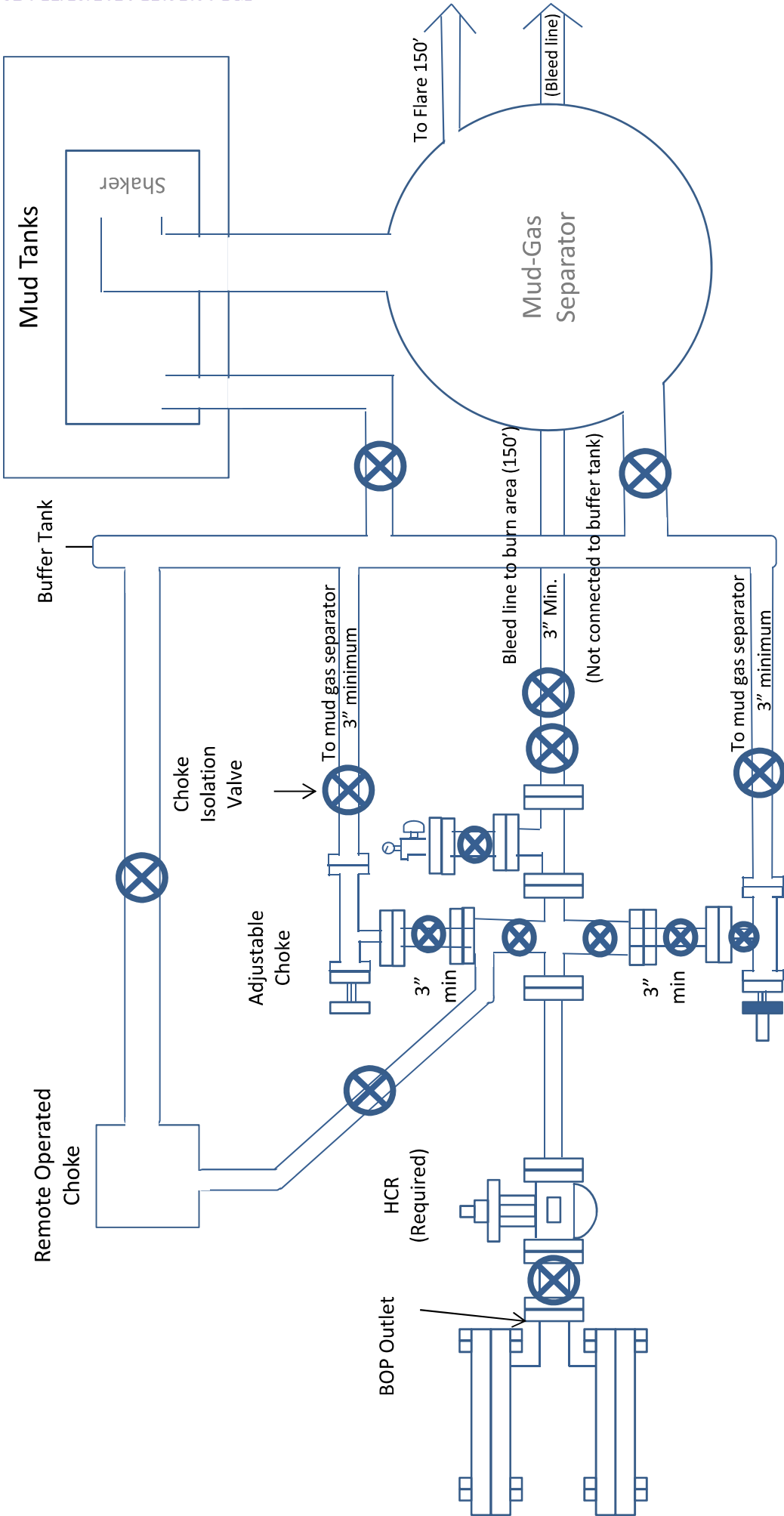
1. After a full BOP test is conducted on the first well on the pad.
2. The first intermediate hole section drilled on the pad will be the deepest. All of the remaining hole sections will be the same depth or shallower.
3. Full BOP test will be required if the intermediate hole section being drilled has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







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®



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

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

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XTO Permian Operating, LLC Offline Cementing Variance Request

