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

Sundry Print Report

06/09/2025

Well Name: POKER LAKE UNIT 13-1 PC

Well Location: T24S / R29E / SEC 13 / SWNE / 32.218156 / -103.93466

County or Parish/State: EDDY / NM

Well Number: 705H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM05912

Unit or CA Name: POKER LAKE UNIT

Unit or CA Number: NMNM71016X

US Well Number:

Operator: XTO PERMIAN OPERATING LLC

Notice of Intent

Sundry ID: 2855411

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 05/30/2025

Time Sundry Submitted: 11:42

Date proposed operation will begin: 06/13/2025

Procedure Description: Poker Lake Unit 13-1 PC 705H XTO Permian Operating, LLC. respectfully requests approval to make the following changes to the approved APD. Changes to include KOP, FTP, proposed total depth, and pool. FROM: TO: KOP: 2420’ FNL & 1596’ FEL OF SECTION 13-T24S-R29E 2130’ FNL & 2153’ FEL OF SECTION 13-T24S-R29E FTP: 2059' FNL & 2154' FEL OF SECTION 13-T24S-R29E 2389' FNL & 2150' FEL OF SECTION 13-T24S-R29E The proposed total depth is changing FROM 18241’ MD; 9154’ TVD TO 17300’ MD; 9145’ TVD. Pool code is changing FROM Pierce Crossing; Bone Spring, East (96473) TO Wildcat S243006B; LWR Bone Spring (97753) & Pierce Crossing; Bone Spring (96473). There is no new surface disturbance.

NOI Attachments

Procedure Description

POKER_LAKE_UNIT_13_1_PC_705H_Sundry_Docs_20250530114122.pdf

Well Name: POKER LAKE UNIT 13-1 PC

Well Location: T24S / R29E / SEC 13 / SWNE / 32.218156 / -103.93466

County or Parish/State: EDDY / NM

Well Number: 705H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM05912

Unit or CA Name: POKER LAKE UNIT

Unit or CA Number: NMNM71016X

US Well Number:

Operator: XTO PERMIAN OPERATING LLC

Conditions of Approval

Additional

242913_Poker_Lake_Unit_13_1_PC_705H_06_09_2025_COAs_20250609080105.pdf

Operator

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

Operator Electronic Signature: SAMANTHA WEIS

Signed on: MAY 30, 2025 11:42 AM

Name: XTO PERMIAN OPERATING LLC

Title: Permitting Advisor

Street Address: 22777 SPRINGWOODS VILLAGE PARKWAY

City: SPRING **State:** TX

Phone: (832) 625-7361

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

Field

Representative Name:

Street Address:

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

Phone:

Email address:

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752342234

BLM POC Email Address: cwalls@blm.gov

Disposition: Approved

Disposition Date: 06/09/2025

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. NMNM05912

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 13-1 PC/705H

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 PIERCE CROSSING/BONE SPRING, EAST

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)* SEC 13/T24S/R29E/NMP

11. Country or Parish, State EDDY/NM

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

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

Poker Lake Unit 13-1 PC 705H

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

FROM: TO:

KOP: 2420 FNL & 1596 FEL OF SECTION 13-T24S-R29E 2130 FNL & 2153 FEL OF SECTION 13-T24S-R29E
FTP: 2059' FNL & 2154' FEL OF SECTION 13-T24S-R29E 2389' FNL & 2150' FEL OF SECTION 13-T24S-R29E

The proposed total depth is changing FROM 18241 MD; 9154 TVD TO 17300 MD; 9145 TVD.

Continued on page 3 additional information

14. I hereby certify that the foregoing is true and correct. Name *(Printed/Typed)* SAMANTHA WEIS / Ph: (832) 625-7361

Title Permitting Advisor

Signature (Electronic Submission)

Date 05/30/2025

THE SPACE FOR FEDERAL OR STATE OFICE USE

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

Title Petroleum Engineer

Date 06/09/2025

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

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

There is no new surface disturbance.

Location of Well

0. SHL: SWNE / 2420 FNL / 1596 FEL / TWSP: 24S / RANGE: 29E / SECTION: 13 / LAT: 32.218156 / LONG: -103.93466 (TVD: 0 feet, MD: 0 feet)
PPP: SWNE / 2059 FNL / 2154 FEL / TWSP: 24S / RANGE: 29E / SECTION: 13 / LAT: 32.219154 / LONG: -103.936464 (TVD: 9154 feet, MD: 9800 feet)
BHL: SWSE / 50 FSL / 2154 FEL / TWSP: 24S / RANGE: 29E / SECTION: 24 / LAT: 32.195794 / LONG: -103.936438 (TVD: 9154 feet, MD: 18241 feet)

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO Permian Operating LLC
WELL NAME & NO.:	Poker Lake Unit 13-1 PC 705H
LOCATION:	Section 13, T.24S., R.29E.
COUNTY:	Eddy County

COA

H2S	◉ Yes	○ No	
Potash	◉ None	○ Secretary	○ R-111-P
Cave/Karst Potential	◉ Low	○ Medium	○ High
Cave/Karst Potential	○ Critical		
Variance	○ None	◉ Flex Hose	○ Other
Wellhead	○ Conventional	◉ Multibowl	○ Both
Wellhead Variance	○ Diverter		
Other	☐ 4 String	☐ Capitan Reef	☐ WIPP
Other	☑ Fluid Filled	☐ Pilot Hole	☐ Open Annulus
Cementing	☑ Contingency Cement Squeeze	☐ EchoMeter	☐ Primary Cement Squeeze
Special Requirements	☐ Water Disposal	☐ COM	☑ Unit
Special Requirements	☐ Batch Sundry		
Special Requirements Variance	☑ Break Testing	☑ Offline Cementing	☐ Casing Clearance

Possibility of water flows in the Rustler
Possibility of lost circulation in the Salado, Castile, and Delaware
Abnormal pressures may be encountered upon penetrating the 3rd Bone Spring Sandstone and all subsequent formations.

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated AT SPUD. As a result, the Hydrogen Sulfide area must meet 43 CFR part 3170 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

1. The **9-5/8** inch surface casing shall be set at approximately **400** feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface. The surface hole shall be **12-1/4** inch in diameter.

    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:

    - Cement to surface. If cement does not circulate see B.1.a, c-d above.

Operator has proposed to pump down 9-5/8" X 7-5/8" 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 7-5/8" casing to surface 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 run one CBL per Well Pad.

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

Operator must use a limited flush fluid volume of 1 bbl following backside cementing procedures.

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. **Cement excess calculates to 19% - more cement may be needed.**

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. This assembly will only be tested when installed on the **9-5/8** inch surface casing. 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** i 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.

E. SPECIAL REQUIREMENT (S)

BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for 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)

☒ Eddy County
EMAIL or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,
BLM_NM_CFO_DrillingNotifications@BLM.GOV
(575) 361-2822

☒ Lea County
Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240,
(575) 689-5981

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.

JS 6/9/2025

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

WELL LOCATION INFORMATION

API Number	Pool Code	Pool Name
30-015-	97753	WILDCAT S243006B; LWR BONE SPRING

Property Code	Property Name	Well Number
	POKER LAKE UNIT 13-1 PC	705H

OGRID No.	Operator Name	Ground Level Elevation
373075	XTO PERMIAN OPERATING, LLC.	3,113'

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

Surface Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
G	13	24S	29E		2,420 FNL	1,596 FEL	32.218156	-103.934660	EDDY

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
O	24	24S	29E		50 FSL	2,154 FEL	32.195794	-103.936438	EDDY

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
80.00	INFILL		Y	U

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

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
G	13	24S	29E		2,130 FNL	2,153 FEL	32.218959	-103.936461	EDDY

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
G	13	24S	29E		2,389 FNL	2,150 FEL	32.218246	-103.936454	EDDY

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
O	24	24S	29E		100 FSL	2,154 FEL	32.195931	-103.936438	EDDY

Unitized Area or Area of Interest	Spacing Unit Type : ☒ Horizontal ☐ Vertical	Ground Elevation
NMNM105422429		3,113'

OPERATOR CERTIFICATIONS

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

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

Samantha Weis 5/27/2025
Signature Date

Samantha Weis
Printed Name

samantha.r.bartnik@exxonmobil.com
Email Address

SURVEYOR CERTIFICATIONS

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

MARK DILLON HARP NEW MEXICO 23786 PROFESSIONAL SURVEYOR

Signature and Seal of Professional Surveyor

MARK DILLON HARP 23786
Certificate Number

5/23/2025
Date of Survey

KT 618.013003.04-20

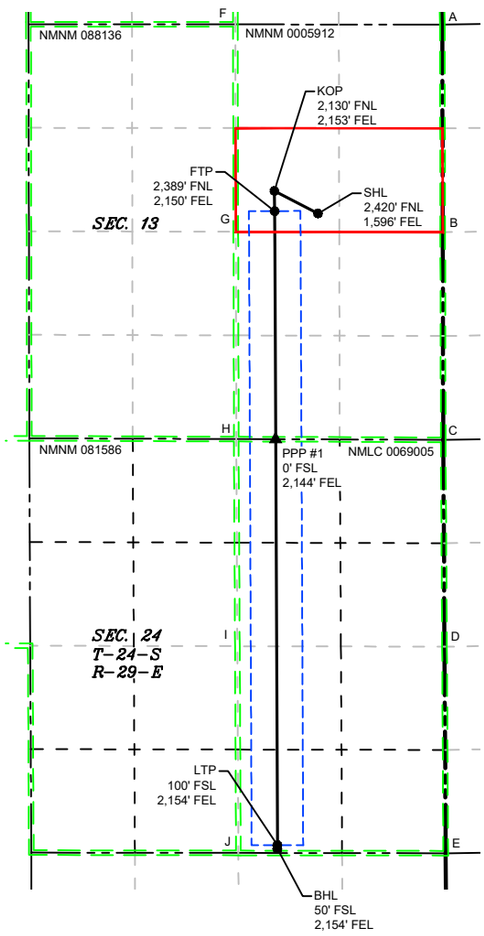
Note: No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.

P:\618.013 XTO Energy - NM\003 Poker Lake Unit\.04 - 13-1,13-24 PC - EDDY\Wells\20 - PLU Pierce Canyon 13-1 705H\DWG\PLU 13-1 705H C-102.dwg

ACREAGE DEDICATION PLATS

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated areage 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 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 accepted.



LEGEND

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

WELL COORDINATE TABLE								
WELL	NAD 83 NME X	NAD 83 NME Y	NAD 83 LAT	NAD 83 LON	NAD 27 NME X	NAD 27 NME Y	NAD 27 LAT	NAD 27 LON
SHL	664,628.4	443,327.8	32.218156	-103.934660	623,444.9	443,268.4	32.218032	-103.934171
KOP	664,070.4	443,617.8	32.218959	-103.936461	622,886.9	443,558.4	32.218835	-103.935972
FTP	664,073.4	443,358.6	32.218246	-103.936454	622,889.9	443,299.2	32.218122	-103.935965
LTP	664,108.2	435,240.8	32.195931	-103.936438	622,924.5	435,181.6	32.195807	-103.935950
BHL	664,108.6	435,190.8	32.195794	-103.936438	622,924.8	435,131.6	32.195669	-103.935950
PPP #1	664,086.0	440,437.7	32.210217	-103.936448	622,902.5	440,378.4	32.210093	-103.935960

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

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

WELL LOCATION INFORMATION

API Number	Pool Code	Pool Name
30-015-	96473	PIERCE CROSSING; BONE SPRING

Property Code	Property Name	Well Number
	POKER LAKE UNIT 13-1 PC	705H

OGRID No.	Operator Name	Ground Level Elevation
373075	XTO PERMIAN OPERATING, LLC.	3,113'

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

Surface Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
G	13	24S	29E		2,420 FNL	1,596 FEL	32.218156	-103.934660	EDDY

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
O	24	24S	29E		50 FSL	2,154 FEL	32.195794	-103.936438	EDDY

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
480.00	INFILL		Y	U

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

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
G	13	24S	29E		2,130 FNL	2,153 FEL	32.218959	-103.936461	EDDY

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
G	13	24S	29E		2,389 FNL	2,150 FEL	32.218246	-103.936454	EDDY

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
O	24	24S	29E		100 FSL	2,154 FEL	32.195931	-103.936438	EDDY

Unitized Area or Area of Interest	Spacing Unit Type : ☒ Horizontal ☐ Vertical	Ground Elevation
NMNM105422429		3,113'

OPERATOR CERTIFICATIONS

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

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

Samantha Weis 5/27/2025
Signature Date

Samantha Weis
Printed Name

samantha.r.bartnik@exxonmobil.com
Email Address

SURVEYOR CERTIFICATIONS

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

MARK DILLON HARP NEW MEXICO 23786 PROFESSIONAL SURVEYOR

Signature and Seal of Professional Surveyor

MARK DILLON HARP 23786 | 5/23/2025
Certificate Number | Date of Survey

KT 618.013003.04-20

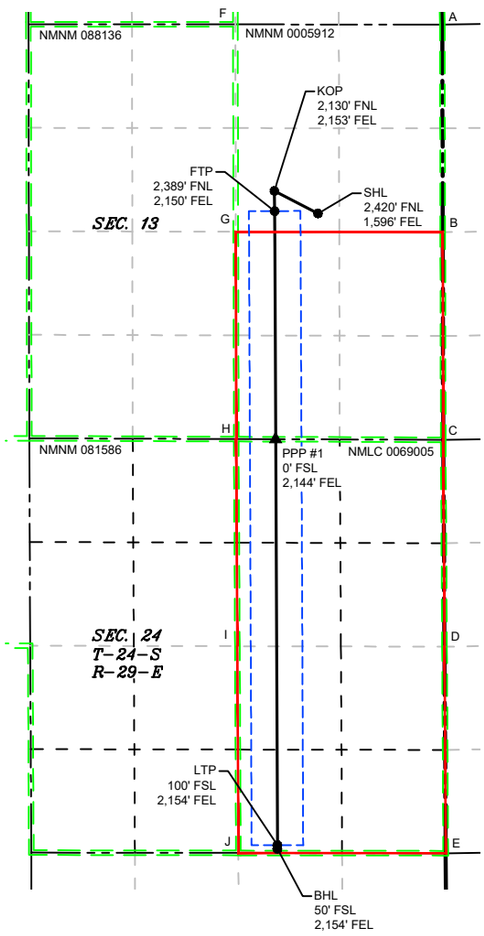
Note: No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.

