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

Sundry Print Report

05/09/2025

Well Name: POKER LAKE UNIT 20 BD
Well Location: T25S / R30E / SEC 20 / SWSW / 32.10881 / -103.910517
County or Parish/State: EDDY / NM

Well Number: 117H
Type of Well: OIL WELL
Allottee or Tribe Name:

Lease Number: NMLC064894
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: 2844202

Type of Submission: Notice of Intent
Type of Action: APD Change

Date Sundry Submitted: 03/28/2025
Time Sundry Submitted: 09:56

Date proposed operation will begin: 04/04/2025

Procedure Description: XTO Permian Operating, LLC. respectfully requests approval to make the following changes to the approved APD. Changes to include KOP, FTP, LTP, BHL, proposed total depth, and pool. FROM: TO: KOP: 205' FSL & 480' FWL OF SECTION 20-T25S-R30E 616' FSL & 330' FWL OF SECTION 20-T25S-R30E FTP: 100' FNL & 770' FWL OF SECTION 29-T25S-R30E 100' FNL & 330' FWL OF SECTION 29-T25S-R30E LTP: 100' FSL & 770' FWL OF SECTION 32-T25S-R30E 100' FSL & 330' FWL OF SECTION 32-T25S-R30E BHL: 50' FSL & 770' FWL OF SECTION 32-T25S-R30E 50' FSL & 330' FWL OF SECTION 32-T25S-R30E The proposed total depth is changing from 20739' MD; 9926' TVD to 20291' MD; 9388' TVD. The pool is changing from WC-015 G-06 S243119C; Bone Spring (97975) to Corral Canyon; Bone Spring, South (13354). There is no new surface disturbance.

NOI Attachments

Procedure Description

POKER_LAKE_UNIT_20BD_117H_Sundry_Docs_20250328095446.pdf

Well Name: POKER LAKE UNIT 20 BD | **Well Location:** T25S / R30E / SEC 20 / SWSW / 32.10881 / -103.910517 | **County or Parish/State:** EDDY / NM

Well Number: 117H | **Type of Well:** OIL WELL | **Allottee or Tribe Name:**

Lease Number: NMLC064894 | **Unit or CA Name:** POKER LAKE UNIT | **Unit or CA Number:** NMNM71016X

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

Conditions of Approval

Additional

PLU_20_BD_117H_COA_20250412090627.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: SHARMON TUBBS

Signed on: MAR 28, 2025 09:53 AM

Name: XTO PERMIAN OPERATING LLC

Title: Data Entry Clerk

Street Address: 22777 SPRINGWOODS VILLAGE PARKWAY

City: SPRING **State:** TX

Phone: (346) 502-7023

Email address: SHARMON.TUBBS@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: 05/09/2025

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. NMLC064894

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 20 BD/117H

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 WC-015 G-06 S243119C/Bone Spring

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)* SEC 20/T25S/R30E/NMP

11. Country or Parish, State EDDY/NM

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

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

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

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

FROM: TO:

KOP: 205 FSL & 480 FWL OF SECTION 20-T25S-R30E 616 FSL & 330 FWL OF SECTION 20-T25S-R30E
FTP: 100' FNL & 770' FWL OF SECTION 29-T25S-R30E 100' FNL & 330' FWL OF SECTION 29-T25S-R30E
LTP: 100' FSL & 770' FWL OF SECTION 32-T25S-R30E 100' FSL & 330' FWL OF SECTION 32-T25S-R30E
BHL: 50' FSL & 770' FWL OF SECTION 32-T25S-R30E 50' FSL & 330' FWL OF SECTION 32-T25S-R30E

The proposed total depth is changing from 20739 MD; 9926 TVD to 20291 MD; 9388 TVD.

Continued on page 3 additional information

14. I hereby certify that the foregoing is true and correct. Name *(Printed/Typed)* SHARMON TUBBS / Ph: (346) 502-7023

Title Data Entry Clerk

Signature (Electronic Submission)

Date 03/28/2025

THE SPACE FOR FEDERAL OR STATE OFICE USE

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

Title Petroleum Engineer

Date 05/09/2025

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

The pool is changing from WC-015 G-06 S243119C; Bone Spring (97975) to Corral Canyon; Bone Spring, South (13354).

There is no new surface disturbance.

Location of Well

0. SHL: SWSW / 205 FSL / 480 FWL / TWSP: 25S / RANGE: 30E / SECTION: 20 / LAT: 32.10881 / LONG: -103.910517 (TVD: 0 feet, MD: 0 feet)

PPP: NWNW / 100 FNL / 770 FWL / TWSP: 25S / RANGE: 30E / SECTION: 29 / LAT: 32.107978 / LONG: -103.90958 (TVD: 9926 feet, MD: 10300 feet)

BHL: SWSW / 50 FSL / 770 FWL / TWSP: 25S / RANGE: 30E / SECTION: 32 / LAT: 32.079181 / LONG: -103.909578 (TVD: 9926 feet, MD: 20739 feet)

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO
LEASE NO.:	**NMNM064894**
LOCATION:	Sec. 20, T.25 S, R 30 E
COUNTY:	Eddy County, New Mexico
WELL NAME & NO.:	Poker Lake Unit 20 BD 117H
SURFACE HOLE FOOTAGE:	205'/S & 480'/W
BOTTOM HOLE FOOTAGE:	50'/S & 330'/W

*Changes approved through engineering via **Sundry 2844202_** on 4-12-2025_. Any previous COAs not addressed within the updated COAs still apply.*

COA

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

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the **Delaware** formation. As a result, the Hydrogen Sulfide area must meet all requirements from 43 CFR 3176, 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 **809** feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.

    a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with

surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.

b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or **500 pounds compressive strength**, whichever is greater. (This is to include the lead cement)
c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
d. If cement falls back, remedial cementing will be done prior to drilling out that string.

Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

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

a. **First stage:** Operator will cement with intent to reach the top of the **Brushy Canyon at 6096'.**

b. **Second stage:** Operator will perform bradenhead squeeze and top-out. Cement to surface. If cement does not reach surface, the appropriate BLM office shall be notified. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst.**

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

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

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

C. PRESSURE CONTROL

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

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

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

D. SPECIAL REQUIREMENT (S)

Unit Wells

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

Commercial Well Determination

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

BOPE Break Testing Variance

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

Offline Cementing

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

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

Casing Clearance

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

GENERAL REQUIREMENTS

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

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

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

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

A. CASING

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

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

B. PRESSURE CONTROL

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

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

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

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

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

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

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

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

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

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

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

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

Approved by Zota Stevens on 4/12/2025
575-234-5998 / zstevens@blm.gov

C-102

Submit Electronically
Via OCD Permitting

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

Revised July 9, 2024

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

WELL LOCATION INFORMATION

API Number	Pool Code	Pool Name
30-015	13354	Corral Canyon; Bone Spring, South

Property Code	Property Name	Well Number
	POKER LAKE UNIT 20 BD	117H

ORGID No.	Operator Name	Ground Level Elevation
373075	XTO PERMIAN OPERATING, LLC.	3,158'

Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal

Mineral Owner: ☒ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
M	20	25 S	30 E		205' FSL	480' FWL	32.108810	-103.910517	EDDY

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
M	32	25 S	30 E		50' FSL	330' FWL	32.079176	-103.910999	EDDY

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
320	DEFINING		NO	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
M	20	25 S	30 E		616' FSL	330' FWL	32.109937	-103.911001	EDDY

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
D	29	25 S	30 E		100' FNL	330' FWL	32.107968	-103.911001	EDDY

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
M	32	25 S	30 E		100' FSL	330' FWL	32.079314	-103.910999	EDDY

Unitized Area or Area of Uniform Interest	Spacing Unit Type	Ground Floor Elevation:
NMNM-071016X	☒ Horizontal ☐ Vertical	3,158'

OPERATOR CERTIFICATIONS

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

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

Samantha Weis 3/27/2025

Signature Date

SURVEYOR CERTIFICATIONS

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

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

14 Feb 2024

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

TIM C. PAPPAS NEW MEXICO 21209 PROFESSIONAL SURVEYOR

Signature and Seal of Professional Surveyor

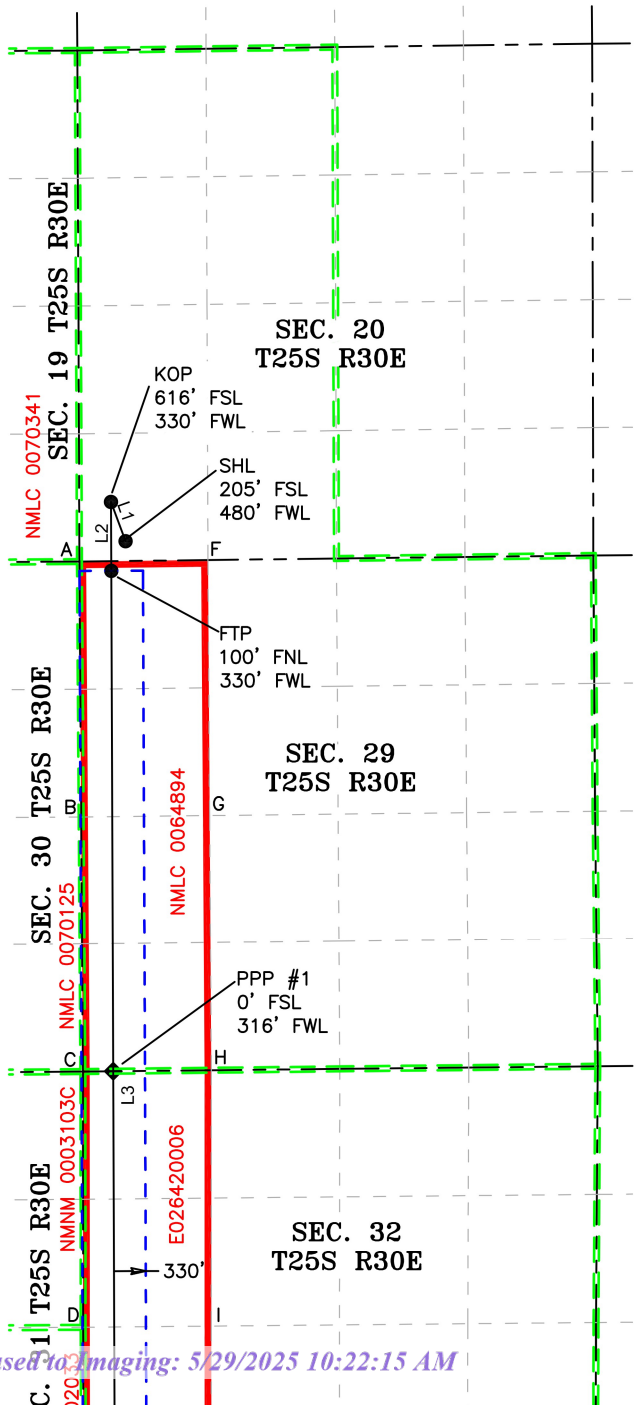
ACREAGE DEDICATION PLATS

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

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

LEGEND

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



LINE TABLE		
LINE	AZIMUTH	LENGTH
L1	339° 41'03"	436.44'
L2	179° 46'47"	716.10'
L3	179° 46'21"	10,473.88'