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

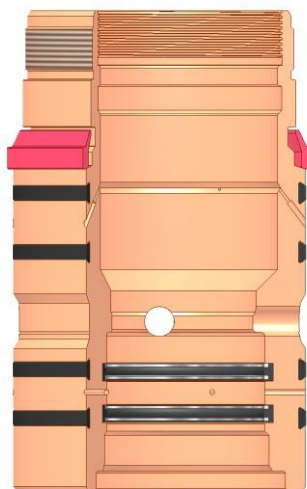
1. Cement Program

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

2. Offline Cementing Procedure

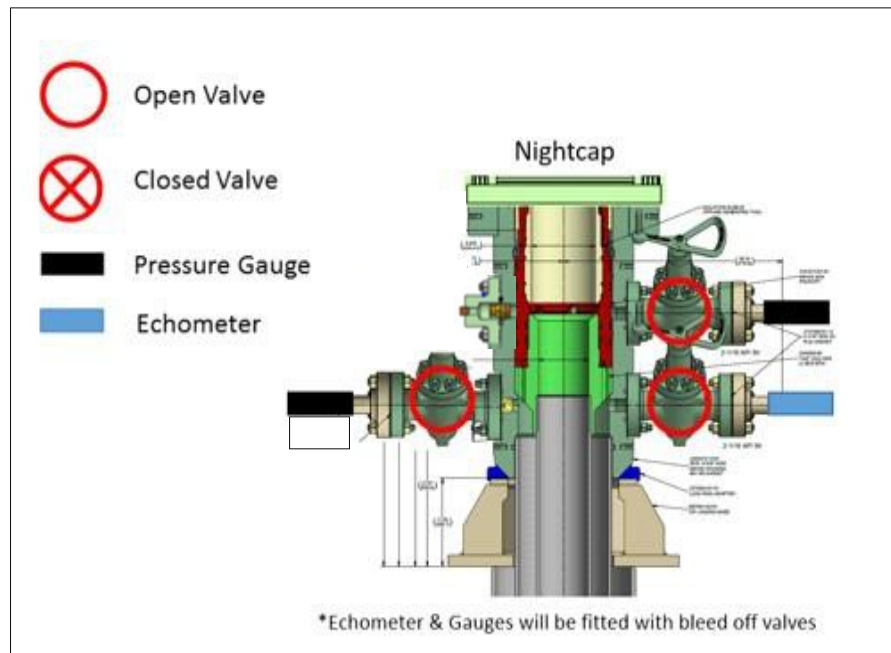
The operational sequence will be as follows. If a well control event occurs, the BLM will be contacted for approval prior to conducting offline cementing operations.

1. Run casing as per normal operations. While running casing, conduct negative pressure test and confirm integrity of the float equipment (float collar and shoe)
2. Land casing with mandrel
3. Fill pipe with kill weight fluid, do not circulate through floats and confirm well is static
4. Set annular packoff shown below and pressure test to confirm integrity of the seal. Pressure ratings of wellhead components and valves is 5,000 psi.
5. After confirmation of both annular barriers and internal barriers, nipple down BOP and install cap flange.
 - a. If any barrier fails to test, the BOP stack will not be 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.



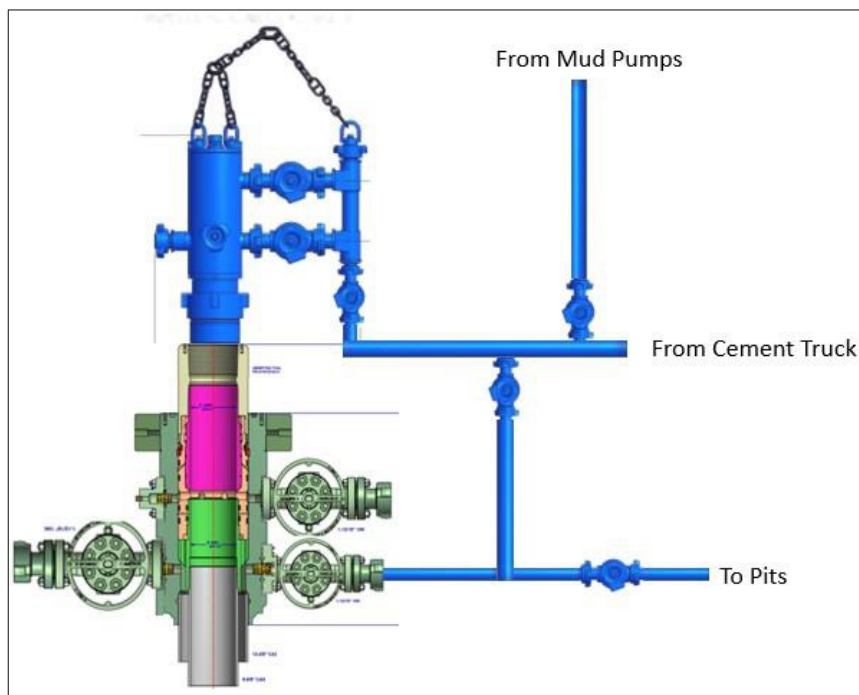
Annular packoff with both external and internal seals