P:\618.013 XTO Energy - NM\003 Poker Lake Unit\.04 - 13-1,13-24 PC - EDDY\Wells\20 - PLU Pierce Canyon 13-1 705H\DWG\PLU 13-1 705H C-102.dwg

ACREAGE DEDICATION PLATS

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated areage 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 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 accepted.



LEGEND

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

WELL COORDINATE TABLE								
WELL	NAD 83 NME X	NAD 83 NME Y	NAD 83 LAT	NAD 83 LON	NAD 27 NME X	NAD 27 NME Y	NAD 27 LAT	NAD 27 LON
SHL	664,628.4	443,327.8	32.218156	-103.934660	623,444.9	443,268.4	32.218032	-103.934171
KOP	664,070.4	443,617.8	32.218959	-103.936461	622,886.9	443,558.4	32.218835	-103.935972
FTP	664,073.4	443,358.6	32.218246	-103.936454	622,889.9	443,299.2	32.218122	-103.935965
LTP	664,108.2	435,240.8	32.195931	-103.936438	622,924.5	435,181.6	32.195807	-103.935950
BHL	664,108.6	435,190.8	32.195794	-103.936438	622,924.8	435,131.6	32.195669	-103.935950
PPP #1	664,086.0	440,437.7	32.210217	-103.936448	622,902.5	440,378.4	32.210093	-103.935960

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

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

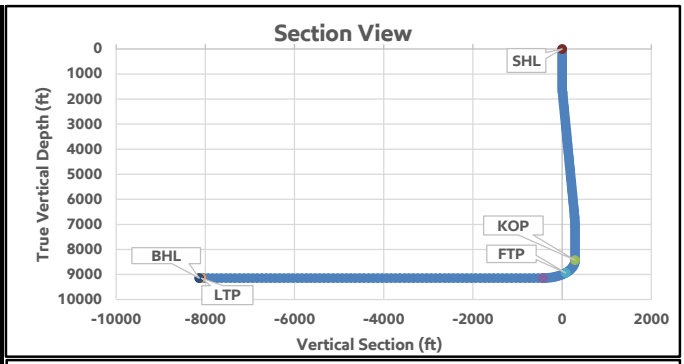
ExxonMobil
Poker Lake Unit 13-1 PC 705H
Projected TD: 17300' MD / 9145' TVD
SHL: 2420' FNL & 1596' FEL , Section 13, T24S, R29E
BHL: 50' FSL & 2154' FEL , Section 24, T24S, R29E
Eddy County, NM

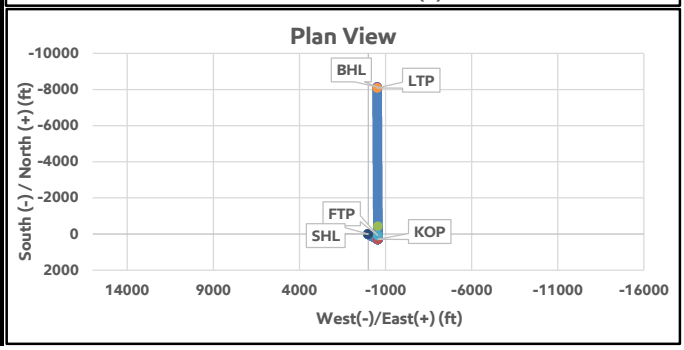
1. Geologic Name of Surface Formation

A. Quaternary

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

Formation	Well Depth	Water/Oil/Gas
Salado	639'	Water
Base of Salt	3146'	Water
Delaware	3345'	Water
Cherry Canyon	4244'	Water/Oil/Gas
Brushy Canyon	5776'	Water/Oil/Gas
Bone Spring Lm.	7095'	Water/Oil/Gas
Avalon Shale	7210'	Water/Oil/Gas
Avalon Lower	7767'	Water/Oil/Gas
1st Bone Spring Lime	7936'	Water/Oil/Gas
1st Bone Spring Sand	8077'	Water/Oil/Gas
2nd Bone Spring Lime	8405'	Water/Oil/Gas
2nd Bone Spring Sand	8942'	Water/Oil/Gas
3rd Bone Spring Lime	9209'	Water/Oil/Gas
3rd Bone Spring Upper Shale	9585'	Water/Oil/Gas
3rd Bone Spring Upper Shale Base		
3rd Bone Spring Lower Shale		
rd Bone Spring Lower Shale Marke		
3rd Bone Spring Sand		
Warwink		
Red Hills		
Wolfcamp A		
Wolfcamp B		
Wolfcamp C		
Wolfcamp D		
Landing	9145'	Water/Oil/Gas





	Inclination (°)	Azimuth (°)	True Vertical Depth (ft)	Y Offset (ft)	X Offset (ft)
SHL	0	0	0	0	0
KOP	0	0	8429	290	-558
LP	90	180	9145	-426	-555
FTP	45	180	8934	80	-557
LTP	90	180	9145	-8086	-520
BHL	90	180	9145	-8136	-520

Section 2 Summary:

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

No other formations are expected to give up oil, gas or fresh water in measurable quantities. Surface fresh water sands will be protected by setting 9-5/8" inch casing at 614' and circulating cement back to surface.

3. Primary Casing Design

Primary Design:

Hole Size (in.)	MD	Casing TVD	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25"	0' – 614'	614'	9-5/8"	40	J55	BTC	New	20.97	19.33	5.86
8.75"	0' – 4000'	3984'	7-5/8"	29.7	P110-ICY	Tenaris Wedge 511	New	6.00	8.53	3.49
8.75"	4000' – 8315'	8279'	7-5/8"	29.7	L80-IC	Tenaris Wedge 511	New	3.37	6.37	2.53
6.75"	0' – 8215'	8179'	5-1/2"	20	P110-CY	TPN	New	1.18	3.13	2.53
6.75"	8215' – 17300'	9145'	5-1/2"	20	P110-ICY	Tenaris Wedge 441	New	1.18	3.11	2.72

Section 3 Summary:

XTO will keep casing fluid filled to meet BLM's collapse requirement.
The planned kick off point is located at: 8465' MD / 8429' TVD.

Wellhead:

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

Wellhead will be installed by manufacturer's representatives.

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

4. Cement Program

Primary Cementing

Hole Section	Slurry Type	No. Sacks	Density (ppg)	Yield (ft3/sack)	TOC (ft)	Casing Setting Depth (MD)	Excess (%)	Slurry Description
Surface 1	Lead	93	12.4	2.11	0	614	100%	Surface 1 Class C Lead Cement
Surface 1	Tail	141	14.8	1.33	314	614	100%	Surface 1 Class C Tail Cement
Intermediate 1	Lead							
Intermediate 1	Tail	238	14.8	1.45	5776	8,315	35%	Intermediate 1 Class C Tail Cement
Production 1	Lead							
Production 1	Tail	659	13.2	1.44	7815	17,300	25%	Production 1 Class C Tail Cement

Remedial Cementing

Casing	Slurry Type	No. Sacks	Density (ppg)	Yield (ft3/sack)	Cemented Interval	Excess (%)	Slurry Description
Intermediate 1	Bradenhead Squeeze	540	14.8	1.45	0 - 5776'	35%	Intermediate Class C Bradenhead Squeeze Cement

Section 4 Summary:

*Bradenhead Squeeze 2nd Stage Offline

5. Pressure Control Equipment

Section 5 Summary:

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

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

Requested Variances

4A) Offline Cementing Variance
XOM requests the option to offline cement and remediate (if needed) surface and intermediate casing strings where batch drilling is approved and if unplanned remediation is needed. XOM will ensure well is static with no pressure on the csg annulus, as with all other casing strings where batch drilling operations occur before moving off the rig. Offline cement operations will then be conducted after the rig is moved off the current well to the next well in the batch sequence. The TA cap will also be installed when applicable per wellhead manufacturer's procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops.

5A) Break Test Variance
A break testing variance is requested to ONLY test broken pressure seals on the BOP equipment when moving from wellhead to wellhead for the intermediate hole sections which is in compliance with API Standard 53. The maximum anticipated surface pressure is less than 4800psi and the deepest intermediate casing point does not penetrate the Wolfcamp Formation.

5B) Flex Hose Variance
A variance is requested to allow use of a flex hose as the choke line from the BOP to the Choke Manifold. If this hose is used, a copy of the manufacturer's certification and pressure test chart will be kept on the rig. Attached is an example of a certification and pressure test chart. The manufacturer does not require anchors.

5C) 10M Annular Variance
XOM requests a variance to use a 5000 psi annular BOP with a 10,000 psi BOP stack. The component and compatibility tables attached along with the general well control plans demonstrate how the 5000 psi annular BOP will be protected from pressures that exceed its rated working pressure (RWP). The pressure at which the control of the wellbore is transferred from the annular preventer to another available preventer will not exceed 3500 psi (70% of the RWP of the 5000 psi annular BOP).

8A) Open Hole Logging Variance
Open hole logging will not be done on this well.

10A) Spudder Rig Variance
XOM requests the option to utilize a spudder rig (Atlas Copco RD20 or Equivalent) to set and cement surface casing.

10B) Batch Drilling Variance
XOM requests a variance to be able to batch drill this well. In doing so, XOM will set casing and ensure that the well is cemented properly (unless approval is given for offline cementing) and the well is static. XOM will contact the BLM to skid the rig to drill the remaining wells on the pad. Once surface and intermediate strings are all completed, XOM will begin drilling the production hole on each of the wells.

6. Proposed Mud Circulation System

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)	Comments
0' – 614'	12.25"	FW/Native	8.3 - 8.7	35-40	NC	Fresh Water or Native Water
614' – 8315'	8.75"	BDE/OBM or FW/Brine	9.5 - 10	30-32	NC	Fluid type will be based upon on well conditions. A fully saturated system will be used across the salt interval.
8315' – 17300'	6.75"	OBM	9 - 9.6	50-60	NC - 20	OBM or Cut Brine depending on Well Conditions

Section 6 Summary:

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

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

7. Auxiliary Well Control and Monitoring Equipment

Section 7 Summary:

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

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

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

8. Logging, Coring and Testing Program

Section 8 Summary:

Open hole logging will not be done on this well.

9. Abnormal Pressures and Temperatures / Potential Hazards

Section 9 Summary:

The estimated bottom hole temperature of 157F to 177F. No H2S is expected but monitors will be in place to detect any H2S occurrences. Should these circumstances be encountered the operator and drilling contractor are prepared to take all necessary steps to ensure safety of all personnel and environment. Lost circulation is possible throughout the well.

