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

Sundry Print Report
12/16/2024

Well Name: POKER LAKE UNIT 28 BS	**Well Location:** T25S / R31E / SEC 28 / SENE / 32.101858 / -103.776667	**County or Parish/State:** EDDY / NM
Well Number: 408H	**Type of Well:** OIL WELL	**Allottee or Tribe Name:**
Lease Number: NMLC062140	**Unit or CA Name:** POKER LAKE UNIT	**Unit or CA Number:** NMNM71016X
US Well Number:	**Operator:** XTO PERMIAN OPERATING LLC	

Notice of Intent

Sundry ID: 2820288

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 10/31/2024

Time Sundry Submitted: 02:32

Date proposed operation will begin: 11/21/2024

Procedure Description: XTO Permian Operating, LLC. respectfully requests approval to make the following changes to the approved APD. Changes to include KOP, FTP, LTP, BHL, and Proposed total Depth. No additional surface disturbance. FROM: KOP: 2435' FNL & 659' FEL OF SECTION 28-T25S-R31E 964' FNL & 473' FEL OF SECTION 27-T25S-R31E FTP: 2435' FNL & 330' FEL OF SECTION 28-T25S-R31E 1680' FNL & 475' FWL OF SECTION 27-T25S-R31E LTP: 100' FSL & 330' FEL OF SECTION 4-T26S-R31E 100' FSL & 1600' FWL OF SECTION 34-T25S-R31E BHL: 50' FSL & 330' FEL OF SECTION 4-T26S-R31E 50' FSL & 1600' FWL OF SECTION 34-T25S-R31E The proposed total depth is changing from 24831' MD; 11039' TVD (Bone Spring 3 Shale) to 19246' MD; 9445' TVD (Bone Spring 1 Sand). A saturated salt brine will be utilized while drilling through the salt formations.

NOI Attachments

Procedure Description

PLU_28_BS___408H_Sundry_Attachments_20241209114120.pdf

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Conditions of Approval

Additional

Poker_Lake_Unit_28_BS_309H_310H_209H_210H_COA_20241216082935.pdf

Operator

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

Operator Electronic Signature: TERRA SEBASTIAN

Signed on: DEC 09, 2024 11:41 AM

Name: XTO PERMIAN OPERATING LLC

Title: Regulatory Advisor

Street Address: 6401 HOLIDAY HILL ROAD SUITE 200

City: MIDLAND **State:** TX

Phone: (432) 999-3107

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

Field

Representative Name:

Street Address:

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

Phone:

Email address:

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752342234

BLM POC Email Address: cwalls@blm.gov

Disposition: Approved

Disposition Date: 12/16/2024

Signature: Chris Walls

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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. NMLC062140

6. If Indian, Allottee or Tribe Name

7. If Unit of CA/Agreement, Name and/or No. POKER LAKE UNIT/NMNM71016X

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

8. Well Name and No. POKER LAKE UNIT 28 BS/408H

2. Name of Operator XTO PERMIAN OPERATING LLC

9. API Well No.

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

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

10. Field and Pool or Exploratory Area JENNINGS/BONE SPRING, WEST

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

11. Country or Parish, State EDDY/NM

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

TYPE OF SUBMISSION	TYPE OF ACTION			
☑ 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 KOP, FTP, LTP, BHL, and Proposed total Depth.
No additional surface disturbance.

FROM:
KOP: 2435 FNL & 659 FEL OF SECTION 28-T25S-R31E 964 FNL & 473 FEL OF SECTION 27-T25S-R31E
FTP: 2435' FNL & 330' FEL OF SECTION 28-T25S-R31E 1680' FNL & 475' FWL OF SECTION 27-T25S-R31E
LTP: 100' FSL & 330' FEL OF SECTION 4-T26S-R31E 100' FSL & 1600' FWL OF SECTION 34-T25S-R31E
BHL: 50' FSL & 330' FEL OF SECTION 4-T26S-R31E 50' FSL & 1600' FWL OF SECTION 34-T25S-R31E

The proposed total depth is changing from 24831 MD; 11039 TVD (Bone Spring 3 Shale) to 19246 MD; 9445 TVD (Bone Spring 1 Sand).

Continued on page 3 additional information

14. I hereby certify that the foregoing is true and correct. Name *(Printed/Typed)* TERRA SEBASTIAN / Ph: (432) 999-3107

Title Regulatory Advisor

Signature (Electronic Submission)

Date 12/09/2024

THE SPACE FOR FEDERAL OR STATE OFICE USE

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

Title Petroleum Engineer

Date 12/16/2024

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

Office CARLSBAD

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

(Instructions on page 2)

GENERAL INSTRUCTIONS

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

SPECIFIC INSTRUCTIONS

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

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

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.
AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.
PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c)and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.
ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.
EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:
The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.
Response to this request is mandatory.
The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect 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.

Location of Well

0. SHL: SENE / 2435 FNL / 659 FEL / TWSP: 25S / RANGE: 31E / SECTION: 28 / LAT: 32.101858 / LONG: -103.776667 (TVD: 0 feet, MD: 0 feet)

PPP: SENE / 2435 FNL / 330 FEL / TWSP: 25S / RANGE: 31E / SECTION: 28 / LAT: 32.101856 / LONG: -103.775605 (TVD: 11039 feet, MD: 11400 feet)

PPP: SENE / 1650 FNL / 318 FEL / TWSP: 25S / RANGE: 31E / SECTION: 33 / LAT: 32.09035 / LONG: -103.775637 (TVD: 11039 feet, MD: 15900 feet)

PPP: NESE / 2648 FNL / 329 FEL / TWSP: 25S / RANGE: 31E / SECTION: 28 / LAT: 32.101271 / LONG: -103.775607 (TVD: 11039 feet, MD: 12000 feet)

PPP: NENE / 0 FNL / 318 FEL / TWSP: 25S / RANGE: 31E / SECTION: 33 / LAT: 32.093987 / LONG: -103.775627 (TVD: 11039 feet, MD: 14600 feet)

BHL: SESE / 50 FSL / 330 FEL / TWSP: 26S / RANGE: 31E / SECTION: 4 / LAT: 32.064911 / LONG: -103.775709 (TVD: 11039 feet, MD: 24831 feet)

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

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

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

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

COA

H_2S	○ No		○ Yes	
Potash / WIPP	◉ None	○ Secretary	○ R-111-Q	☐ Open Annulus ☐ WIPP
	Choose an option (including blank option.)			
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

*Changes approved through engineering via **Sundry 2820286,2820287,2820288_** on 12-15-2024_.*
Any previous COAs not addressed within the updated COAs still apply.

A. HYDROGEN SULFIDE

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

B. CASING

1. The **9-5/8** inch surface casing shall be set at approximately **994** feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.

    a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
    b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or **500 pounds compressive strength**, whichever is greater. (This is to include the lead cement)
    c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
    d. If cement falls back, remedial cementing will be done prior to drilling out that string.

2. The minimum required fill of cement behind the **7-5/8** inch intermediate casing is:
Operator has proposed to cement in two stages by conventionally cementing the first stage and performing a bradenhead squeeze on the second stage, contingent upon no returns to surface.

    a. **First stage:** Operator will cement with intent to reach the top of the **Brushy Canyon at 6920-6975'.**

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

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

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

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

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

3. The minimum required fill of cement behind the **5-1/2** inch production casing is:

- Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

C. PRESSURE CONTROL

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

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

    a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
    b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
    c. Manufacturer representative shall install the test plug for the initial BOP test.
    d. If the cement does not circulate and one-inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
    e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172 must be followed.

D. SPECIAL REQUIREMENT (S)

Unit Wells

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

Commercial Well Determination

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

BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for intervals utilizing a 5M BOPE or less. **(Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP.)**
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone

Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer **(575-706-2779)** prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-361-2822 Eddy County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per **43 CFR 3172**.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

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

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:
a. Spudding well (minimum of 24 hours)
b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
c. BOPE tests (minimum of 4 hours)

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

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

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

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

A. CASING

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

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

B. PRESSURE CONTROL

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

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

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

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

Approved by Zota Stevens on 12/16/2024
575-234-5998 / zstevens@blm.gov

GENERAL REQUIREMENTS

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

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

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

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

E. CASING

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

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

F. PRESSURE CONTROL

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

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

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

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

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

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

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

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

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

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

G. DRILLING MUD

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

H. WASTE MATERIAL AND FLUIDS

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

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

Approved by Zota Stevens on 12/16/2024
575-234-5998 / zstevens@blm.gov

C-102

Submit Electronically
Via OCD Permitting

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

Revised July 9, 2024

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

APD ID: 10400094975

WELL LOCATION INFORMATION

API Number	Pool Code	Pool Name
30-015	97860	JENNINGS;BONE SPRING; WEST

Property Code	Property Name	Well Number
	POKER LAKE UNIT 28 BS	408H

ORGID No.	Operator Name	Ground Level Elevation
373075	XTO PERMIAN OPERATING, LLC.	3,337'

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

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
H	28	25 S	31 E		2,435' FNL	659' FEL	32.101858	-103.776667	EDDY

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
N	34	25 S	31 E		50' FSL	1,600' FWL	32.079574	-103.769438	EDDY

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
400	Defining		No	U

Order Numbers. N/A
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
D	27	25 S	31 E		964' FNL	473' FEL	32.102899	-103.772974	EDDY

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
E	27	25 S	31 E		1,680' FNL	475' FWL	32.103931	-103.775985	EDDY

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
N	34	25 S	31 E		100' FSL	1,600' FWL	32.079711	-103.769438	EDDY

Unitized Area or Area of Uniform Interest	Spacing Unit Type	Ground Floor Elevation:
NMNM-071016X	☒ Horizontal ☐ Vertical	3,337'

OPERATOR CERTIFICATIONS

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling form the division.