COORDINATE TABLE					
SHL (NAD 83 NME)			LTP (NAD 83 NME)		
Y =	403,578.2	N	Y =	392,847.6	N
X =	672,251.1	E	X =	672,143.9	E
LAT. =	32.108810	°N	LAT. =	32.079314	°N
LONG. =	103.910517	°W	LONG. =	103.910999	°W
KOP (NAD 83 NME)			BHL (NAD 83 NME)		
Y =	403,987.4	N	Y =	392,797.6	N
X =	672,099.6	E	X =	672,144.0	E
LAT. =	32.109937	°N	LAT. =	32.079176	°N
LONG. =	103.911001	°W	LONG. =	103.910999	°W
FTP (NAD 83 NME)					
Y =	403,271.3	N			
X =	672,102.4	E			
LAT. =	32.107968	°N			
LONG. =	103.911001	°W			
SHL (NAD 27 NME)			LTP (NAD 27 NME)		
Y =	403,519.9	N	Y =	392,789.6	N
X =	631,066.2	E	X =	630,958.7	E
LAT. =	32.108685	°N	LAT. =	32.079189	°N
LONG. =	103.910033	°W	LONG. =	103.910516	°W
KOP (NAD 27 NME)			BHL (NAD 27 NME)		
Y =	403,929.1	N	Y =	392,739.6	N
X =	630,914.8	E	X =	630,958.8	E
LAT. =	32.109811	°N	LAT. =	32.079051	°N
LONG. =	103.910517	°W	LONG. =	103.910517	°W
FTP (NAD 27 NME)					
Y =	403,213.0	N			
X =	630,917.5	E			
LAT. =	32.107843	°N			
LONG. =	103.910517	°W			
PPP #1 (NAD 83 NME)			PPP #1 (NAD 27 NME)		
Y =	398,058.4	N	Y =	398,000.2	N
X =	672,123.1	E	X =	630,938.1	E
LAT. =	32.093638	°N	LAT. =	32.093513	°N
LONG. =	103.911000	°W	LONG. =	103.910517	°W

CORNER COORDINATES (NAD83 NME)					
A - Y =	403,367.5	N	A - X =	671,771.7	E
B - Y =	400,711.3	N	B - X =	671,789.6	E
C - Y =	398,055.0	N	C - X =	671,807.5	E
D - Y =	395,399.7	N	D - X =	671,810.5	E
E - Y =	392,744.9	N	E - X =	671,814.0	E
F - Y =	403,383.2	N	F - X =	673,108.1	E
G - Y =	400,726.2	N	G - X =	673,125.6	E
H - Y =	398,069.2	N	H - X =	673,143.1	E
I - Y =	395,412.1	N	I - X =	673,143.2	E
J - Y =	392,755.6	N	J - X =	673,143.7	E
CORNER COORDINATES (NAD27 NME)					
A - Y =	403,309.2	N	A - X =	630,586.9	E

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

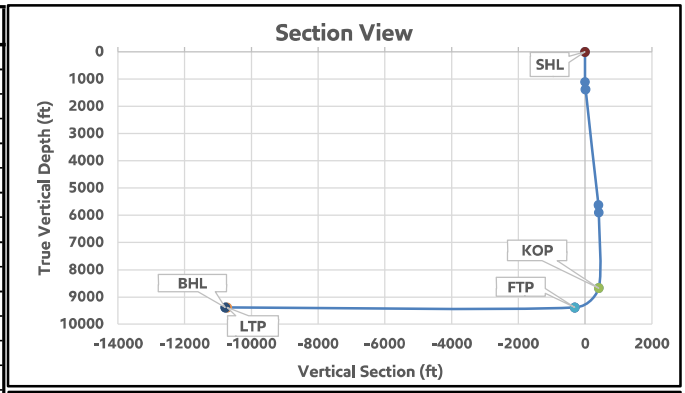
ExxonMobil
Poker Lake Unit 20BD - 117H
Projected TD: 20291' MD / 9388' TVD
SHL: 205' FSL & 480' FWL , Section 20, T25S, R30E
BHL: 50' FSL & 330' FWL , Section 32, T25S, R30E
Eddy County, NM

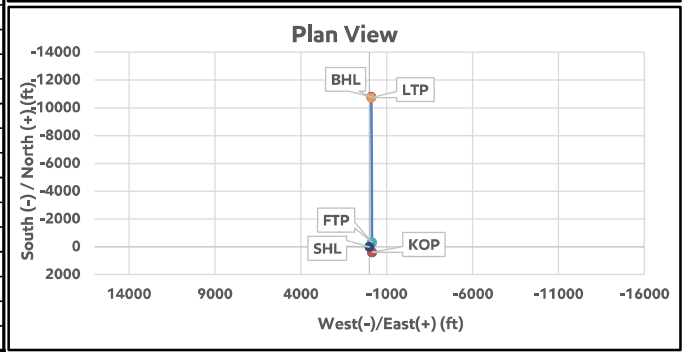
1. Geologic Name of Surface Formation

A. Quaternary

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

Formation	Well Depth	Water/Oil/Gas
Rustler	508'	Water
Salado	834'	Water
Base of Salt	3392'	Water
Delaware	3574'	Water
Cherry Canyon	4526'	Water/Oil/Gas
Brushy Canyon	6096'	Water/Oil/Gas
Basal Brushy Canyon	7141'	Water/Oil/Gas
Bone Spring Lm.	7396'	Water/Oil/Gas
Avalon	7521'	Water/Oil/Gas
Lower Avalon	7912'	Water/Oil/Gas
1st Bone Spring Lime	8105'	Water/Oil/Gas
1st Bone Spring Sand	8304'	Water/Oil/Gas
2nd Bone Spring Shale	8587'	Water/Oil/Gas
2nd Bone Spring Lime	8744'	Water/Oil/Gas
2nd Bone Spring Sand	8983'	Water/Oil/Gas
2nd Bone Spring T/B Carb	9302'	Water/Oil/Gas
2nd Bone Spring Sand (Lwr)	9388'	Water/Oil/Gas
Landing	9388'	Water/Oil/Gas
3rd Bone Spring Lime	9606'	Water/Oil/Gas
Harkey	9742'	Water/Oil/Gas





	Inclination (°)	Azimuth (°)	True Vertical Depth (ft)	Y Offset (ft)	X Offset (ft)
SHL	0	0	0	0	0
KOP	0	0	8672	409	-152
LP	90	180	9388	-307	-149
FTP	90	180	9388	-307	-149
LTP	90	180	9388	-10730	-108
BHL	90	180	9388	-10780	-107

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 809' 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' – 809'	809'	9-5/8"	40	J55	BTC	New	15.91	14.67	5.51
8.75"	0' – 4000'	3987'	7-5/8"	29.7	P110-ICY	Tenaris Wedge 511	New	6.00	8.52	3.42
8.75"	4000' – 8542'	8522'	7-5/8"	29.7	L80-IC	Tenaris Wedge 511	New	3.34	6.02	2.47
6.75"	0' – 8442'	8422'	5-1/2"	20	P110-CY	TPN	New	1.18	3.04	2.49
6.75"	8442' – 20291'	9388'	5-1/2"	20	P110-IC	Tenaris Wedge 441	New	1.18	3.02	2.67

Section 3 Summary:

XTO will keep casing fluid filled to meet BLM's collapse requirement.
The planned kick off point is located at: 8692' MD / 8672' 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	151	12.4	2.11	0	809	100%	
Surface 1	Tail	141	14.8	1.33	509	809	100%	
Intermediate 1	Lead							
Intermediate 1	Tail	229	14.8	1.45	6096	8,542	0%	
Production 1	Lead							
Production 1	Tail	2686	13.2	1.44	8042	20,291	25%	

Remedial Cementing

Casing	Slurry Type	No. Sacks	Density (ppg)	Yield (ft3/sack)	Cemented Interval	Excess (%)	Slurry Description
Intermediate 1	Bradenhead Squeeze	634	14.8	1.45	0 - 6096'	50%	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 at the deepest intermediate casing point is less than 4800psi.

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.

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' – 809'	12.25"	FW/Native	8.3 - 8.7	35-40	NC	Fresh Water or Native Water
809' – 8542'	8.75"	BDE/OBM or FW/Brine		30-32	NC	Fluid type will be based upon on well conditions. A fully saturated system will be used across the salt interval.
8542' – 20291'	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.