10. Anticipated Starting Date and Duration of Operations

Section 10 Summary:

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

Azimuths to Grid North
True North: -0.21°
Magnetic North: 6.19°

Magnetic Field
Strength: 47182.5nT
Dip Angle: 59.75°
Date: 1/30/2024
Model: IGRF2020

Project: Eddy County, NM (NAD 27 NME) PLU 13-1-24 PC
Site: PLU 13-1-24 PC Pad B - Project for Ayush
Well: PLU 13-1 PC 705H
Wellbore: OH
Design: Plan 4

WELL DETAILS: PLU 13-1 PC 705H

Ground Elevation: 3105.0
RKB Elevation: 3105+30 @ 3135.0usft
Rig Name:

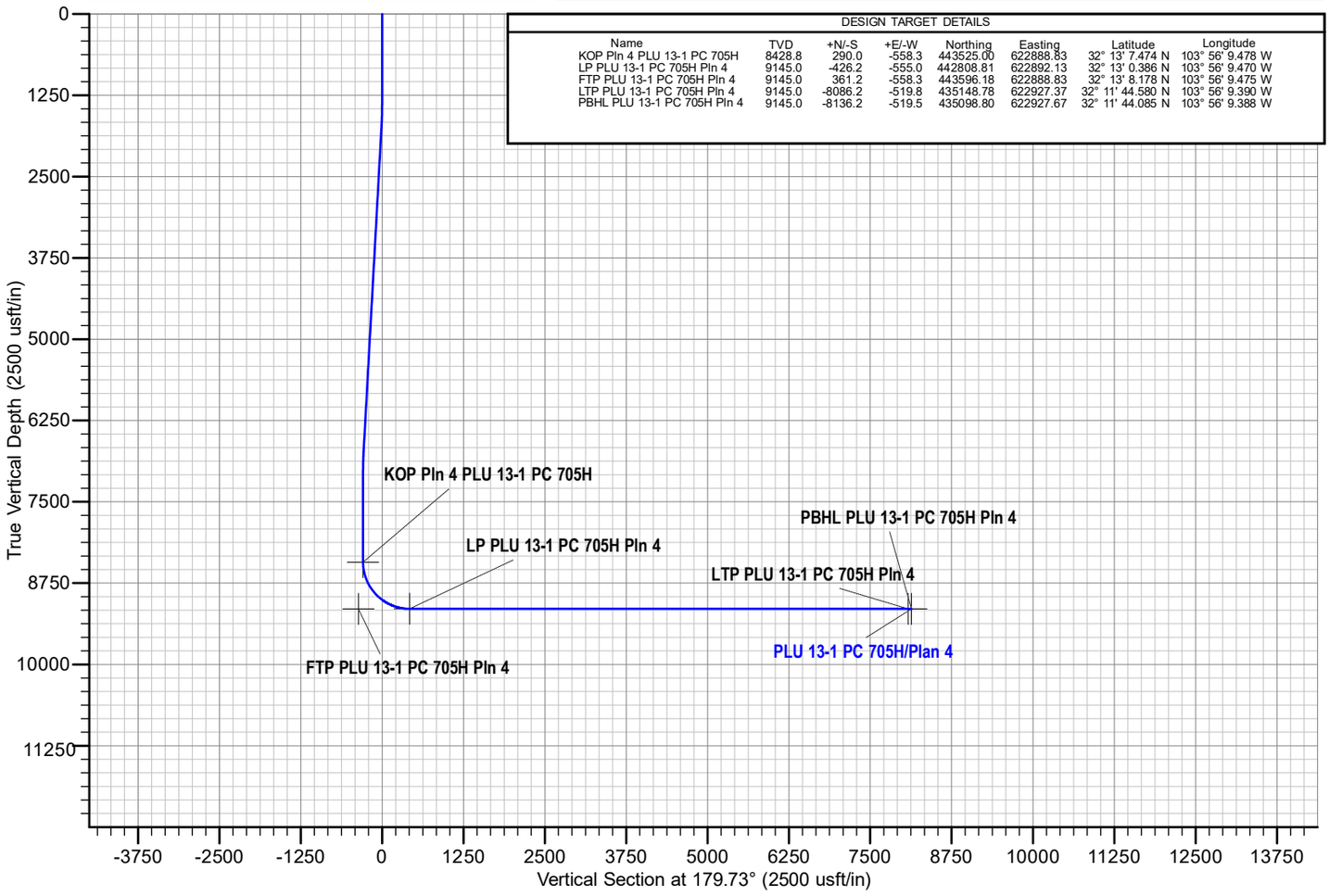
Northing	Easting	Latitude	Longitude
443235.00	623447.15	32° 13' 4.584 N	103° 56' 2.991 W

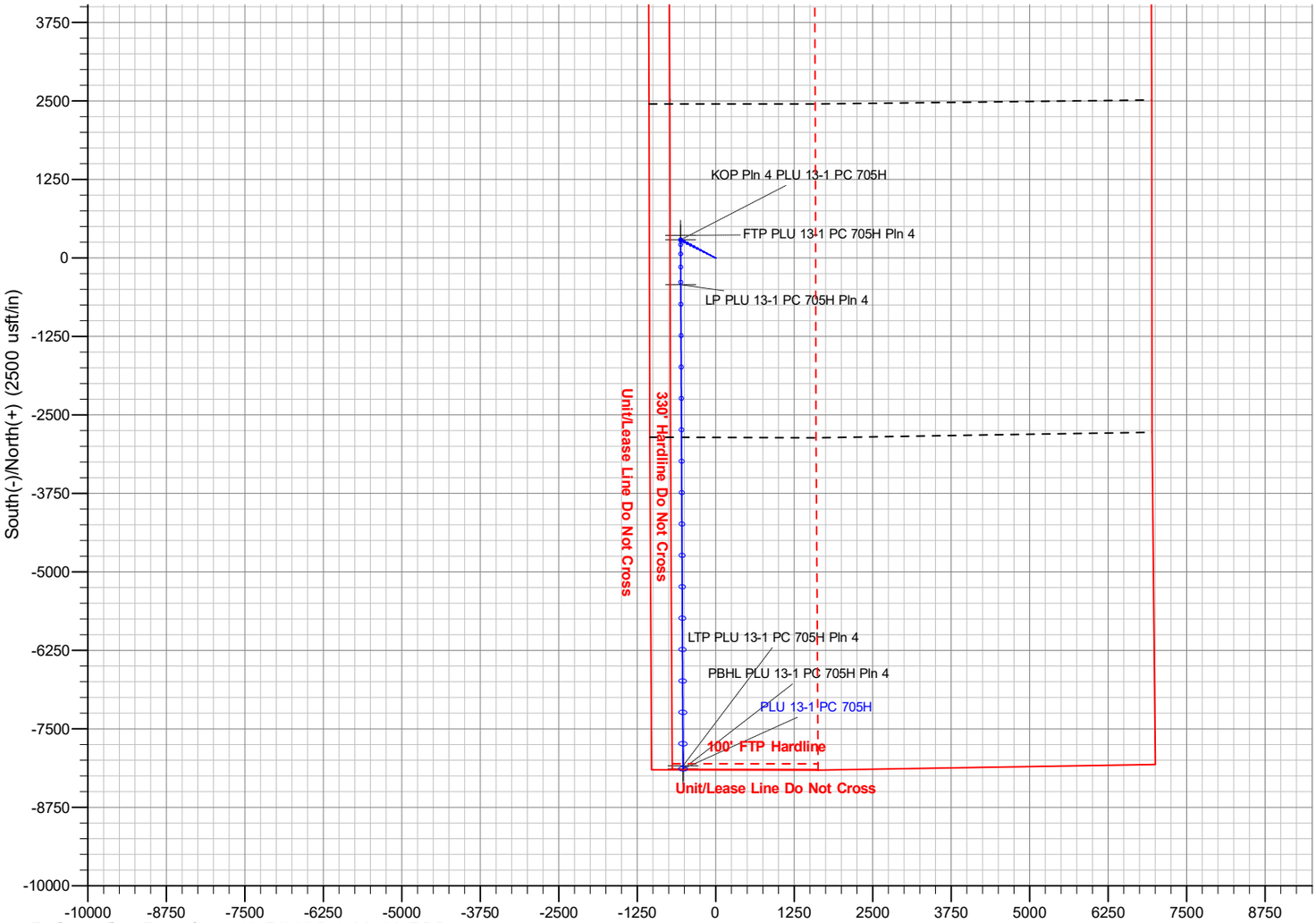
SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
1400.0	0.00	0.00	1400.0	0.0	0.0	0.00	0.00	0.0	
1737.7	6.75	297.45	1737.0	9.2	-17.6	2.00	297.45	-9.2	
6748.6	6.75	297.45	6713.0	280.8	-540.7	0.00	0.00	-283.4	
7086.3	0.00	0.00	7050.0	290.0	-558.3	2.00	180.00	-292.6	
8465.1	0.00	0.00	8428.8	290.0	-558.3	0.00	0.00	-292.6	KOP Pln 4 PLU 13-1 PC 705H
9590.1	90.00	179.74	9145.0	-426.2	-555.0	8.00	179.74	423.6	
17250.3	90.00	179.74	9145.0	-8086.2	-519.8	0.00	0.00	8083.7	LTP PLU 13-1 PC 705H Pln 4
17300.2	90.00	179.74	9145.0	-8136.2	-519.6	0.00	0.00	8133.7	PBHL PLU 13-1 PC 705H Pln 4

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
KOP Pln 4 PLU 13-1 PC 705H	8428.8	290.0	-558.3	443525.00	622888.83	32° 13' 7.474 N	103° 56' 9.478 W
LP PLU 13-1 PC 705H Pln 4	9145.0	-426.2	-555.0	442808.81	622892.13	32° 13' 0.386 N	103° 56' 9.470 W
FTP PLU 13-1 PC 705H Pln 4	9145.0	361.2	-558.3	443596.18	622888.83	32° 13' 8.178 N	103° 56' 9.475 W
LTP PLU 13-1 PC 705H Pln 4	9145.0	-8086.2	-519.8	435148.78	622927.37	32° 11' 44.580 N	103° 56' 9.390 W
PBHL PLU 13-1 PC 705H Pln 4	9145.0	-8136.2	-519.5	435098.80	622927.67	32° 11' 44.085 N	103° 56' 9.388 W





COMPANY ROC
FIELD *HP 532/547/549/552 - Eddy County, NM (NAD 27 NME)
SITE PLU 13-1-24 PC Pad B - Project for Ayush
WELL PLU 13-1 PC 705H
WELLPATH OH
DESIGN Plan 4
DEPTHUNI (ft)

WELL INFO
MAP DATU NAD 1927 (NADCON CONUS)
MAP SYSTI US State Plane 1927 (Exact solution)
MAP ZONE New Mexico East 3001
WELL LAT 32.21794
WELL LON -103.934
WELL EW I 623447.2
WELL NS N 443235
CONVERGI 0.21
MAGMOD IGRF2020
DECLINATI 6.4
NORTH RE Grid
GROUND E 3105
KB ELEVN 3135
VS AZI 179.73

SURVEY TYPE INFORMATION
H 0.00 - 17300.24 PLAN 4 : XOM_R2OWSG MWD+IFR1+MS

SURVEY LIST

Measured MD	Inclination INC	Azimuth AZI	Course Ler CL	True Vertic TVD	SubSea TV SSTVD	Local N/-S NS	Local E/-W EW	Easting X	Northing Y
0	0	0	0	0	3135	0	0	623447.2	443235
100	0	0	100	100	3035	0	0	623447.2	443235
200	0	0	100	200	2935	0	0	623447.2	443235
300	0	0	100	300	2835	0	0	623447.2	443235
400	0	0	100	400	2735	0	0	623447.2	443235
500	0	0	100	500	2635	0	0	623447.2	443235
600	0	0	100	600	2535	0	0	623447.2	443235
700	0	0	100	700	2435	0	0	623447.2	443235
800	0	0	100	800	2335	0	0	623447.2	443235
900	0	0	100	900	2235	0	0	623447.2	443235
1000	0	0	100	1000	2135	0	0	623447.2	443235
1100	0	0	100	1100	2035	0	0	623447.2	443235
1200	0	0	100	1200	1935	0	0	623447.2	443235
1300	0	0	100	1300	1835	0	0	623447.2	443235
1400	0	0	100	1400	1735	0	0	623447.2	443235
1500	2	297.448	100	1499.98	1635.02	0.804	-1.549	623445.6	443235.8
1600	4	297.448	100	1599.838	1535.162	3.217	-6.193	623441	443238.2

