Well Number: 173H

Type of Well: CONVENTIONAL GAS WELL

Allottee or Tribe Name:

Lease Number: NMNM068905

Unit or CA Name:

Unit or CA Number:

US Well Number: 3001549879

Operator: XTO PERMIAN OPERATING LLC

Notice of Intent

Sundry ID: 2785988

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 04/19/2024

Time Sundry Submitted: 01:09

Date proposed operation will begin: 05/03/2024

Procedure Description: XTO Permian Operating, LLC. respectfully requests approval to make the following changes to the approved APD. Changes to include SHL, FTP, LTP, BHL, Casing sizes, Cement, Proposed total Depth, and formation (Pool). FROM: TO: SHL: 203' FNL & 1626' FWL OF SECTION 22-T24S-R30E 13' FNL & 1624' FWL OF SECTION 22-T24S-R30E FTP: 100' FSL & 1770' FWL OF SECTION 15-T24S-R30E 100' FNL & 1733' FWL OF SECTION 22-T24S-R30E LTP: 328' FNL & 1769' FWL OF SECTION 3-T24S-R30E 2537' FNL & 1733' FWL OF SECTION 34-T24S-R30E BHL: 198' FNL & 1769' FWL OF SECTION 3-T24S-R30E 2627' FNL & 1733' FWL OF SECTION 34-T24S-R30E The proposed total depth is changing from 27063' MD; 11191' TVD (Jennings/Wolfcamp (Gas)) to 23904' MD; 11138' TVD (Wolfcamp X/Y). See attached Drilling Plan for updated cement and casing program. A saturated salt brine will be utilized while drilling through the salt formations Attachments: C-102, Drilling Plan, Directional Plan, MBS, BOP Variance, and Well Control Plan. Break Testing, Talon/Freedom Spec sheet. Spudder Rig No additional Surface disturbance

NOI Attachments

Procedure Description

PLU_22_DTD_173H_Sundry_Document_20241023070625.pdf

US Well Number: 3001549879 **Operator:** XTO PERMIAN OPERATING LLC

Conditions of Approval

Additional

Poker_Lake_Unit_22_DTD_173H_COA_20241106111749.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: RICHARD REDUS **Signed on:** OCT 23, 2024 07:06 AM

Name: XTO PERMIAN OPERATING LLC

Title: Permitting Manager

Street Address: 22777 SPRINGWOODS VILLAGE PARKWAY

City: SPRING **State:** TX

Phone: (720) 539-1673

Email address: RICHARD.L.REDUS@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:** 11/06/2024

Signature: Cody R. Layton

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE *- Other instructions on page 2*

5. Lease Serial No. NMLC068905

6. If Indian, Allottee or Tribe Name

7. If Unit of CA/Agreement, Name and/or No.

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

8. Well Name and No.
POKER LAKE UNIT 22 DTD/173H

2. Name of Operator XTO PERMIAN OPERATING LLC

9. API Well No. 3001549879

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

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

10. Field and Pool or Exploratory Area
Jennings/BONE SPRING

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)*
SEC 22/T24S/R30E/NMP

11. Country or Parish, State
EDDY/NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

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

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be perfonned or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

XTO Permian Operating, LLC. respectfully requests approval to make the following changes to the approved APD. Changes to include SHL, FTP, LTP, BHL, Casing sizes, Cement, Proposed total Depth, and formation (Pool).

FROM: TO:
SHL: 203' FNL & 1626' FWL OF SECTION 22-T24S-R30E 13' FNL & 1624' FWL OF SECTION 22-T24S-R30E
FTP: 100' FSL & 1770' FWL OF SECTION 15-T24S-R30E 100' FNL & 1733' FWL OF SECTION 22-T24S-R30E
LTP: 328' FNL & 1769' FWL OF SECTION 3-T24S-R30E 2537' FNL & 1733' FWL OF SECTION 34-T24S-R30E
BHL: 198' FNL & 1769' FWL OF SECTION 3-T24S-R30E 2627' FNL & 1733' FWL OF SECTION 34-T24S-R30E

The proposed total depth is changing from 27063 MD; 11191 TVD (Jennings/Wolfcamp (Gas)) to 23904 MD; 11138 TVD (Wolfcamp X/Y).

See attached Drilling Plan for updated cement and casing program.

Continued on page 3 additional information

14. I hereby certify that the foregoing is true and correct. Name *(Printed/Typed)*
RICHARD REDUS / Ph: (720) 539-1673

Title Permitting Manager

Signature (Electronic Submission)

Date 10/23/2024

THE SPACE FOR FEDERAL OR STATE OFICE USE

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

Title Assistant Field Manager Lands &

Date 11/06/2024

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 ofthis form to U.S. Department ofthe Interior, Bureau ofLand Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Additional Information

Additional Remarks

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

Attachments: C-102, Drilling Plan, Directional Plan, MBS, BOP Variance, and Well Control Plan. Break Testing, Talon/Freedom Spec sheet.

Spudder Rig

No additional Surface disturbance

Location of Well

0. SHL: NENW / 203 FNL / 1626 FWL / TWSP: 24S / RANGE: 30E / SECTION: 22 / LAT: 32.209972 / LONG: -103.87233 (TVD: 0 feet, MD: 0 feet)

PPP: SENW / 100 FSL / 1577 FWL / TWSP: 24S / RANGE: 30E / SECTION: 15 / LAT: 32.210805 / LONG: -103.872488 (TVD: 11191 feet, MD: 14163 feet)

PPP: SESW / 100 FSL / 1770 FWL / TWSP: 24S / RANGE: 30E / SECTION: 15 / LAT: 32.210809 / LONG: -103.871864 (TVD: 11191 feet, MD: 11523 feet)

PPP: SESW / 300 FNL / 313 FWL / TWSP: 24S / RANGE: 30E / SECTION: 10 / LAT: 32.253158 / LONG: -103.876545 (TVD: 11191 feet, MD: 16803 feet)

BHL: LOT 3 / 198 FNL / 1769 FWL / TWSP: 24S / RANGE: 30E / SECTION: 3 / LAT: 32.253528 / LONG: -103.871835 (TVD: 11191 feet, MD: 27063 feet)

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO
LEASE NO.:	**NMLC068905**
LOCATION:	Sec. 22, T.24 S, R 30 E
COUNTY:	Eddy County, New Mexico
WELL NAME & NO.:	Poker Lake Unit 22 DTD 173H
SURFACE HOLE FOOTAGE:	13'/N & 1624'/W
BOTTOM HOLE FOOTAGE:	2627'/N & 1733'/W

*Changes approved through engineering via **Sundry 2785988** on _11-6-2024__. Any previous COAs not addressed within the updated COAs still apply.*

COA

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

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 **928** 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 6458'**

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

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

Operator has proposed to pump down Surface X Intermediate 1 annulus after primary cementing stage. Operator must run Echo-meter to verify Cement Slurry/Fluid top in the annulus OR operator shall run a CBL from TD of the Surface casing to tieback requirements listed above after the second stage BH to verify TOC. Submit results to the BLM. No displacement fluid/wash out shall be utilized at the top of the cement slurry between second stage BH and top out. Operator must use a limited flush fluid volume of 1 bbl following backside cementing procedures.

If cement does not reach surface, the next casing string must come to surface.

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

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).

2. Operator has proposed a multi-bowl wellhead assembly. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.

Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.

a. 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.
b. Manufacturer representative shall install the test plug for the initial BOP test.
c. 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.
d. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172 must be followed.

D. SPECIAL REQUIREMENT (S)

Unit Wells

The well sign for a unit well shall include the unit number in addition to the surface and bottom hole lease numbers. This also applies to participating area numbers. If a participating area has not been established, the operator can use the general unit designation, but will replace the unit number with the participating area number when the sign is replaced.

Commercial Well Determination

A commercial well determination shall be submitted after production has been established for at least six months. **(This is not necessary for secondary recovery unit wells)**

BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for intervals utilizing a 5M BOPE or less. **(Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP.)**
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer **(575-706-2779)** prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-361-2822 Eddy County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per **43 CFR 3172**.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

Offline Cementing
Contact the BLM prior to the commencement of any offline cementing procedure.

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

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

GENERAL REQUIREMENTS

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

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

Contact Eddy County Petroleum Engineering Inspection Staff:
Email or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220;
BLM_NM_CFO_DrillingNotifications@BLM.GOV; (575) 361-2822

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

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

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

B. PRESSURE CONTROL

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

requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.

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

open. (only applies to single stage cement jobs, prior to the cement setting up.)

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

iv. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.

v. The results of the test shall be reported to the appropriate BLM office.

vi. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.

vii. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.

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

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be

disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

Approved by Zota Stevens on 11/6/2024
575-234-5998 / zstevens@blm.gov

C-102 Sumbit electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONVERSION DIVISION	Revised July, 09 2024 Submittal Type: ☐ Initial Submittal ☒ Amended Report ☐ As Drilled

WELL LOCATION INFORMATION

API Number	Pool Code	Pool Name
30-015-	98220	PURPLE SAGE; WOLFCAMP (GAS)

Property Code	Property Name	Well Number
	POKER LAKE UNIT 22 DTD	173H

OGRID No.	Operator Name	Ground Level Elevation
373075	XTO PERMIAN OPERATING, LLC.	3,430'

Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal | Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal

Surface Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
C	22	24S	30E		13 FNL	1,624 FWL	32.210495	-103.872335	EDDY

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
F	34	24S	30E		2,627 FNL	1,733 FWL	32.174326	-103.871909	EDDY

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
1,600.00	INFILL	30-015-49881	Y	U

Order Numbers. | Well Setbacks are under Common Ownership: ☒ Yes ☐ No

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
C	22	24S	30E		13 FNL	1,624 FWL	32.210495	-103.872335	EDDY

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
C	22	24S	30E		100 FNL	1,733 FWL	32.210258	-103.871983	EDDY

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
F	34	24S	30E		2,537 FNL	1,733 FWL	32.174573	-103.871911	EDDY

Unitized Area of Area of Interest	Spacing Unit Type : ☒ Horizontal ☐ Vertical	Ground Elevation
		3,430'

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.