Terra Sebastian — 10/30/2024

Signature — Date

Terra Sebastian

Printed Name

terra.b.sebastian@exxonmobil.com

Email Address

SURVEYOR CERTIFICATIONS

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

I, TIM C. PAPPAS, NEW MEXICO PROFESSIONAL SURVEYOR NO. 21209, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO, AND THAT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

30 Sept 2024

TIM C. PAPPAS
REGISTERED PROFESSIONAL LAND SURVEYOR
STATE OF NEW MEXICO NO. 21209

TIM C. PAPPAS NEW MEXICO 21209 PROFESSIONAL SURVEYOR

Signature and Seal of Professional Surveyor

Certificate Number	Date of Survey
TIM C. PAPPAS 21209	9/28/2024

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

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

DATE:	9-28-2024	PROJECT NO:	2023040169
DRAWN BY:	LM	SCALE:	
CHECKED BY:	CH	SHEET:	1 OF 2
FIELD CREW:	IR	REVISION:	NO

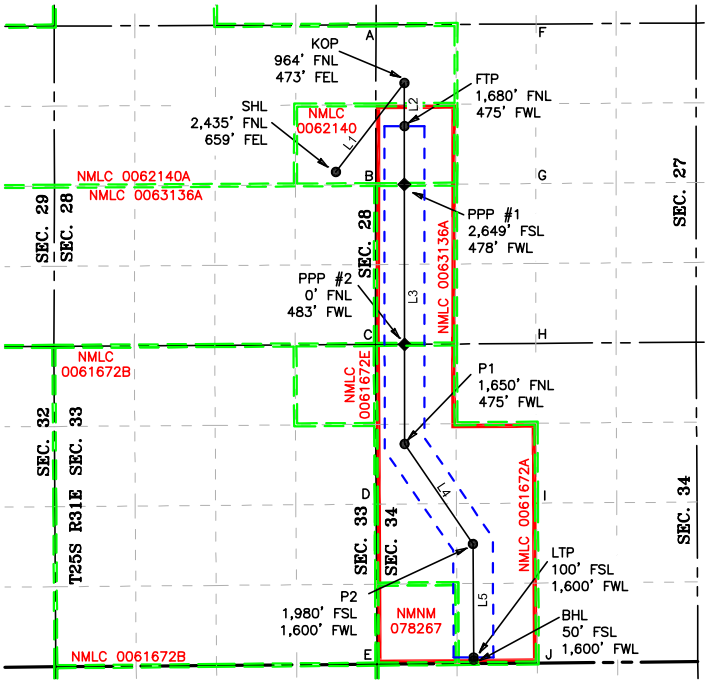
ACREAGE DEDICATION PLATS

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

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

CORNER COORDINATES (NAD83 NME)					
A - Y =	403,674.7	N	A - X =	714,373.5	E
B - Y =	401,027.1	N	B - X =	714,365.8	E
C - Y =	398,377.8	N	C - X =	714,362.5	E
D - Y =	395,732.5	N	D - X =	714,375.6	E
E - Y =	393,080.5	N	E - X =	714,388.8	E
F - Y =	403,690.4	N	F - X =	717,024.7	E
G - Y =	401,045.8	N	G - X =	717,021.9	E
H - Y =	398,397.9	N	H - X =	717,019.2	E
I - Y =	395,750.3	N	E - X =	717,032.3	E
J - Y =	393,100.7	N	F - X =	717,045.5	E
CORNER COORDINATES (NAD27 NME)					
A - Y =	403,616.8	N	A - X =	673,187.8	E
B - Y =	400,969.2	N	B - X =	673,180.0	E
C - Y =	398,320.0	N	C - X =	673,176.6	E
D - Y =	395,674.8	N	D - X =	673,189.6	E
E - Y =	393,022.8	N	E - X =	673,202.7	E
F - Y =	403,632.5	N	F - X =	675,839.0	E
G - Y =	400,988.0	N	G - X =	675,836.1	E
H - Y =	398,340.1	N	H - X =	675,833.3	E
I - Y =	395,692.6	N	E - X =	675,846.3	E
J - Y =	393,043.1	N	F - X =	675,859.4	E

COORDINATE TABLE					
SHL (NAD 83 NME)			FTP (NAD 83 NME)		
Y =	401,237.5	N	Y =	401,997.4	N
X =	713,707.4	E	X =	714,843.6	E
LAT. =	32.101858	°N	LAT. =	32.103931	°N
LONG. =	103.776667	°W	LONG. =	103.775985	°W
KOP (NAD 83 NME)					
Y =	402,713.6	N			
X =	714,843.4	E			
LAT. =	32.102899	°N			
LONG. =	103.772974	°W			
LTP (NAD 83 NME)			BHL (NAD 83 NME)		
Y =	393,192.7	N	Y =	393,142.7	N
X =	715,988.2	E	X =	715,988.5	E
LAT. =	32.079711	°N	LAT. =	32.079574	°N
LONG. =	103.769438	°W	LONG. =	103.769438	°W
P1 (NAD 83 NME)			P2 (NAD 83 NME)		
Y =	396,731.4	N	Y =	395,072.6	N
X =	714,845.7	E	X =	715,978.9	E
LAT. =	32.089455	°N	LAT. =	32.084879	°N
LONG. =	103.773067	°W	LONG. =	103.769436	°W
SHL (NAD 27 NME)			FTP (NAD 27 NME)		
Y =	401,179.6	N	Y =	401,939.5	N
X =	672,521.6	E	X =	673,657.9	E
LAT. =	32.101733	°N	LAT. =	32.103806	°N
LONG. =	103.776190	°W	LONG. =	103.772508	°W
KOP (NAD 27 NME)					
Y =	402,655.7	N			
X =	673,657.7	E			
LAT. =	32.105775	°N			
LONG. =	103.772497	°W			
LTP (NAD 27 NME)			BHL (NAD 27 NME)		
Y =	393,135.0	N	Y =	393,085.0	N
X =	674,802.1	E	X =	674,802.4	E
LAT. =	32.079587	°N	LAT. =	32.079449	°N
LONG. =	103.768962	°W	LONG. =	103.768962	°W
P1 (NAD 27 NME)			P2 (NAD 27 NME)		
Y =	396,673.7	N	Y =	395,014.9	N
X =	673,659.8	E	X =	674,792.9	E
LAT. =	32.089331	°N	LAT. =	32.084755	°N
LONG. =	103.772591	°W	LONG. =	103.768960	°W
PPP #1 (NAD 83 NME)			PPP #1 (NAD 27 NME)		
Y =	401,030.5	N	Y =	400,972.6	N
X =	714,844.0	E	X =	673,658.2	E
LAT. =	32.101273	°N	LAT. =	32.101148	°N
LONG. =	103.773001	°W	LONG. =	103.772523	°W
PPP #2 (NAD 83 NME)			PPP #2 (NAD 27 NME)		
Y =	398,381.4	N	Y =	398,323.6	N
X =	714,845.0	E	X =	673,659.1	E
LAT. =	32.093991	°N	LAT. =	32.093866	°N
LONG. =	103.773042	°W	LONG. =	103.772565	°W



LEGEND

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

LINE TABLE		
LINE	AZIMUTH	LENGTH
L1	37° 34'58"	1,862.65'
L2	179° 59'14"	716.20'
L3	179° 58'40"	5,266.05'
L4	145° 39'35"	2,088.87'
L5	179° 42'56"	1,930.01'

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

DATE:	9-28-2024	PROJECT NO:	2023040169
DRAWN BY:	LM	SCALE:	1" = 2,500'
CHECKED BY:	CH	SHEET:	2 OF 2
FIELD CREW:	IR	REVISION:	NO

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

XTO Energy Inc.
POKER LAKE UNIT 28 BS 408H
Projected TD: 19246.41' MD / 9445' TVD
SHL: 2435' FNL & 659' FEL , Section 28, T25S, R31E
BHL: 50' FSL & 1600' FWL , Section 34, T25S, R31E
EDDY County, NM

1. Geologic Name of Surface Formation

A. Quaternary

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

Formation	Well Depth (TVD)	Water/Oil/Gas
Rustler	850'	Water
Top of Salt	1221'	Water
Base of Salt	4093'	Water
Delaware	4266'	Water
Brushy Canyon	6975'	Water/Oil/Gas
Bone Spring	8219'	Water
Avalon	8368'	Water/Oil/Gas
1st Bone Spring	8984'	Water/Oil/Gas
Target/Land Curve	9445'	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 @ 950' (271' 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 8851.15' and cemented to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 19246.41 MD/TD and 5.5 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 8551.15 feet).

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0' – 950'	9.625	40	J-55	BTC	New	1.63	6.63	16.58
8.75	0' – 4000'	7.625	29.7	RY P-110	Flush Joint	New	4.04	2.71	2.12
8.75	4000' – 8851.15'	7.625	29.7	HC L-80	Flush Joint	New	2.94	2.35	2.82
6.75	0' – 8751.15'	5.5	20	RY P-110	Freedom/Semi-Permium	New	1.05	2.71	2.40
6.75	8751.15' - 19246.41'	5.5	20	RY P-110	Talon/Semi-Flush	New	1.05	2.51	2.40

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

Wellhead:

Operator will utilize Multibowl System SEE ATTACHED

4. Cement Program

Surface Casing: 9.625, 40 New BTC, J-55 casing to be set at +/- 950'

Lead: 210 sxs EconoCem-HLTRRC (mixed at 10.5 ppg, 1.87 ft3/sx, 10.13 gal/sx water)
Tail: 130 sxs Class C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)
Top of Cement: Surface
Compressives: 12-hr = 900 psi 24 hr = 1500 psi

Intermediate Casing: 7.625, 29.7 New casing to be set at +/- 8851.15'
1st Stage
Optional Lead: 370 sxs Class C (mixed at 10.5 ppg, 2.77 ft3/sx, 15.59 gal/sx water)
TOC: Surface
Tail: 170 sxs Class C (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)
TOC: Brushy Canyon @ 6975
Compressives: 12-hr = 900 psi 24 hr = 1150 psi

2nd Stage
Lead: 0 sxs Class C (mixed at 12.9 ppg, 2.16 ft3/sx, 9.61 gal/sx water)
Tail: 790 sxs Class C (mixed at 14.8 ppg, 1.33 ft3/sx, 6.39 gal/sx water)
Top of Cement: 0
Compressives: 12-hr = 900 psi 24 hr = 1150 psi

XTO requests to pump a two stage cement job on the 7-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brush Canyon (6975') and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If cement is not visually confirmed to circulate to surface, the final cement top after the second stage job will be verified by Echo-meter. If necessary, a top out consisting of 1,500 sack of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. If cement is still unable to circulate to surface, another Echo-meter run will be performed for cement top verification.

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

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

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

Production Casing: 5.5, 20 New Talon/Semi-Flush, RY P-110 casing to be set at +/- 19246.41'

Lead: 20 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft3/sx, 15.00 gal/sx water) Top of Cement: 8551.15 feet
Tail: 730 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft3/sx, 8.38 gal/sx water) Top of Cement: 9051.15 feet
Compressives: 12-hr = 800 psi 24 hr = 1500 psi

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

5. Pressure Control Equipment

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

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

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

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

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

6. Proposed Mud Circulation System

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)	Additional Comments
0' - 950'	12.25	FW/Native	8.4-8.9	35-40	NC	Fresh water or native water
950' - 8851.15'	8.75	Saturated brine for salt interval / Direct Emulsion	9.5-10	30-32	NC	Fully saturated salt across salado / salt
8851.15' - 19246.41'	6.75	OBM	9-9.5	50-60	NC - 20	N/A

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

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

7. Auxiliary Well Control and Monitoring Equipment

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

8. Logging, Coring and Testing Program

Open hole logging will not be done on this well.

9. Abnormal Pressures and Temperatures / Potential Hazards

None Anticipated. BHT of 160 to 180 F is anticipated. No H2S is expected but monitors will be in place to detect any H2S occurrences. Should these circumstances be encountered the operator and drilling contractor are prepared to take all necessary steps to ensure safety of all personnel and environment. Lost circulation could occur but is not expected to be a serious problem in this area and hole seepage will be compensated for by additions of small amounts of LCM in the drilling fluid.