1700	6	297.448	100	1699.452	1435.548	7.234	-13.927	623433.2	443242.2
1737.735	6.755	297.448	37.735	1736.953	1398.047	9.166	-17.647	623429.5	443244.2
1800	6.755	297.448	62.265	1798.786	1336.214	12.542	-24.146	623423	443247.5
1900	6.755	297.448	100	1898.092	1236.908	17.963	-34.584	623412.6	443253
2000	6.755	297.448	100	1997.398	1137.602	23.385	-45.021	623402.1	443258.4
2100	6.755	297.448	100	2096.704	1038.296	28.806	-55.459	623391.7	443263.8
2200	6.755	297.448	100	2196.01	938.99	34.228	-65.897	623381.3	443269.2
2300	6.755	297.448	100	2295.315	839.685	39.649	-76.335	623370.8	443274.6
2400	6.755	297.448	100	2394.621	740.379	45.071	-86.773	623360.4	443280.1
2500	6.755	297.448	100	2493.927	641.073	50.493	-97.211	623349.9	443285.5
2600	6.755	297.448	100	2593.233	541.767	55.914	-107.648	623339.5	443290.9
2700	6.755	297.448	100	2692.539	442.461	61.336	-118.086	623329.1	443296.3
2800	6.755	297.448	100	2791.845	343.155	66.757	-128.524	623318.6	443301.8
2900	6.755	297.448	100	2891.151	243.849	72.179	-138.962	623308.2	443307.2
3000	6.755	297.448	100	2990.457	144.543	77.601	-149.4	623297.8	443312.6
3100	6.755	297.448	100	3089.762	45.238	83.022	-159.838	623287.3	443318
3200	6.755	297.448	100	3189.068	-54.068	88.444	-170.275	623276.9	443323.4
3300	6.755	297.448	100	3288.374	-153.374	93.865	-180.713	623266.4	443328.9
3400	6.755	297.448	100	3387.68	-252.68	99.287	-191.151	623256	443334.3
3500	6.755	297.448	100	3486.986	-351.986	104.708	-201.589	623245.6	443339.7
3600	6.755	297.448	100	3586.292	-451.292	110.13	-212.027	623235.1	443345.1
3700	6.755	297.448	100	3685.598	-550.598	115.552	-222.465	623224.7	443350.6
3800	6.755	297.448	100	3784.904	-649.904	120.973	-232.902	623214.2	443356
3900	6.755	297.448	100	3884.21	-749.21	126.395	-243.34	623203.8	443361.4
4000	6.755	297.448	100	3983.515	-848.515	131.816	-253.778	623193.4	443366.8
4100	6.755	297.448	100	4082.821	-947.821	137.238	-264.216	623182.9	443372.2
4200	6.755	297.448	100	4182.127	-1047.13	142.659	-274.654	623172.5	443377.7
4300	6.755	297.448	100	4281.433	-1146.43	148.081	-285.092	623162.1	443383.1
4400	6.755	297.448	100	4380.739	-1245.74	153.503	-295.529	623151.6	443388.5
4500	6.755	297.448	100	4480.045	-1345.05	158.924	-305.967	623141.2	443393.9
4600	6.755	297.448	100	4579.351	-1444.35	164.346	-316.405	623130.7	443399.3
4700	6.755	297.448	100	4678.657	-1543.66	169.767	-326.843	623120.3	443404.8
4800	6.755	297.448	100	4777.962	-1642.96	175.189	-337.281	623109.9	443410.2
4900	6.755	297.448	100	4877.268	-1742.27	180.61	-347.719	623099.4	443415.6
5000	6.755	297.448	100	4976.574	-1841.57	186.032	-358.156	623089	443421
5100	6.755	297.448	100	5075.88	-1940.88	191.454	-368.594	623078.6	443426.5
5200	6.755	297.448	100	5175.186	-2040.19	196.875	-379.032	623068.1	443431.9
5300	6.755	297.448	100	5274.492	-2139.49	202.297	-389.47	623057.7	443437.3
5400	6.755	297.448	100	5373.798	-2238.8	207.718	-399.908	623047.2	443442.7
5500	6.755	297.448	100	5473.104	-2338.1	213.14	-410.346	623036.8	443448.1
5600	6.755	297.448	100	5572.41	-2437.41	218.561	-420.783	623026.4	443453.6
5700	6.755	297.448	100	5671.715	-2536.72	223.983	-431.221	623015.9	443459
5800	6.755	297.448	100	5771.021	-2636.02	229.405	-441.659	623005.5	443464.4
5900	6.755	297.448	100	5870.327	-2735.33	234.826	-452.097	622995.1	443469.8
6000	6.755	297.448	100	5969.633	-2834.63	240.248	-462.535	622984.6	443475.2
6100	6.755	297.448	100	6068.939	-2933.94	245.669	-472.973	622974.2	443480.7
6200	6.755	297.448	100	6168.245	-3033.25	251.091	-483.41	622963.7	443486.1

6300	6.755	297.448	100	6267.551	-3132.55	256.512	-493.848	622953.3	443491.5
6400	6.755	297.448	100	6366.857	-3231.86	261.934	-504.286	622942.9	443496.9
6500	6.755	297.448	100	6466.162	-3331.16	267.356	-514.724	622932.4	443502.4
6600	6.755	297.448	100	6565.468	-3430.47	272.777	-525.162	622922	443507.8
6700	6.755	297.448	100	6664.774	-3529.77	278.199	-535.6	622911.6	443513.2
6748.61	6.755	297.448	48.61	6713.047	-3578.05	280.834	-540.673	622906.5	443515.8
6800	5.727	297.448	51.39	6764.132	-3629.13	283.409	-545.631	622901.5	443518.4
6900	3.727	297.448	100	6863.786	-3728.79	287.207	-552.944	622894.2	443522.2
7000	1.727	297.448	100	6963.668	-3828.67	289.4	-557.165	622890	443524.4
7086.345	0	0	86.345	7050	-3915	290	-558.32	622888.8	443525
7100	0	0	13.655	7063.655	-3928.66	290	-558.32	622888.8	443525
7200	0	0	100	7163.655	-4028.66	290	-558.32	622888.8	443525
7300	0	0	100	7263.655	-4128.66	290	-558.32	622888.8	443525
7400	0	0	100	7363.655	-4228.66	290	-558.32	622888.8	443525
7500	0	0	100	7463.655	-4328.66	290	-558.32	622888.8	443525
7600	0	0	100	7563.655	-4428.66	290	-558.32	622888.8	443525
7700	0	0	100	7663.655	-4528.66	290	-558.32	622888.8	443525
7800	0	0	100	7763.655	-4628.66	290	-558.32	622888.8	443525
7900	0	0	100	7863.655	-4728.66	290	-558.32	622888.8	443525
8000	0	0	100	7963.655	-4828.66	290	-558.32	622888.8	443525
8100	0	0	100	8063.655	-4928.66	290	-558.32	622888.8	443525
8200	0	0	100	8163.655	-5028.66	290	-558.32	622888.8	443525
8300	0	0	100	8263.655	-5128.66	290	-558.32	622888.8	443525
8400	0	0	100	8363.655	-5228.66	290	-558.32	622888.8	443525
8465.145	0	0	65.145	8428.8	-5293.8	290	-558.32	622888.8	443525
8500	2.788	179.736	34.855	8463.641	-5328.64	289.152	-558.316	622888.8	443524.2
8550	6.788	179.736	50	8513.457	-5378.46	284.979	-558.297	622888.9	443520
8600	10.788	179.736	50	8562.86	-5427.86	277.341	-558.262	622888.9	443512.3
8650	14.788	179.736	50	8611.609	-5476.61	266.276	-558.211	622888.9	443501.3
8700	18.788	179.736	50	8659.469	-5524.47	251.837	-558.144	622889	443486.8
8750	22.788	179.736	50	8706.204	-5571.2	234.095	-558.063	622889.1	443469.1
8800	26.788	179.736	50	8751.588	-5616.59	213.136	-557.966	622889.2	443448.1
8850	30.788	179.736	50	8795.399	-5660.4	189.063	-557.856	622889.3	443424.1
8900	34.788	179.736	50	8837.424	-5702.42	161.992	-557.731	622889.4	443397
8950	38.788	179.736	50	8877.459	-5742.46	132.055	-557.593	622889.6	443367.1
9000	42.788	179.736	50	8915.308	-5780.31	99.399	-557.443	622889.7	443334.4
9050	46.788	179.736	50	8950.786	-5815.79	64.182	-557.281	622889.9	443299.2
9100	50.788	179.736	50	8983.721	-5848.72	26.576	-557.108	622890	443261.6
9150	54.788	179.736	50	9013.953	-5878.95	-13.236	-556.925	622890.2	443221.8
9200	58.788	179.736	50	9041.334	-5906.33	-55.06	-556.732	622890.4	443179.9
9250	62.788	179.736	50	9065.731	-5930.73	-98.692	-556.532	622890.6	443136.3
9300	66.788	179.736	50	9087.025	-5952.03	-143.919	-556.323	622890.8	443091.1
9350	70.788	179.736	50	9105.112	-5970.11	-190.522	-556.109	622891	443044.5
9400	74.788	179.736	50	9119.904	-5984.9	-238.273	-555.889	622891.3	442996.7
9450	78.788	179.736	50	9131.329	-5996.33	-286.939	-555.665	622891.5	442948.1
9500	82.788	179.736	50	9139.332	-6004.33	-336.283	-555.438	622891.7	442898.7
9550	86.788	179.736	50	9143.872	-6008.87	-386.066	-555.209	622891.9	442848.9

9590.145	90	179.736	40.145	9144.997	-6010	-426.189	-555.025	622892.1	442808.8
9600	90	179.736	9.855	9144.997	-6010	-436.045	-554.979	622892.2	442799
9700	90	179.736	100	9144.997	-6010	-536.044	-554.519	622892.6	442699
9800	90	179.736	100	9144.997	-6010	-636.042	-554.059	622893.1	442599
9900	90	179.736	100	9144.997	-6010	-736.041	-553.599	622893.6	442499
10000	90	179.736	100	9144.997	-6010	-836.04	-553.139	622894	442399
10100	90	179.736	100	9144.997	-6010	-936.039	-552.679	622894.5	442299
10200	90	179.736	100	9144.997	-6010	-1036.04	-552.219	622894.9	442199
10300	90	179.736	100	9144.997	-6010	-1136.04	-551.759	622895.4	442099
10400	90	179.736	100	9144.998	-6010	-1236.04	-551.299	622895.9	441999
10500	90	179.736	100	9144.998	-6010	-1336.04	-550.838	622896.3	441899
10600	90	179.736	100	9144.998	-6010	-1436.03	-550.378	622896.8	441799
10700	90	179.736	100	9144.998	-6010	-1536.03	-549.918	622897.2	441699
10800	90	179.736	100	9144.998	-6010	-1636.03	-549.458	622897.7	441599
10900	90	179.736	100	9144.998	-6010	-1736.03	-548.998	622898.2	441499
11000	90	179.736	100	9144.998	-6010	-1836.03	-548.538	622898.6	441399
11100	90	179.736	100	9144.998	-6010	-1936.03	-548.078	622899.1	441299
11200	90	179.736	100	9144.998	-6010	-2036.03	-547.618	622899.5	441199
11300	90	179.736	100	9144.998	-6010	-2136.03	-547.158	622900	441099
11400	90	179.736	100	9144.998	-6010	-2236.03	-546.697	622900.5	440999
11500	90	179.736	100	9144.998	-6010	-2336.02	-546.237	622900.9	440899
11600	90	179.736	100	9144.998	-6010	-2436.02	-545.777	622901.4	440799
11700	90	179.736	100	9144.998	-6010	-2536.02	-545.317	622901.8	440699
11800	90	179.736	100	9144.998	-6010	-2636.02	-544.857	622902.3	440599
11900	90	179.736	100	9144.998	-6010	-2736.02	-544.397	622902.8	440499
12000	90	179.736	100	9144.998	-6010	-2836.02	-543.937	622903.2	440399
12100	90	179.736	100	9144.998	-6010	-2936.02	-543.477	622903.7	440299
12200	90	179.736	100	9144.998	-6010	-3036.02	-543.017	622904.1	440199
12300	90	179.736	100	9144.998	-6010	-3136.02	-542.556	622904.6	440099
12400	90	179.736	100	9144.998	-6010	-3236.02	-542.096	622905.1	439999
12500	90	179.736	100	9144.998	-6010	-3336.01	-541.636	622905.5	439899
12600	90	179.736	100	9144.998	-6010	-3436.01	-541.176	622906	439799
12700	90	179.736	100	9144.998	-6010	-3536.01	-540.716	622906.4	439699
12800	90	179.736	100	9144.998	-6010	-3636.01	-540.256	622906.9	439599
12900	90	179.736	100	9144.998	-6010	-3736.01	-539.796	622907.4	439499
13000	90	179.736	100	9144.998	-6010	-3836.01	-539.336	622907.8	439399
13100	90	179.736	100	9144.999	-6010	-3936.01	-538.876	622908.3	439299
13200	90	179.736	100	9144.999	-6010	-4036.01	-538.416	622908.7	439199
13300	90	179.736	100	9144.999	-6010	-4136.01	-537.955	622909.2	439099
13400	90	179.736	100	9144.999	-6010	-4236	-537.495	622909.7	438999
13500	90	179.736	100	9144.999	-6010	-4336	-537.035	622910.1	438899
13600	90	179.736	100	9144.999	-6010	-4436	-536.575	622910.6	438799
13700	90	179.736	100	9144.999	-6010	-4536	-536.115	622911	438699
13800	90	179.736	100	9144.999	-6010	-4636	-535.655	622911.5	438599
13900	90	179.736	100	9144.999	-6010	-4736	-535.195	622912	438499
14000	90	179.736	100	9144.999	-6010	-4836	-534.735	622912.4	438399
14100	90	179.736	100	9144.999	-6010	-4936	-534.275	622912.9	438299