Terra Sebastian — Signature
10/29/2024 — Date

Terra Sebastian — Printed Name

terra.b.sebastian@exxonmobil.com — Email Address

SURVEYOR CERTIFICATIONS

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

MARK DILLON HARP NEW MEXICO 23786 PROFESSIONAL SURVEYOR

Signature and Seal of Professional Surveyor

MARK DILLON HARP 23786 — Certificate Number
10/29/2024 — Date of Survey

KT | 618.013003.08-46

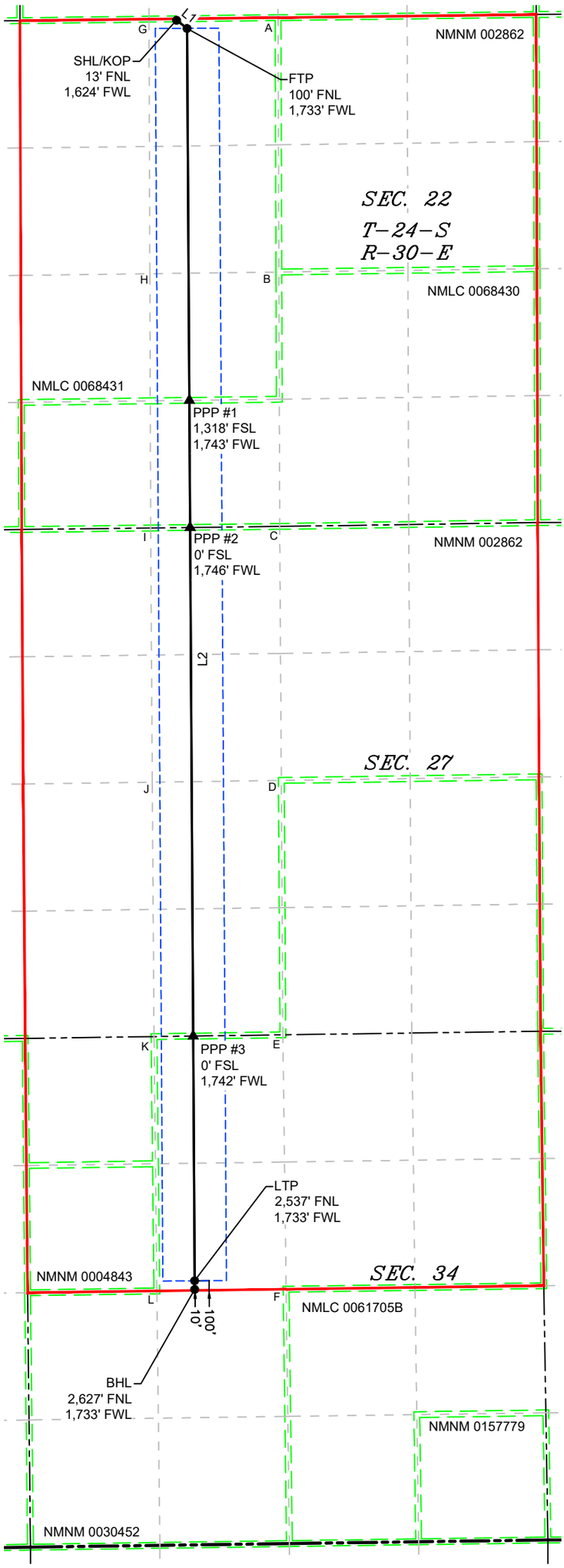
Note: No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.

P:\618.013 XTO Energy - NM\003 Poker Lake Unit\08 - PLU 22 DTD - EDDY\Wells\46 - PLU 22 DTD - 173H\DWG\173H C-102.dwg

ACREAGE DEDICATION PLATS

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

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



LEGEND

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

LINE TABLE		
LINE	AZIMUTH	LENGTH
L1	128°06'04"	138.89'
L2	179°39'13"	13,071.63'

COORDINATE TABLE					
SHL/KOP (NAD 83 NME)			**SHL/KOP (NAD 27 NME)**		
Y =	440,617.9	N	Y =	440,558.8	N
X =	683,914.6	E	X =	642,730.9	E
LAT. =	32.210495	°N	LAT. =	32.210371	°N
LONG. =	103.872335	°W	LONG. =	103.871849	°W
FTP (NAD 83 NME)			**FTP (NAD 27 NME)**		
Y =	440,532.2	N	Y =	440,473.1	N
X =	684,023.9	E	X =	642,840.2	E
LAT. =	32.210258	°N	LAT. =	32.210134	°N
LONG. =	103.871983	°W	LONG. =	103.871496	°W
PPP #1 (NAD 83 NME)			**PPP #1 (NAD 27 NME)**		
Y =	436,676.2	N	Y =	436,617.3	N
X =	684,047.1	E	X =	642,863.3	E
LAT. =	32.199658	°N	LAT. =	32.199534	°N
LONG. =	103.871962	°W	LONG. =	103.871475	°W
PPP #2 (NAD 83 NME)			**PPP #2 (NAD 27 NME)**		
Y =	435,358.5	N	Y =	435,299.6	N
X =	684,055.0	E	X =	642,871.1	E
LAT. =	32.196036	°N	LAT. =	32.195912	°N
LONG. =	103.871954	°W	LONG. =	103.871468	°W
PPP #3 (NAD 83 NME)			**PPP #3 (NAD 27 NME)**		
Y =	430,087.6	N	Y =	430,028.9	N
X =	684,086.8	E	X =	642,902.7	E
LAT. =	32.181547	°N	LAT. =	32.181423	°N
LONG. =	103.871925	°W	LONG. =	103.871439	°W
LTP (NAD 83 NME)			**LTP (NAD 27 NME)**		
Y =	427,550.8	N	Y =	427,492.1	N
X =	684,102.1	E	X =	642,917.9	E
LAT. =	32.174573	°N	LAT. =	32.174449	°N
LONG. =	103.871911	°W	LONG. =	103.871425	°W
BHL (NAD 83 NME)			**BHL (NAD 27 NME)**		
Y =	427,460.8	N	Y =	427,402.1	N
X =	684,102.9	E	X =	642,918.7	E
LAT. =	32.174326	°N	LAT. =	32.174202	°N
LONG. =	103.871909	°W	LONG. =	103.871424	°W
CORNER COORDINATES (NAD 83 NME)					
A - Y =	440,643.4	N	A - X =	684,967.0	E
B - Y =	438,006.2	N	B - X =	684,975.6	E
C - Y =	435,369.6	N	C - X =	684,984.2	E
D - Y =	432,737.2	N	D - X =	685,000.6	E
E - Y =	430,100.4	N	E - X =	685,017.0	E
F - Y =	427,463.7	N	F - X =	685,050.8	E
G - Y =	440,627.5	N	G - X =	683,628.8	E
H - Y =	437,988.8	N	H - X =	683,637.7	E
I - Y =	435,353.6	N	I - X =	683,646.5	E
J - Y =	432,718.6	N	J - X =	683,662.8	E
K - Y =	430,082.0	N	K - X =	683,681.0	E
L - Y =	427,445.1	N	L - X =	683,710.5	E
CORNER COORDINATES (NAD 27 NME)					
A - Y =	440,584.3	N	A - X =	643,783.3	E
B - Y =	437,947.2	N	B - X =	643,791.8	E
C - Y =	435,310.6	N	C - X =	643,800.3	E
D - Y =	432,678.3	N	D - X =	643,816.6	E
E - Y =	430,041.6	N	E - X =	643,832.9	E
F - Y =	427,404.9	N	F - X =	643,866.6	E
G - Y =	440,568.4	N	G - X =	642,445.1	E
H - Y =	437,929.8	N	H - X =	642,453.9	E
I - Y =	435,294.7	N	I - X =	642,462.7	E
J - Y =	432,659.8	N	J - X =	642,478.8	E
K - Y =	430,023.2	N	K - X =	642,496.9	E
L - Y =	427,386.4	N	L - X =	642,526.3	E

KT 618.013003.08-46

\618.013 XTO Energy - NM\003 Poker Lake Unit\.08 - PLU 22 DTD - EDDY\Wells\-46 - PLU 22 DTD - 173H\DWG\173H C-102.dwg

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

XTO Energy Inc.
POKER LAKE UNIT 22 DTD 173H
Projected TD: 23904' MD / 11138' TVD
SHL: 13' FNL & 1624' FWL , Section 22, T24S, R30E
BHL: 2627' FNL & 1733' FWL , Section 34, T24S, R30E
EDDY County, NM

1. Geologic Name of Surface Formation

A. Quaternary

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

Formation	Well Depth (TVD)	Water/Oil/Gas
Rustler	1122'	Water
Top of Salt	1525'	Water
Base of Salt	3718'	Water
Delaware	3912'	Water
Brushy Canyon	6458'	Water/Oil/Gas
Bone Spring	7782'	Water
Avalon	8475'	Water/Oil/Gas
1st Bone Spring	8491'	Water/Oil/Gas
2nd Bone Spring	9076'	Water/Oil/Gas
3rd Bone Spring	9902'	Water/Oil/Gas
Wolfcamp	11087'	Water/Oil/Gas
Wolfcamp X	11108'	Water/Oil/Gas
Target/Land Curve	11138'	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 @ 1222' (303' 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 10224' and cemented to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 23904 MD/TD and 5.5 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 9924 feet).

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0' – 1222'	9.625	40	J-55	BTC	New	1.63	5.15	12.89
8.75	0' – 4000'	7.625	29.7	RY P-110	Flush Joint	New	2.25	2.92	1.84
8.75	4000' – 10224'	7.625	29.7	HC L-80	Flush Joint	New	1.63	2.34	2.20
6.75	0' – 10124'	5.5	20	RY P-110	Semi-Premium	New	1.05	1.83	2.02
6.75	10124' - 23904'	5.5	20	RY P-110	Semi-Flush	New	1.05	1.67	2.02

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

Wellhead:

XTO will use a Multi-Bowl system which is attached.

4. Cement Program

Surface Casing: 9.625, 40 New BTC, J-55 casing to be set at +/- 1222'

Lead: 300 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

2nd Intermediate Casing: 7.625, 29.7 New casing to be set at +/- 10224'
1st Stage
Optional Lead: 350 sxs Class C (mixed at 10.5 ppg, 2.77 ft3/sx, 15.59 gal/sx water)
TOC: Surface
Tail: 350 sxs Class C (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)
TOC: Brushy Canyon @ 6458
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: 730 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 (6458') 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, RY P-110 casing to be set at +/- 23904'

Lead: 20 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft3/sx, 15.00 gal/sx water) Top of Cement: 9924 feet
Tail: 960 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft3/sx, 8.38 gal/sx water) Top of Cement: 10424 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 9.625 casing, the blow out preventer equipment (BOP) will consist of a 13-5/8" minimum 5M Hydril and a 13-5/8" minimum 10M Double Ram BOP. MASP should not exceed 4210 psi. In any instance where 10M BOP is required by BLM, XTO requests a variance to utilize 5M annular with 10M ram preventers (a common BOP configuration, which allows use of 10M rams in unlikely event that pressures exceed 5M).

All BOP testing will be done by an independent service company. XTO will use a Multi-Bowl system which is attached.

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

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

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. Based on discussions with the BLM on February 27th 2020, 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)
0' - 1222'	12.25	FW/Native	8.4-8.9	35-40	NC
1222' - 10224'	8.75	FW / Cut Brine / Direct Emulsion	8.8-9.3	30-32	NC
10224' - 23904'	6.75	OBM	11.5-12	50-60	NC - 20

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 9-5/8" surface casing with brine solution. Cut 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 175 to 195 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. The maximum anticipated bottom hole pressure for this well is 6661 psi.