Spud with fresh water/native mud. Drill out from under surface casing with a fully saturated brine while drilling through the salt formation. Use fibrous materials as needed to control seepage and lost circulation. Pump viscous sweeps as needed for hole cleaning. Pump speed will be recorded on a daily drilling report after mudding up. 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:

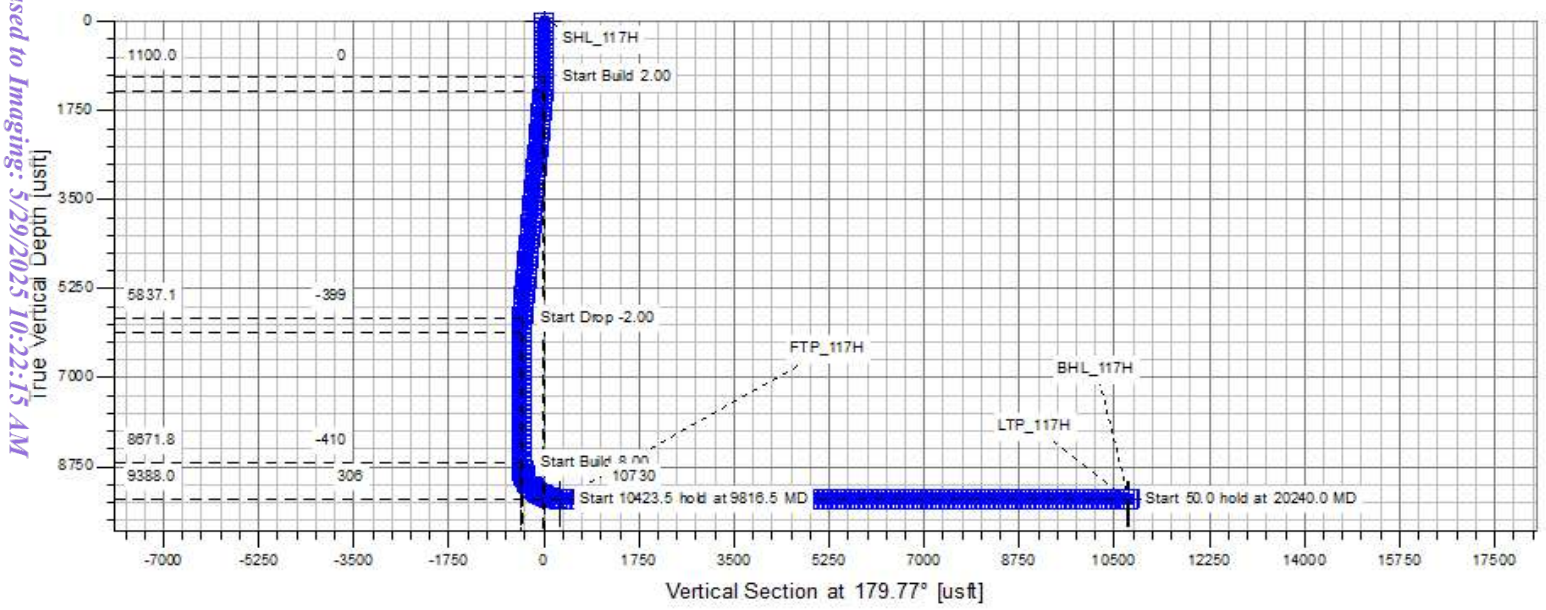
The estimated bottom hole temperature of 159F to 179F. No H2S is expected but monitors will be in place to detect any H2S occurrences. Should these circumstances be encountered the operator and drilling contractor are prepared to take all necessary steps to ensure safety of all personnel and environment. Lost circulation is possible throughout the well.

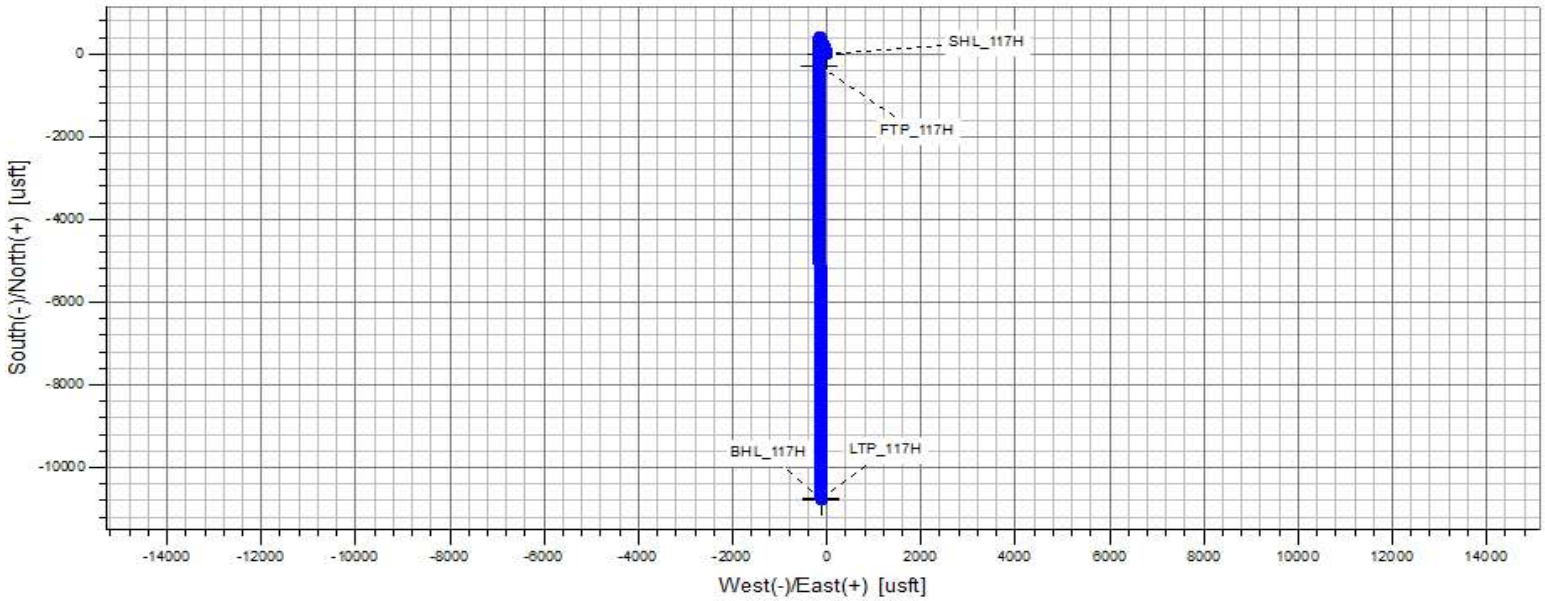
10. Anticipated Starting Date and Duration of Operations

Section 10 Summary:

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

Poker Lake Unit 20 BD 117H





Formation	T
Rustler	
Salado	
Base of Salt	
Delaware	
Cherry Canyon	
Brushy Canyon	
Basal Brushy Canyon	
Bone Spring Lm.	
Avalon	
Lower Avalon	
1st Bone Spring Lime	
1st Bone Spring Sand	
2nd Bone Spring Shale	
2nd Bone Spring Lime	
2nd Bone Spring Sand	
2nd Bone Spring T/B Carb	
2nd Bone Spring Sand (Lwr)	
2nd BS Sand Lower Landing	
3rd Bone Spring Lime	
Harkey	

Well Plan Report - Poker Lake Unit 20 BD 117H

Measured Depth:	20290.86 ft	**Site:**	A
TVD RKB:	9388.00 ft	**Slot:**	Poker Lake Unit 20 BD 117H
Location			
Cartographic Reference System:	New Mexico East - NAD 27		
Northing:	403519.90 ft		
Easting:	631066.20 ft		
RKB:	3190.00 ft		
Ground Level:	3158.00 ft		
North Reference:	Grid		
Convergence Angle:	0.23 Deg		

Plan Sections Poker Lake Unit 20 BD 117H

Measured Depth (ft)	Inclination (Deg)	Azimuth (Deg)	TVD RKB (ft)	Y Offset (ft)	X Offset (ft)	Build Rate (Deg/100ft)	Turn Rate (Deg/100ft)	Dogleg Rate (Deg/100ft)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	0.00	
1375.50	5.51	339.68	1375.08	12.41	-4.60	2.00	0.00	2.00	
5645.07	5.51	339.68	5624.92	396.88	-146.93	0.00	0.00	0.00	
5920.58	0.00	0.00	5900.00	409.29	-151.53	-2.00	0.00	2.00	
8692.38	0.00	0.00	8671.80	409.29	-151.53	0.00	0.00	0.00	
9817.38	90.00	179.77	9388.00	-306.90	-148.70	8.00	0.00	8.00	FTP 2
20240.86	90.00	179.77	9388.00	-10730.30	-107.50	0.00	0.00	0.00	LTP 2
20290.86	90.00	179.77	9388.00	-10780.30	-107.30	0.00	0.00	0.00	BHL 2

Position Uncertainty Poker Lake Unit 20 BD 117H

Measured	TVD	Highside	Lateral	Vertical	Magnitude	Semi-major	Semi-minor	Semi-minor	Tool