10. Anticipated Starting Date and Duration of Operations

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

Well Plan Report - Poker Lake Unit 28 BS 408H

Measured Depth:	19246.41 ft
TVD RKB:	9445.00 ft
Location	
Cartographic Reference System:	New Mexico East - NAD 27
Northing:	401179.60 ft
Easting:	672521.60 ft
RKB:	3369.00 ft
Ground Level:	3337.00 ft
North Reference:	Grid
Convergence Angle:	0.30 Deg

Plan Sections Poker Lake Unit 28 BS 408H

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	
2153.56	21.07	37.58	2129.97	151.80	116.83	2.00	0.00	2.00	
6268.79	21.07	37.58	5970.03	1324.29	1019.21	0.00	0.00	0.00	
7322.34	0.00	0.00	7000.00	1476.10	1136.04	-2.00	0.00	2.00	
9051.15	0.00	0.00	8728.80	1476.10	1136.04	0.00	0.00	0.00	
10176.15	90.00	179.98	9445.00	759.90	1136.30	8.00	0.00	8.00	FTP 14
14576.15	90.00	179.98	9445.00	-3640.10	1137.89	0.00	0.00	0.00	
15791.14	90.00	155.68	9445.00	-4818.90	1392.12	-0.00	-2.00	2.00	
17391.14	90.00	155.68	9445.00	-6276.91	2051.06	0.00	0.00	0.00	
18743.78	90.00	182.73	9445.00	-7593.32	2302.04	-0.00	2.00	2.00	
19195.58	90.00	182.73	9445.00	-8044.60	2280.50	0.00	0.00	0.00	LTP 14
19246.41	90.00	182.73	9445.00	-8095.37	2278.08	0.00	0.00	0.00	BHL 8

Position Uncertainty Poker Lake Unit 28 BS 408H

Measured Depth (ft)	Inclination (°)	Azimuth (°)	TVD RKB (ft)	Highside Error (ft)	Bias (ft)	Lateral Error (ft)	Bias (ft)	Vertical Error (ft)	Bias (ft)	Magnitude of Bias (ft)	Semi-major Error (ft)	Semi-minor Error (ft)	Semi-minor Azimuth (°)	Tool Used
0.000	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	2.325	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	2.374	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	2.406	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	2.443	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	2.485	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	2.531	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	2.581	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	2.634	0.000	0.000	4.752	3.849	128.859	MWD+IFR1+MS
1200.000	2.000	37.583	1199.980	5.288	0.000	4.219	0.000	2.690	0.000	0.000	5.295	4.214	131.347	MWD+IFR1+MS
1300.000	4.000	37.583	1299.838	6.037	0.000	4.610	0.000	2.750	0.000	0.000	6.068	4.582	134.925	MWD+IFR1+MS
1400.000	6.000	37.583	1399.452	6.714	0.000	4.996	0.000	2.815	0.000	0.000	6.774	4.942	-43.380	MWD+IFR1+MS
1500.000	8.000	37.583	1498.702	7.339	0.000	5.377	0.000	2.889	0.000	0.000	7.430	5.300	-42.402	MWD+IFR1+MS
1600.000	10.000	37.583	1597.465	7.921	0.000	5.756	0.000	2.971	0.000	0.000	8.046	5.658	-41.766	MWD+IFR1+MS
1700.000	12.000	37.583	1695.623	8.470	0.000	6.133	0.000	3.066	0.000	0.000	8.629	6.016	-41.317	MWD+IFR1+MS
1800.000	14.000	37.583	1793.055	8.990	0.000	6.510	0.000	3.174	0.000	0.000	9.186	6.376	-40.979	MWD+IFR1+MS
1900.000	16.000	37.583	1889.643	9.486	0.000	6.887	0.000	3.297	0.000	0.000	9.720	6.739	-40.711	MWD+IFR1+MS
2000.000	18.000	37.583	1985.268	9.960	0.000	7.266	0.000	3.437	0.000	0.000	10.234	7.105	-40.488	MWD+IFR1+MS
2100.000	20.000	37.583	2079.816	10.416	0.000	7.648	0.000	3.595	0.000	0.000	10.732	7.475	-40.292	MWD+IFR1+MS
2153.558	21.071	37.583	2129.970	10.559	0.000	7.845	0.000	3.650	0.000	0.000	10.908	7.674	-40.301	MWD+IFR1+MS
2200.000	21.071	37.583	2173.306	10.691	0.000	8.015	0.000	3.695	0.000	0.000	11.031	7.848	-40.317	MWD+IFR1+MS
2300.000	21.071	37.583	2266.620	10.979	0.000	8.395	0.000	3.804	0.000	0.000	11.299	8.234	-40.220	MWD+IFR1+MS
2400.000	21.071	37.583	2359.933	11.284	0.000	8.789	0.000	3.921	0.000	0.000	11.585	8.630	-39.981	MWD+IFR1+MS
2500.000	21.071	37.583	2453.246	11.597	0.000	9.186	0.000	4.044	0.000	0.000	11.877	9.028	-39.741	MWD+IFR1+MS
2600.000	21.071	37.583	2546.560	11.919	0.000	9.585	0.000	4.172	0.000	0.000	12.177	9.429	-39.500	MWD+IFR1+MS

2700.000	21.071	37.583	2639.873	12.248	0.000	9.986	0.000	4.305	0.000	0.000	12.484	9.832	-39.258	MWD+IFR1+MS
2800.000	21.071	37.583	2733.187	12.584	0.000	10.390	0.000	4.441	0.000	0.000	12.796	10.236	-39.013	MWD+IFR1+MS
2900.000	21.071	37.583	2826.500	12.926	0.000	10.795	0.000	4.581	0.000	0.000	13.114	10.642	-38.766	MWD+IFR1+MS
3000.000	21.071	37.583	2919.814	13.274	0.000	11.201	0.000	4.725	0.000	0.000	13.437	11.050	-38.517	MWD+IFR1+MS
3100.000	21.071	37.583	3013.127	13.627	0.000	11.609	0.000	4.872	0.000	0.000	13.765	11.458	-38.266	MWD+IFR1+MS
3200.000	21.071	37.583	3106.441	13.985	0.000	12.018	0.000	5.022	0.000	0.000	14.097	11.868	-38.011	MWD+IFR1+MS
3300.000	21.071	37.583	3199.754	14.347	0.000	12.428	0.000	5.175	0.000	0.000	14.434	12.279	-37.753	MWD+IFR1+MS
3400.000	21.071	37.583	3293.068	14.714	0.000	12.839	0.000	5.330	0.000	0.000	14.774	12.691	-37.492	MWD+IFR1+MS
3500.000	21.071	37.583	3386.381	15.085	0.000	13.252	0.000	5.488	0.000	0.000	15.119	13.103	-37.226	MWD+IFR1+MS
3600.000	21.071	37.583	3479.694	15.459	0.000	13.664	0.000	5.649	0.000	0.000	15.466	13.517	-36.957	MWD+IFR1+MS
3700.000	21.071	37.583	3573.008	15.837	0.000	14.078	0.000	5.811	0.000	0.000	15.817	13.931	-36.683	MWD+IFR1+MS
3800.000	21.071	37.583	3666.321	16.218	0.000	14.492	0.000	5.976	0.000	0.000	16.171	14.345	-36.404	MWD+IFR1+MS
3900.000	21.071	37.583	3759.635	16.601	0.000	14.907	0.000	6.142	0.000	0.000	16.527	14.761	-36.120	MWD+IFR1+MS
4000.000	21.071	37.583	3852.948	16.988	0.000	15.323	0.000	6.310	0.000	0.000	16.887	15.176	-35.830	MWD+IFR1+MS
4100.000	21.071	37.583	3946.262	17.377	0.000	15.739	0.000	6.481	0.000	0.000	17.248	15.592	-35.534	MWD+IFR1+MS
4200.000	21.071	37.583	4039.575	17.768	0.000	16.155	0.000	6.653	0.000	0.000	17.612	16.009	-35.232	MWD+IFR1+MS
4300.000	21.071	37.583	4132.889	18.162	0.000	16.572	0.000	6.826	0.000	0.000	17.978	16.426	-34.923	MWD+IFR1+MS
4400.000	21.071	37.583	4226.202	18.557	0.000	16.990	0.000	7.002	0.000	0.000	18.347	16.843	-34.607	MWD+IFR1+MS
4500.000	21.071	37.583	4319.516	18.955	0.000	17.407	0.000	7.179	0.000	0.000	18.717	17.261	-34.282	MWD+IFR1+MS
4600.000	21.071	37.583	4412.829	19.354	0.000	17.825	0.000	7.357	0.000	0.000	19.089	17.679	-33.950	MWD+IFR1+MS
4700.000	21.071	37.583	4506.143	19.756	0.000	18.244	0.000	7.537	0.000	0.000	19.463	18.097	-33.608	MWD+IFR1+MS
4800.000	21.071	37.583	4599.456	20.158	0.000	18.663	0.000	7.719	0.000	0.000	19.838	18.516	-33.257	MWD+IFR1+MS
4900.000	21.071	37.583	4692.769	20.563	0.000	19.082	0.000	7.902	0.000	0.000	20.215	18.934	-32.896	MWD+IFR1+MS
5000.000	21.071	37.583	4786.083	20.968	0.000	19.501	0.000	8.086	0.000	0.000	20.594	19.353	-32.525	MWD+IFR1+MS
5100.000	21.071	37.583	4879.396	21.375	0.000	19.921	0.000	8.272	0.000	0.000	20.974	19.773	-32.142	MWD+IFR1+MS
5200.000	21.071	37.583	4972.710	21.784	0.000	20.341	0.000	8.460	0.000	0.000	21.355	20.192	-31.747	MWD+IFR1+MS
5300.000	21.071	37.583	5066.023	22.193	0.000	20.761	0.000	8.648	0.000	0.000	21.738	20.611	-31.340	MWD+IFR1+MS
5400.000	21.071	37.583	5159.337	22.604	0.000	21.181	0.000	8.839	0.000	0.000	22.122	21.031	-30.919	MWD+IFR1+MS
5500.000	21.071	37.583	5252.650	23.016	0.000	21.601	0.000	9.030	0.000	0.000	22.507	21.451	-30.483	MWD+IFR1+MS
5600.000	21.071	37.583	5345.964	23.429	0.000	22.022	0.000	9.223	0.000	0.000	22.893	21.871	-30.033	MWD+IFR1+MS
5700.000	21.071	37.583	5439.277	23.842	0.000	22.443	0.000	9.418	0.000	0.000	23.281	22.291	-29.566	MWD+IFR1+MS
5800.000	21.071	37.583	5532.591	24.257	0.000	22.864	0.000	9.614	0.000	0.000	23.669	22.711	-29.082	MWD+IFR1+MS
5900.000	21.071	37.583	5625.904	24.673	0.000	23.285	0.000	9.811	0.000	0.000	24.059	23.131	-28.581	MWD+IFR1+MS