10. Anticipated Starting Date and Duration of Operations

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

Well Plan Report - Poker Lake Unit 22 DTD South 173H

Measured Depth:	23903.58 ft
TVD RKB:	11138.00 ft
Location	
Cartographic Reference System:	New Mexico East - NAD 27
Northing:	440558.80 ft
Easting:	642730.90 ft
RKB:	3462.00 ft
Ground Level:	3430.00 ft
North Reference:	Grid
Convergence Angle:	0.25 Deg

Plan Sections Poker Lake Unit 22 DTD South 173H

Measured Depth (ft)	Inclination (Deg)	Azimuth (Deg)	TVD RKB (ft)	Y Offset (ft)	X Offset (ft)	Build Rate (Deg/100ft)	Turn Rate (Deg/100ft)	Dogleg Rate (Deg/100ft)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	0.00	
1171.96	1.44	128.10	1171.96	-0.56	0.71	2.00	0.00	2.00	
6629.77	1.44	128.10	6628.04	-85.14	108.59	0.00	0.00	0.00	
6701.74	0.00	0.00	6700.00	-85.70	109.30	-2.00	0.00	2.00	
10423.54	0.00	0.00	10421.80	-85.70	109.30	0.00	0.00	0.00	
11548.54	90.00	179.66	11138.00	-801.88	113.59	8.00	0.00	8.00	
23813.57	90.00	179.66	11138.00	-13066.70	187.01	0.00	0.00	0.00	LTP 9
23903.58	90.00	179.66	11138.00	-13156.70	187.55	0.00	0.00	0.00	BHL 9

Position Uncertainty Poker Lake Unit 22 DTD South 173H

Measured Depth	Inclination	Azimuth	TVD RKB	Highside Error	Highside Bias	Lateral Error	Lateral Bias	Vertical Error	Vertical Bias	Magnitude of Bias	Semi-major Error	Semi-minor Error	Semi-minor Azimuth	Tool Used

(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	MWD+IFR1+MS
100.000	0.000	0.000	100.000	0.700	0.000	0.350	0.000	2.300	0.000	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	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	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	2.347	0.000	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	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	2.407	0.000	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	2.445	0.000	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	2.486	0.000	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	2.533	0.000	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	2.583	0.000	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	2.636	0.000	0.000	4.752	3.849	128.859	MWD+IFR1+MS
1171.963	1.439	128.099	1171.955	4.144	0.000	4.958	-0.000	2.676	0.000	0.000	4.959	4.145	129.290	MWD+IFR1+MS
1200.000	1.439	128.099	1199.984	4.243	0.000	5.036	-0.000	2.692	0.000	0.000	5.037	4.245	129.000	MWD+IFR1+MS
1300.000	1.439	128.099	1299.952	4.588	0.000	5.333	-0.000	2.752	0.000	0.000	5.333	4.589	127.389	MWD+IFR1+MS
1400.000	1.439	128.099	1399.920	4.956	0.000	5.656	-0.000	2.815	0.000	0.000	5.659	4.953	124.176	MWD+IFR1+MS
1500.000	1.439	128.099	1499.889	5.322	0.000	5.983	-0.000	2.880	0.000	0.000	5.993	5.312	121.095	MWD+IFR1+MS
1600.000	1.439	128.099	1599.857	5.688	0.000	6.314	-0.000	2.948	0.000	0.000	6.332	5.668	118.203	MWD+IFR1+MS
1700.000	1.439	128.099	1699.826	6.053	0.000	6.647	-0.000	3.018	0.000	0.000	6.677	6.021	115.538	MWD+IFR1+MS
1800.000	1.439	128.099	1799.794	6.417	0.000	6.983	-0.000	3.090	0.000	0.000	7.025	6.372	113.115	MWD+IFR1+MS
1900.000	1.439	128.099	1899.763	6.781	0.000	7.322	-0.000	3.164	0.000	0.000	7.376	6.721	110.933	MWD+IFR1+MS
2000.000	1.439	128.099	1999.731	7.144	0.000	7.662	-0.000	3.239	0.000	0.000	7.730	7.070	108.980	MWD+IFR1+MS
2100.000	1.439	128.099	2099.700	7.506	0.000	8.004	-0.000	3.317	0.000	0.000	8.085	7.419	107.238	MWD+IFR1+MS
2200.000	1.439	128.099	2199.668	7.869	0.000	8.347	-0.000	3.396	0.000	0.000	8.442	7.767	105.685	MWD+IFR1+MS
2300.000	1.439	128.099	2299.637	8.231	0.000	8.692	-0.000	3.476	0.000	0.000	8.799	8.116	104.301	MWD+IFR1+MS
2400.000	1.439	128.099	2399.605	8.593	0.000	9.037	-0.000	3.558	0.000	0.000	9.158	8.464	103.066	MWD+IFR1+MS
2500.000	1.439	128.099	2499.573	8.954	0.000	9.384	-0.000	3.642	0.000	0.000	9.516	8.813	101.960	MWD+IFR1+MS
2600.000	1.439	128.099	2599.542	9.316	0.000	9.732	-0.000	3.726	0.000	0.000	9.876	9.163	100.968	MWD+IFR1+MS
2700.000	1.439	128.099	2699.510	9.677	0.000	10.080	-0.000	3.812	0.000	0.000	10.235	9.512	100.075	MWD+IFR1+MS
2800.000	1.439	128.099	2799.479	10.038	0.000	10.429	-0.000	3.900	0.000	0.000	10.595	9.862	99.270	MWD+IFR1+MS
2900.000	1.439	128.099	2899.447	10.399	0.000	10.779	-0.000	3.988	0.000	0.000	10.956	10.212	98.540	MWD+IFR1+MS
3000.000	1.439	128.099	2999.416	10.760	0.000	11.130	-0.000	4.078	0.000	0.000	11.316	10.563	97.876	MWD+IFR1+MS
3100.000	1.439	128.099	3099.384	11.120	0.000	11.481	-0.000	4.170	0.000	0.000	11.676	10.914	97.272	MWD+IFR1+MS

3200.000	1.439	128.099	3199.353	11.481	0.000	11.832	-0.000	4.262	0.000	0.000	12.036	11.266	96.720	MWD+IFR1+MS
3300.000	1.439	128.099	3299.321	11.841	0.000	12.184	-0.000	4.356	0.000	0.000	12.397	11.617	96.214	MWD+IFR1+MS
3400.000	1.439	128.099	3399.290	12.202	0.000	12.537	-0.000	4.451	0.000	0.000	12.757	11.970	95.748	MWD+IFR1+MS
3500.000	1.439	128.099	3499.258	12.562	0.000	12.890	-0.000	4.548	0.000	0.000	13.118	12.322	95.319	MWD+IFR1+MS
3600.000	1.439	128.099	3599.226	12.922	0.000	13.243	-0.000	4.646	0.000	0.000	13.478	12.675	94.923	MWD+IFR1+MS
3700.000	1.439	128.099	3699.195	13.282	0.000	13.596	-0.000	4.745	0.000	0.000	13.839	13.028	94.556	MWD+IFR1+MS
3800.000	1.439	128.099	3799.163	13.642	0.000	13.950	-0.000	4.845	0.000	0.000	14.199	13.381	94.216	MWD+IFR1+MS
3900.000	1.439	128.099	3899.132	14.002	0.000	14.304	-0.000	4.947	0.000	0.000	14.559	13.735	93.899	MWD+IFR1+MS
4000.000	1.439	128.099	3999.100	14.362	0.000	14.658	-0.000	5.051	0.000	0.000	14.920	14.088	93.604	MWD+IFR1+MS
4100.000	1.439	128.099	4099.069	14.722	0.000	15.013	-0.000	5.156	0.000	0.000	15.280	14.442	93.329	MWD+IFR1+MS
4200.000	1.439	128.099	4199.037	15.082	0.000	15.367	-0.000	5.263	0.000	0.000	15.640	14.797	93.071	MWD+IFR1+MS
4300.000	1.439	128.099	4299.006	15.442	0.000	15.722	-0.000	5.371	0.000	0.000	16.000	15.151	92.830	MWD+IFR1+MS
4400.000	1.439	128.099	4398.974	15.801	0.000	16.077	-0.000	5.480	0.000	0.000	16.361	15.506	92.603	MWD+IFR1+MS
4500.000	1.439	128.099	4498.942	16.161	0.000	16.433	-0.000	5.592	0.000	0.000	16.721	15.860	92.390	MWD+IFR1+MS
4600.000	1.439	128.099	4598.911	16.521	0.000	16.788	-0.000	5.705	0.000	0.000	17.081	16.215	92.190	MWD+IFR1+MS
4700.000	1.439	128.099	4698.879	16.880	0.000	17.144	-0.000	5.819	0.000	0.000	17.441	16.571	92.001	MWD+IFR1+MS
4800.000	1.439	128.099	4798.848	17.240	0.000	17.500	-0.000	5.936	0.000	0.000	17.801	16.926	91.823	MWD+IFR1+MS
4900.000	1.439	128.099	4898.816	17.600	0.000	17.856	-0.000	6.054	0.000	0.000	18.161	17.281	91.655	MWD+IFR1+MS
5000.000	1.439	128.099	4998.785	17.959	0.000	18.212	-0.000	6.174	0.000	0.000	18.521	17.637	91.495	MWD+IFR1+MS
5100.000	1.439	128.099	5098.753	18.319	0.000	18.568	-0.000	6.296	0.000	0.000	18.881	17.993	91.344	MWD+IFR1+MS
5200.000	1.439	128.099	5198.722	18.678	0.000	18.924	-0.000	6.419	0.000	0.000	19.241	18.349	91.202	MWD+IFR1+MS
5300.000	1.439	128.099	5298.690	19.038	0.000	19.281	-0.000	6.545	0.000	0.000	19.601	18.705	91.066	MWD+IFR1+MS
5400.000	1.439	128.099	5398.659	19.397	0.000	19.637	-0.000	6.673	0.000	0.000	19.961	19.061	90.937	MWD+IFR1+MS
5500.000	1.439	128.099	5498.627	19.757	0.000	19.994	-0.000	6.803	0.000	0.000	20.320	19.417	90.815	MWD+IFR1+MS
5600.000	1.439	128.099	5598.595	20.116	0.000	20.350	-0.000	6.934	0.000	0.000	20.680	19.773	90.698	MWD+IFR1+MS
5700.000	1.439	128.099	5698.564	20.476	0.000	20.707	-0.000	7.068	0.000	0.000	21.040	20.130	90.587	MWD+IFR1+MS
5800.000	1.439	128.099	5798.532	20.835	0.000	21.064	-0.000	7.204	0.000	0.000	21.400	20.486	90.481	MWD+IFR1+MS
5900.000	1.439	128.099	5898.501	21.194	0.000	21.421	-0.000	7.342	0.000	0.000	21.759	20.843	90.380	MWD+IFR1+MS
6000.000	1.439	128.099	5998.469	21.554	0.000	21.778	-0.000	7.482	0.000	0.000	22.119	21.199	90.284	MWD+IFR1+MS
6100.000	1.439	128.099	6098.438	21.913	0.000	22.135	-0.000	7.625	0.000	0.000	22.479	21.556	90.192	MWD+IFR1+MS
6200.000	1.439	128.099	6198.406	22.272	0.000	22.492	-0.000	7.770	0.000	0.000	22.838	21.913	90.104	MWD+IFR1+MS
6300.000	1.439	128.099	6298.375	22.632	0.000	22.850	-0.000	7.917	0.000	0.000	23.198	22.270	90.020	MWD+IFR1+MS
6400.000	1.439	128.099	6398.343	22.991	0.000	23.207	-0.000	8.066	0.000	0.000	23.558	22.627	89.940	MWD+IFR1+MS
6500.000	1.439	128.099	6498.312	23.350	0.000	23.564	-0.000	8.218	0.000	0.000	23.917	22.984	89.863	MWD+IFR1+MS