Depth (ft)	Inclination (°)	Azimuth (°)	RKB (ft)	Error (ft)	Bias (ft)	Error (ft)	Bias (ft)	Error (ft)	Bias (ft)	of Bias (ft)	Error (ft)	Error (ft)	Azimuth (°)	Used
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	MWD+IFR1+MS
100.000	0.000	0.000	100.000	0.700	0.000	0.350	0.000	2.300	0.000	0.000	0.751	0.220	112.264	MWD+IFR1+MS
200.000	0.000	0.000	200.000	1.112	0.000	0.861	0.000	2.309	0.000	0.000	1.259	0.627	122.711	MWD+IFR1+MS
300.000	0.000	0.000	300.000	1.497	0.000	1.271	0.000	2.325	0.000	0.000	1.698	0.986	125.469	MWD+IFR1+MS
400.000	0.000	0.000	400.000	1.871	0.000	1.658	0.000	2.346	0.000	0.000	2.108	1.344	126.713	MWD+IFR1+MS
500.000	0.000	0.000	500.000	2.240	0.000	2.034	0.000	2.373	0.000	0.000	2.503	1.701	127.419	MWD+IFR1+MS
600.000	0.000	0.000	600.000	2.607	0.000	2.405	0.000	2.405	0.000	0.000	2.888	2.059	127.873	MWD+IFR1+MS
700.000	0.000	0.000	700.000	2.971	0.000	2.773	0.000	2.441	0.000	0.000	3.267	2.417	128.190	MWD+IFR1+MS
800.000	0.000	0.000	800.000	3.334	0.000	3.138	0.000	2.482	0.000	0.000	3.642	2.775	128.423	MWD+IFR1+MS
900.000	0.000	0.000	900.000	3.696	0.000	3.502	0.000	2.528	0.000	0.000	4.014	3.133	128.602	MWD+IFR1+MS
1000.000	0.000	0.000	1000.000	4.058	0.000	3.865	0.000	2.577	0.000	0.000	4.384	3.491	128.744	MWD+IFR1+MS
1100.000	0.000	0.000	1100.000	4.419	0.000	4.228	0.000	2.630	0.000	0.000	4.752	3.849	128.859	MWD+IFR1+MS
1200.000	2.000	339.684	1199.980	4.645	0.000	4.883	0.000	2.685	0.000	0.000	5.220	4.265	121.885	MWD+IFR1+MS
1300.000	4.000	339.684	1299.838	5.489	0.000	5.223	0.000	2.745	0.000	0.000	5.896	4.768	107.615	MWD+IFR1+MS
1375.504	5.510	339.684	1375.079	5.915	0.000	5.469	0.000	2.791	0.000	0.000	6.288	5.054	103.638	MWD+IFR1+MS
1400.000	5.510	339.684	1399.462	5.992	0.000	5.546	0.000	2.804	0.000	0.000	6.362	5.137	103.512	MWD+IFR1+MS
1500.000	5.510	339.684	1499.000	6.304	0.000	5.871	0.000	2.870	0.000	0.000	6.667	5.473	103.591	MWD+IFR1+MS
1600.000	5.510	339.684	1598.538	6.638	0.000	6.218	0.000	2.939	0.000	0.000	7.008	5.814	103.975	MWD+IFR1+MS
1700.000	5.510	339.684	1698.076	6.975	0.000	6.566	0.000	3.010	0.000	0.000	7.351	6.156	104.316	MWD+IFR1+MS
1800.000	5.510	339.684	1797.614	7.314	0.000	6.916	0.000	3.083	0.000	0.000	7.696	6.501	104.621	MWD+IFR1+MS
1900.000	5.510	339.684	1897.152	7.656	0.000	7.267	0.000	3.159	0.000	0.000	8.043	6.847	104.895	MWD+IFR1+MS
2000.000	5.510	339.684	1996.690	8.001	0.000	7.619	0.000	3.237	0.000	0.000	8.391	7.195	105.141	MWD+IFR1+MS
2100.000	5.510	339.684	2096.228	8.346	0.000	7.971	0.000	3.317	0.000	0.000	8.740	7.544	105.362	MWD+IFR1+MS
2200.000	5.510	339.684	2195.766	8.694	0.000	8.325	0.000	3.399	0.000	0.000	9.091	7.894	105.563	MWD+IFR1+MS
2300.000	5.510	339.684	2295.304	9.043	0.000	8.679	0.000	3.483	0.000	0.000	9.442	8.245	105.744	MWD+IFR1+MS
2400.000	5.510	339.684	2394.842	9.393	0.000	9.034	0.000	3.568	0.000	0.000	9.795	8.597	105.909	MWD+IFR1+MS
2500.000	5.510	339.684	2494.380	9.744	0.000	9.389	0.000	3.656	0.000	0.000	10.148	8.950	106.059	MWD+IFR1+MS
2600.000	5.510	339.684	2593.918	10.096	0.000	9.744	0.000	3.744	0.000	0.000	10.502	9.303	106.196	MWD+IFR1+MS
2700.000	5.510	339.684	2693.455	10.449	0.000	10.101	0.000	3.835	0.000	0.000	10.857	9.657	106.320	MWD+IFR1+MS
2800.000	5.510	339.684	2792.993	10.802	0.000	10.457	0.000	3.926	0.000	0.000	11.212	10.011	106.433	MWD+IFR1+MS
2900.000	5.510	339.684	2892.531	11.157	0.000	10.814	0.000	4.020	0.000	0.000	11.568	10.366	106.537	MWD+IFR1+MS

3000.000	5.510	339.684	2992.069	11.512	0.000	11.171	0.000	4.114	0.000	0.000	11.924	10.721	106.632	MWD+IFR1+MS
3100.000	5.510	339.684	3091.607	11.868	0.000	11.528	0.000	4.211	0.000	0.000	12.280	11.077	106.718	MWD+IFR1+MS
3200.000	5.510	339.684	3191.145	12.224	0.000	11.886	0.000	4.308	0.000	0.000	12.637	11.433	106.797	MWD+IFR1+MS
3300.000	5.510	339.684	3290.683	12.581	0.000	12.243	0.000	4.408	0.000	0.000	12.995	11.789	106.870	MWD+IFR1+MS
3400.000	5.510	339.684	3390.221	12.938	0.000	12.601	0.000	4.508	0.000	0.000	13.352	12.146	106.936	MWD+IFR1+MS
3500.000	5.510	339.684	3489.759	13.296	0.000	12.960	0.000	4.610	0.000	0.000	13.710	12.503	106.996	MWD+IFR1+MS
3600.000	5.510	339.684	3589.297	13.654	0.000	13.318	0.000	4.714	0.000	0.000	14.069	12.860	107.051	MWD+IFR1+MS
3700.000	5.510	339.684	3688.835	14.012	0.000	13.677	0.000	4.819	0.000	0.000	14.427	13.217	107.101	MWD+IFR1+MS
3800.000	5.510	339.684	3788.373	14.371	0.000	14.035	0.000	4.926	0.000	0.000	14.786	13.575	107.146	MWD+IFR1+MS
3900.000	5.510	339.684	3887.911	14.730	0.000	14.394	0.000	5.034	0.000	0.000	15.145	13.933	107.187	MWD+IFR1+MS
4000.000	5.510	339.684	3987.449	15.089	0.000	14.753	0.000	5.144	0.000	0.000	15.504	14.291	107.225	MWD+IFR1+MS
4100.000	5.510	339.684	4086.987	15.448	0.000	15.112	0.000	5.255	0.000	0.000	15.864	14.649	107.258	MWD+IFR1+MS
4200.000	5.510	339.684	4186.524	15.808	0.000	15.471	0.000	5.368	0.000	0.000	16.223	15.007	107.289	MWD+IFR1+MS
4300.000	5.510	339.684	4286.062	16.168	0.000	15.830	0.000	5.482	0.000	0.000	16.583	15.366	107.316	MWD+IFR1+MS
4400.000	5.510	339.684	4385.600	16.528	0.000	16.190	0.000	5.599	0.000	0.000	16.943	15.724	107.340	MWD+IFR1+MS
4500.000	5.510	339.684	4485.138	16.889	0.000	16.549	0.000	5.716	0.000	0.000	17.303	16.083	107.361	MWD+IFR1+MS
4600.000	5.510	339.684	4584.676	17.249	0.000	16.909	0.000	5.836	0.000	0.000	17.663	16.442	107.380	MWD+IFR1+MS
4700.000	5.510	339.684	4684.214	17.610	0.000	17.268	0.000	5.957	0.000	0.000	18.023	16.801	107.396	MWD+IFR1+MS
4800.000	5.510	339.684	4783.752	17.971	0.000	17.628	0.000	6.081	0.000	0.000	18.384	17.160	107.410	MWD+IFR1+MS
4900.000	5.510	339.684	4883.290	18.332	0.000	17.988	0.000	6.206	0.000	0.000	18.744	17.519	107.421	MWD+IFR1+MS
5000.000	5.510	339.684	4982.828	18.694	0.000	18.347	0.000	6.333	0.000	0.000	19.105	17.878	107.431	MWD+IFR1+MS
5100.000	5.510	339.684	5082.366	19.055	0.000	18.707	0.000	6.461	0.000	0.000	19.466	18.237	107.439	MWD+IFR1+MS
5200.000	5.510	339.684	5181.904	19.417	0.000	19.067	0.000	6.592	0.000	0.000	19.827	18.597	107.444	MWD+IFR1+MS
5300.000	5.510	339.684	5281.442	19.778	0.000	19.427	0.000	6.725	0.000	0.000	20.188	18.956	107.448	MWD+IFR1+MS
5400.000	5.510	339.684	5380.980	20.140	0.000	19.787	0.000	6.859	0.000	0.000	20.549	19.316	107.451	MWD+IFR1+MS
5500.000	5.510	339.684	5480.518	20.502	0.000	20.147	0.000	6.996	0.000	0.000	20.910	19.675	107.452	MWD+IFR1+MS
5600.000	5.510	339.684	5580.056	20.864	0.000	20.507	0.000	7.135	0.000	0.000	21.271	20.035	107.451	MWD+IFR1+MS
5645.074	5.510	339.684	5624.921	21.024	0.000	20.667	0.000	7.198	0.000	0.000	21.428	20.197	107.414	MWD+IFR1+MS
5700.000	4.412	339.684	5679.641	21.226	0.000	20.860	0.000	7.276	0.000	0.000	21.622	20.394	107.298	MWD+IFR1+MS
5800.000	2.412	339.684	5779.458	21.641	0.000	21.214	0.000	7.418	0.000	0.000	22.031	20.763	105.882	MWD+IFR1+MS
5900.000	0.412	339.684	5879.423	22.076	0.000	21.569	0.000	7.559	0.000	0.000	22.483	21.134	103.863	MWD+IFR1+MS
5920.577	0.000	0.000	5900.000	22.479	0.000	21.285	0.000	7.588	0.000	0.000	22.553	21.206	103.829	MWD+IFR1+MS
6000.000	0.000	0.000	5979.423	22.749	0.000	21.564	0.000	7.700	0.000	0.000	22.823	21.485	103.852	MWD+IFR1+MS