6000.000	21.071	37.583	5719.217	25.089	0.000	23.706	0.000	10.010	0.000	0.000	24.449	23.551	-28.060	MWD+IFR1+MS
6100.000	21.071	37.583	5812.531	25.506	0.000	24.128	0.000	10.210	0.000	0.000	24.840	23.971	-27.519	MWD+IFR1+MS
6200.000	21.071	37.583	5905.844	25.924	0.000	24.549	0.000	10.411	0.000	0.000	25.233	24.392	-26.956	MWD+IFR1+MS
6268.785	21.071	37.583	5970.030	26.210	0.000	24.837	0.000	10.550	0.000	0.000	25.499	24.680	-26.672	MWD+IFR1+MS
6300.000	20.447	37.583	5999.218	26.359	0.000	24.966	0.000	10.613	0.000	0.000	25.618	24.810	-26.584	MWD+IFR1+MS
6400.000	18.447	37.583	6093.509	26.854	0.000	25.376	0.000	10.821	0.000	0.000	26.037	25.223	-26.923	MWD+IFR1+MS
6500.000	16.447	37.583	6188.903	27.364	0.000	25.781	0.000	11.031	0.000	0.000	26.506	25.628	-27.986	MWD+IFR1+MS
6600.000	14.447	37.583	6285.286	27.831	0.000	26.175	0.000	11.227	0.000	0.000	26.968	26.023	-28.976	MWD+IFR1+MS
6700.000	12.447	37.583	6382.540	28.253	0.000	26.559	0.000	11.408	0.000	0.000	27.423	26.408	-29.877	MWD+IFR1+MS
6800.000	10.447	37.583	6480.546	28.630	0.000	26.933	0.000	11.576	0.000	0.000	27.869	26.781	-30.684	MWD+IFR1+MS
6900.000	8.447	37.583	6579.185	28.963	0.000	27.296	0.000	11.734	0.000	0.000	28.305	27.143	-31.394	MWD+IFR1+MS
7000.000	6.447	37.583	6678.336	29.250	0.000	27.647	0.000	11.881	0.000	0.000	28.731	27.494	-32.011	MWD+IFR1+MS
7100.000	4.447	37.583	6777.880	29.492	0.000	27.988	0.000	12.021	0.000	0.000	29.145	27.833	-32.539	MWD+IFR1+MS
7200.000	2.447	37.583	6877.694	29.689	0.000	28.318	0.000	12.153	0.000	0.000	29.548	28.161	-32.983	MWD+IFR1+MS
7300.000	0.447	37.583	6977.657	29.842	0.000	28.637	0.000	12.280	0.000	0.000	29.937	28.478	-33.348	MWD+IFR1+MS
7322.344	0.000	0.000	7000.000	28.995	0.000	29.570	0.000	12.308	0.000	0.000	30.003	28.547	-33.363	MWD+IFR1+MS
7400.000	0.000	0.000	7077.656	29.232	0.000	29.796	0.000	12.404	0.000	0.000	30.225	28.789	-33.423	MWD+IFR1+MS
7500.000	0.000	0.000	7177.656	29.539	0.000	30.093	0.000	12.531	0.000	0.000	30.518	29.100	-33.508	MWD+IFR1+MS
7600.000	0.000	0.000	7277.656	29.849	0.000	30.392	0.000	12.661	0.000	0.000	30.815	29.413	-33.614	MWD+IFR1+MS
7700.000	0.000	0.000	7377.656	30.160	0.000	30.692	0.000	12.795	0.000	0.000	31.113	29.726	-33.719	MWD+IFR1+MS
7800.000	0.000	0.000	7477.656	30.472	0.000	30.994	0.000	12.931	0.000	0.000	31.412	30.041	-33.826	MWD+IFR1+MS
7900.000	0.000	0.000	7577.656	30.786	0.000	31.297	0.000	13.070	0.000	0.000	31.713	30.357	-33.932	MWD+IFR1+MS
8000.000	0.000	0.000	7677.656	31.100	0.000	31.600	0.000	13.213	0.000	0.000	32.015	30.673	-34.038	MWD+IFR1+MS
8100.000	0.000	0.000	7777.656	31.415	0.000	31.905	0.000	13.359	0.000	0.000	32.318	30.990	-34.145	MWD+IFR1+MS
8200.000	0.000	0.000	7877.656	31.731	0.000	32.212	0.000	13.508	0.000	0.000	32.622	31.309	-34.252	MWD+IFR1+MS
8300.000	0.000	0.000	7977.656	32.047	0.000	32.519	0.000	13.660	0.000	0.000	32.927	31.628	-34.359	MWD+IFR1+MS
8400.000	0.000	0.000	8077.656	32.365	0.000	32.827	0.000	13.816	0.000	0.000	33.233	31.948	-34.467	MWD+IFR1+MS
8500.000	0.000	0.000	8177.656	32.684	0.000	33.136	0.000	13.975	0.000	0.000	33.541	32.269	-34.574	MWD+IFR1+MS
8600.000	0.000	0.000	8277.656	33.003	0.000	33.447	0.000	14.137	0.000	0.000	33.849	32.590	-34.682	MWD+IFR1+MS
8700.000	0.000	0.000	8377.656	33.323	0.000	33.758	0.000	14.302	0.000	0.000	34.158	32.912	-34.790	MWD+IFR1+MS
8800.000	0.000	0.000	8477.656	33.644	0.000	34.070	0.000	14.471	0.000	0.000	34.469	33.236	-34.898	MWD+IFR1+MS
8900.000	0.000	0.000	8577.656	33.966	0.000	34.383	0.000	14.643	0.000	0.000	34.780	33.559	-35.006	MWD+IFR1+MS
9000.000	0.000	0.000	8677.656	34.288	0.000	34.697	0.000	14.819	0.000	0.000	35.092	33.884	-35.115	MWD+IFR1+MS

9051.146	0.000	0.000	8728.803	34.451	0.000	34.856	0.000	14.910	0.000	0.000	35.248	34.050	-35.140	MWD+IFR1+MS
9100.000	3.908	179.979	8777.619	34.156	0.000	35.000	-0.000	14.996	0.000	0.000	35.392	34.209	-35.396	MWD+IFR1+MS
9200.000	11.908	179.979	8876.587	33.787	0.000	35.266	-0.000	15.205	0.000	0.000	35.985	34.792	128.815	MWD+IFR1+MS
9300.000	19.908	179.979	8972.679	33.481	0.000	35.505	-0.000	15.576	0.000	0.000	37.073	35.245	111.876	MWD+IFR1+MS
9400.000	27.908	179.979	9064.024	32.744	0.000	35.713	-0.000	16.179	0.000	0.000	38.124	35.517	105.627	MWD+IFR1+MS
9500.000	35.908	179.979	9148.845	31.677	0.000	35.887	-0.000	17.065	0.000	0.000	39.013	35.715	102.896	MWD+IFR1+MS
9600.000	43.908	179.979	9225.490	30.413	0.000	36.028	-0.000	18.241	0.000	0.000	39.716	35.865	101.580	MWD+IFR1+MS
9700.000	51.908	179.979	9292.467	29.117	0.000	36.137	-0.000	19.678	0.000	0.000	40.233	35.972	100.994	MWD+IFR1+MS
9800.000	59.908	179.979	9348.474	27.980	0.000	36.213	-0.000	21.323	0.000	0.000	40.582	36.041	100.862	MWD+IFR1+MS
9900.000	67.908	179.979	9392.419	27.208	0.000	36.258	-0.000	23.109	0.000	0.000	40.788	36.073	101.045	MWD+IFR1+MS
10000.000	75.908	179.979	9423.448	26.985	0.000	36.273	-0.000	24.969	0.000	0.000	40.887	36.071	101.444	MWD+IFR1+MS
10100.000	83.908	179.979	9440.956	27.428	0.000	36.261	-0.000	26.836	0.000	0.000	40.922	36.037	101.962	MWD+IFR1+MS
10176.146	90.000	179.979	9445.000	27.745	0.000	36.231	-0.000	27.745	0.000	0.000	40.934	35.989	102.346	MWD+IFR1+MS
10200.000	90.000	179.979	9445.000	27.822	0.000	36.218	-0.000	27.822	0.000	0.000	40.939	35.971	102.460	MWD+IFR1+MS
10300.000	90.000	179.979	9445.000	28.102	0.000	36.180	-0.000	28.102	0.000	0.000	40.959	35.908	102.966	MWD+IFR1+MS
10400.000	90.000	179.979	9445.000	28.405	0.000	36.161	-0.000	28.405	0.000	0.000	40.981	35.863	103.501	MWD+IFR1+MS
10500.000	90.000	179.979	9445.000	28.727	0.000	36.159	-0.000	28.727	0.000	0.000	41.005	35.832	104.060	MWD+IFR1+MS
10600.000	90.000	179.979	9445.000	29.066	0.000	36.172	-0.000	29.066	0.000	0.000	41.031	35.815	104.646	MWD+IFR1+MS
10700.000	90.000	179.979	9445.000	29.422	0.000	36.202	-0.000	29.422	0.000	0.000	41.060	35.812	105.263	MWD+IFR1+MS
10800.000	90.000	179.979	9445.000	29.794	0.000	36.247	-0.000	29.794	0.000	0.000	41.091	35.824	105.914	MWD+IFR1+MS
10900.000	90.000	179.979	9445.000	30.182	0.000	36.309	-0.000	30.182	0.000	0.000	41.126	35.848	106.602	MWD+IFR1+MS
11000.000	90.000	179.979	9445.000	30.586	0.000	36.387	-0.000	30.586	0.000	0.000	41.163	35.886	107.332	MWD+IFR1+MS
11100.000	90.000	179.979	9445.000	31.004	0.000	36.480	-0.000	31.004	0.000	0.000	41.204	35.937	108.106	MWD+IFR1+MS
11200.000	90.000	179.979	9445.000	31.436	0.000	36.590	-0.000	31.436	0.000	0.000	41.249	36.001	108.930	MWD+IFR1+MS
11300.000	90.000	179.979	9445.000	31.882	0.000	36.714	-0.000	31.882	0.000	0.000	41.297	36.076	109.808	MWD+IFR1+MS
11400.000	90.000	179.979	9445.000	32.340	0.000	36.855	-0.000	32.340	0.000	0.000	41.350	36.163	110.744	MWD+IFR1+MS
11500.000	90.000	179.979	9445.000	32.811	0.000	37.010	-0.000	32.811	0.000	0.000	41.408	36.260	111.743	MWD+IFR1+MS
11600.000	90.000	179.979	9445.000	33.294	0.000	37.181	-0.000	33.294	0.000	0.000	41.472	36.368	112.811	MWD+IFR1+MS
11700.000	90.000	179.979	9445.000	33.788	0.000	37.366	-0.000	33.788	0.000	0.000	41.541	36.485	113.951	MWD+IFR1+MS
11800.000	90.000	179.979	9445.000	34.293	0.000	37.567	-0.000	34.293	0.000	0.000	41.617	36.610	115.169	MWD+IFR1+MS
11900.000	90.000	179.979	9445.000	34.808	0.000	37.781	-0.000	34.808	0.000	0.000	41.701	36.743	116.468	MWD+IFR1+MS
12000.000	90.000	179.979	9445.000	35.333	0.000	38.010	-0.000	35.333	0.000	0.000	41.792	36.882	117.853	MWD+IFR1+MS
12100.000	90.000	179.979	9445.000	35.868	0.000	38.252	-0.000	35.868	0.000	0.000	41.893	37.027	119.325	MWD+IFR1+MS