6600.000	1.439	128.099	6598.280	23.710	0.000	23.922	-0.000	8.372	0.000	0.000	24.277	23.341	89.789	MWD+IFR1+MS
6629.774	1.439	128.099	6628.045	23.815	0.000	24.026	-0.000	8.418	0.000	0.000	24.380	23.448	89.796	MWD+IFR1+MS
6701.737	0.000	0.000	6700.000	24.627	0.000	23.697	0.000	8.531	0.000	0.000	24.627	23.697	89.921	MWD+IFR1+MS
6800.000	0.000	0.000	6798.263	24.972	0.000	24.032	0.000	8.686	0.000	0.000	24.972	24.032	90.625	MWD+IFR1+MS
6900.000	0.000	0.000	6898.263	25.306	0.000	24.376	0.000	8.847	0.000	0.000	25.306	24.375	91.067	MWD+IFR1+MS
7000.000	0.000	0.000	6998.263	25.641	0.000	24.720	0.000	9.011	0.000	0.000	25.641	24.719	91.513	MWD+IFR1+MS
7100.000	0.000	0.000	7098.263	25.976	0.000	25.064	0.000	9.177	0.000	0.000	25.977	25.063	91.956	MWD+IFR1+MS
7200.000	0.000	0.000	7198.263	26.312	0.000	25.409	0.000	9.345	0.000	0.000	26.313	25.407	92.394	MWD+IFR1+MS
7300.000	0.000	0.000	7298.263	26.648	0.000	25.754	0.000	9.516	0.000	0.000	26.651	25.752	92.828	MWD+IFR1+MS
7400.000	0.000	0.000	7398.263	26.985	0.000	26.099	0.000	9.690	0.000	0.000	26.988	26.096	93.259	MWD+IFR1+MS
7500.000	0.000	0.000	7498.263	27.323	0.000	26.445	0.000	9.866	0.000	0.000	27.327	26.441	93.684	MWD+IFR1+MS
7600.000	0.000	0.000	7598.263	27.661	0.000	26.791	0.000	10.045	0.000	0.000	27.666	26.787	94.105	MWD+IFR1+MS
7700.000	0.000	0.000	7698.263	28.000	0.000	27.138	0.000	10.226	0.000	0.000	28.005	27.132	94.522	MWD+IFR1+MS
7800.000	0.000	0.000	7798.263	28.339	0.000	27.485	0.000	10.410	0.000	0.000	28.345	27.478	94.934	MWD+IFR1+MS
7900.000	0.000	0.000	7898.263	28.678	0.000	27.832	0.000	10.597	0.000	0.000	28.686	27.824	95.341	MWD+IFR1+MS
8000.000	0.000	0.000	7998.263	29.018	0.000	28.179	0.000	10.787	0.000	0.000	29.027	28.170	95.743	MWD+IFR1+MS
8100.000	0.000	0.000	8098.263	29.359	0.000	28.527	0.000	10.979	0.000	0.000	29.369	28.517	96.140	MWD+IFR1+MS
8200.000	0.000	0.000	8198.263	29.700	0.000	28.875	0.000	11.174	0.000	0.000	29.711	28.864	96.532	MWD+IFR1+MS
8300.000	0.000	0.000	8298.263	30.041	0.000	29.223	0.000	11.372	0.000	0.000	30.053	29.211	96.920	MWD+IFR1+MS
8400.000	0.000	0.000	8398.263	30.383	0.000	29.571	0.000	11.573	0.000	0.000	30.396	29.558	97.302	MWD+IFR1+MS
8500.000	0.000	0.000	8498.263	30.725	0.000	29.920	0.000	11.776	0.000	0.000	30.740	29.905	97.679	MWD+IFR1+MS
8600.000	0.000	0.000	8598.263	31.067	0.000	30.269	0.000	11.982	0.000	0.000	31.083	30.252	98.050	MWD+IFR1+MS
8700.000	0.000	0.000	8698.263	31.410	0.000	30.618	0.000	12.191	0.000	0.000	31.428	30.600	98.417	MWD+IFR1+MS
8800.000	0.000	0.000	8798.263	31.753	0.000	30.967	0.000	12.403	0.000	0.000	31.772	30.948	98.778	MWD+IFR1+MS
8900.000	0.000	0.000	8898.263	32.097	0.000	31.317	0.000	12.618	0.000	0.000	32.117	31.296	99.135	MWD+IFR1+MS
9000.000	0.000	0.000	8998.263	32.441	0.000	31.667	0.000	12.835	0.000	0.000	32.463	31.644	99.486	MWD+IFR1+MS
9100.000	0.000	0.000	9098.263	32.785	0.000	32.017	0.000	13.056	0.000	0.000	32.808	31.992	99.831	MWD+IFR1+MS
9200.000	0.000	0.000	9198.263	33.129	0.000	32.367	0.000	13.279	0.000	0.000	33.154	32.341	100.172	MWD+IFR1+MS
9300.000	0.000	0.000	9298.263	33.474	0.000	32.717	0.000	13.505	0.000	0.000	33.501	32.690	100.508	MWD+IFR1+MS
9400.000	0.000	0.000	9398.263	33.819	0.000	33.067	0.000	13.734	0.000	0.000	33.847	33.039	100.838	MWD+IFR1+MS
9500.000	0.000	0.000	9498.263	34.164	0.000	33.418	0.000	13.966	0.000	0.000	34.194	33.387	101.163	MWD+IFR1+MS
9600.000	0.000	0.000	9598.263	34.510	0.000	33.769	0.000	14.201	0.000	0.000	34.541	33.737	101.484	MWD+IFR1+MS
9700.000	0.000	0.000	9698.263	34.856	0.000	34.120	0.000	14.439	0.000	0.000	34.889	34.086	101.799	MWD+IFR1+MS
9800.000	0.000	0.000	9798.263	35.202	0.000	34.471	0.000	14.680	0.000	0.000	35.237	34.435	102.109	MWD+IFR1+MS

9900.000	0.000	0.000	9898.263	35.548	0.000	34.822	0.000	14.924	0.000	0.000	35.585	34.785	102.415	MWD+IFR1+MS
10000.000	0.000	0.000	9998.263	35.895	0.000	35.174	0.000	15.170	0.000	0.000	35.933	35.135	102.715	MWD+IFR1+MS
10100.000	0.000	0.000	10098.263	36.241	0.000	35.525	0.000	15.420	0.000	0.000	36.281	35.484	103.011	MWD+IFR1+MS
10200.000	0.000	0.000	10198.263	36.588	0.000	35.877	0.000	15.672	0.000	0.000	36.630	35.834	103.302	MWD+IFR1+MS
10300.000	0.000	0.000	10298.263	36.936	0.000	36.229	0.000	15.928	0.000	0.000	36.979	36.184	103.588	MWD+IFR1+MS
10400.000	0.000	0.000	10398.263	37.283	0.000	36.581	0.000	16.186	0.000	0.000	37.328	36.535	103.869	MWD+IFR1+MS
10423.537	0.000	0.000	10421.800	37.364	0.000	36.662	0.000	16.248	0.000	0.000	37.409	36.617	103.868	MWD+IFR1+MS
10500.000	6.117	179.657	10498.118	37.571	0.000	36.928	-0.000	16.449	0.000	0.000	37.758	36.883	102.640	MWD+IFR1+MS
10600.000	14.117	179.657	10596.483	38.086	0.000	37.270	-0.000	16.773	0.000	0.000	38.927	37.233	98.061	MWD+IFR1+MS
10700.000	22.117	179.657	10691.448	38.262	0.000	37.605	-0.000	17.257	0.000	0.000	40.220	37.567	96.410	MWD+IFR1+MS
10800.000	30.117	179.657	10781.165	37.884	0.000	37.927	-0.000	17.951	0.000	0.000	41.353	37.885	95.821	MWD+IFR1+MS
10900.000	38.117	179.657	10863.887	37.017	0.000	38.233	-0.000	18.882	0.000	0.000	42.304	38.186	95.622	MWD+IFR1+MS
11000.000	46.117	179.657	10938.004	35.752	0.000	38.519	-0.000	20.049	0.000	0.000	43.067	38.466	95.629	MWD+IFR1+MS
11100.000	54.117	179.657	11002.074	34.211	0.000	38.782	-0.000	21.424	0.000	0.000	43.642	38.723	95.772	MWD+IFR1+MS
11200.000	62.117	179.657	11054.850	32.550	0.000	39.022	-0.000	22.961	0.000	0.000	44.044	38.955	96.018	MWD+IFR1+MS
11300.000	70.117	179.657	11095.304	30.963	0.000	39.235	-0.000	24.605	0.000	0.000	44.294	39.161	96.340	MWD+IFR1+MS
11400.000	78.117	179.657	11122.649	29.672	0.000	39.420	-0.000	26.297	0.000	0.000	44.424	39.338	96.709	MWD+IFR1+MS
11500.000	86.117	179.657	11136.353	28.905	0.000	39.574	-0.000	27.981	0.000	0.000	44.473	39.486	97.075	MWD+IFR1+MS
11548.537	90.000	179.657	11137.997	28.241	0.000	39.635	-0.000	28.241	0.000	0.000	44.481	39.544	97.220	MWD+IFR1+MS
11600.000	90.000	179.657	11137.997	28.334	0.000	39.697	-0.000	28.334	0.000	0.000	44.487	39.604	97.375	MWD+IFR1+MS
11700.000	90.000	179.657	11137.997	28.483	0.000	39.832	-0.000	28.483	0.000	0.000	44.499	39.733	97.707	MWD+IFR1+MS
11800.000	90.000	179.657	11137.997	28.655	0.000	39.984	-0.000	28.655	0.000	0.000	44.512	39.879	98.082	MWD+IFR1+MS
11900.000	90.000	179.657	11137.997	28.847	0.000	40.149	-0.000	28.847	0.000	0.000	44.527	40.037	98.503	MWD+IFR1+MS
12000.000	90.000	179.657	11137.997	29.059	0.000	40.329	-0.000	29.059	0.000	0.000	44.543	40.209	98.978	MWD+IFR1+MS
12100.000	90.000	179.657	11137.997	29.290	0.000	40.522	-0.000	29.290	0.000	0.000	44.560	40.393	99.516	MWD+IFR1+MS
12200.000	90.000	179.657	11137.997	29.541	0.000	40.728	-0.000	29.541	0.000	0.000	44.579	40.590	100.129	MWD+IFR1+MS
12300.000	90.000	179.657	11137.997	29.810	0.000	40.948	-0.000	29.810	0.000	0.000	44.600	40.798	100.834	MWD+IFR1+MS
12400.000	90.000	179.657	11137.997	30.097	0.000	41.180	-0.000	30.097	0.000	0.000	44.624	41.018	101.648	MWD+IFR1+MS
12500.000	90.000	179.657	11137.997	30.402	0.000	41.426	-0.000	30.402	0.000	0.000	44.650	41.249	102.598	MWD+IFR1+MS
12600.000	90.000	179.657	11137.997	30.724	0.000	41.684	-0.000	30.724	0.000	0.000	44.680	41.489	103.715	MWD+IFR1+MS
12700.000	90.000	179.657	11137.997	31.062	0.000	41.955	-0.000	31.062	0.000	0.000	44.713	41.739	105.044	MWD+IFR1+MS
12800.000	90.000	179.657	11137.997	31.416	0.000	42.238	-0.000	31.416	0.000	0.000	44.752	41.995	106.641	MWD+IFR1+MS
12900.000	90.000	179.657	11137.997	31.786	0.000	42.532	-0.000	31.786	0.000	0.000	44.798	42.258	108.579	MWD+IFR1+MS
13000.000	90.000	179.657	11137.997	32.171	0.000	42.839	-0.000	32.171	0.000	0.000	44.852	42.524	110.957	MWD+IFR1+MS