6100.000	0.000	0.000	6079.423	23.092	0.000	21.920	0.000	7.843	0.000	0.000	23.168	21.839	104.056	MWD+IFR1+MS
6200.000	0.000	0.000	6179.423	23.436	0.000	22.277	0.000	7.988	0.000	0.000	23.515	22.194	104.315	MWD+IFR1+MS
6300.000	0.000	0.000	6279.423	23.782	0.000	22.635	0.000	8.135	0.000	0.000	23.863	22.549	104.570	MWD+IFR1+MS
6400.000	0.000	0.000	6379.423	24.127	0.000	22.992	0.000	8.285	0.000	0.000	24.211	22.904	104.819	MWD+IFR1+MS
6500.000	0.000	0.000	6479.423	24.473	0.000	23.350	0.000	8.438	0.000	0.000	24.559	23.260	105.064	MWD+IFR1+MS
6600.000	0.000	0.000	6579.423	24.820	0.000	23.707	0.000	8.593	0.000	0.000	24.908	23.615	105.304	MWD+IFR1+MS
6700.000	0.000	0.000	6679.423	25.167	0.000	24.065	0.000	8.750	0.000	0.000	25.257	23.970	105.539	MWD+IFR1+MS
6800.000	0.000	0.000	6779.423	25.514	0.000	24.423	0.000	8.910	0.000	0.000	25.606	24.326	105.771	MWD+IFR1+MS
6900.000	0.000	0.000	6879.423	25.861	0.000	24.780	0.000	9.073	0.000	0.000	25.955	24.681	105.997	MWD+IFR1+MS
7000.000	0.000	0.000	6979.423	26.209	0.000	25.138	0.000	9.238	0.000	0.000	26.305	25.037	106.220	MWD+IFR1+MS
7100.000	0.000	0.000	7079.423	26.556	0.000	25.496	0.000	9.406	0.000	0.000	26.655	25.392	106.438	MWD+IFR1+MS
7200.000	0.000	0.000	7179.423	26.905	0.000	25.853	0.000	9.576	0.000	0.000	27.006	25.748	106.653	MWD+IFR1+MS
7300.000	0.000	0.000	7279.423	27.253	0.000	26.211	0.000	9.749	0.000	0.000	27.356	26.103	106.863	MWD+IFR1+MS
7400.000	0.000	0.000	7379.423	27.602	0.000	26.569	0.000	9.925	0.000	0.000	27.707	26.459	107.070	MWD+IFR1+MS
7500.000	0.000	0.000	7479.423	27.951	0.000	26.927	0.000	10.104	0.000	0.000	28.058	26.815	107.273	MWD+IFR1+MS
7600.000	0.000	0.000	7579.423	28.300	0.000	27.284	0.000	10.285	0.000	0.000	28.410	27.170	107.472	MWD+IFR1+MS
7700.000	0.000	0.000	7679.423	28.650	0.000	27.642	0.000	10.469	0.000	0.000	28.761	27.526	107.667	MWD+IFR1+MS
7800.000	0.000	0.000	7779.423	28.999	0.000	28.000	0.000	10.656	0.000	0.000	29.113	27.882	107.859	MWD+IFR1+MS
7900.000	0.000	0.000	7879.423	29.349	0.000	28.358	0.000	10.845	0.000	0.000	29.465	28.238	108.047	MWD+IFR1+MS
8000.000	0.000	0.000	7979.423	29.699	0.000	28.716	0.000	11.037	0.000	0.000	29.817	28.594	108.232	MWD+IFR1+MS
8100.000	0.000	0.000	8079.423	30.049	0.000	29.074	0.000	11.232	0.000	0.000	30.169	28.950	108.414	MWD+IFR1+MS
8200.000	0.000	0.000	8179.423	30.400	0.000	29.431	0.000	11.430	0.000	0.000	30.521	29.306	108.593	MWD+IFR1+MS
8300.000	0.000	0.000	8279.423	30.751	0.000	29.789	0.000	11.631	0.000	0.000	30.874	29.662	108.768	MWD+IFR1+MS
8400.000	0.000	0.000	8379.423	31.101	0.000	30.147	0.000	11.834	0.000	0.000	31.227	30.018	108.940	MWD+IFR1+MS
8500.000	0.000	0.000	8479.423	31.452	0.000	30.505	0.000	12.040	0.000	0.000	31.579	30.374	109.109	MWD+IFR1+MS
8600.000	0.000	0.000	8579.423	31.804	0.000	30.863	0.000	12.249	0.000	0.000	31.932	30.730	109.276	MWD+IFR1+MS
8692.380	0.000	0.000	8671.803	32.127	0.000	31.193	0.000	12.445	0.000	0.000	32.258	31.059	109.398	MWD+IFR1+MS
8700.000	0.610	179.774	8679.423	32.134	0.000	31.222	-0.000	12.461	0.000	0.000	32.282	31.084	109.397	MWD+IFR1+MS
8800.000	8.610	179.774	8779.018	32.333	0.000	31.536	-0.000	12.689	0.000	0.000	32.940	31.421	105.601	MWD+IFR1+MS
8900.000	16.610	179.774	8876.527	32.937	0.000	31.839	-0.000	13.044	0.000	0.000	34.416	31.750	100.120	MWD+IFR1+MS
9000.000	24.610	179.774	8970.051	33.014	0.000	32.122	-0.000	13.620	0.000	0.000	35.734	32.038	98.235	MWD+IFR1+MS
9100.000	32.610	179.774	9057.770	32.618	0.000	32.384	-0.000	14.479	0.000	0.000	36.859	32.299	97.386	MWD+IFR1+MS
9200.000	40.610	179.774	9137.977	31.827	0.000	32.624	-0.000	15.634	0.000	0.000	37.778	32.535	96.985	MWD+IFR1+MS

9300.000	48.610	179.774	9209.110	30.742	0.000	32.842	-0.000	17.058	0.000	0.000	38.490	32.748	96.825	MWD+IFR1+MS
9400.000	56.610	179.774	9269.785	29.493	0.000	33.039	-0.000	18.698	0.000	0.000	39.004	32.940	96.814	MWD+IFR1+MS
9500.000	64.610	179.774	9318.820	28.241	0.000	33.215	-0.000	20.486	0.000	0.000	39.343	33.110	96.898	MWD+IFR1+MS
9600.000	72.610	179.774	9355.263	27.173	0.000	33.371	-0.000	22.354	0.000	0.000	39.534	33.261	97.032	MWD+IFR1+MS
9700.000	80.610	179.774	9378.403	26.485	0.000	33.506	-0.000	24.238	0.000	0.000	39.617	33.393	97.171	MWD+IFR1+MS
9800.000	88.610	179.774	9387.789	26.348	0.000	33.619	-0.000	26.078	0.000	0.000	39.637	33.506	97.258	MWD+IFR1+MS
9817.380	90.000	179.774	9388.000	26.120	0.000	33.635	-0.000	26.120	0.000	0.000	39.638	33.522	97.258	MWD+IFR1+MS
9900.000	90.000	179.774	9388.000	26.260	0.000	33.720	-0.000	26.260	0.000	0.000	39.640	33.608	97.276	MWD+IFR1+MS
10000.000	90.000	179.774	9388.000	26.438	0.000	33.847	-0.000	26.438	0.000	0.000	39.644	33.737	97.327	MWD+IFR1+MS
10100.000	90.000	179.774	9388.000	26.638	0.000	33.998	-0.000	26.638	0.000	0.000	39.648	33.888	97.408	MWD+IFR1+MS
10200.000	90.000	179.774	9388.000	26.861	0.000	34.171	-0.000	26.861	0.000	0.000	39.653	34.062	97.520	MWD+IFR1+MS
10300.000	90.000	179.774	9388.000	27.104	0.000	34.366	-0.000	27.104	0.000	0.000	39.659	34.256	97.668	MWD+IFR1+MS
10400.000	90.000	179.774	9388.000	27.368	0.000	34.582	-0.000	27.368	0.000	0.000	39.666	34.472	97.858	MWD+IFR1+MS
10500.000	90.000	179.774	9388.000	27.651	0.000	34.819	-0.000	27.651	0.000	0.000	39.674	34.708	98.095	MWD+IFR1+MS
10600.000	90.000	179.774	9388.000	27.953	0.000	35.077	-0.000	27.953	0.000	0.000	39.683	34.964	98.389	MWD+IFR1+MS
10700.000	90.000	179.774	9388.000	28.275	0.000	35.354	-0.000	28.275	0.000	0.000	39.694	35.239	98.754	MWD+IFR1+MS
10800.000	90.000	179.774	9388.000	28.614	0.000	35.652	-0.000	28.614	0.000	0.000	39.706	35.533	99.205	MWD+IFR1+MS
10900.000	90.000	179.774	9388.000	28.970	0.000	35.968	-0.000	28.970	0.000	0.000	39.720	35.845	99.767	MWD+IFR1+MS
11000.000	90.000	179.774	9388.000	29.343	0.000	36.303	-0.000	29.343	0.000	0.000	39.735	36.174	100.474	MWD+IFR1+MS
11100.000	90.000	179.774	9388.000	29.732	0.000	36.656	-0.000	29.732	0.000	0.000	39.753	36.520	101.378	MWD+IFR1+MS
11200.000	90.000	179.774	9388.000	30.136	0.000	37.027	-0.000	30.136	0.000	0.000	39.775	36.880	102.555	MWD+IFR1+MS
11300.000	90.000	179.774	9388.000	30.556	0.000	37.414	-0.000	30.556	0.000	0.000	39.801	37.253	104.130	MWD+IFR1+MS
11400.000	90.000	179.774	9388.000	30.989	0.000	37.818	-0.000	30.989	0.000	0.000	39.834	37.636	106.305	MWD+IFR1+MS
11500.000	90.000	179.774	9388.000	31.436	0.000	38.239	-0.000	31.436	0.000	0.000	39.878	38.025	109.430	MWD+IFR1+MS
11600.000	90.000	179.774	9388.000	31.896	0.000	38.674	-0.000	31.896	0.000	0.000	39.941	38.410	114.108	MWD+IFR1+MS
11700.000	90.000	179.774	9388.000	32.369	0.000	39.125	-0.000	32.369	0.000	0.000	40.038	38.777	121.271	MWD+IFR1+MS
11800.000	90.000	179.774	9388.000	32.853	0.000	39.590	-0.000	32.853	0.000	0.000	40.200	39.094	131.625	MWD+IFR1+MS
11900.000	90.000	179.774	9388.000	33.349	0.000	40.069	-0.000	33.349	0.000	0.000	40.458	39.330	-36.358	MWD+IFR1+MS
12000.000	90.000	179.774	9388.000	33.856	0.000	40.562	-0.000	33.856	0.000	0.000	40.814	39.481	-26.203	MWD+IFR1+MS
12100.000	90.000	179.774	9388.000	34.373	0.000	41.068	-0.000	34.373	0.000	0.000	41.241	39.576	-19.231	MWD+IFR1+MS
12200.000	90.000	179.774	9388.000	34.901	0.000	41.586	-0.000	34.901	0.000	0.000	41.712	39.639	-14.670	MWD+IFR1+MS
12300.000	90.000	179.774	9388.000	35.438	0.000	42.116	-0.000	35.438	0.000	0.000	42.211	39.686	-11.607	MWD+IFR1+MS
12400.000	90.000	179.774	9388.000	35.984	0.000	42.658	-0.000	35.984	0.000	0.000	42.732	39.724	-9.460	MWD+IFR1+MS