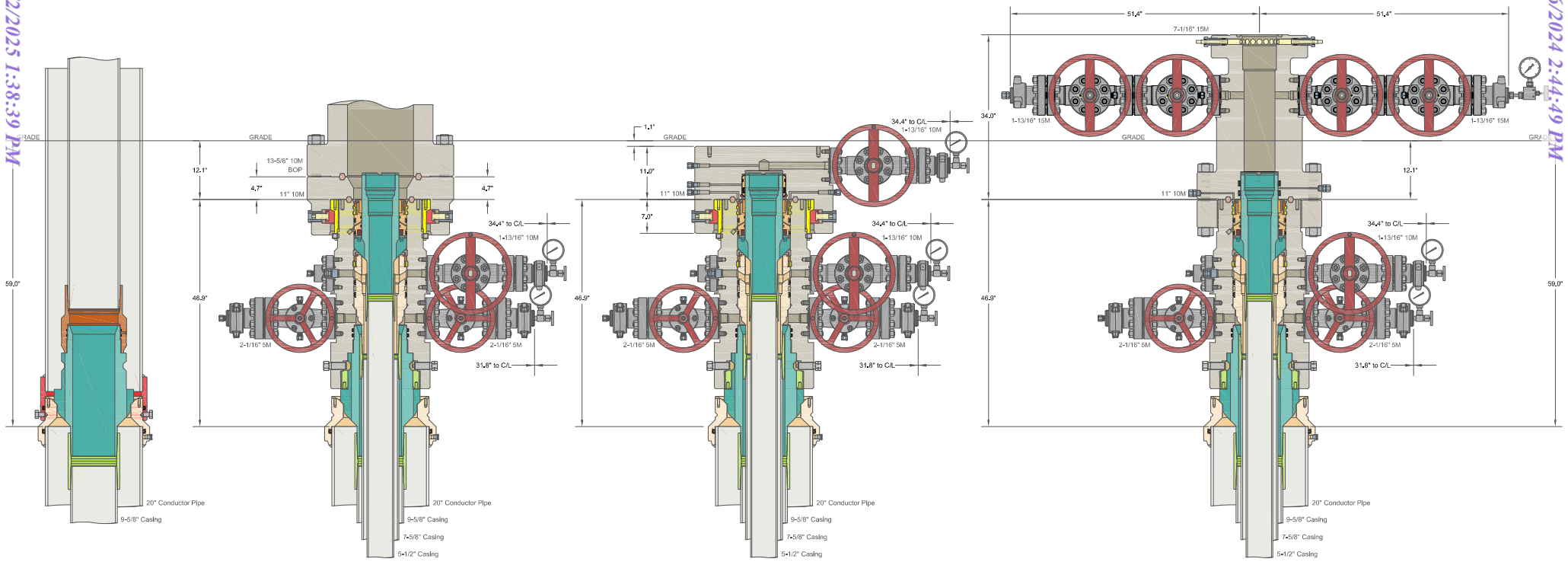
12200.000	90.000	179.979	9445.000	36.411	0.000	38.509	-0.000	36.411	0.000	0.000	42.003	37.177	120.884	MWD+IFR1+MS
12300.000	90.000	179.979	9445.000	36.964	0.000	38.778	-0.000	36.964	0.000	0.000	42.124	37.329	122.531	MWD+IFR1+MS
12400.000	90.000	179.979	9445.000	37.524	0.000	39.061	-0.000	37.524	0.000	0.000	42.258	37.483	124.261	MWD+IFR1+MS
12500.000	90.000	179.979	9445.000	38.093	0.000	39.356	-0.000	38.093	0.000	0.000	42.404	37.637	126.068	MWD+IFR1+MS
12600.000	90.000	179.979	9445.000	38.669	0.000	39.665	-0.000	38.669	0.000	0.000	42.563	37.791	127.942	MWD+IFR1+MS
12700.000	90.000	179.979	9445.000	39.252	0.000	39.985	-0.000	39.252	0.000	0.000	42.738	37.943	129.870	MWD+IFR1+MS
12800.000	90.000	179.979	9445.000	39.843	0.000	40.317	-0.000	39.843	0.000	0.000	42.928	38.092	131.839	MWD+IFR1+MS
12900.000	90.000	179.979	9445.000	40.440	0.000	40.661	-0.000	40.440	0.000	0.000	43.135	38.236	133.831	MWD+IFR1+MS
13000.000	90.000	179.979	9445.000	41.043	0.000	41.016	-0.000	41.043	0.000	0.000	43.358	38.376	-44.174	MWD+IFR1+MS
13100.000	90.000	179.979	9445.000	41.652	0.000	41.383	-0.000	41.652	0.000	0.000	43.599	38.510	-42.194	MWD+IFR1+MS
13200.000	90.000	179.979	9445.000	42.267	0.000	41.760	-0.000	42.267	0.000	0.000	43.857	38.637	-40.246	MWD+IFR1+MS
13300.000	90.000	179.979	9445.000	42.888	0.000	42.147	-0.000	42.888	0.000	0.000	44.133	38.759	-38.347	MWD+IFR1+MS
13400.000	90.000	179.979	9445.000	43.514	0.000	42.545	-0.000	43.514	0.000	0.000	44.426	38.874	-36.512	MWD+IFR1+MS
13500.000	90.000	179.979	9445.000	44.145	0.000	42.953	-0.000	44.145	0.000	0.000	44.735	38.983	-34.750	MWD+IFR1+MS
13600.000	90.000	179.979	9445.000	44.781	0.000	43.370	-0.000	44.781	0.000	0.000	45.061	39.085	-33.069	MWD+IFR1+MS
13700.000	90.000	179.979	9445.000	45.421	0.000	43.797	-0.000	45.421	0.000	0.000	45.403	39.182	-31.476	MWD+IFR1+MS
13800.000	90.000	179.979	9445.000	46.066	0.000	44.233	-0.000	46.066	0.000	0.000	45.761	39.273	-29.971	MWD+IFR1+MS
13900.000	90.000	179.979	9445.000	46.715	0.000	44.677	-0.000	46.715	0.000	0.000	46.133	39.358	-28.556	MWD+IFR1+MS
14000.000	90.000	179.979	9445.000	47.369	0.000	45.131	-0.000	47.369	0.000	0.000	46.518	39.439	-27.228	MWD+IFR1+MS
14100.000	90.000	179.979	9445.000	48.026	0.000	45.592	-0.000	48.026	0.000	0.000	46.918	39.516	-25.985	MWD+IFR1+MS
14200.000	90.000	179.979	9445.000	48.687	0.000	46.062	-0.000	48.687	0.000	0.000	47.329	39.588	-24.824	MWD+IFR1+MS
14300.000	90.000	179.979	9445.000	49.352	0.000	46.539	-0.000	49.352	0.000	0.000	47.753	39.657	-23.739	MWD+IFR1+MS
14400.000	90.000	179.979	9445.000	50.020	0.000	47.024	-0.000	50.020	0.000	0.000	48.188	39.723	-22.726	MWD+IFR1+MS
14500.000	90.000	179.979	9445.000	50.692	0.000	47.516	-0.000	50.692	0.000	0.000	48.635	39.786	-21.780	MWD+IFR1+MS
14576.150	90.000	179.979	9445.000	51.204	0.000	47.894	-0.000	51.204	0.000	0.000	48.980	39.831	-21.107	MWD+IFR1+MS
14600.000	90.000	179.502	9445.000	51.364	0.000	48.060	-0.000	51.364	0.000	0.000	49.088	39.845	-20.905	MWD+IFR1+MS
14700.000	90.000	177.502	9445.000	52.040	0.000	48.772	-0.000	52.040	0.000	0.000	49.575	39.904	-20.077	MWD+IFR1+MS
14800.000	90.000	175.502	9445.000	52.721	0.000	49.509	-0.000	52.721	0.000	0.000	50.108	39.959	-19.302	MWD+IFR1+MS
14900.000	90.000	173.502	9445.000	53.405	0.000	50.233	-0.000	53.405	0.000	0.000	50.657	40.008	-18.648	MWD+IFR1+MS
15000.000	90.000	171.502	9445.000	54.091	0.000	50.941	-0.000	54.091	0.000	0.000	51.219	40.052	-18.106	MWD+IFR1+MS
15100.000	90.000	169.502	9445.000	54.780	0.000	51.630	-0.000	54.780	0.000	0.000	51.792	40.090	-17.667	MWD+IFR1+MS
15200.000	90.000	167.502	9445.000	55.472	0.000	52.300	-0.000	55.472	0.000	0.000	52.376	40.124	-17.322	MWD+IFR1+MS
15300.000	90.000	165.502	9445.000	56.166	0.000	52.947	-0.000	56.166	0.000	0.000	52.970	40.155	-17.062	MWD+IFR1+MS