13100.000	90.000	179.657	11137.997	32.569	0.000	43.156	-0.000	32.569	0.000	0.000	44.918	42.791	113.891	MWD+IFR1+MS
13200.000	90.000	179.657	11137.997	32.982	0.000	43.485	-0.000	32.982	0.000	0.000	45.001	43.052	117.515	MWD+IFR1+MS
13300.000	90.000	179.657	11137.997	33.408	0.000	43.825	-0.000	33.408	0.000	0.000	45.105	43.304	121.935	MWD+IFR1+MS
13400.000	90.000	179.657	11137.997	33.847	0.000	44.176	-0.000	33.847	0.000	0.000	45.238	43.538	127.160	MWD+IFR1+MS
13500.000	90.000	179.657	11137.997	34.299	0.000	44.536	-0.000	34.299	0.000	0.000	45.407	43.746	132.996	MWD+IFR1+MS
13600.000	90.000	179.657	11137.997	34.762	0.000	44.907	-0.000	34.762	0.000	0.000	45.618	43.925	-40.978	MWD+IFR1+MS
13700.000	90.000	179.657	11137.997	35.236	0.000	45.288	-0.000	35.236	0.000	0.000	45.870	44.071	-35.269	MWD+IFR1+MS
13800.000	90.000	179.657	11137.997	35.722	0.000	45.679	-0.000	35.722	0.000	0.000	46.161	44.190	-30.246	MWD+IFR1+MS
13900.000	90.000	179.657	11137.997	36.218	0.000	46.079	-0.000	36.218	0.000	0.000	46.484	44.286	-26.040	MWD+IFR1+MS
14000.000	90.000	179.657	11137.997	36.724	0.000	46.488	-0.000	36.724	0.000	0.000	46.834	44.365	-22.607	MWD+IFR1+MS
14100.000	90.000	179.657	11137.997	37.240	0.000	46.906	-0.000	37.240	0.000	0.000	47.207	44.431	-19.829	MWD+IFR1+MS
14200.000	90.000	179.657	11137.997	37.765	0.000	47.333	-0.000	37.765	0.000	0.000	47.597	44.488	-17.573	MWD+IFR1+MS
14300.000	90.000	179.657	11137.997	38.299	0.000	47.768	-0.000	38.299	0.000	0.000	48.004	44.539	-15.728	MWD+IFR1+MS
14400.000	90.000	179.657	11137.997	38.841	0.000	48.212	-0.000	38.841	0.000	0.000	48.424	44.585	-14.202	MWD+IFR1+MS
14500.000	90.000	179.657	11137.997	39.392	0.000	48.663	-0.000	39.392	0.000	0.000	48.855	44.628	-12.927	MWD+IFR1+MS
14600.000	90.000	179.657	11137.997	39.950	0.000	49.122	-0.000	39.950	0.000	0.000	49.298	44.668	-11.850	MWD+IFR1+MS
14700.000	90.000	179.657	11137.997	40.516	0.000	49.589	-0.000	40.516	0.000	0.000	49.751	44.706	-10.930	MWD+IFR1+MS
14800.000	90.000	179.657	11137.997	41.089	0.000	50.063	-0.000	41.089	0.000	0.000	50.213	44.742	-10.137	MWD+IFR1+MS
14900.000	90.000	179.657	11137.997	41.669	0.000	50.545	-0.000	41.669	0.000	0.000	50.684	44.778	-9.448	MWD+IFR1+MS
15000.000	90.000	179.657	11137.997	42.256	0.000	51.033	-0.000	42.256	0.000	0.000	51.163	44.813	-8.844	MWD+IFR1+MS
15100.000	90.000	179.657	11137.997	42.849	0.000	51.528	-0.000	42.849	0.000	0.000	51.650	44.847	-8.311	MWD+IFR1+MS
15200.000	90.000	179.657	11137.997	43.448	0.000	52.029	-0.000	43.448	0.000	0.000	52.144	44.882	-7.838	MWD+IFR1+MS
15300.000	90.000	179.657	11137.997	44.053	0.000	52.537	-0.000	44.053	0.000	0.000	52.646	44.915	-7.415	MWD+IFR1+MS
15400.000	90.000	179.657	11137.997	44.663	0.000	53.051	-0.000	44.663	0.000	0.000	53.154	44.949	-7.035	MWD+IFR1+MS
15500.000	90.000	179.657	11137.997	45.279	0.000	53.572	-0.000	45.279	0.000	0.000	53.669	44.983	-6.692	MWD+IFR1+MS
15600.000	90.000	179.657	11137.997	45.900	0.000	54.098	-0.000	45.900	0.000	0.000	54.191	45.017	-6.380	MWD+IFR1+MS
15700.000	90.000	179.657	11137.997	46.526	0.000	54.629	-0.000	46.526	0.000	0.000	54.718	45.051	-6.097	MWD+IFR1+MS
15800.000	90.000	179.657	11137.997	47.157	0.000	55.166	-0.000	47.157	0.000	0.000	55.251	45.086	-5.837	MWD+IFR1+MS
15900.000	90.000	179.657	11137.997	47.792	0.000	55.709	-0.000	47.792	0.000	0.000	55.790	45.120	-5.600	MWD+IFR1+MS
16000.000	90.000	179.657	11137.997	48.431	0.000	56.256	-0.000	48.431	0.000	0.000	56.334	45.155	-5.381	MWD+IFR1+MS
16100.000	90.000	179.657	11137.997	49.075	0.000	56.809	-0.000	49.075	0.000	0.000	56.884	45.190	-5.178	MWD+IFR1+MS
16200.000	90.000	179.657	11137.997	49.723	0.000	57.367	-0.000	49.723	0.000	0.000	57.438	45.226	-4.991	MWD+IFR1+MS
16300.000	90.000	179.657	11137.997	50.375	0.000	57.929	-0.000	50.375	0.000	0.000	57.998	45.261	-4.817	MWD+IFR1+MS
16400.000	90.000	179.657	11137.997	51.031	0.000	58.496	-0.000	51.031	0.000	0.000	58.563	45.298	-4.655	MWD+IFR1+MS