12500.000	90.000	179.774	9388.000	36.538	0.000	43.210	-0.000	36.538	0.000	0.000	43.270	39.757	-7.892	MWD+IFR1+MS
12600.000	90.000	179.774	9388.000	37.101	0.000	43.774	-0.000	37.101	0.000	0.000	43.823	39.786	-6.706	MWD+IFR1+MS
12700.000	90.000	179.774	9388.000	37.672	0.000	44.348	-0.000	37.672	0.000	0.000	44.389	39.813	-5.784	MWD+IFR1+MS
12800.000	90.000	179.774	9388.000	38.251	0.000	44.932	-0.000	38.251	0.000	0.000	44.966	39.839	-5.048	MWD+IFR1+MS
12900.000	90.000	179.774	9388.000	38.836	0.000	45.525	-0.000	38.836	0.000	0.000	45.554	39.864	-4.450	MWD+IFR1+MS
13000.000	90.000	179.774	9388.000	39.429	0.000	46.128	-0.000	39.429	0.000	0.000	46.153	39.888	-3.956	MWD+IFR1+MS
13100.000	90.000	179.774	9388.000	40.028	0.000	46.739	-0.000	40.028	0.000	0.000	46.761	39.912	-3.542	MWD+IFR1+MS
13200.000	90.000	179.774	9388.000	40.634	0.000	47.359	-0.000	40.634	0.000	0.000	47.378	39.936	-3.191	MWD+IFR1+MS
13300.000	90.000	179.774	9388.000	41.246	0.000	47.987	-0.000	41.246	0.000	0.000	48.003	39.961	-2.890	MWD+IFR1+MS
13400.000	90.000	179.774	9388.000	41.863	0.000	48.623	-0.000	41.863	0.000	0.000	48.637	39.985	-2.629	MWD+IFR1+MS
13500.000	90.000	179.774	9388.000	42.486	0.000	49.267	-0.000	42.486	0.000	0.000	49.279	40.010	-2.403	MWD+IFR1+MS
13600.000	90.000	179.774	9388.000	43.114	0.000	49.917	-0.000	43.114	0.000	0.000	49.928	40.034	-2.203	MWD+IFR1+MS
13700.000	90.000	179.774	9388.000	43.747	0.000	50.575	-0.000	43.747	0.000	0.000	50.584	40.060	-2.028	MWD+IFR1+MS
13800.000	90.000	179.774	9388.000	44.385	0.000	51.239	-0.000	44.385	0.000	0.000	51.248	40.085	-1.871	MWD+IFR1+MS
13900.000	90.000	179.774	9388.000	45.028	0.000	51.910	-0.000	45.028	0.000	0.000	51.917	40.111	-1.732	MWD+IFR1+MS
14000.000	90.000	179.774	9388.000	45.675	0.000	52.587	-0.000	45.675	0.000	0.000	52.594	40.137	-1.607	MWD+IFR1+MS
14100.000	90.000	179.774	9388.000	46.327	0.000	53.270	-0.000	46.327	0.000	0.000	53.276	40.164	-1.494	MWD+IFR1+MS
14200.000	90.000	179.774	9388.000	46.982	0.000	53.959	-0.000	46.982	0.000	0.000	53.964	40.191	-1.393	MWD+IFR1+MS
14300.000	90.000	179.774	9388.000	47.642	0.000	54.653	-0.000	47.642	0.000	0.000	54.657	40.218	-1.300	MWD+IFR1+MS
14400.000	90.000	179.774	9388.000	48.305	0.000	55.353	-0.000	48.305	0.000	0.000	55.356	40.246	-1.216	MWD+IFR1+MS
14500.000	90.000	179.774	9388.000	48.972	0.000	56.057	-0.000	48.972	0.000	0.000	56.061	40.275	-1.140	MWD+IFR1+MS
14600.000	90.000	179.774	9388.000	49.642	0.000	56.767	-0.000	49.642	0.000	0.000	56.770	40.303	-1.070	MWD+IFR1+MS
14700.000	90.000	179.774	9388.000	50.316	0.000	57.481	-0.000	50.316	0.000	0.000	57.484	40.333	-1.005	MWD+IFR1+MS
14800.000	90.000	179.774	9388.000	50.992	0.000	58.200	-0.000	50.992	0.000	0.000	58.202	40.363	-0.946	MWD+IFR1+MS
14900.000	90.000	179.774	9388.000	51.672	0.000	58.923	-0.000	51.672	0.000	0.000	58.925	40.393	-0.892	MWD+IFR1+MS
15000.000	90.000	179.774	9388.000	52.355	0.000	59.651	-0.000	52.355	0.000	0.000	59.652	40.423	-0.842	MWD+IFR1+MS
15100.000	90.000	179.774	9388.000	53.040	0.000	60.382	-0.000	53.040	0.000	0.000	60.384	40.455	-0.795	MWD+IFR1+MS
15200.000	90.000	179.774	9388.000	53.728	0.000	61.118	-0.000	53.728	0.000	0.000	61.119	40.486	-0.752	MWD+IFR1+MS
15300.000	90.000	179.774	9388.000	54.419	0.000	61.857	-0.000	54.419	0.000	0.000	61.858	40.518	-0.712	MWD+IFR1+MS
15400.000	90.000	179.774	9388.000	55.113	0.000	62.600	-0.000	55.113	0.000	0.000	62.601	40.551	-0.675	MWD+IFR1+MS
15500.000	90.000	179.774	9388.000	55.809	0.000	63.346	-0.000	55.809	0.000	0.000	63.347	40.584	-0.640	MWD+IFR1+MS
15600.000	90.000	179.774	9388.000	56.507	0.000	64.096	-0.000	56.507	0.000	0.000	64.097	40.618	-0.608	MWD+IFR1+MS
15700.000	90.000	179.774	9388.000	57.207	0.000	64.849	-0.000	57.207	0.000	0.000	64.850	40.652	-0.577	MWD+IFR1+MS

15800.000	90.000	179.774	9388.000	57.910	0.000	65.606	-0.000	57.910	0.000	0.000	65.606	40.686	-0.549	MWD+IFR1+MS
15900.000	90.000	179.774	9388.000	58.614	0.000	66.365	-0.000	58.614	0.000	0.000	66.365	40.721	-0.523	MWD+IFR1+MS
16000.000	90.000	179.774	9388.000	59.321	0.000	67.127	-0.000	59.321	0.000	0.000	67.128	40.757	-0.498	MWD+IFR1+MS
16100.000	90.000	179.774	9388.000	60.029	0.000	67.893	-0.000	60.029	0.000	0.000	67.893	40.793	-0.475	MWD+IFR1+MS
16200.000	90.000	179.774	9388.000	60.740	0.000	68.661	-0.000	60.740	0.000	0.000	68.661	40.829	-0.453	MWD+IFR1+MS
16300.000	90.000	179.774	9388.000	61.452	0.000	69.431	-0.000	61.452	0.000	0.000	69.431	40.866	-0.433	MWD+IFR1+MS
16400.000	90.000	179.774	9388.000	62.166	0.000	70.204	-0.000	62.166	0.000	0.000	70.205	40.904	-0.413	MWD+IFR1+MS
16500.000	90.000	179.774	9388.000	62.882	0.000	70.980	-0.000	62.882	0.000	0.000	70.980	40.942	-0.395	MWD+IFR1+MS
16600.000	90.000	179.774	9388.000	63.599	0.000	71.758	-0.000	63.599	0.000	0.000	71.759	40.980	-0.378	MWD+IFR1+MS
16700.000	90.000	179.774	9388.000	64.318	0.000	72.539	-0.000	64.318	0.000	0.000	72.539	41.019	-0.362	MWD+IFR1+MS
16800.000	90.000	179.774	9388.000	65.039	0.000	73.322	-0.000	65.039	0.000	0.000	73.322	41.058	-0.347	MWD+IFR1+MS
16900.000	90.000	179.774	9388.000	65.760	0.000	74.107	-0.000	65.760	0.000	0.000	74.107	41.098	-0.333	MWD+IFR1+MS
17000.000	90.000	179.774	9388.000	66.484	0.000	74.894	-0.000	66.484	0.000	0.000	74.894	41.139	-0.319	MWD+IFR1+MS
17100.000	90.000	179.774	9388.000	67.208	0.000	75.683	-0.000	67.208	0.000	0.000	75.683	41.179	-0.306	MWD+IFR1+MS
17200.000	90.000	179.774	9388.000	67.935	0.000	76.474	-0.000	67.935	0.000	0.000	76.474	41.221	-0.294	MWD+IFR1+MS
17300.000	90.000	179.774	9388.000	68.662	0.000	77.267	-0.000	68.662	0.000	0.000	77.267	41.262	-0.283	MWD+IFR1+MS
17400.000	90.000	179.774	9388.000	69.390	0.000	78.062	-0.000	69.390	0.000	0.000	78.062	41.305	-0.272	MWD+IFR1+MS
17500.000	90.000	179.774	9388.000	70.120	0.000	78.859	-0.000	70.120	0.000	0.000	78.859	41.347	-0.261	MWD+IFR1+MS
17600.000	90.000	179.774	9388.000	70.851	0.000	79.658	-0.000	70.851	0.000	0.000	79.658	41.391	-0.252	MWD+IFR1+MS
17700.000	90.000	179.774	9388.000	71.583	0.000	80.458	-0.000	71.583	0.000	0.000	80.458	41.434	-0.242	MWD+IFR1+MS
17800.000	90.000	179.774	9388.000	72.317	0.000	81.260	-0.000	72.317	0.000	0.000	81.260	41.478	-0.233	MWD+IFR1+MS
17900.000	90.000	179.774	9388.000	73.051	0.000	82.064	-0.000	73.051	0.000	0.000	82.064	41.523	-0.225	MWD+IFR1+MS
18000.000	90.000	179.774	9388.000	73.786	0.000	82.869	-0.000	73.786	0.000	0.000	82.869	41.568	-0.217	MWD+IFR1+MS
18100.000	90.000	179.774	9388.000	74.522	0.000	83.675	-0.000	74.522	0.000	0.000	83.675	41.613	-0.210	MWD+IFR1+MS
18200.000	90.000	179.774	9388.000	75.260	0.000	84.484	-0.000	75.260	0.000	0.000	84.484	41.659	-0.202	MWD+IFR1+MS
18300.000	90.000	179.774	9388.000	75.998	0.000	85.293	-0.000	75.998	0.000	0.000	85.293	41.706	-0.196	MWD+IFR1+MS
18400.000	90.000	179.774	9388.000	76.737	0.000	86.104	-0.000	76.737	0.000	0.000	86.104	41.753	-0.189	MWD+IFR1+MS
18500.000	90.000	179.774	9388.000	77.477	0.000	86.917	-0.000	77.477	0.000	0.000	86.917	41.800	-0.183	MWD+IFR1+MS
18600.000	90.000	179.774	9388.000	78.218	0.000	87.730	-0.000	78.218	0.000	0.000	87.730	41.848	-0.177	MWD+IFR1+MS
18700.000	90.000	179.774	9388.000	78.960	0.000	88.545	-0.000	78.960	0.000	0.000	88.545	41.896	-0.171	MWD+IFR1+MS
18800.000	90.000	179.774	9388.000	79.703	0.000	89.361	-0.000	79.703	0.000	0.000	89.361	41.945	-0.166	MWD+IFR1+MS
18900.000	90.000	179.774	9388.000	80.446	0.000	90.179	-0.000	80.446	0.000	0.000	90.179	41.994	-0.161	MWD+IFR1+MS
19000.000	90.000	179.774	9388.000	81.190	0.000	90.997	-0.000	81.190	0.000	0.000	90.997	42.044	-0.156	MWD+IFR1+MS