15400.000	90.000	163.502	9445.000	56.862	0.000	53.571	-0.000	56.862	0.000	0.000	53.571	40.183	-16.880	MWD+IFR1+MS
15500.000	90.000	161.502	9445.000	57.561	0.000	54.169	-0.000	57.561	0.000	0.000	54.180	40.208	-16.769	MWD+IFR1+MS
15600.000	90.000	159.502	9445.000	58.262	0.000	54.740	-0.000	58.262	0.000	0.000	54.794	40.232	-16.724	MWD+IFR1+MS
15700.000	90.000	157.502	9445.000	58.965	0.000	55.282	-0.000	58.965	0.000	0.000	55.414	40.254	-16.738	MWD+IFR1+MS
15791.139	90.000	155.680	9445.000	59.607	0.000	55.744	-0.000	59.607	0.000	0.000	55.976	40.273	-16.795	MWD+IFR1+MS
15800.000	90.000	155.680	9445.000	59.669	0.000	55.795	-0.000	59.669	0.000	0.000	56.027	40.274	-16.798	MWD+IFR1+MS
15900.000	90.000	155.680	9445.000	60.374	0.000	56.376	-0.000	60.374	0.000	0.000	56.611	40.295	-16.870	MWD+IFR1+MS
16000.000	90.000	155.680	9445.000	61.083	0.000	56.966	-0.000	61.083	0.000	0.000	57.204	40.316	-16.944	MWD+IFR1+MS
16100.000	90.000	155.680	9445.000	61.794	0.000	57.563	-0.000	61.794	0.000	0.000	57.803	40.339	-17.019	MWD+IFR1+MS
16200.000	90.000	155.680	9445.000	62.506	0.000	58.168	-0.000	62.506	0.000	0.000	58.410	40.361	-17.094	MWD+IFR1+MS
16300.000	90.000	155.680	9445.000	63.221	0.000	58.779	-0.000	63.221	0.000	0.000	59.023	40.385	-17.169	MWD+IFR1+MS
16400.000	90.000	155.680	9445.000	63.937	0.000	59.397	-0.000	63.937	0.000	0.000	59.642	40.409	-17.244	MWD+IFR1+MS
16500.000	90.000	155.680	9445.000	64.654	0.000	60.020	-0.000	64.654	0.000	0.000	60.267	40.434	-17.319	MWD+IFR1+MS
16600.000	90.000	155.680	9445.000	65.373	0.000	60.650	-0.000	65.373	0.000	0.000	60.898	40.460	-17.393	MWD+IFR1+MS
16700.000	90.000	155.680	9445.000	66.094	0.000	61.286	-0.000	66.094	0.000	0.000	61.535	40.486	-17.467	MWD+IFR1+MS
16800.000	90.000	155.680	9445.000	66.816	0.000	61.928	-0.000	66.816	0.000	0.000	62.177	40.513	-17.540	MWD+IFR1+MS
16900.000	90.000	155.680	9445.000	67.539	0.000	62.575	-0.000	67.539	0.000	0.000	62.825	40.541	-17.613	MWD+IFR1+MS
17000.000	90.000	155.680	9445.000	68.264	0.000	63.227	-0.000	68.264	0.000	0.000	63.478	40.570	-17.685	MWD+IFR1+MS
17100.000	90.000	155.680	9445.000	68.990	0.000	63.885	-0.000	68.990	0.000	0.000	64.136	40.599	-17.756	MWD+IFR1+MS
17200.000	90.000	155.680	9445.000	69.717	0.000	64.547	-0.000	69.717	0.000	0.000	64.799	40.628	-17.826	MWD+IFR1+MS
17300.000	90.000	155.680	9445.000	70.446	0.000	65.215	-0.000	70.446	0.000	0.000	65.467	40.659	-17.896	MWD+IFR1+MS
17391.140	90.000	155.680	9445.000	71.111	0.000	65.827	-0.000	71.111	0.000	0.000	66.079	40.687	-17.958	MWD+IFR1+MS
17400.000	90.000	155.857	9445.000	71.175	0.000	65.900	-0.000	71.175	0.000	0.000	66.138	40.690	-17.964	MWD+IFR1+MS
17500.000	90.000	157.857	9445.000	71.904	0.000	66.715	-0.000	71.904	0.000	0.000	66.824	40.722	-18.015	MWD+IFR1+MS
17600.000	90.000	159.857	9445.000	72.636	0.000	67.511	-0.000	72.636	0.000	0.000	67.540	40.757	-18.038	MWD+IFR1+MS
17700.000	90.000	161.857	9445.000	73.370	0.000	68.255	-0.000	73.370	0.000	0.000	68.255	40.794	-18.026	MWD+IFR1+MS
17800.000	90.000	163.857	9445.000	74.104	0.000	68.947	-0.000	74.104	0.000	0.000	68.970	40.832	-17.980	MWD+IFR1+MS
17900.000	90.000	165.857	9445.000	74.839	0.000	69.583	-0.000	74.839	0.000	0.000	69.681	40.872	-17.904	MWD+IFR1+MS
18000.000	90.000	167.857	9445.000	75.575	0.000	70.162	-0.000	75.575	0.000	0.000	70.388	40.915	-17.798	MWD+IFR1+MS
18100.000	90.000	169.857	9445.000	76.312	0.000	70.682	-0.000	76.312	0.000	0.000	71.090	40.960	-17.666	MWD+IFR1+MS
18200.000	90.000	171.857	9445.000	77.051	0.000	71.141	-0.000	77.051	0.000	0.000	71.785	41.008	-17.509	MWD+IFR1+MS
18300.000	90.000	173.857	9445.000	77.790	0.000	71.540	-0.000	77.790	0.000	0.000	72.472	41.058	-17.329	MWD+IFR1+MS
18400.000	90.000	175.857	9445.000	78.530	0.000	71.875	-0.000	78.530	0.000	0.000	73.150	41.110	-17.128	MWD+IFR1+MS

18500.000	90.000	177.857	9445.000	79.270	0.000	72.147	-0.000	79.270	0.000	0.000	73.818	41.165	-16.908	MWD+IFR1+MS
18600.000	90.000	179.857	9445.000	80.012	0.000	72.356	-0.000	80.012	0.000	0.000	74.476	41.224	-16.669	MWD+IFR1+MS
18700.000	90.000	181.857	9445.000	80.755	-0.000	72.500	0.000	80.755	0.000	0.000	75.123	41.284	-16.414	MWD+IFR1+MS
18743.785	90.000	182.732	9445.000	81.079	-0.000	72.530	0.000	81.079	0.000	0.000	75.391	41.309	-16.306	MWD+IFR1+MS
18800.000	90.000	182.732	9445.000	81.496	-0.000	72.888	0.000	81.496	0.000	0.000	75.731	41.341	-16.168	MWD+IFR1+MS
18900.000	90.000	182.732	9445.000	82.239	-0.000	73.529	0.000	82.239	0.000	0.000	76.338	41.399	-15.924	MWD+IFR1+MS
19000.000	90.000	182.732	9445.000	82.984	-0.000	74.173	0.000	82.984	0.000	0.000	76.949	41.458	-15.686	MWD+IFR1+MS
19100.000	90.000	182.732	9445.000	83.730	-0.000	74.819	0.000	83.730	0.000	0.000	77.563	41.516	-15.454	MWD+IFR1+MS
19195.580	90.000	182.732	9445.000	84.443	-0.000	75.438	0.000	84.443	0.000	0.000	78.152	41.572	-15.237	MWD+IFR1+MS
19200.000	90.000	182.732	9445.000	84.476	-0.000	75.467	0.000	84.476	0.000	0.000	78.179	41.575	-15.227	MWD+IFR1+MS
19246.410	90.000	182.732	9445.000	84.821	-0.000	75.767	0.000	84.821	0.000	0.000	78.465	41.602	-15.124	MWD+IFR1+MS

Plan Targets Poker Lake Unit 28 BS 408H

Target Name	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape
FTP 14	10176.11	401939.50	673657.90	6076.00	CIRCLE
408H PP1	35513.89	396673.70	673659.80	6076.00	CIRCLE
408H PP2	17638.32	395014.90	674792.90	6076.00	CIRCLE
BHL 8	19245.59	393085.00	674802.40	6076.00	CIRCLE
LTP 14	19195.58	393135.00	674802.10	6076.00	CIRCLE



ALL DIMENSIONS APPROXIMATE

CACTUS WELLHEAD LLC

XTO ENERGY INC
DELAWARE BASIN

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

DRAWN	VJK	31MAR22
APPRV		
DRAWING NO.	HBE0000479	

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

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

Background

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

Supporting Documentation

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

Figure 1: Winch System attached to BOP Stack

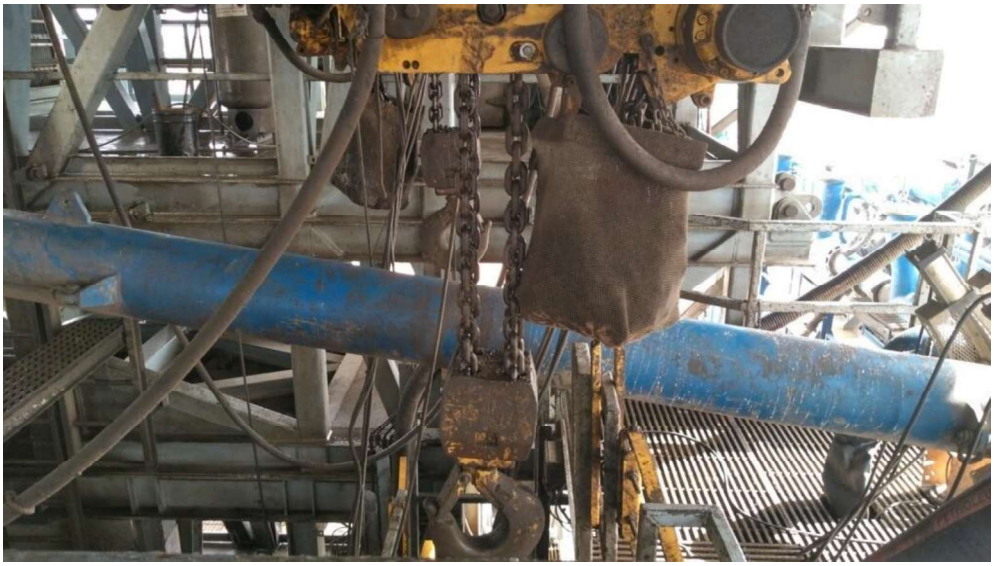


Figure 2: BOP Winch System

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

62 API STANDARD 53

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

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

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

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

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

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

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

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

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

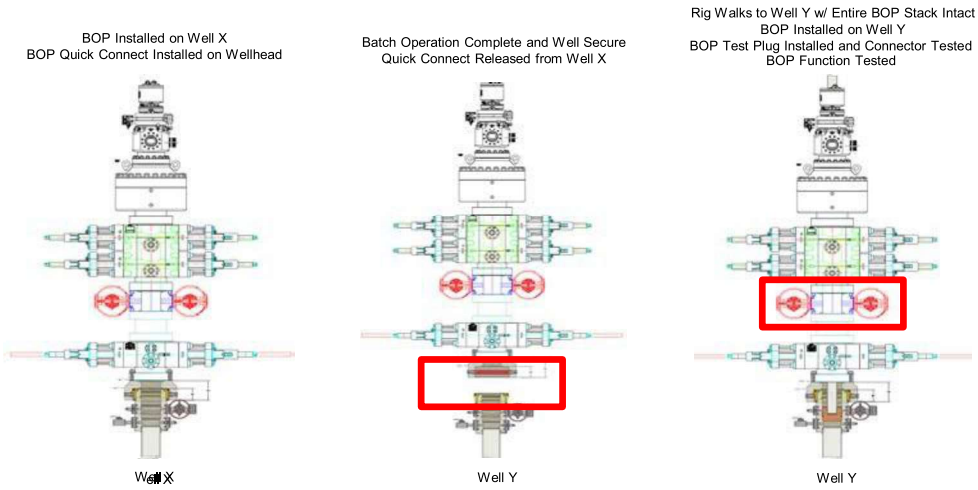
XTO Energy feels break testing and our current procedures meet the intent of CFR Title 43 Part 317 0and often exceed it. There has been no evidence that break testing results in more components failing than seen on full BOP tests. XTO Energy's internal standards requires complete BOPE tests more often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