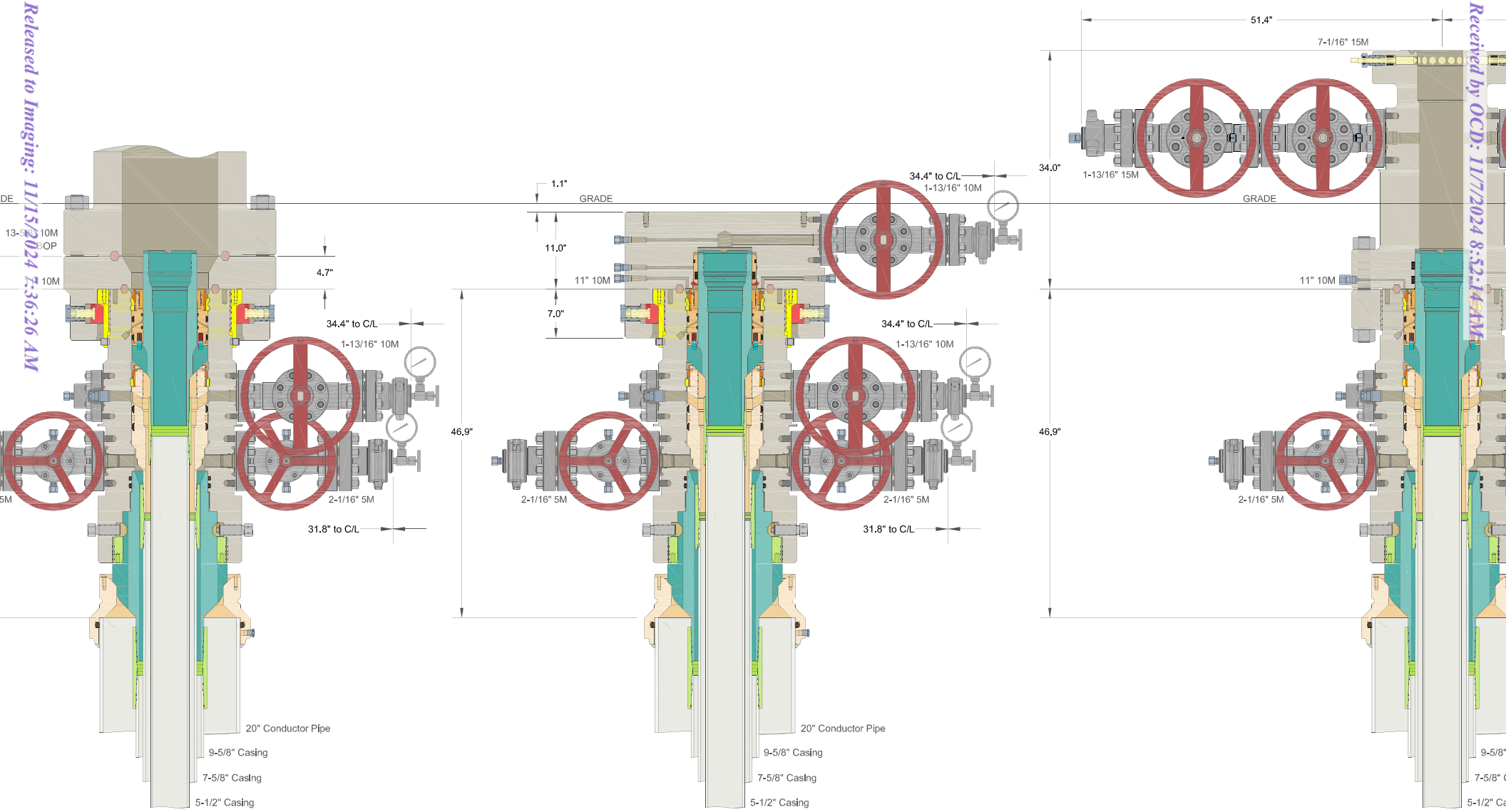
16500.000	90.000	179.657	11137.997	51.690	0.000	59.067	-0.000	51.690	0.000	0.000	59.132	45.334	-4.504	MWD+IFR1+MS
16600.000	90.000	179.657	11137.997	52.352	0.000	59.643	-0.000	52.352	0.000	0.000	59.705	45.371	-4.363	MWD+IFR1+MS
16700.000	90.000	179.657	11137.997	53.018	0.000	60.223	-0.000	53.018	0.000	0.000	60.283	45.409	-4.230	MWD+IFR1+MS
16800.000	90.000	179.657	11137.997	53.688	0.000	60.807	-0.000	53.688	0.000	0.000	60.865	45.447	-4.106	MWD+IFR1+MS
16900.000	90.000	179.657	11137.997	54.360	0.000	61.396	-0.000	54.360	0.000	0.000	61.452	45.485	-3.989	MWD+IFR1+MS
17000.000	90.000	179.657	11137.997	55.035	0.000	61.988	-0.000	55.035	0.000	0.000	62.042	45.524	-3.879	MWD+IFR1+MS
17100.000	90.000	179.657	11137.997	55.713	0.000	62.583	-0.000	55.713	0.000	0.000	62.636	45.563	-3.775	MWD+IFR1+MS
17200.000	90.000	179.657	11137.997	56.394	0.000	63.183	-0.000	56.394	0.000	0.000	63.234	45.602	-3.677	MWD+IFR1+MS
17300.000	90.000	179.657	11137.997	57.078	0.000	63.786	-0.000	57.078	0.000	0.000	63.836	45.643	-3.584	MWD+IFR1+MS
17400.000	90.000	179.657	11137.997	57.764	0.000	64.392	-0.000	57.764	0.000	0.000	64.441	45.683	-3.496	MWD+IFR1+MS
17500.000	90.000	179.657	11137.997	58.452	0.000	65.002	-0.000	58.452	0.000	0.000	65.049	45.724	-3.412	MWD+IFR1+MS
17600.000	90.000	179.657	11137.997	59.143	0.000	65.615	-0.000	59.143	0.000	0.000	65.661	45.766	-3.332	MWD+IFR1+MS
17700.000	90.000	179.657	11137.997	59.837	0.000	66.231	-0.000	59.837	0.000	0.000	66.276	45.808	-3.257	MWD+IFR1+MS
17800.000	90.000	179.657	11137.997	60.532	0.000	66.850	-0.000	60.532	0.000	0.000	66.894	45.850	-3.185	MWD+IFR1+MS
17900.000	90.000	179.657	11137.997	61.230	0.000	67.473	-0.000	61.230	0.000	0.000	67.515	45.893	-3.116	MWD+IFR1+MS
18000.000	90.000	179.657	11137.997	61.930	0.000	68.098	-0.000	61.930	0.000	0.000	68.140	45.937	-3.050	MWD+IFR1+MS
18100.000	90.000	179.657	11137.997	62.631	0.000	68.726	-0.000	62.631	0.000	0.000	68.767	45.981	-2.988	MWD+IFR1+MS
18200.000	90.000	179.657	11137.997	63.335	0.000	69.357	-0.000	63.335	0.000	0.000	69.397	46.025	-2.928	MWD+IFR1+MS
18300.000	90.000	179.657	11137.997	64.041	0.000	69.991	-0.000	64.041	0.000	0.000	70.029	46.070	-2.871	MWD+IFR1+MS
18400.000	90.000	179.657	11137.997	64.748	0.000	70.627	-0.000	64.748	0.000	0.000	70.664	46.116	-2.816	MWD+IFR1+MS
18500.000	90.000	179.657	11137.997	65.457	0.000	71.265	-0.000	65.457	0.000	0.000	71.302	46.161	-2.763	MWD+IFR1+MS
18600.000	90.000	179.657	11137.997	66.168	0.000	71.907	-0.000	66.168	0.000	0.000	71.943	46.208	-2.712	MWD+IFR1+MS
18700.000	90.000	179.657	11137.997	66.881	0.000	72.550	-0.000	66.881	0.000	0.000	72.585	46.255	-2.664	MWD+IFR1+MS
18800.000	90.000	179.657	11137.997	67.595	0.000	73.196	-0.000	67.595	0.000	0.000	73.231	46.302	-2.617	MWD+IFR1+MS
18900.000	90.000	179.657	11137.997	68.311	0.000	73.844	-0.000	68.311	0.000	0.000	73.878	46.350	-2.572	MWD+IFR1+MS
19000.000	90.000	179.657	11137.997	69.028	0.000	74.495	-0.000	69.028	0.000	0.000	74.528	46.398	-2.529	MWD+IFR1+MS
19100.000	90.000	179.657	11137.997	69.747	0.000	75.147	-0.000	69.747	0.000	0.000	75.180	46.447	-2.487	MWD+IFR1+MS
19200.000	90.000	179.657	11137.997	70.467	0.000	75.802	-0.000	70.467	0.000	0.000	75.834	46.497	-2.447	MWD+IFR1+MS
19300.000	90.000	179.657	11137.997	71.188	0.000	76.459	-0.000	71.188	0.000	0.000	76.490	46.547	-2.408	MWD+IFR1+MS
19400.000	90.000	179.657	11137.997	71.911	0.000	77.118	-0.000	71.911	0.000	0.000	77.148	46.597	-2.371	MWD+IFR1+MS
19500.000	90.000	179.657	11137.997	72.635	0.000	77.778	-0.000	72.635	0.000	0.000	77.809	46.648	-2.335	MWD+IFR1+MS
19600.000	90.000	179.657	11137.997	73.361	0.000	78.441	-0.000	73.361	0.000	0.000	78.471	46.699	-2.300	MWD+IFR1+MS
19700.000	90.000	179.657	11137.997	74.087	0.000	79.106	-0.000	74.087	0.000	0.000	79.135	46.751	-2.266	MWD+IFR1+MS
19800.000	90.000	179.657	11137.997	74.815	0.000	79.772	-0.000	74.815	0.000	0.000	79.800	46.803	-2.234	MWD+IFR1+MS

19900.000	90.000	179.657	11137.997	75.544	0.000	80.440	-0.000	75.544	0.000	0.000	80.468	46.856	-2.202	MWD+IFR1+MS
20000.000	90.000	179.657	11137.997	76.274	0.000	81.110	-0.000	76.274	0.000	0.000	81.137	46.909	-2.172	MWD+IFR1+MS
20100.000	90.000	179.657	11137.997	77.005	0.000	81.781	-0.000	77.005	0.000	0.000	81.808	46.963	-2.142	MWD+IFR1+MS
20200.000	90.000	179.657	11137.997	77.737	0.000	82.454	-0.000	77.737	0.000	0.000	82.481	47.017	-2.113	MWD+IFR1+MS
20300.000	90.000	179.657	11137.997	78.470	0.000	83.129	-0.000	78.470	0.000	0.000	83.155	47.072	-2.085	MWD+IFR1+MS
20400.000	90.000	179.657	11137.997	79.204	0.000	83.806	-0.000	79.204	0.000	0.000	83.831	47.127	-2.058	MWD+IFR1+MS
20500.000	90.000	179.657	11137.997	79.939	0.000	84.483	-0.000	79.939	0.000	0.000	84.509	47.183	-2.032	MWD+IFR1+MS
20600.000	90.000	179.657	11137.997	80.675	0.000	85.163	-0.000	80.675	0.000	0.000	85.188	47.239	-2.007	MWD+IFR1+MS
20700.000	90.000	179.657	11137.997	81.412	0.000	85.843	-0.000	81.412	0.000	0.000	85.868	47.296	-1.982	MWD+IFR1+MS
20800.000	90.000	179.657	11137.997	82.150	0.000	86.526	-0.000	82.150	0.000	0.000	86.550	47.353	-1.958	MWD+IFR1+MS
20900.000	90.000	179.657	11137.997	82.888	0.000	87.209	-0.000	82.888	0.000	0.000	87.233	47.410	-1.935	MWD+IFR1+MS
21000.000	90.000	179.657	11137.997	83.628	0.000	87.894	-0.000	83.628	0.000	0.000	87.917	47.469	-1.912	MWD+IFR1+MS
21100.000	90.000	179.657	11137.997	84.368	0.000	88.580	-0.000	84.368	0.000	0.000	88.603	47.527	-1.890	MWD+IFR1+MS
21200.000	90.000	179.657	11137.997	85.109	0.000	89.268	-0.000	85.109	0.000	0.000	89.291	47.586	-1.869	MWD+IFR1+MS
21300.000	90.000	179.657	11137.997	85.851	0.000	89.957	-0.000	85.851	0.000	0.000	89.979	47.646	-1.848	MWD+IFR1+MS
21400.000	90.000	179.657	11137.997	86.594	0.000	90.647	-0.000	86.594	0.000	0.000	90.669	47.705	-1.828	MWD+IFR1+MS
21500.000	90.000	179.657	11137.997	87.337	0.000	91.338	-0.000	87.337	0.000	0.000	91.360	47.766	-1.808	MWD+IFR1+MS
21600.000	90.000	179.657	11137.997	88.081	0.000	92.030	-0.000	88.081	0.000	0.000	92.052	47.827	-1.788	MWD+IFR1+MS
21700.000	90.000	179.657	11137.997	88.826	0.000	92.724	-0.000	88.826	0.000	0.000	92.745	47.888	-1.770	MWD+IFR1+MS
21800.000	90.000	179.657	11137.997	89.572	0.000	93.419	-0.000	89.572	0.000	0.000	93.439	47.950	-1.751	MWD+IFR1+MS
21900.000	90.000	179.657	11137.997	90.318	0.000	94.114	-0.000	90.318	0.000	0.000	94.135	48.012	-1.733	MWD+IFR1+MS
22000.000	90.000	179.657	11137.997	91.065	0.000	94.811	-0.000	91.065	0.000	0.000	94.832	48.075	-1.716	MWD+IFR1+MS
22100.000	90.000	179.657	11137.997	91.812	0.000	95.509	-0.000	91.812	0.000	0.000	95.529	48.138	-1.699	MWD+IFR1+MS
22200.000	90.000	179.657	11137.997	92.560	0.000	96.208	-0.000	92.560	0.000	0.000	96.228	48.202	-1.682	MWD+IFR1+MS
22300.000	90.000	179.657	11137.997	93.309	0.000	96.908	-0.000	93.309	0.000	0.000	96.928	48.266	-1.666	MWD+IFR1+MS
22400.000	90.000	179.657	11137.997	94.058	0.000	97.609	-0.000	94.058	0.000	0.000	97.628	48.330	-1.650	MWD+IFR1+MS
22500.000	90.000	179.657	11137.997	94.808	0.000	98.311	-0.000	94.808	0.000	0.000	98.330	48.395	-1.635	MWD+IFR1+MS
22600.000	90.000	179.657	11137.997	95.558	0.000	99.014	-0.000	95.558	0.000	0.000	99.032	48.461	-1.620	MWD+IFR1+MS
22700.000	90.000	179.657	11137.997	96.309	0.000	99.718	-0.000	96.309	0.000	0.000	99.736	48.527	-1.605	MWD+IFR1+MS
22800.000	90.000	179.657	11137.997	97.061	0.000	100.422	-0.000	97.061	0.000	0.000	100.440	48.593	-1.590	MWD+IFR1+MS
22900.000	90.000	179.657	11137.997	97.813	0.000	101.128	-0.000	97.813	0.000	0.000	101.146	48.660	-1.576	MWD+IFR1+MS
23000.000	90.000	179.657	11137.997	98.565	0.000	101.834	-0.000	98.565	0.000	0.000	101.852	48.727	-1.562	MWD+IFR1+MS
23100.000	90.000	179.657	11137.997	99.318	0.000	102.541	-0.000	99.318	0.000	0.000	102.559	48.795	-1.549	MWD+IFR1+MS
23200.000	90.000	179.657	11137.997	100.071	0.000	103.250	-0.000	100.071	0.000	0.000	103.267	48.863	-1.535	MWD+IFR1+MS