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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

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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

				
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

- 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).
- Joint efficiencies are calculated by dividing the connection critical area by the pipe body area.
- Uniaxial bend rating shown is structural only.
- 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 Nominal Linear Weight, T&C with a 1.5 Safety factor.
- Coupling must meet minimum mechanical properties of the pipe.

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Houston, TX. 77086

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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. Cismos***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:

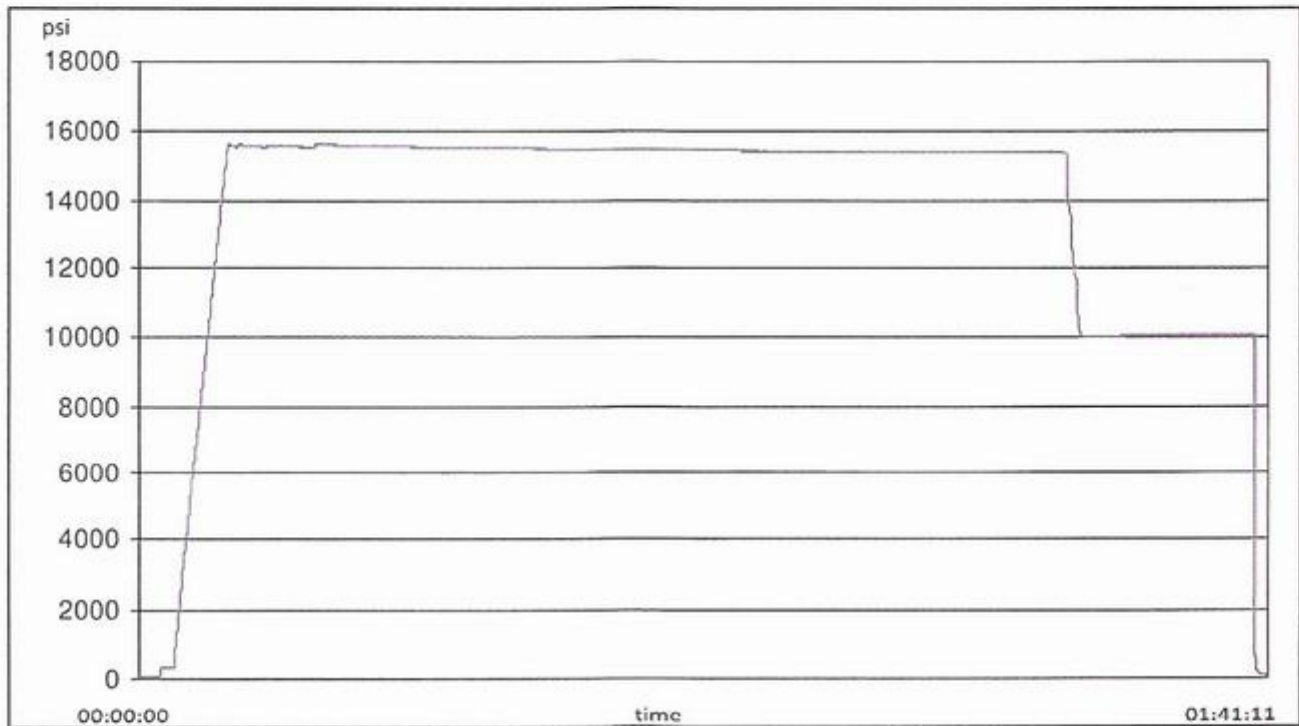
Visual check:

Pressure test result: PASS

Length measurement result:

Length: 45 feet

Test operator: Travis





H3-15/16

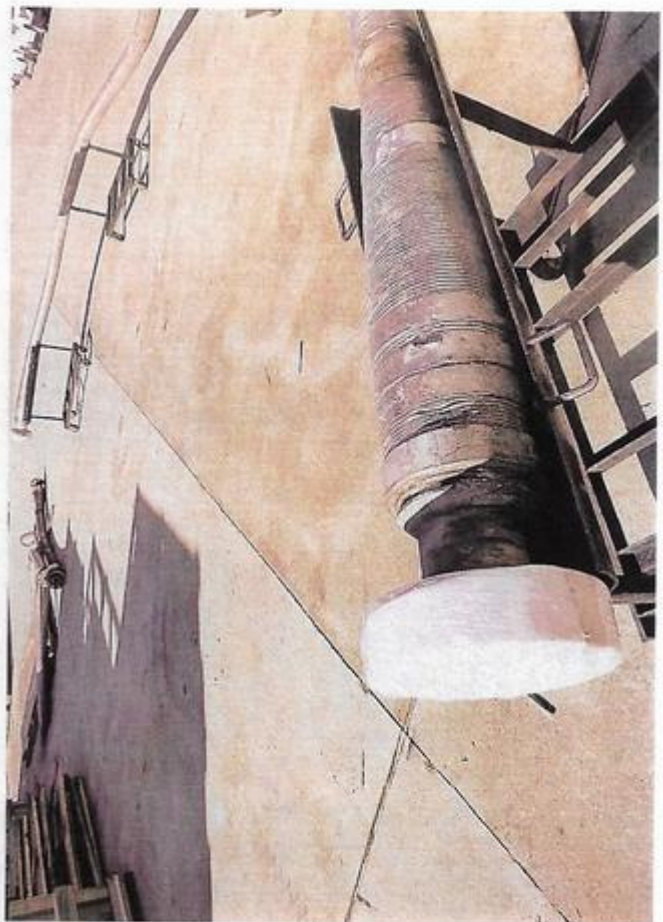
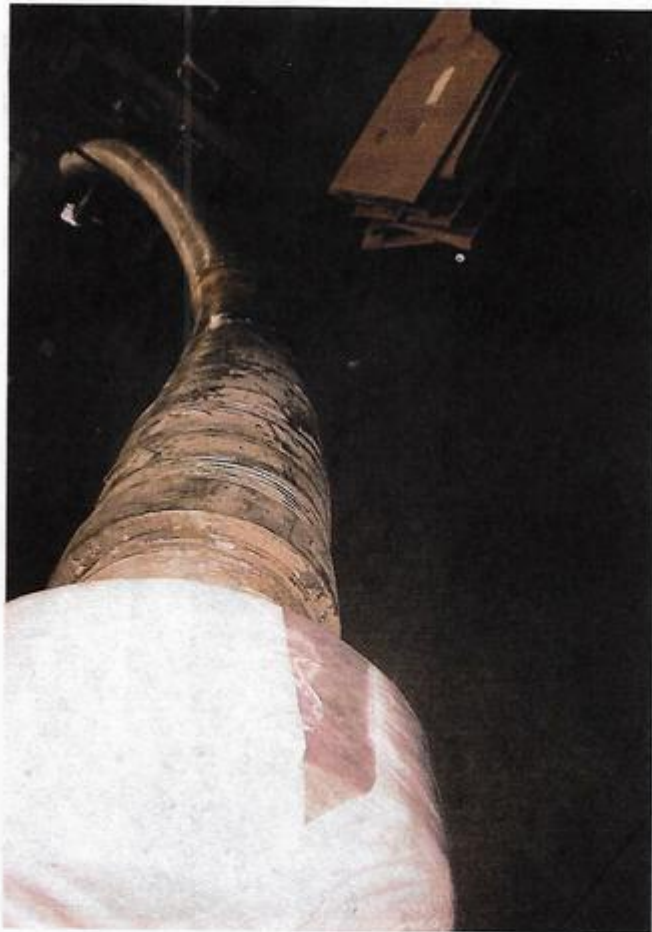
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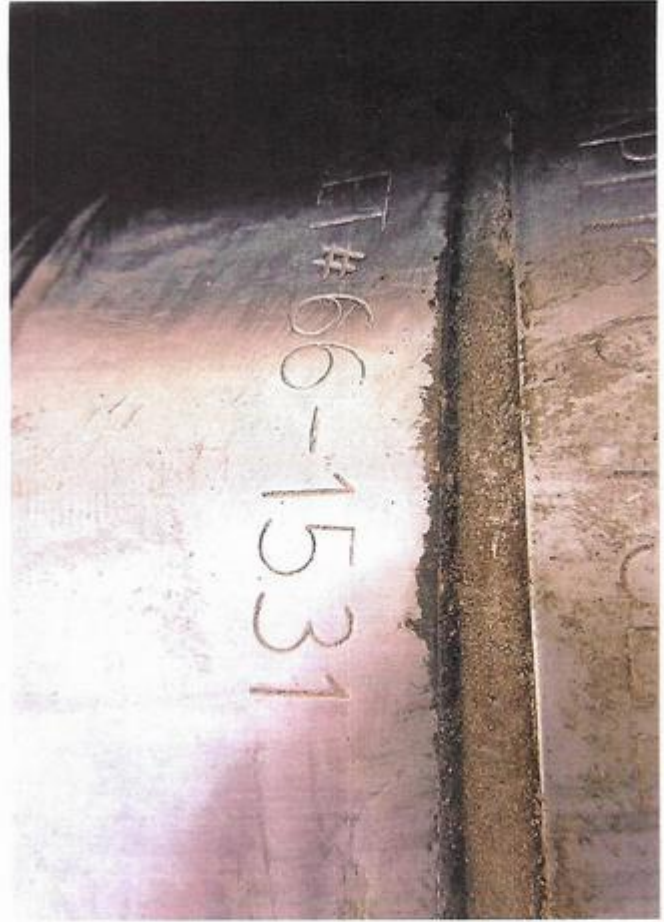
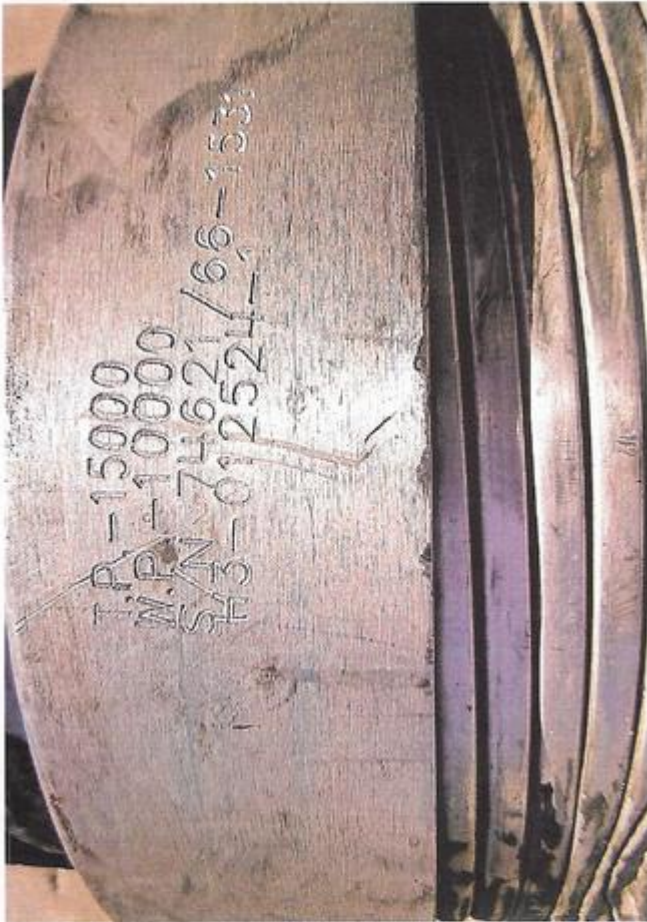
TEST REPORT

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





QC APPROVED BY POSSIBILITY™

Gates

I.D.: 3" LENGTH: 45'

GRADE: 166 ^{11/16"} END FITTING: 1 1/4" 10K Flange E/F

W#: H3-012524-1

CUST NAME: Nalco DOC#: 528450

NOTES: 10.15582803 SN: 74621 ASSET 66-1531

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

General Information
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 411823

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 411823
	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.	2/18/2025