19100.000	90.000	179.774	9388.000	81.935	0.000	91.817	-0.000	81.935	0.000	0.000	91.817	42.094	-0.151	MWD+IFR1+MS
19200.000	90.000	179.774	9388.000	82.681	0.000	92.638	-0.000	82.681	0.000	0.000	92.638	42.144	-0.147	MWD+IFR1+MS
19300.000	90.000	179.774	9388.000	83.427	0.000	93.460	-0.000	83.427	0.000	0.000	93.460	42.195	-0.143	MWD+IFR1+MS
19400.000	90.000	179.774	9388.000	84.175	0.000	94.283	-0.000	84.175	0.000	0.000	94.283	42.247	-0.139	MWD+IFR1+MS
19500.000	90.000	179.774	9388.000	84.922	0.000	95.107	-0.000	84.922	0.000	0.000	95.107	42.299	-0.135	MWD+IFR1+MS
19600.000	90.000	179.774	9388.000	85.671	0.000	95.932	-0.000	85.671	0.000	0.000	95.932	42.351	-0.131	MWD+IFR1+MS
19700.000	90.000	179.774	9388.000	86.420	0.000	96.758	-0.000	86.420	0.000	0.000	96.758	42.404	-0.128	MWD+IFR1+MS
19800.000	90.000	179.774	9388.000	87.170	0.000	97.585	-0.000	87.170	0.000	0.000	97.585	42.457	-0.125	MWD+IFR1+MS
19900.000	90.000	179.774	9388.000	87.920	0.000	98.413	-0.000	87.920	0.000	0.000	98.413	42.511	-0.121	MWD+IFR1+MS
20000.000	90.000	179.774	9388.000	88.671	0.000	99.242	-0.000	88.671	0.000	0.000	99.242	42.565	-0.118	MWD+IFR1+MS
20100.000	90.000	179.774	9388.000	89.422	0.000	100.071	-0.000	89.422	0.000	0.000	100.072	42.619	-0.115	MWD+IFR1+MS
20200.000	90.000	179.774	9388.000	90.175	0.000	100.902	-0.000	90.175	0.000	0.000	100.902	42.674	-0.113	MWD+IFR1+MS
20240.861	90.000	179.774	9388.000	90.481	0.000	101.240	-0.000	90.481	0.000	0.000	101.241	42.697	-0.112	MWD+IFR1+MS
20290.863	90.000	179.774	9388.000	90.857	0.000	101.655	-0.000	90.857	0.000	0.000	101.655	42.724	-0.110	MWD+IFR1+MS

Plan Targets Poker Lake Unit 20 BD 117H

Target Name	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape
FTP 2	9817.38	403213.00	630917.50	6198.00	CIRCLE
LTP 2	20240.86	392789.60	630958.70	6198.00	CIRCLE
BHL 2	20290.86	392739.60	630958.80	6198.00	CIRCLE

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

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

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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

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PI/CIII

Tenaris

TenarisHydril Wedge 441®

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

Outside Diameter	5.500 in.	**Wall Thickness**	0.361 in.	**Grade**	P110-IC
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**	12,300 psi

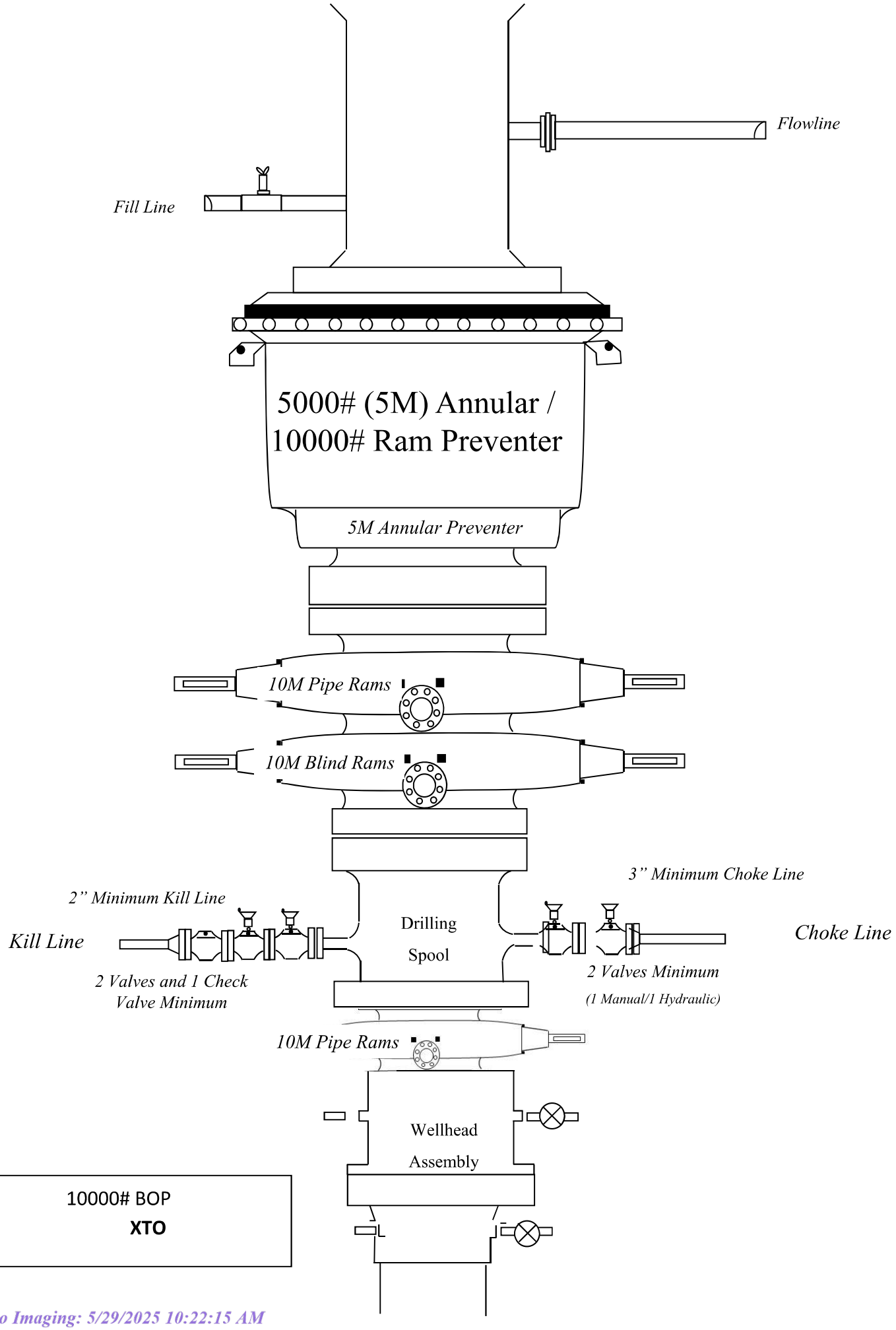
Connection Data

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**	522 x1000 lb	**Optimum**	16,000 ft-lb
Connection ID	4.778 in.	**Internal Pressure Capacity**	12,640 psi	**Maximum**	19,200 ft-lb
Make-up Loss	3.780 in.	**Compression Efficiency**	81.50 %		
Threads per inch	3.40	**Compression Strength**	522 x1000 lb	**Operation Limit Torques**	
Connection OD Option	Regular	**Max. Allowable Bending**	74.98 °/100 ft	**Operating Torque**	32,000 ft-lb
		External Pressure Capacity	12,300 psi	**Yield Torque**	38,000 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
Connection performance values are related to structural capabilities. For sealability-related performance information, request the Connection Service Envelope from your local Tenaris Representative.