23300.000	90.000	179.657	11137.997	100.825	0.000	103.959	-0.000	100.825	0.000	0.000	103.976	48.931	-1.523	MWD+IFR1+MS
23400.000	90.000	179.657	11137.997	101.580	0.000	104.668	-0.000	101.580	0.000	0.000	104.685	49.000	-1.510	MWD+IFR1+MS
23500.000	90.000	179.657	11137.997	102.335	0.000	105.379	-0.000	102.335	0.000	0.000	105.395	49.070	-1.497	MWD+IFR1+MS
23600.000	90.000	179.657	11137.997	103.090	0.000	106.090	-0.000	103.090	0.000	0.000	106.107	49.140	-1.485	MWD+IFR1+MS
23700.000	90.000	179.657	11137.997	103.846	0.000	106.802	-0.000	103.846	0.000	0.000	106.818	49.210	-1.473	MWD+IFR1+MS
23800.000	90.000	179.657	11137.997	104.602	0.000	107.515	-0.000	104.602	0.000	0.000	107.531	49.281	-1.462	MWD+IFR1+MS
23813.571	90.000	179.657	11137.997	104.705	0.000	107.611	-0.000	104.705	0.000	0.000	107.627	49.290	-1.460	MWD+IFR1+MS
23903.578	90.000	179.657	11137.997	105.044	0.000	108.010	-0.000	105.044	0.000	0.000	108.028	55.497	-1.559	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_22

Plan Targets Poker Lake Unit 22 DTD South 173H

Target Name	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape
FTP 9	11297.12	440473.10	642840.20	7676.00	RECTANGLE
SHL 9	11235.54	440559.24	642743.76	7616.48	RECTANGLE
LTP 9	23813.58	427492.10	642917.90	7676.00	RECTANGLE
BHL 9	23903.58	427402.10	642918.70	7676.00	RECTANGLE



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

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

Background

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

Supporting Documentation

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

Figure 1: Winch System attached to BOP Stack

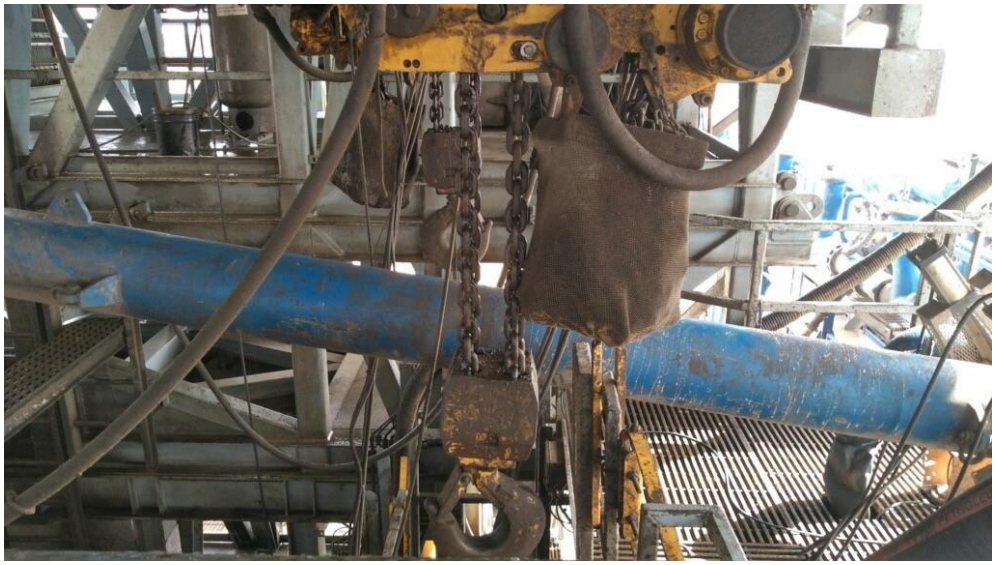


Figure 2: BOP Winch System

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

62 API STANDARD 53

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

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

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

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

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

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

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

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

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

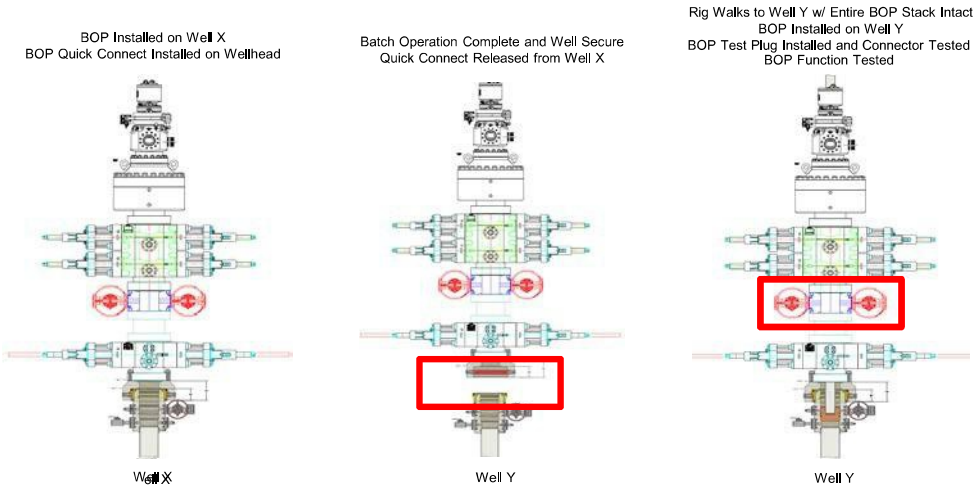
XTO Energy feels break testing and our current procedures meet the intent of CFR Title 43 Part 317 0and often exceed it. There has been no evidence that break testing results in more components failing than seen on full BOP tests. XTO Energy's internal standards requires complete BOPE tests more often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

Procedures

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

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

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



Summary

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

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

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

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

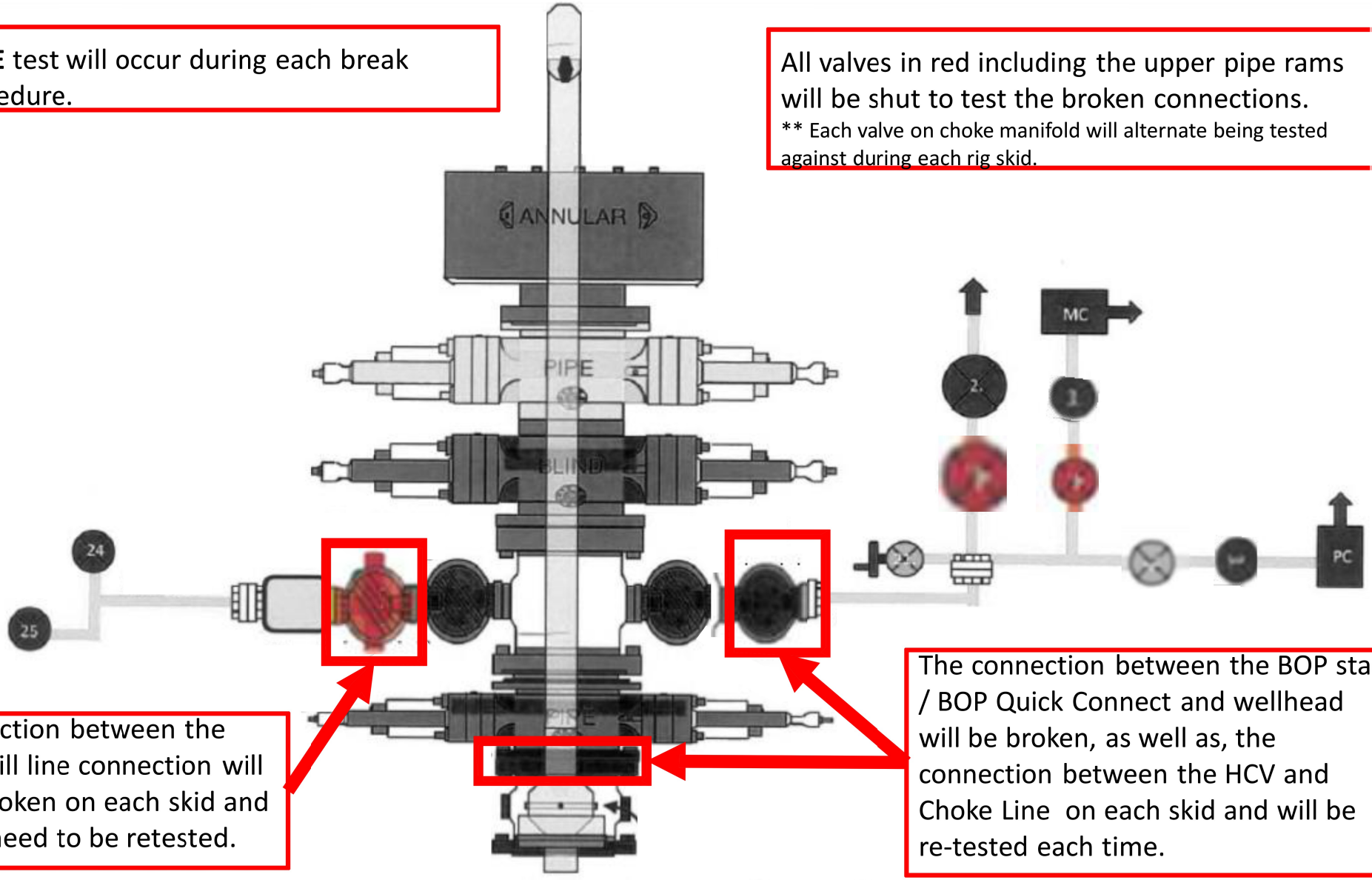
2. The first intermediate hole section drilled on the pad will be the deepest. All of the remaining hole sections will be the same depth or shallower.

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

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

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

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



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

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

10,000 PSI Annular BOP Variance Request

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

1. Component and Preventer Compatibility Tables

The tables below outline the tubulars and the compatible preventers in use. This table, combined with the drilling fluid, documents that two barriers to flow will be maintained at all times.