14200	90	179.736	100	9144.999	-6010	-5036	-533.814	622913.3	438199
14300	90	179.736	100	9144.999	-6010	-5136	-533.354	622913.8	438099
14400	90	179.736	100	9144.999	-6010	-5235.99	-532.894	622914.3	437999
14500	90	179.736	100	9144.999	-6010	-5335.99	-532.434	622914.7	437899
14600	90	179.736	100	9144.999	-6010	-5435.99	-531.974	622915.2	437799
14700	90	179.736	100	9144.999	-6010	-5535.99	-531.514	622915.6	437699
14800	90	179.736	100	9144.999	-6010	-5635.99	-531.054	622916.1	437599
14900	90	179.736	100	9144.999	-6010	-5735.99	-530.594	622916.6	437499
15000	90	179.736	100	9144.999	-6010	-5835.99	-530.134	622917	437399
15100	90	179.736	100	9144.999	-6010	-5935.99	-529.673	622917.5	437299
15200	90	179.736	100	9144.999	-6010	-6035.99	-529.213	622917.9	437199
15300	90	179.736	100	9144.999	-6010	-6135.98	-528.753	622918.4	437099
15400	90	179.736	100	9144.999	-6010	-6235.98	-528.293	622918.9	436999
15500	90	179.736	100	9144.999	-6010	-6335.98	-527.833	622919.3	436899
15600	90	179.736	100	9144.999	-6010	-6435.98	-527.373	622919.8	436799
15700	90	179.736	100	9144.999	-6010	-6535.98	-526.913	622920.2	436699
15800	90	179.736	100	9144.999	-6010	-6635.98	-526.453	622920.7	436599
15900	90	179.736	100	9145	-6010	-6735.98	-525.993	622921.2	436499
16000	90	179.736	100	9145	-6010	-6835.98	-525.533	622921.6	436399
16100	90	179.736	100	9145	-6010	-6935.98	-525.072	622922.1	436299
16200	90	179.736	100	9145	-6010	-7035.98	-524.612	622922.5	436199
16300	90	179.736	100	9145	-6010	-7135.97	-524.152	622923	436099
16400	90	179.736	100	9145	-6010	-7235.97	-523.692	622923.5	435999
16500	90	179.736	100	9145	-6010	-7335.97	-523.232	622923.9	435899
16600	90	179.736	100	9145	-6010	-7435.97	-522.772	622924.4	435799
16700	90	179.736	100	9145	-6010	-7535.97	-522.312	622924.8	435699
16800	90	179.736	100	9145	-6010	-7635.97	-521.852	622925.3	435599
16900	90	179.736	100	9145	-6010	-7735.97	-521.392	622925.8	435499
17000	90	179.736	100	9145	-6010	-7835.97	-520.931	622926.2	435399
17100	90	179.736	100	9145	-6010	-7935.97	-520.471	622926.7	435299
17200	90	179.736	100	9145	-6010	-8035.96	-520.011	622927.1	435199
17250.26	90	179.736	50.256	9145	-6010	-8086.22	-519.78	622927.4	435148.8
17300.24	90	179.736	49.981	9145	-6010	-8136.2	-519.55	622927.6	435098.8

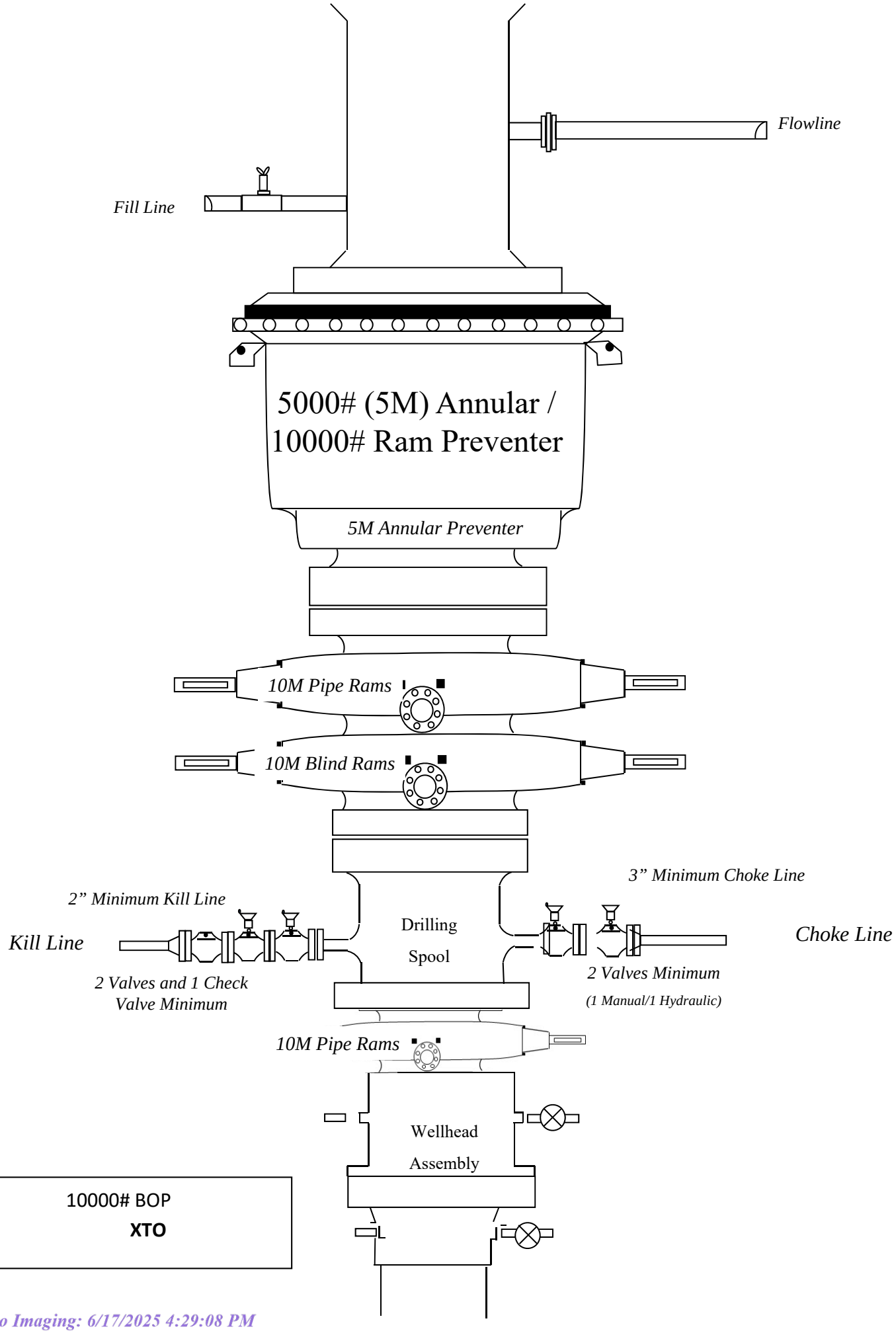
Latitude	Longitude	Dogleg Sev	Build Rate	Turn Rate	Vertical Section
LAT	LON	DLS	BLD	TRN	VS
32.21794	-103.934	0	0	0	0
32.21794	-103.934	0	0	0	0
32.21794	-103.934	0	0	0	0
32.21794	-103.934	0	0	0	0
32.21794	-103.934	0	0	0	0
32.21794	-103.934	0	0	0	0
32.21794	-103.934	0	0	0	0
32.21794	-103.934	0	0	0	0
32.21794	-103.934	0	0	0	0
32.21794	-103.934	0	0	0	0
32.21794	-103.934	0	0	0	0
32.21794	-103.934	0	0	0	0
32.21794	-103.934	0	0	0	0
32.21794	-103.934	0	0	0	0
32.21794	-103.934	0	0	0	0
32.21794	-103.934	2	2	0	-0.812
32.21795	-103.934	2	2	0	-3.246

32.21796	-103.934	2	2	0	-7.299
32.21797	-103.934	2	2	0	-9.249
32.21798	-103.934	0	0	0	-12.655
32.21799	-103.934	0	0	0	-18.126
32.21801	-103.934	0	0	0	-23.597
32.21802	-103.934	0	0	0	-29.067
32.21804	-103.934	0	0	0	-34.538
32.21805	-103.934	0	0	0	-40.009
32.21807	-103.934	0	0	0	-45.479
32.21808	-103.934	0	0	0	-50.95
32.2181	-103.935	0	0	0	-56.421
32.21811	-103.935	0	0	0	-61.892
32.21813	-103.935	0	0	0	-67.362
32.21814	-103.935	0	0	0	-72.833
32.21816	-103.935	0	0	0	-78.304
32.21817	-103.935	0	0	0	-83.774
32.21819	-103.935	0	0	0	-89.245
32.2182	-103.935	0	0	0	-94.716
32.21822	-103.935	0	0	0	-100.186
32.21823	-103.935	0	0	0	-105.657
32.21825	-103.935	0	0	0	-111.128
32.21826	-103.935	0	0	0	-116.599
32.21828	-103.935	0	0	0	-122.069
32.21829	-103.935	0	0	0	-127.54
32.21831	-103.935	0	0	0	-133.011
32.21832	-103.935	0	0	0	-138.481
32.21834	-103.935	0	0	0	-143.952
32.21835	-103.935	0	0	0	-149.423
32.21837	-103.935	0	0	0	-154.893
32.21838	-103.935	0	0	0	-160.364
32.2184	-103.935	0	0	0	-165.835
32.21841	-103.935	0	0	0	-171.306
32.21843	-103.935	0	0	0	-176.776
32.21844	-103.935	0	0	0	-182.247
32.21846	-103.935	0	0	0	-187.718
32.21847	-103.935	0	0	0	-193.188
32.21849	-103.935	0	0	0	-198.659
32.2185	-103.935	0	0	0	-204.13
32.21852	-103.935	0	0	0	-209.6
32.21853	-103.935	0	0	0	-215.071
32.21855	-103.936	0	0	0	-220.542
32.21856	-103.936	0	0	0	-226.013
32.21858	-103.936	0	0	0	-231.483
32.21859	-103.936	0	0	0	-236.954
32.21861	-103.936	0	0	0	-242.425
32.21862	-103.936	0	0	0	-247.895
32.21864	-103.936	0	0	0	-253.366

32.21865	-103.936	0	0	0	-258.837
32.21867	-103.936	0	0	0	-264.307
32.21868	-103.936	0	0	0	-269.778
32.2187	-103.936	0	0	0	-275.249
32.21871	-103.936	0	0	0	-280.72
32.21872	-103.936	0	0	0	-283.379
32.21873	-103.936	2	-2	0	-285.977
32.21874	-103.936	2	-2	0	-289.81
32.21874	-103.936	2	-2	0	-292.023
32.21874	-103.936	2	-2	0	-292.628
32.21874	-103.936	0	0	0	-292.628
32.21874	-103.936	0	0	0	-292.628
32.21874	-103.936	0	0	0	-292.628
32.21874	-103.936	0	0	0	-292.628
32.21874	-103.936	0	0	0	-292.628
32.21874	-103.936	0	0	0	-292.628
32.21874	-103.936	0	0	0	-292.628
32.21874	-103.936	0	0	0	-292.628
32.21874	-103.936	0	0	0	-292.628
32.21874	-103.936	0	0	0	-292.628
32.21874	-103.936	0	0	0	-292.628
32.21874	-103.936	0	0	0	-292.628
32.21874	-103.936	0	0	0	-292.628
32.21874	-103.936	0	0	0	-292.628
32.21874	-103.936	0	0	0	-292.628
32.21874	-103.936	8	8	0	-291.78
32.21873	-103.936	8	8	0	-287.607
32.21871	-103.936	8	8	0	-279.969
32.21868	-103.936	8	8	0	-268.904
32.21864	-103.936	8	8	0	-254.465
32.21859	-103.936	8	8	0	-236.723
32.21853	-103.936	8	8	0	-215.763
32.21847	-103.936	8	8	0	-191.689
32.21839	-103.936	8	8	0	-164.618
32.21831	-103.936	8	8	0	-134.681
32.21822	-103.936	8	8	0	-102.024
32.21812	-103.936	8	8	0	-66.807
32.21802	-103.936	8	8	0	-29.201
32.21791	-103.936	8	8	0	10.612
32.21779	-103.936	8	8	0	52.436
32.21767	-103.936	8	8	0	96.068
32.21755	-103.936	8	8	0	141.296
32.21742	-103.936	8	8	0	187.899
32.21729	-103.936	8	8	0	235.65
32.21716	-103.936	8	8	0	284.317
32.21702	-103.936	8	8	0	333.662
32.21688	-103.936	8	8	0	383.445