Procedures

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

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

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



Summary

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

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

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

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

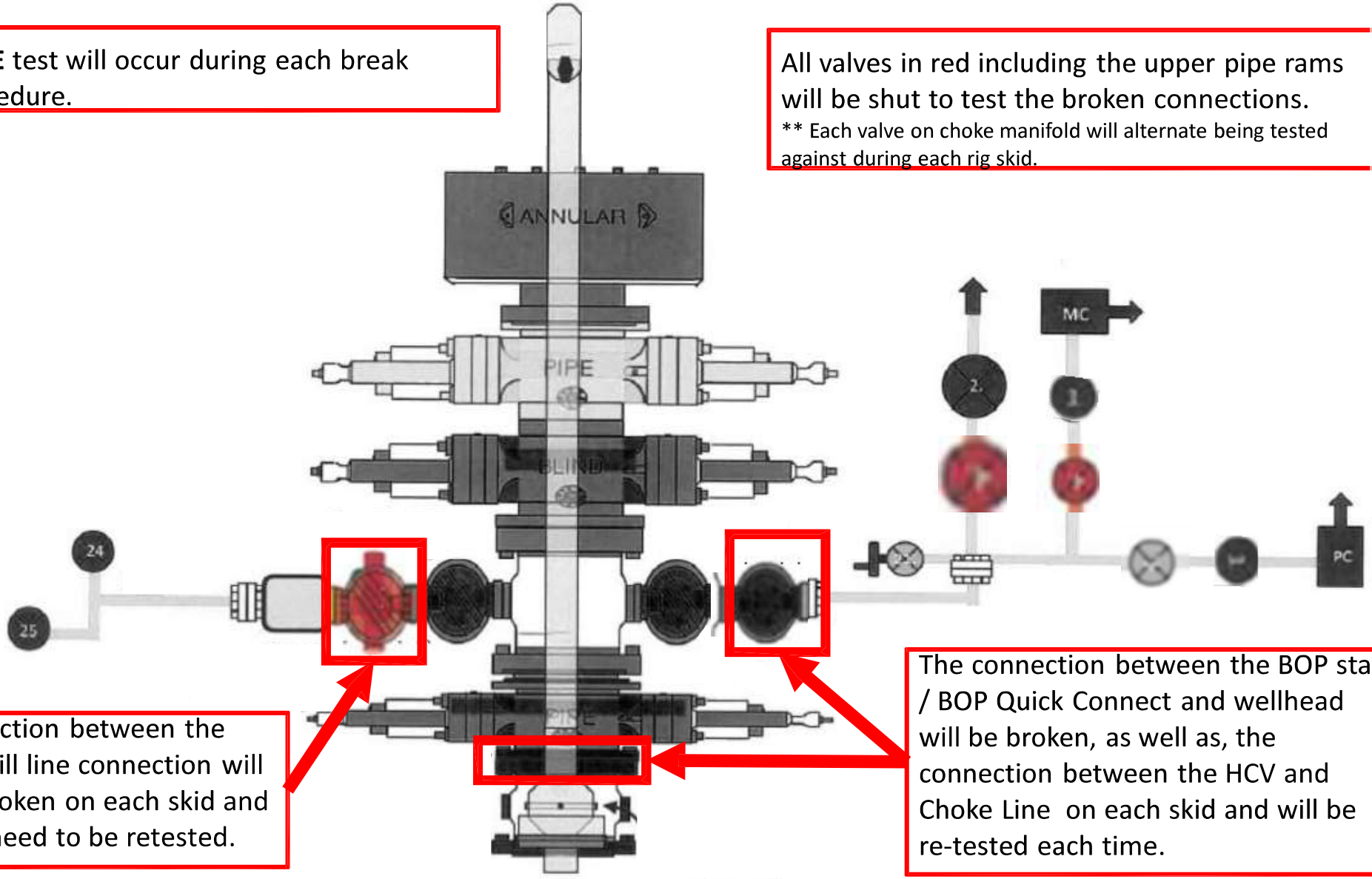
2. The first intermediate hole section drilled on the pad will be the deepest. All of the remaining hole sections will be the same depth or shallower.

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

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

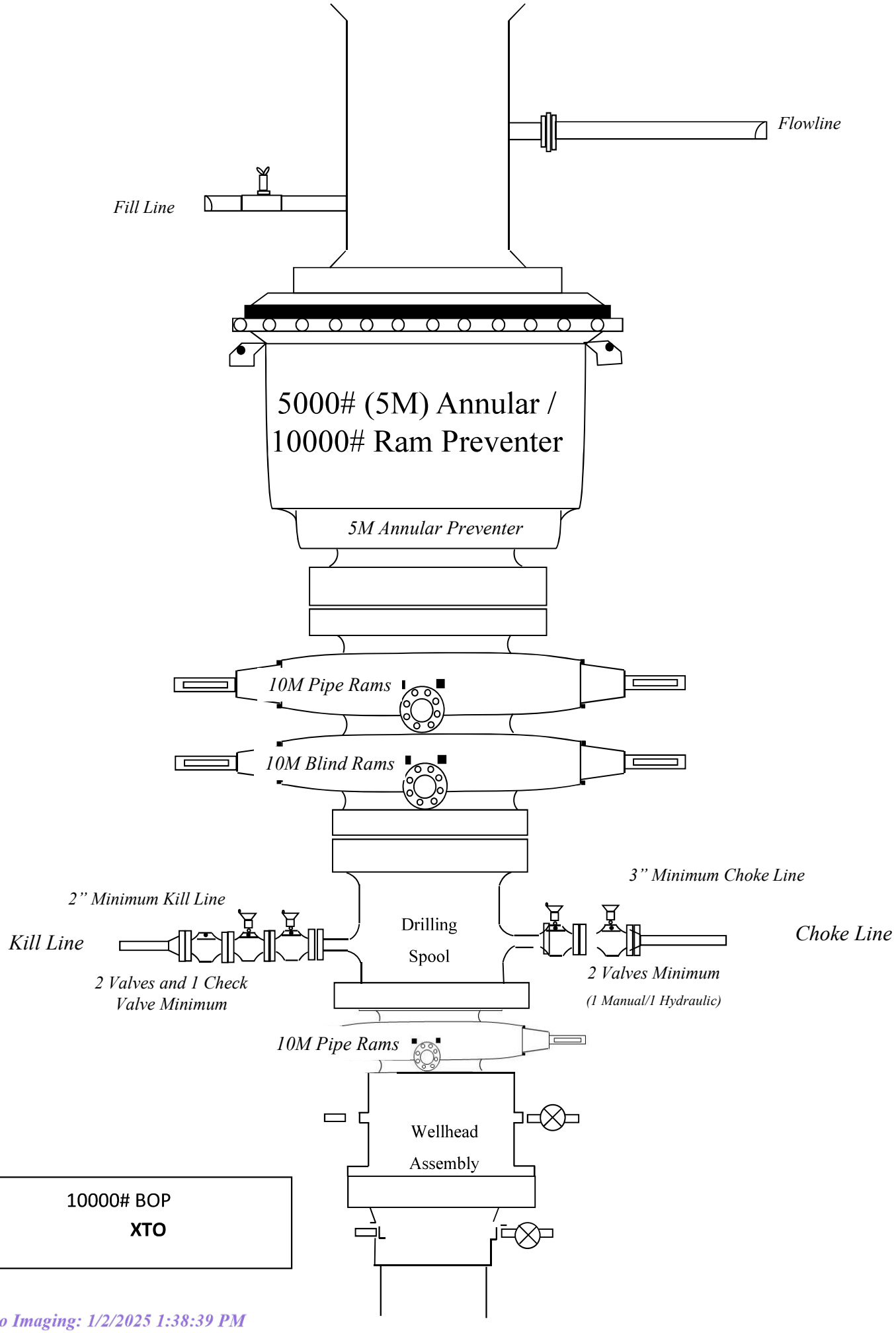
Only **ONE** test will occur during each break test procedure.

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



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

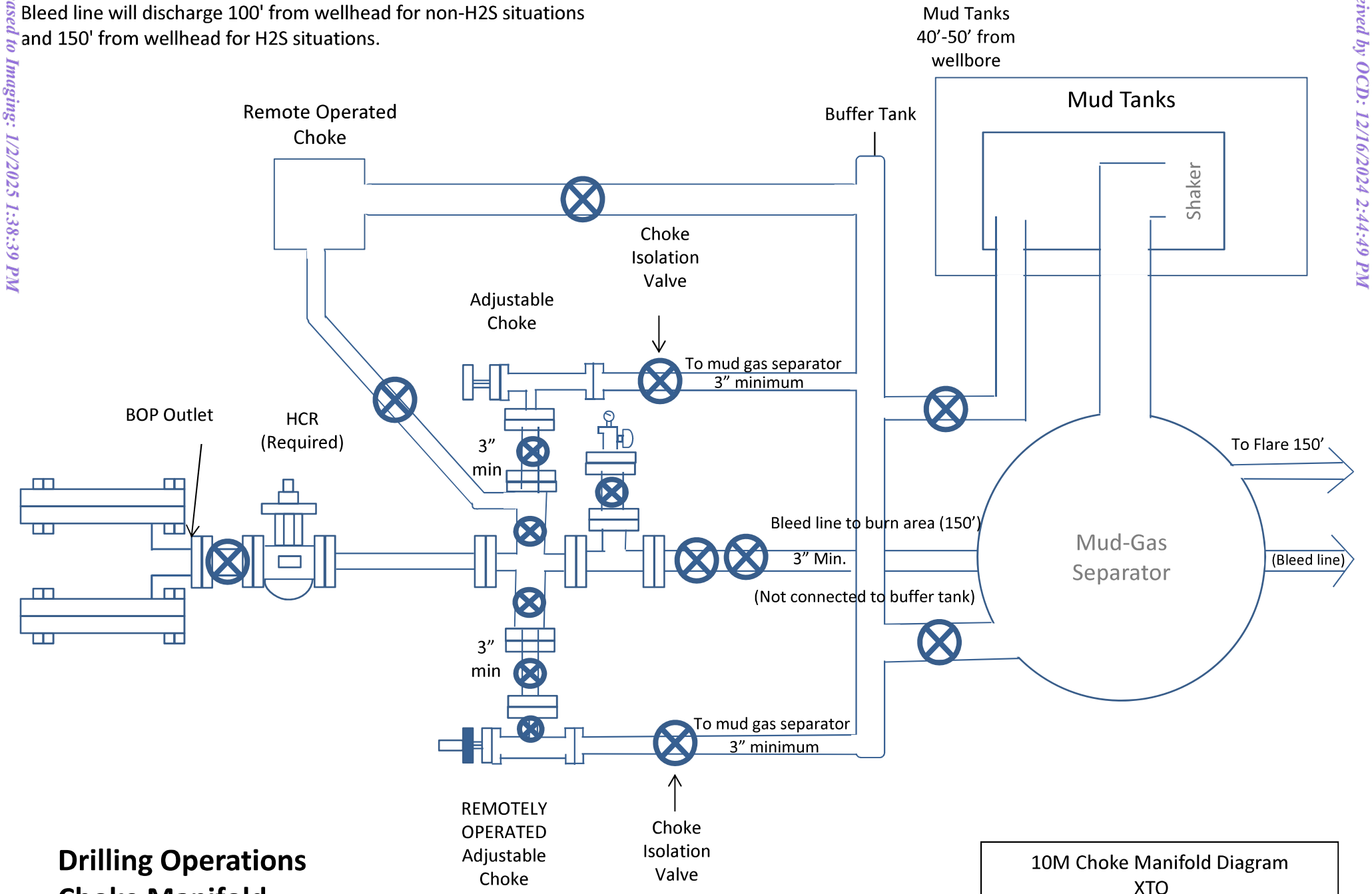
The connection between the BOP stack / BOP Quick Connect and wellhead will be broken, as well as, the connection between the HCV and Choke Line on each skid and will be re-tested each time.