8-1/2" Production Hole Section 10M psi Requirement					
Component	**OD**	**Primary Preventer**	**RWP**	**Alternate Preventer(s)**	**RWP**
Drillpipe	5.000" or 4.500"	Annular	5M	Upper 3.5"-5.5" VBR Lower 3.5"-5.5" VBR	10M 10M
HWDP	5.000" or 4.500"	Annular	5M	Upper 3.5"-5.5" VBR Lower 3.5"-5.5" VBR	10M 10M
Jars	6.500"	Annular	5M	-	-
DCs and MWD tools	6.500"-8.000"	Annular	5M	-	-
Mud Motor	6.750"-8.000"	Annular	5M	-	-
Production Casing	5-1/2"	Annular	5M	-	-
Open-Hole	-	Blind Rams	10M	-	-

2. Well Control Procedures

Below are the minimal high-level tasks prescribed to assure a proper shut-in while drilling, tripping, running casing, pipe out of the hole (open hole), and moving the BHA through the BOPs. At least one well control drill will be performed weekly per crew to demonstrate compliance with the procedure and well control plan. The well control drill will be recorded in the daily drilling log. The type of drill will be determined by the ongoing operations, but reasonable attempts will be made to vary the type of drill conducted (pit, trip, open hole, choke, etc.). This well control plan will be available for review by rig personnel in the XTO Energy/Permian Operating drilling supervisor's office on location and on the rig floor. All BOP equipment will be tested as per 43.CFR.3172 with the exception of the 5000 psi annular which will be tested to 70% of its RWP.

General Procedure While Drilling

1. Sound alarm (alert crew)
2. Space out drill string
3. Shut down pumps (stop pumps and rotary)
4. Shut-in well (uppermost applicable BOP, typically annular preventer, first. HCR & choke will already be in the closed position.)
5. Confirm shut-in
6. Notify toolpusher/company representative
7. Read and record the following:
   a. SIDPP & SICP
   b. Pit gain
   c. Time
8. Regroup and identify forward plan

9. If pressure has built or is anticipated during the kill to reach 70% or greater of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure While Tripping

1. Sound alarm (alert crew)
2. Stab full-opening safety valve & close
3. Space out drill string
4. Shut-in well (uppermost applicable BOP, typically annular preventer, first. HCR & choke will already be in the closed position.)
5. Confirm shut-in
6. Notify toolpusher/company representative
7. Read and record the following:
    a. SIDPP & SICP
    b. Pit gain
    c. Time
8. Regroup and identify forward plan
9. If pressure has built or is anticipated during the kill to reach 70% of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure While Running Production Casing

a. Sound alarm (alert crew)
b. Stab crossover and full-opening safety valve and close
c. Space out string
d. Shut-in well (uppermost applicable BOP, typically annular preventer, first. HCR & choke will already be in the closed position.)
e. Confirm shut-in
f. Notify toolpusher/company representative
g. Read and record the following:
    a. SIDPP & SICP
    b. Pit gain
    c. Time
h. Regroup and identify forward plan
i. If pressure has built or is anticipated during the kill to reach 70% or greater of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure With No Pipe In Hole (Open Hole)

1. Sound alarm (alert crew)
2. Shut-in with blind rams (HCR & choke will already be in the closed position)
3. Confirm shut-in
4. Notify toolpusher/company representative
5. Read and record the following:
   a. SICP
   b. Pit gain
   c. Time
6. Regroup and identify forward plan

General Procedures While Pulling BHA Through Stack

1. PRIOR to pulling last joint of drillpipe through stack:
   a. Perform flow check. If flowing, continue to (b).
   b. Sound alarm (alert crew)
   c. Stab full-opening safety valve and close
   d. Space out drill string with tool joint just beneath the upper variable bore rams
   e. Shut-in using upper variable bore rams (HCR & choke will already be in the closed position)
   f. Confirm shut-in
   g. Notify toolpusher/company representative
   h. Read and record the following:
      i. SIDPP & SICP
      ii. Pit gain
      iii. Time
   i. Regroup and identify forward plan
2. With BHA in the stack and compatible ram preventer and pipe combination immediately available:
   a. Sound alarm (alert crew)
   b. Stab crossover and full-opening safety valve and close
   c. Space out drill string with upset just beneath the upper variable bore rams
   d. Shut-in using upper variable bore rams (HCR & choke will already be in the closed position)
   e. Confirm shut-in
   f. Notify toolpusher/company representative
   g. Read and record the following:
      i. SIDPP & SICP
      ii. Pit gain
      iii. Time

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

Description of Operations:

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

h. Regroup and identify forward plan

3. With BHA in the stack and NO compatible ram preventer and pipe combination immediately available:
    a. Sound alarm (alert crew)
    b. If possible, pull string clear of the stack and follow "Open Hole" procedure.
    c. If impossible to pull string clear of the stack:
    d. Stab crossover, make up one joint/stand of drillpipe and full-opening safety valve and close
    e. Space out drill string with tooljoint just beneath the upper variable bore ram
    f. Shut-in using upper variable bore ram (HCR & choke will already be in the closed position)
    g. Confirm shut-in
    h. Notify toolpusher/company representative
    i. Read and record the following:
        i. SIDPP & SICP
        ii. Pit gain
        iii. Time
    j. Regroup and identify forward plan

BLACK GOLD®

GATES ENGINEERING & SERVICES NORTH AMERICA
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EMAIL: gesna.quality@gates.com
WEB: www.gates.com/oilandgas

NEW CHOKE HOSE
INSTALLED 02-10-2024

CERTIFICATE OF CONFORMANCE

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

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

SIGNATURE: F. OSUNOS

TITLE: QUALITY ASSURANCE

DATE: 1/25/2024

H3-15716

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:	

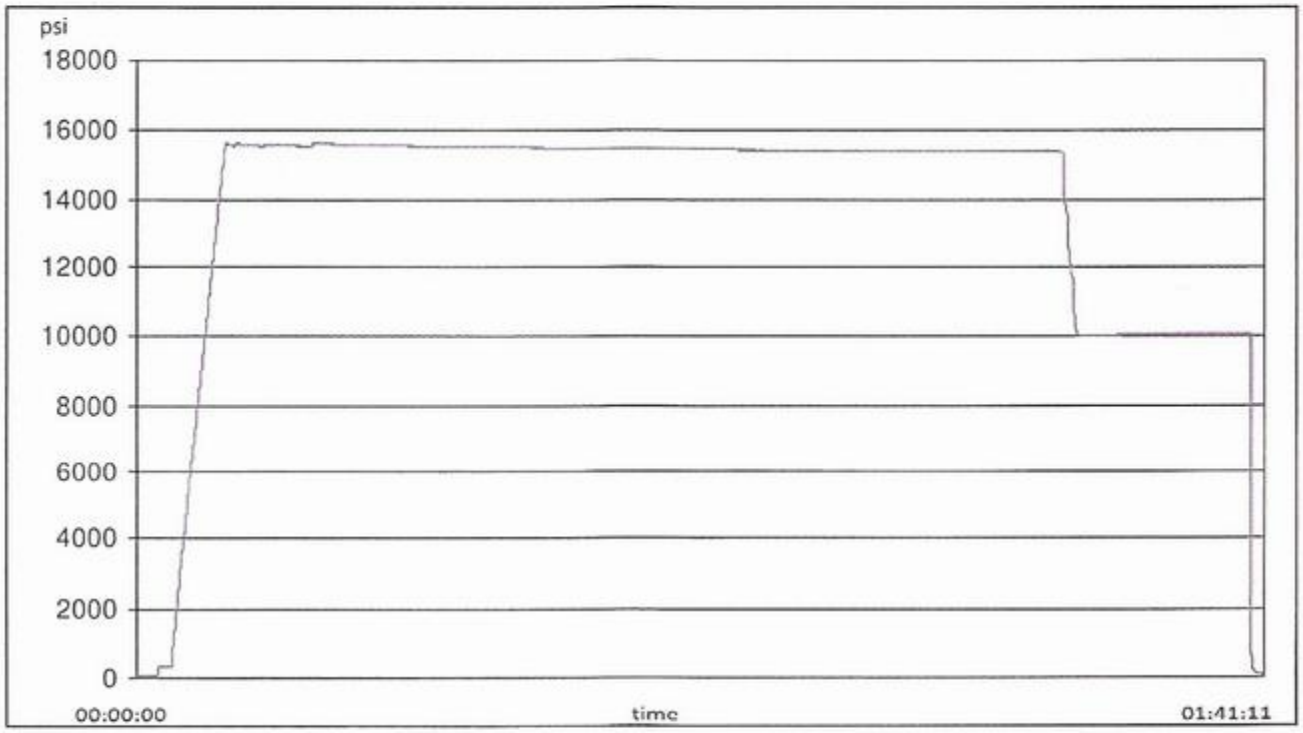
TEST INFORMATION

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



H3-15716

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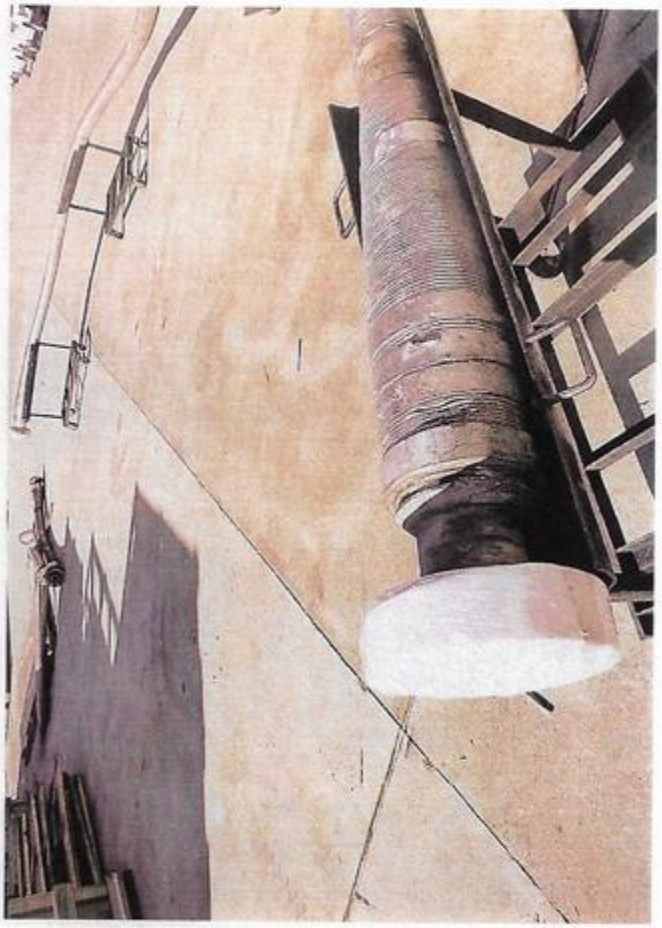
TEST REPORT

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



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	–

Notes

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

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

1-877-893-9461
connections@uss.com
www.usstubular.com

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

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

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

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connections@uss.com
www.usstubular.com

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Phone: (505) 476-3441

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Phone: (505) 629-6116

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

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

CONDITIONS

Action 397904

CONDITIONS

Operator:	OGRID:
XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	373075
	Action Number: 397904
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing.	11/15/2024
ward.rikala	If cement is not circulated to surface during cementing operations, a Cement Bond Log (CBL) is required.	11/15/2024
ward.rikala	Any previous COA's not addressed within the updated COA's still apply.	11/15/2024