32.21677	-103.936	8	8	0	423.569
32.21675	-103.936	0	0	0	433.424
32.21647	-103.936	0	0	0	533.424
32.2162	-103.936	0	0	0	633.424
32.21592	-103.936	0	0	0	733.424
32.21565	-103.936	0	0	0	833.424
32.21537	-103.936	0	0	0	933.424
32.2151	-103.936	0	0	0	1033.424
32.21482	-103.936	0	0	0	1133.424
32.21455	-103.936	0	0	0	1233.424
32.21427	-103.936	0	0	0	1333.424
32.214	-103.936	0	0	0	1433.424
32.21372	-103.936	0	0	0	1533.424
32.21345	-103.936	0	0	0	1633.424
32.21317	-103.936	0	0	0	1733.424
32.2129	-103.936	0	0	0	1833.424
32.21262	-103.936	0	0	0	1933.424
32.21235	-103.936	0	0	0	2033.424
32.21207	-103.936	0	0	0	2133.424
32.2118	-103.936	0	0	0	2233.424
32.21152	-103.936	0	0	0	2333.424
32.21125	-103.936	0	0	0	2433.424
32.21097	-103.936	0	0	0	2533.424
32.2107	-103.936	0	0	0	2633.424
32.21042	-103.936	0	0	0	2733.424
32.21015	-103.936	0	0	0	2833.424
32.20987	-103.936	0	0	0	2933.424
32.2096	-103.936	0	0	0	3033.424
32.20933	-103.936	0	0	0	3133.424
32.20905	-103.936	0	0	0	3233.424
32.20878	-103.936	0	0	0	3333.424
32.2085	-103.936	0	0	0	3433.424
32.20823	-103.936	0	0	0	3533.424
32.20795	-103.936	0	0	0	3633.424
32.20768	-103.936	0	0	0	3733.424
32.2074	-103.936	0	0	0	3833.424
32.20713	-103.936	0	0	0	3933.424
32.20685	-103.936	0	0	0	4033.424
32.20658	-103.936	0	0	0	4133.424
32.2063	-103.936	0	0	0	4233.424
32.20603	-103.936	0	0	0	4333.424
32.20575	-103.936	0	0	0	4433.424
32.20548	-103.936	0	0	0	4533.424
32.2052	-103.936	0	0	0	4633.424
32.20493	-103.936	0	0	0	4733.424
32.20465	-103.936	0	0	0	4833.424
32.20438	-103.936	0	0	0	4933.424

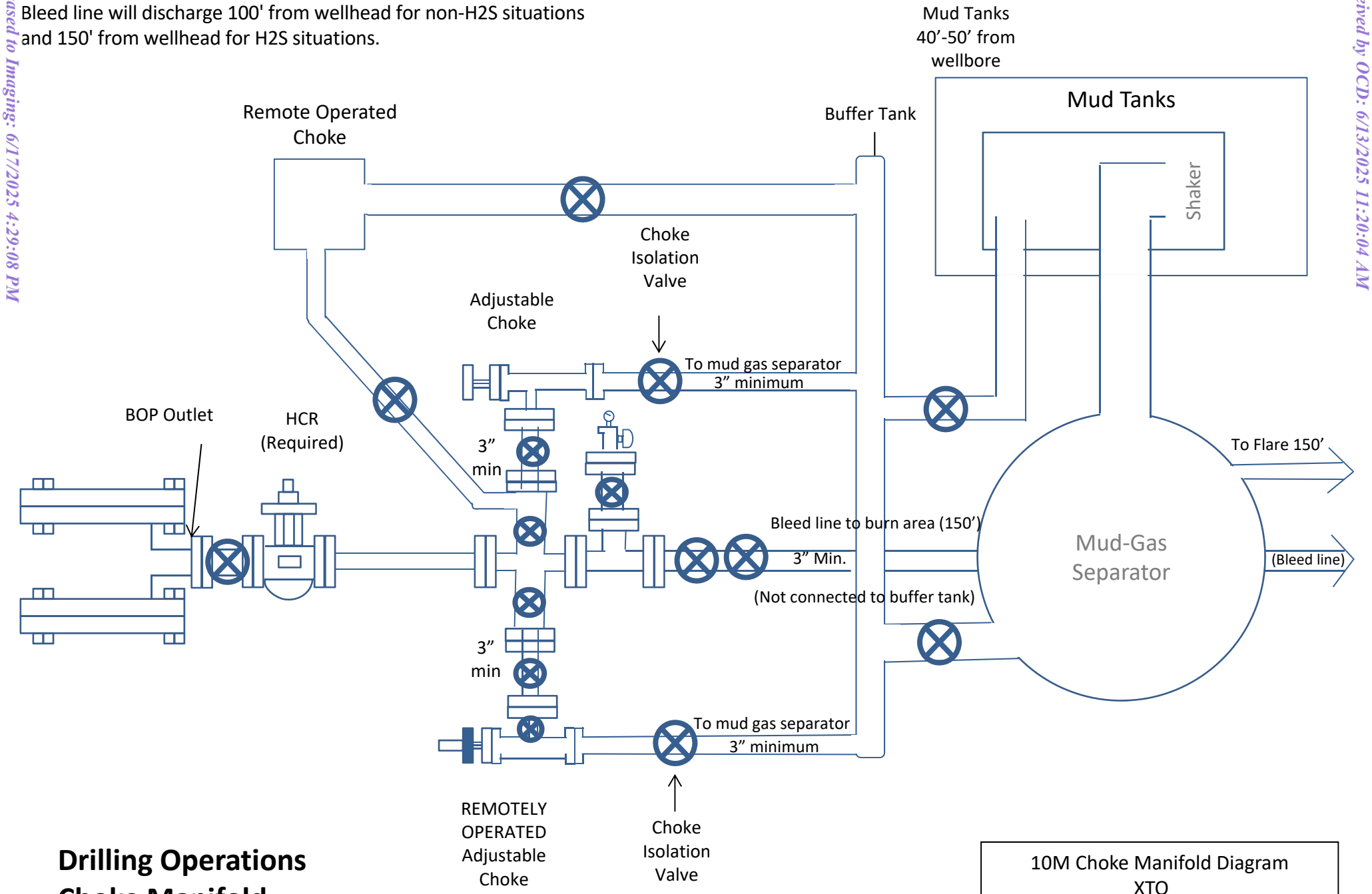
32.2041	-103.936	0	0	0	5033.424
32.20383	-103.936	0	0	0	5133.424
32.20355	-103.936	0	0	0	5233.424
32.20328	-103.936	0	0	0	5333.424
32.203	-103.936	0	0	0	5433.424
32.20273	-103.936	0	0	0	5533.424
32.20245	-103.936	0	0	0	5633.424
32.20218	-103.936	0	0	0	5733.424
32.2019	-103.936	0	0	0	5833.424
32.20163	-103.936	0	0	0	5933.424
32.20135	-103.936	0	0	0	6033.424
32.20108	-103.936	0	0	0	6133.424
32.2008	-103.936	0	0	0	6233.424
32.20053	-103.936	0	0	0	6333.424
32.20025	-103.936	0	0	0	6433.424
32.19998	-103.936	0	0	0	6533.424
32.1997	-103.936	0	0	0	6633.424
32.19943	-103.936	0	0	0	6733.424
32.19915	-103.936	0	0	0	6833.424
32.19888	-103.936	0	0	0	6933.424
32.1986	-103.936	0	0	0	7033.424
32.19833	-103.936	0	0	0	7133.424
32.19805	-103.936	0	0	0	7233.424
32.19778	-103.936	0	0	0	7333.424
32.1975	-103.936	0	0	0	7433.424
32.19723	-103.936	0	0	0	7533.424
32.19695	-103.936	0	0	0	7633.424
32.19668	-103.936	0	0	0	7733.424
32.19641	-103.936	0	0	0	7833.424
32.19613	-103.936	0	0	0	7933.424
32.19586	-103.936	0	0	0	8033.424
32.19572	-103.936	0	0	0	8083.681
32.19558	-103.936	0	0	0	8133.662



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

Tenaris

TenarisHydril Wedge 511

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

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

Pipe Body Data

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

Connection Data

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

Notes

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

Tenaris

TenarisHydril Wedge 511

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

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

Pipe Body Data

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

Connection Data

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

Notes

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

Tenaris

TPN™

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

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

Pipe Body Data

Geometry				Performance	
Nominal OD	5.500 in.	**Wall Thickness**	0.361 in.	**Body Yield Strength**	641 x1000 lb
Nominal Weight	20.00 lb/ft	**Plain End Weight**	19.83 lb/ft	**Min. Internal Yield Pressure**	12,640 psi
Drift	4.653 in.	**OD Tolerance**	API	**SMYS**	110,000 psi
Nominal ID	4.778 in.			**Collapse Pressure**	11,100 psi

Connection Data

Geometry		Performance		Make-Up Torques	
Connection OD	6.300 in.	**Tension Efficiency**	100 %	**Minimum**	13,860 ft-lb
Coupling Length	8.408 in.	**Joint Yield Strength**	641 x1000 lb	**Optimum**	15,400 ft-lb
Connection ID	4.778 in.	**Internal Pressure Capacity**	12,640 psi	**Maximum**	16,940 ft-lb
Make-up Loss	4.204 in.	**Compression Efficiency**	100 %		
Threads per inch	5	**Compression Strength**	641 x1000 lb	**Operation Limit Torques**	
Connection OD Option	Regular	**Max. Allowable Bending**	92 °/100 ft	**Operating Torque**	26,350 ft-lb
		External Pressure Capacity	11,100 psi	**Yield Torque**	29,300 ft-lb

Notes

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

PI/CIII

Printed on: 6/13/2025

Tenaris

TenarisHydril Wedge 441®

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

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

Pipe Body Data

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

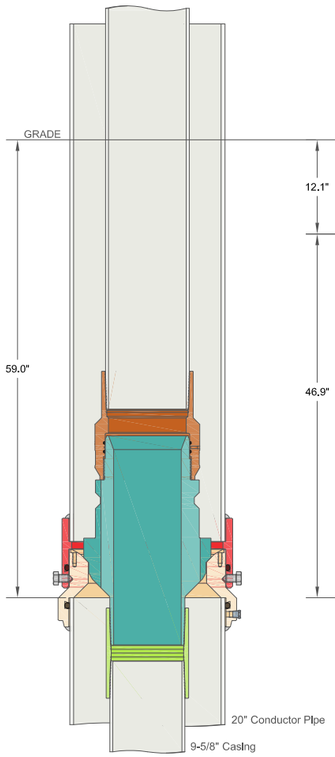
Connection Data

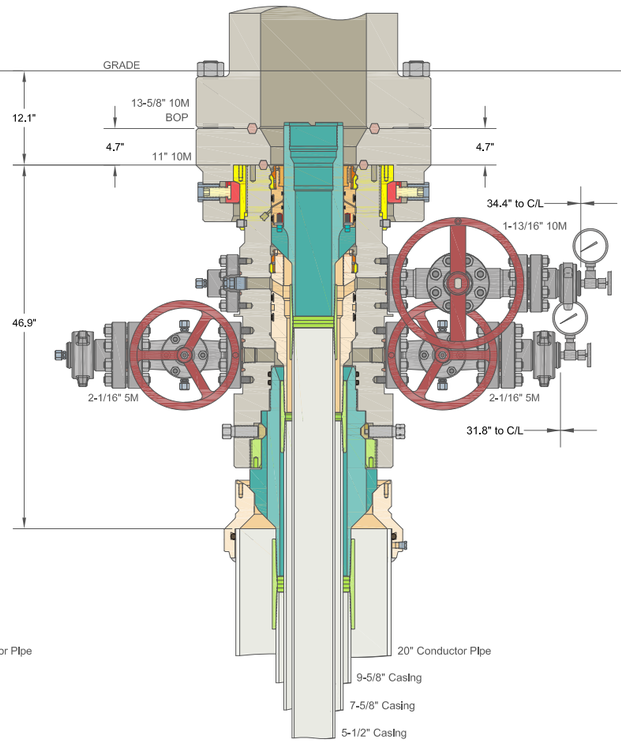
Geometry		Performance		Make-Up Torques	
Connection OD	5.852 in.	**Tension Efficiency**	81.50 %	**Minimum**	15,000 ft-lb
Coupling Length	8.714 in.	**Joint Yield Strength**	594 x1000 lb	**Optimum**	16,000 ft-lb
Connection ID	4.778 in.	**Internal Pressure Capacity**	14,360 psi	**Maximum**	19,200 ft-lb
Make-up Loss	3.780 in.	**Compression Efficiency**	81.50 %		
Threads per inch	3.40	**Compression Strength**	594 x1000 lb	**Operation Limit Torques**	
Connection OD Option	Regular	**Max. Allowable Bending**	84.76 °/100 ft	**Operating Torque**	36,000 ft-lb
		External Pressure Capacity	12,300 psi	**Yield Torque**	42,000 ft-lb
				Buck-On	
				Minimum	19,200 ft-lb
				Maximum	20,700 ft-lb