10000# BOP

XTO

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



Drilling Operations
Choke Manifold
10M Service

10M Choke Manifold Diagram
XTO

U. S. Steel Tubular Products

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

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

Notes

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

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

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

XTO Permian Operating, LLC Offline Cementing Variance Request

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

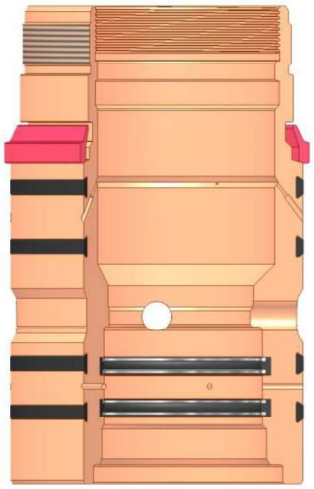
1. Cement Program

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

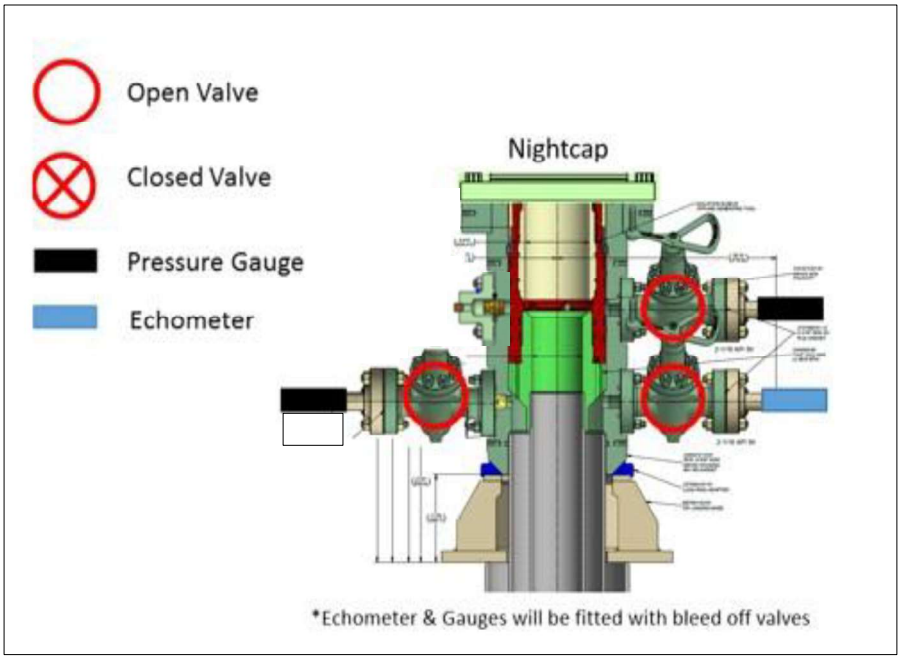
2. Offline Cementing Procedure

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

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



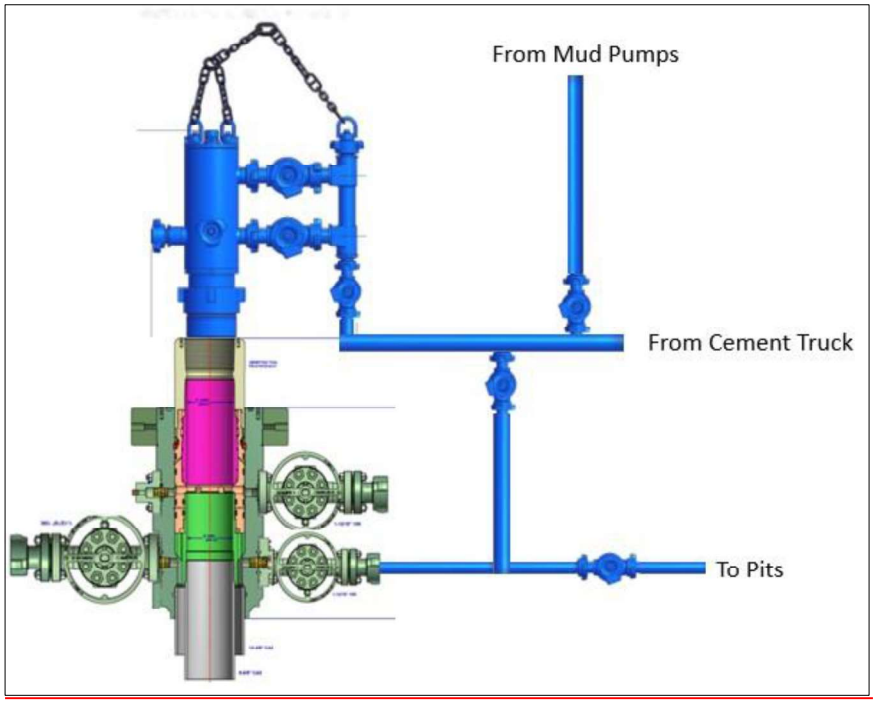
Annular packoff with both external and internal seals



Wellhead diagram during skidding operations

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

XTO Permian Operating, LLC Offline Cementing Variance Request



Wellhead diagram during offline cementing operations

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

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

Description of Operations:

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

U. S. Steel Tubular Products

11/29/2021 4:16:04 PM

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

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

Notes

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

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

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connections@uss.com
www.usstubular.com

BLACK GOLD®

GATES ENGINEERING & SERVICES NORTH AMERICA
7603 Prairie Oak Dr.
Houston, TX. 77086

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FAX: +1 (281) 602-4147
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. OSMOS

TITLE: QUALITY ASSURANCE

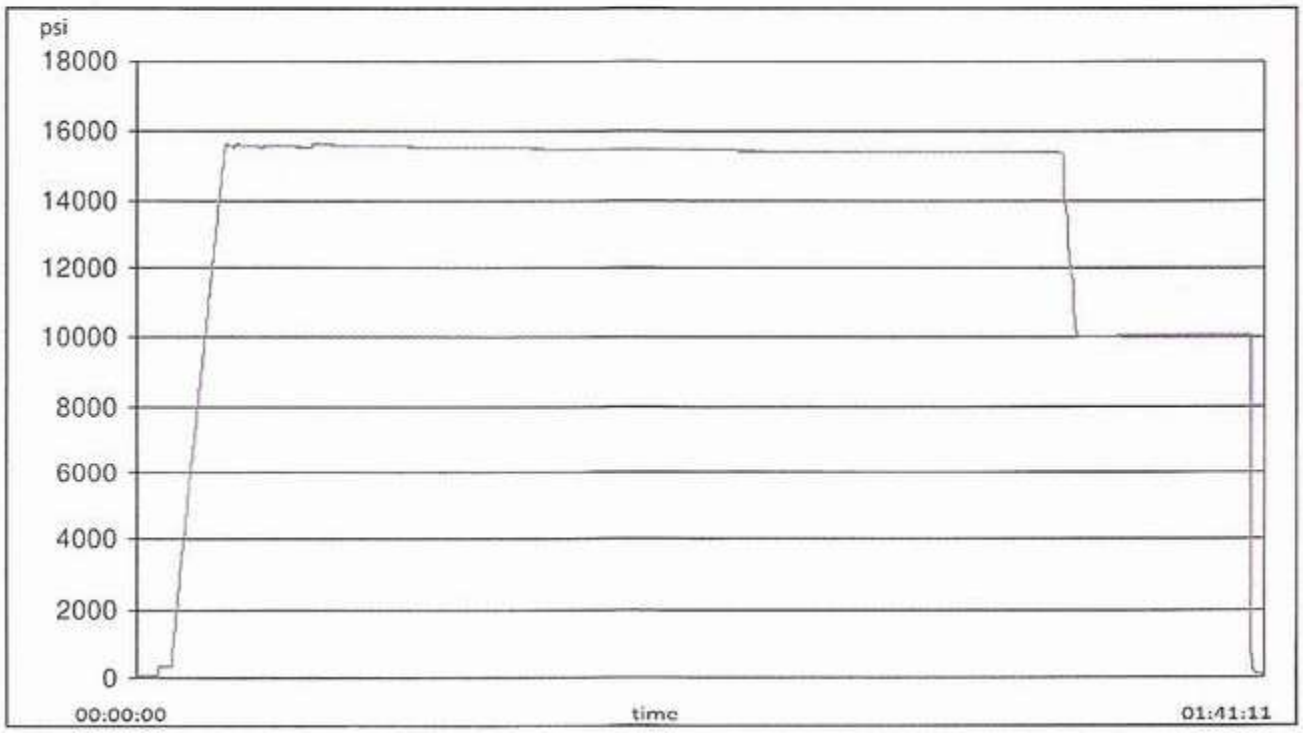
DATE: 1/25/2024

H3-15716

1/25/2024 11:48:06 AM

TEST REPORT

CUSTOMER			TEST OBJECT		
Company:	Nabors Industries Inc.		Serial number:	H3-012524-1	
			Lot number:		
Production description:	74621/66-1531		Description:	74621/66-1531	
Sales order #:	529480				
Customer reference:	FG1213		Hose ID:	3" 16C CK	
			Part number:		
TEST INFORMATION					
Test procedure:	GTS-04-053		Fitting 1:	3.0 x 4-1/16 10K	
Test pressure:	15000.00	psi	Part number:		
Test pressure hold:	3600.00	sec	Description:		
Work pressure:	10000.00	psi			
Work pressure hold:	900.00	sec	Fitting 2:	3.0 x 4-1/16 10K	
Length difference:	0.00	%	Part number:		
Length difference:	0.00	inch	Description:		
Visual check:			Length:	45	feet
Pressure test result:	PASS				
Length measurement result:					
Test operator:	Travis				



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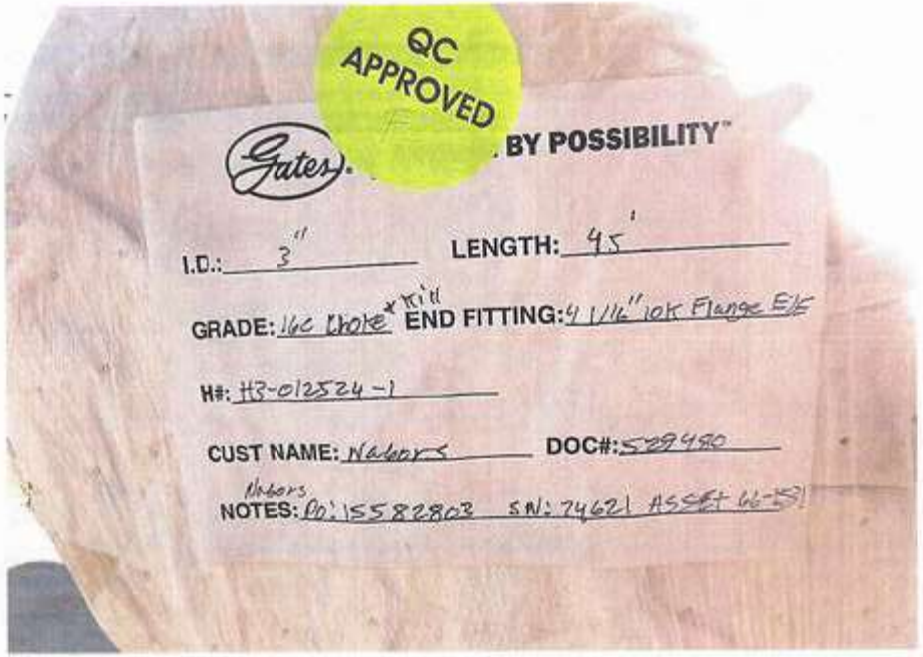
TEST REPORT

GAUGE TRACEABILITY

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

Comment



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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 412478

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 412478
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

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