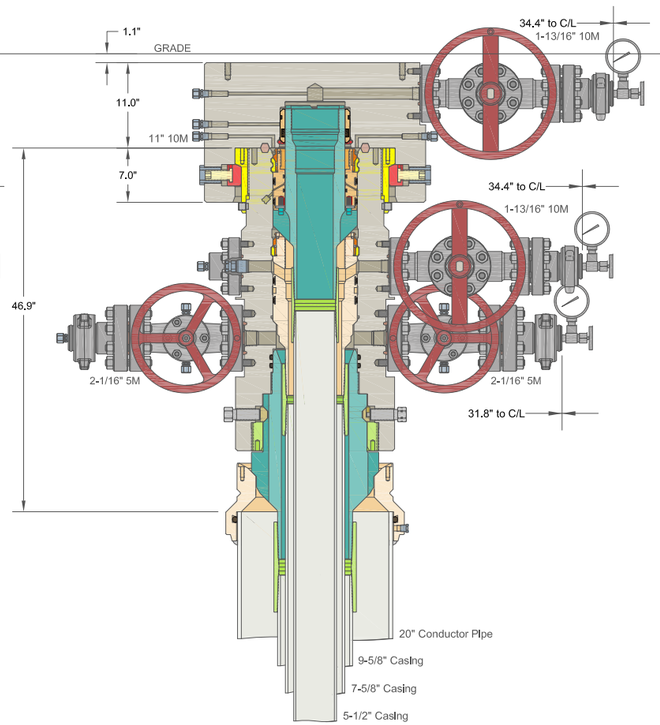
Notes

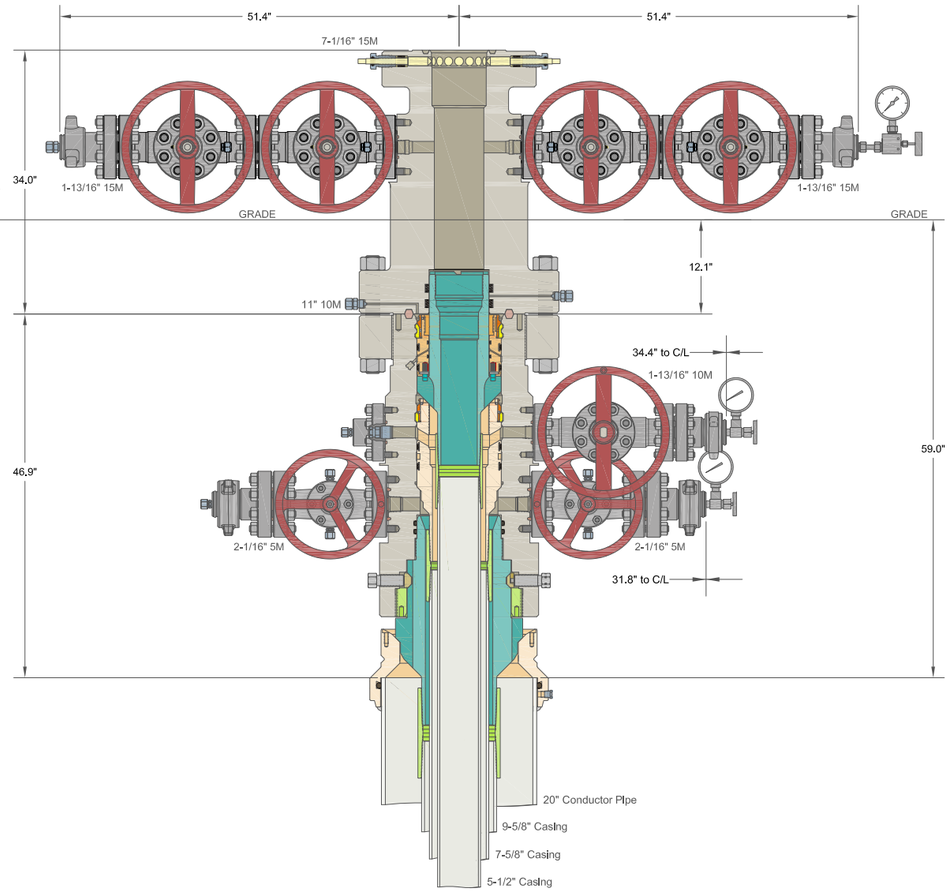
This connection is fully interchangeable with:
Wedge 441® - 5.5 in. - 0.304 (17.00) in. (lb/ft)
Wedge 461® - 5.5 in. - 0.304 (17.00) / 0.361 (20.00) / 0.415 (23.00) in. (lb/ft)
Connections with Dopeless® Technology are fully compatible with the same connection in its doped version

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









ALL DIMENSIONS APPROXIMA

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

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.

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

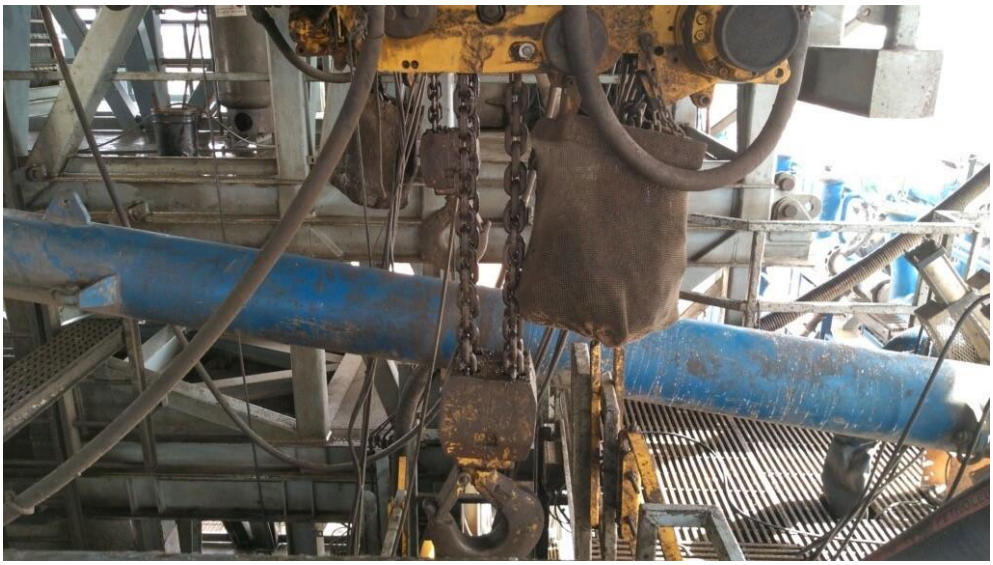


Figure 2: BOP Winch System

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.

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.

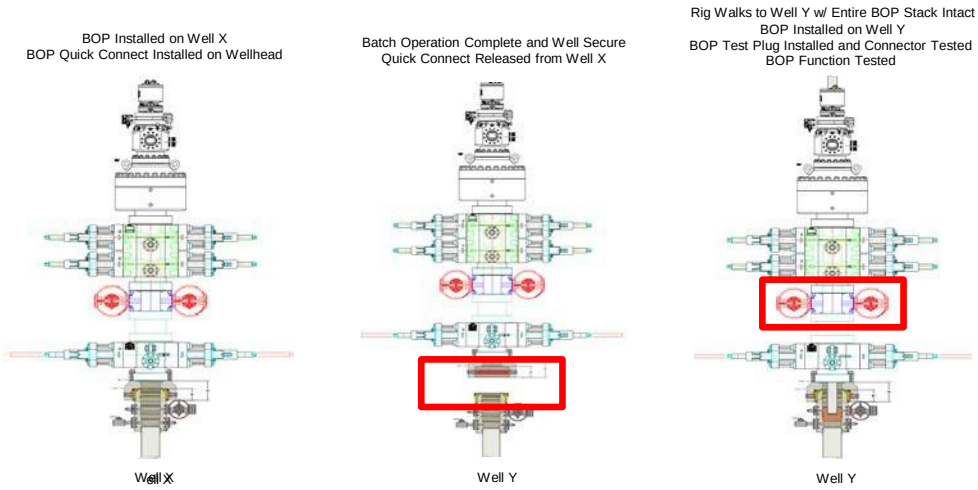
XTO Energy feels break testing and our current procedures meet the intent of CFR Title 43 Part 317 0and often exceed it. There has been no evidence that break testing results in more components failing than seen on full BOP tests. XTO Energy's internal standards requires complete BOPE tests more often 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.

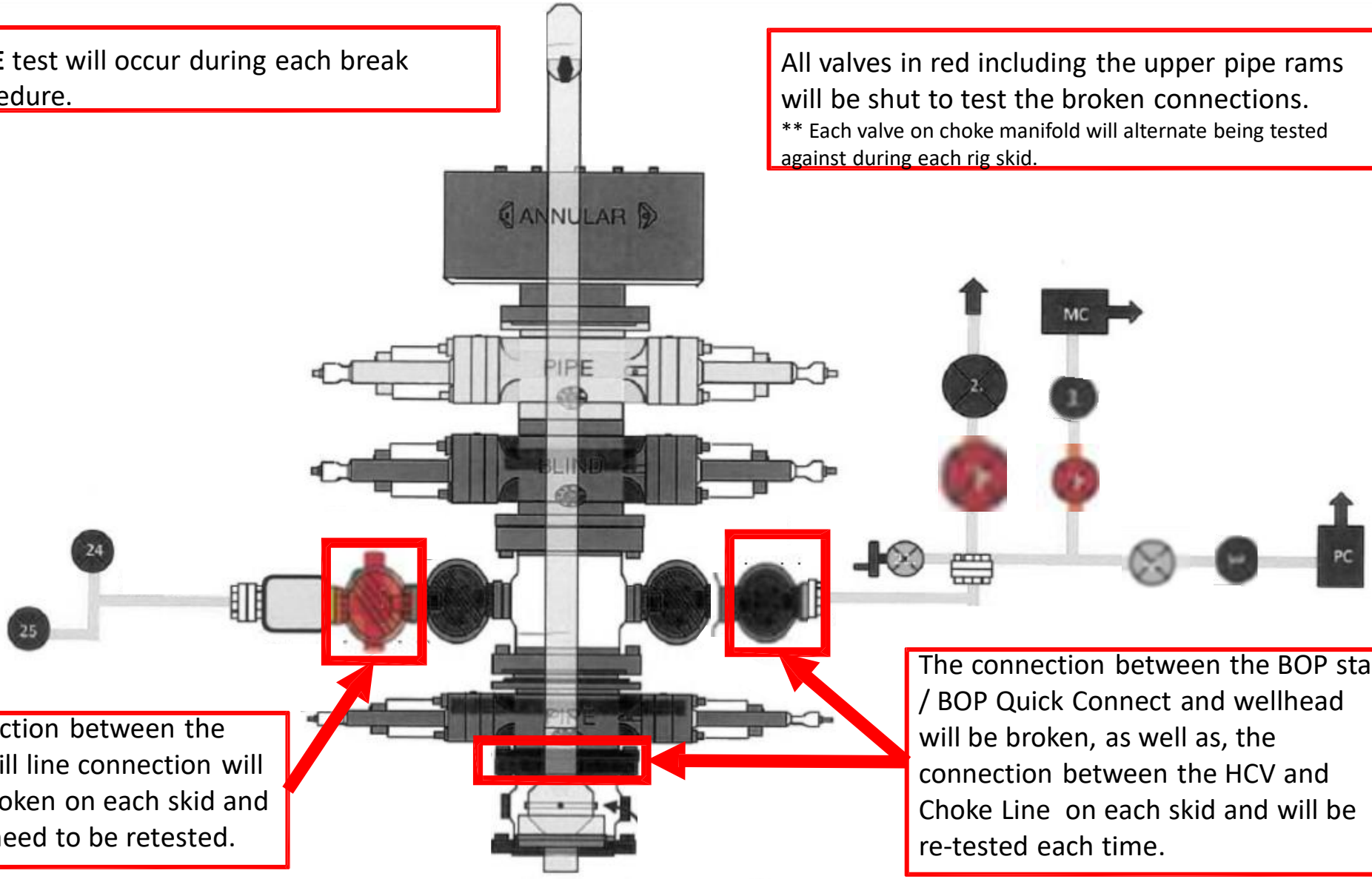
3. Full BOP test will be required if the intermediate hole section being drilled has a MASP over 5M.

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.

BLACK GOLD®

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

PHONE: +1 (281) 602-4100
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. OSPINOS

TITLE: QUALITY ASSURANCE

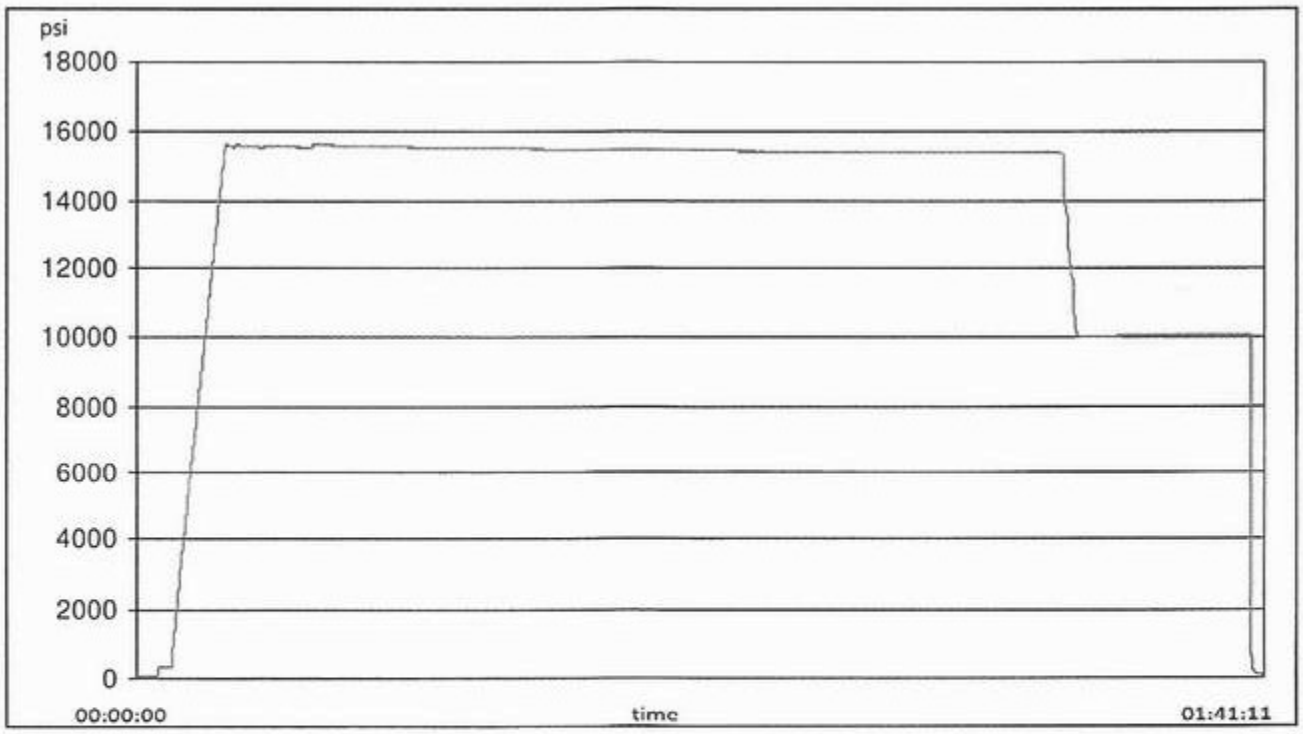
DATE: 1/25/2024

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				



H3-15/16

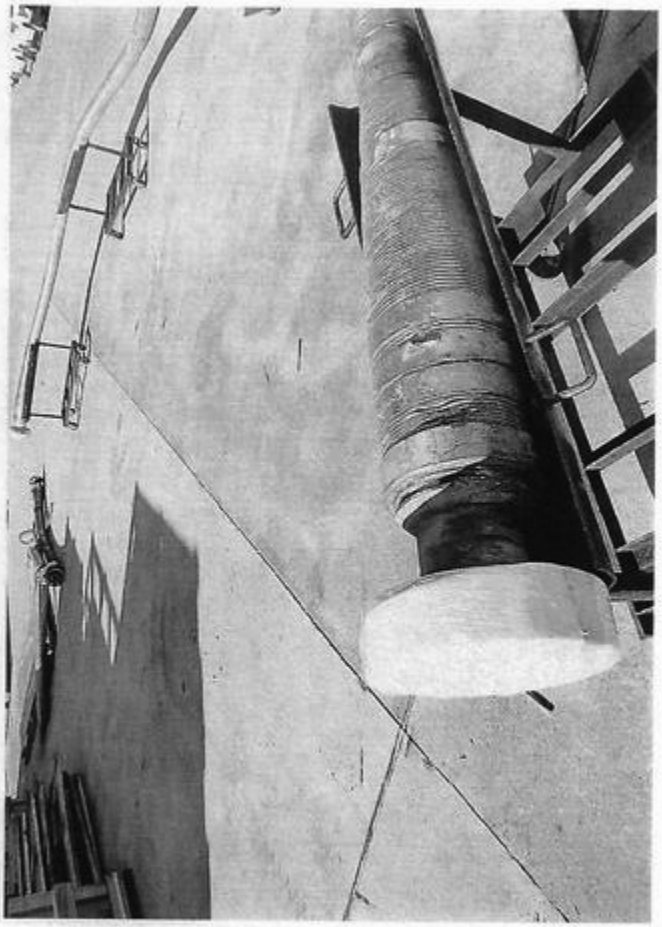
1/25/2024 11:48:06 AM

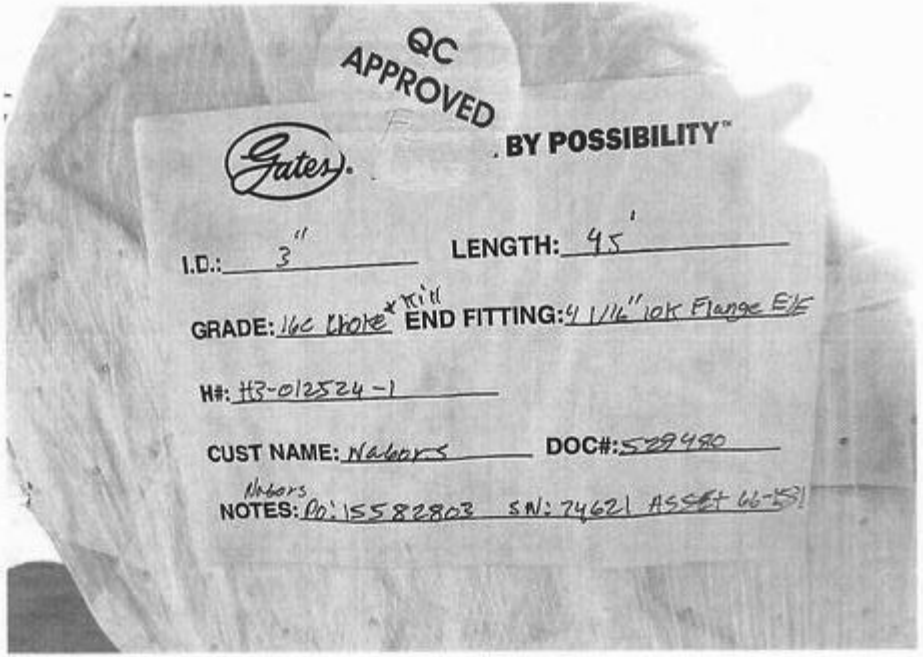
TEST REPORT

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





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.

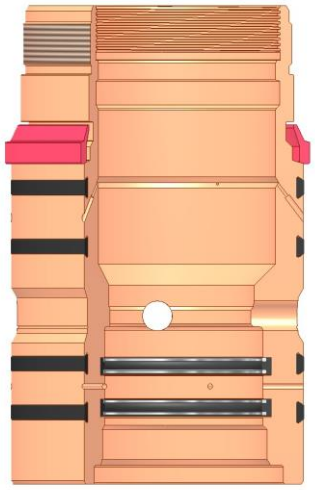
1. Cement Program

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

2. Offline Cementing Procedure

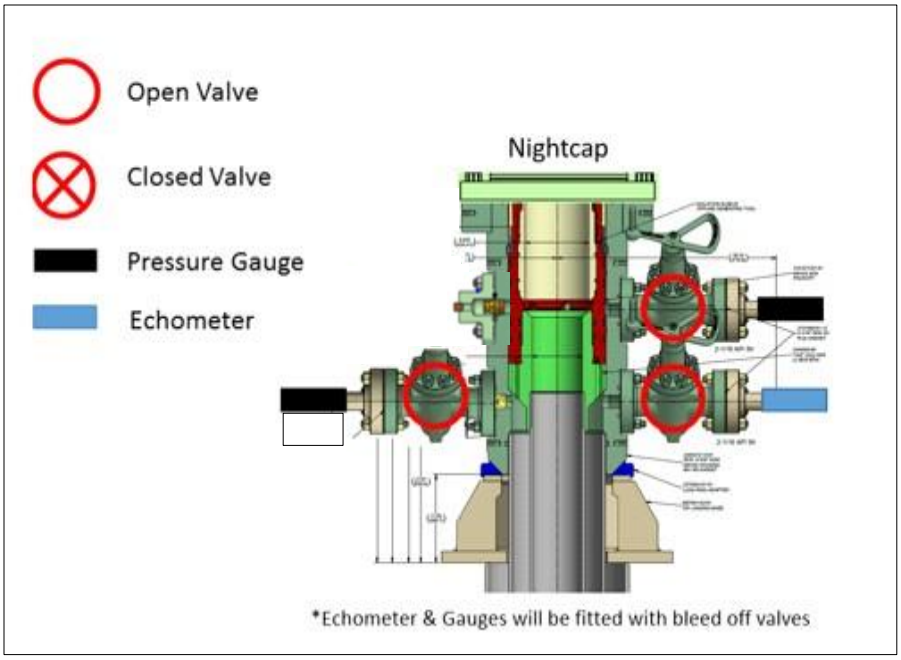
The operational sequence will be as follows. If a well control event occurs, the BLM will be contacted for approval prior to conducting offline cementing operations.

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

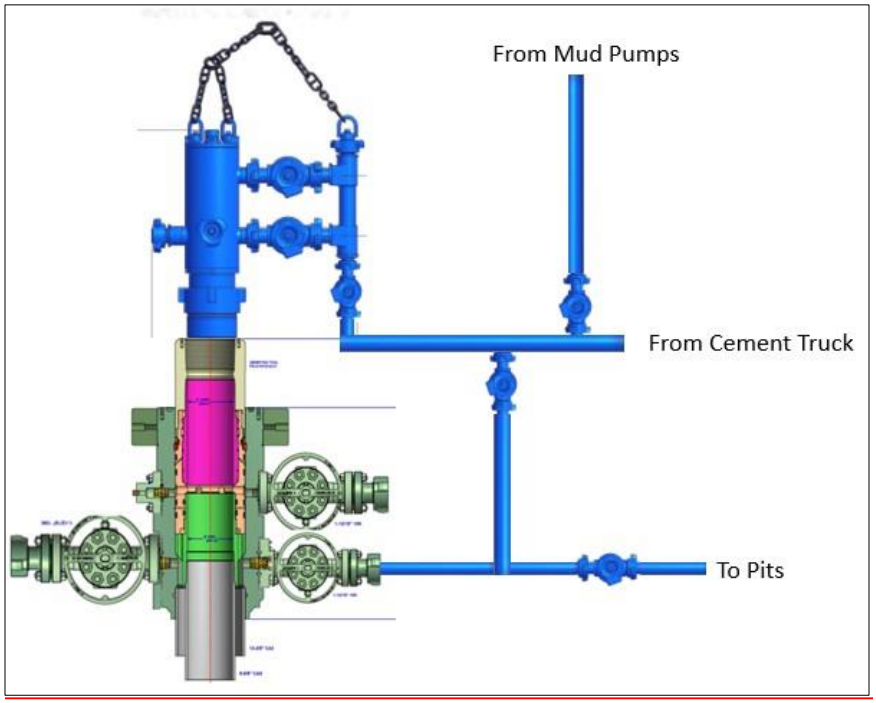
XTO Permian Operating, LLC Offline Cementing Variance Request



Wellhead diagram during skidding operations

6. Skid rig to next well on pad.
7. Confirm well is static before removing cap flange, flange will not be removed and offline cementing operations will not commence until well is under control. If well is not static, casing outlet valves will provide access to both the casing ID and annulus. Rig or third party pump truck will kill well prior to cementing or 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.

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

General Information
Phone: (505) 629-6116

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

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

CONDITIONS

Operator:	OGRID:
XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	373075
	Action Number: 474002
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Any previous COA's not addressed within the updated COA's still apply.	6/17/2025