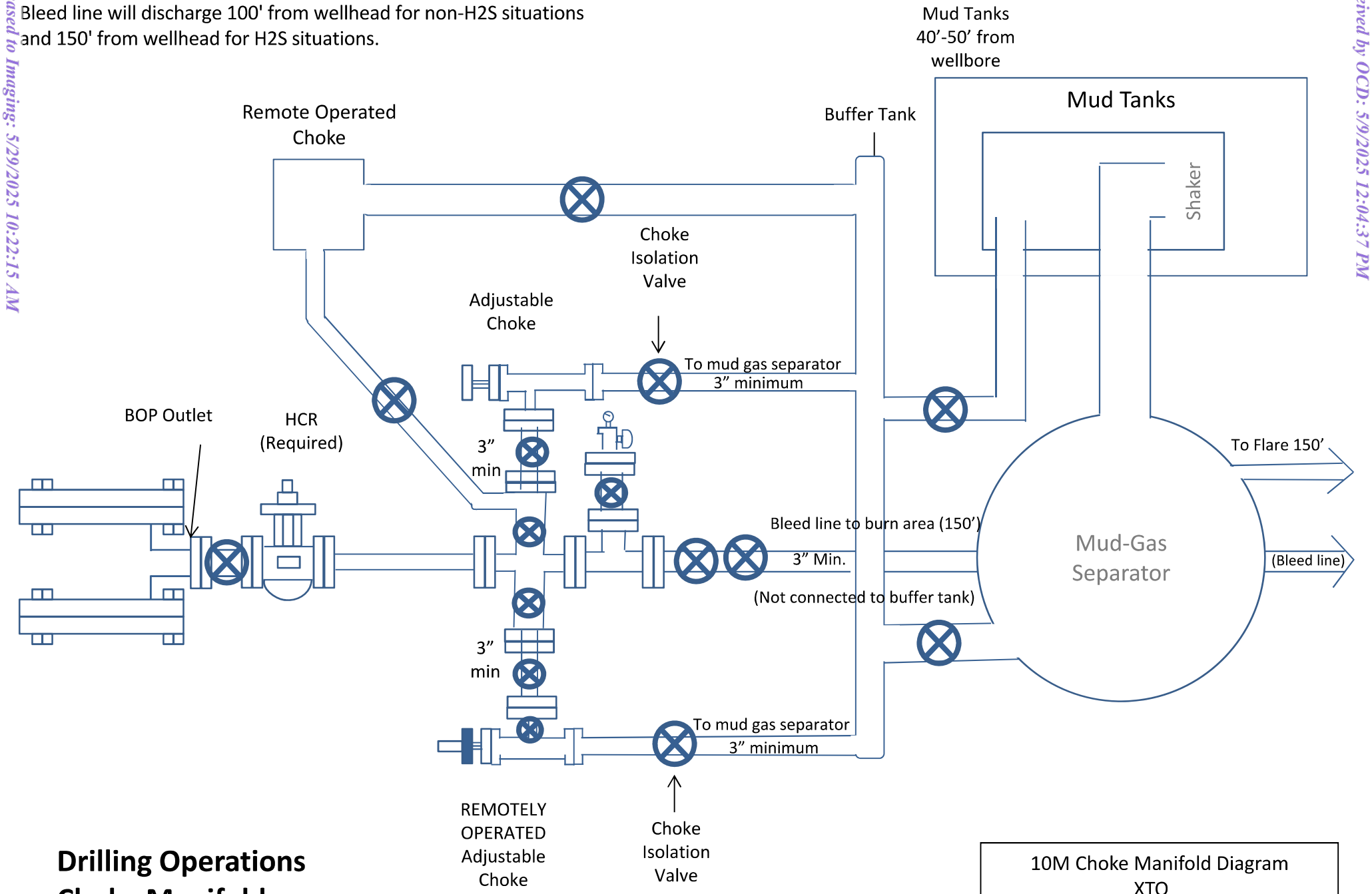
For the lastest performance data, always visit our website: www.tenaris.com
For further information on concepts indicated in this datasheet, download the Datasheet Manual from www.tenaris.com



10000# BOP

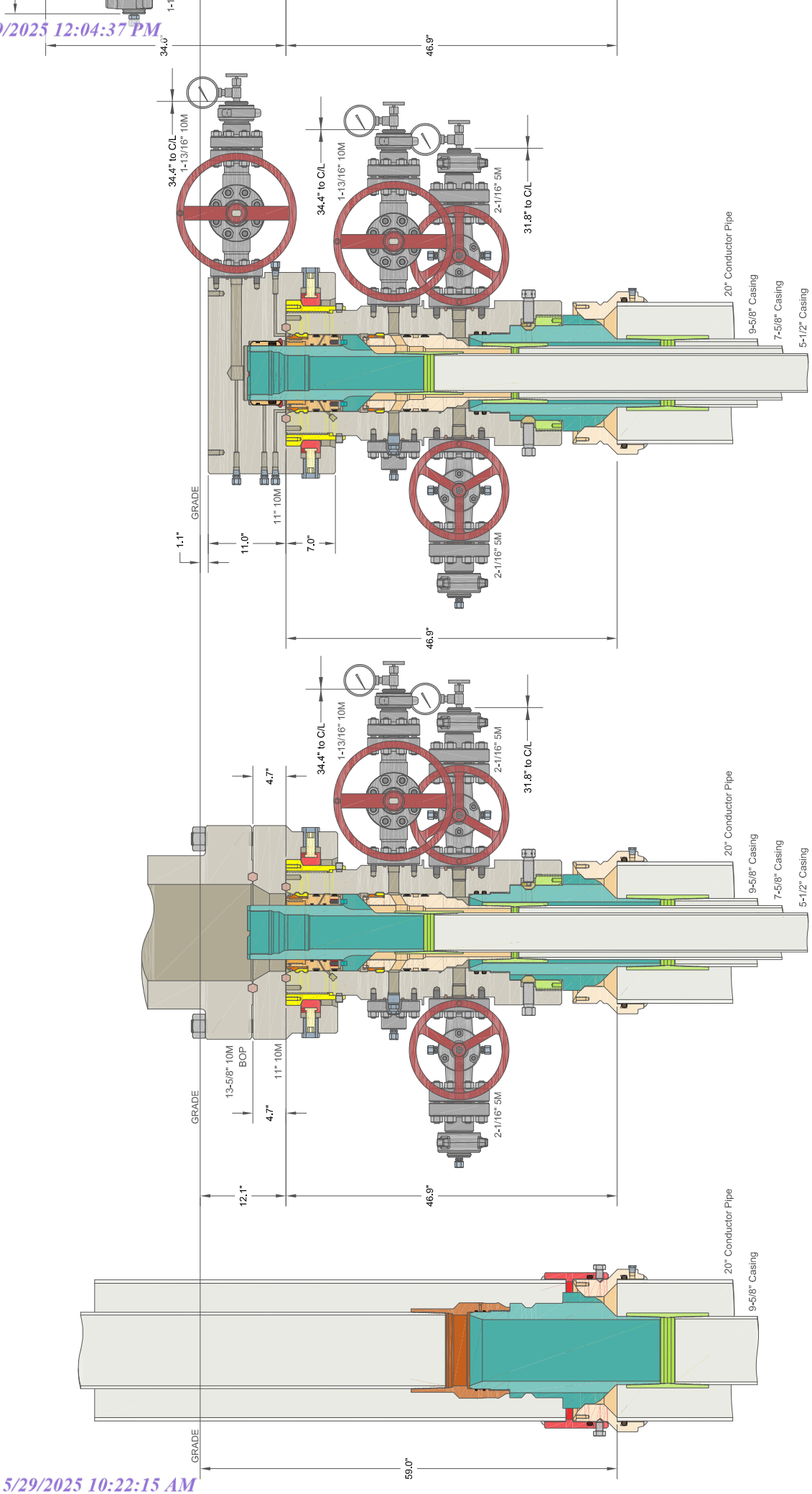
XTO

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


34.4" to C/L
1-13/16" 10M
2-1/16" 5M
31.8" to C/L
20" Conductor Pipe
9-5/8" Casing
7-5/8" Casing
5-1/2" Casing
GRADE
1.1"
11.0"
11" 10M
7.0"
46.9"
4.7"
13-5/8" 10M BOP
12.1"
59.0"

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

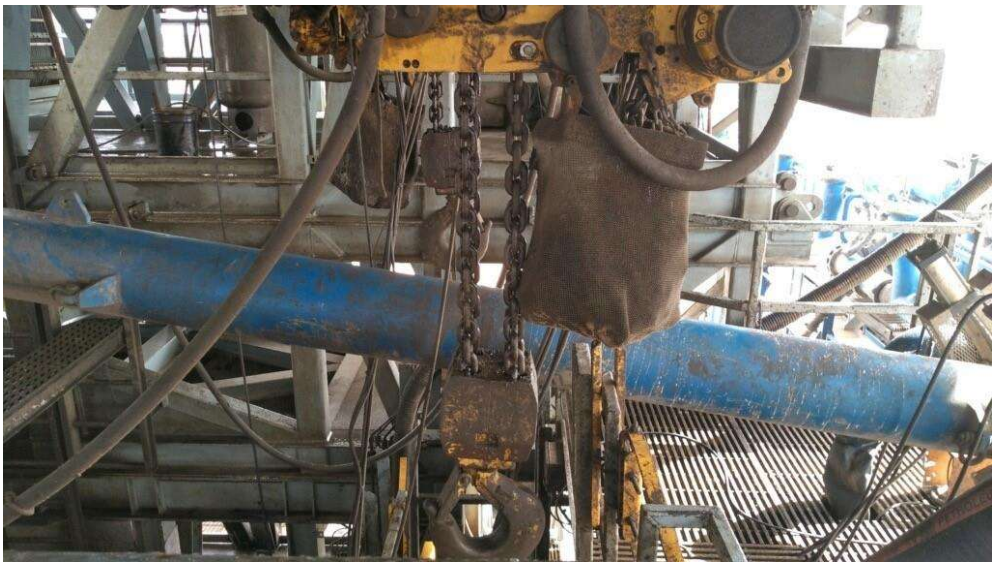


Figure 2: BOP Winch System

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.

62 API STANDARD 53

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

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

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

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

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

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

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

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

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

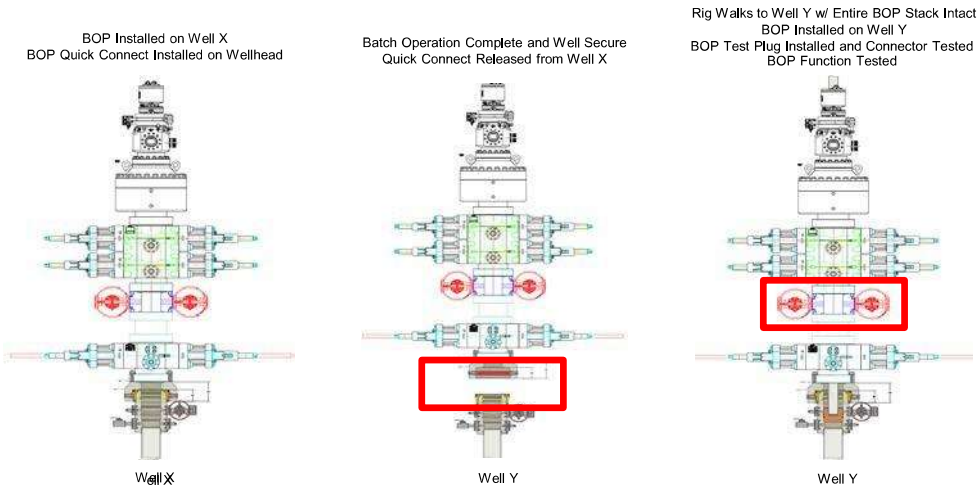
XTO Energy feels break testing and our current procedures meet the intent of CFR Title 43 Part 317 0and often exceed it. There has been no evidence that break testing results in more components failing than seen on full BOP tests. XTO Energy's internal standards requires complete BOPE tests more often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

Procedures

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

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

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



Summary

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

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

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

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

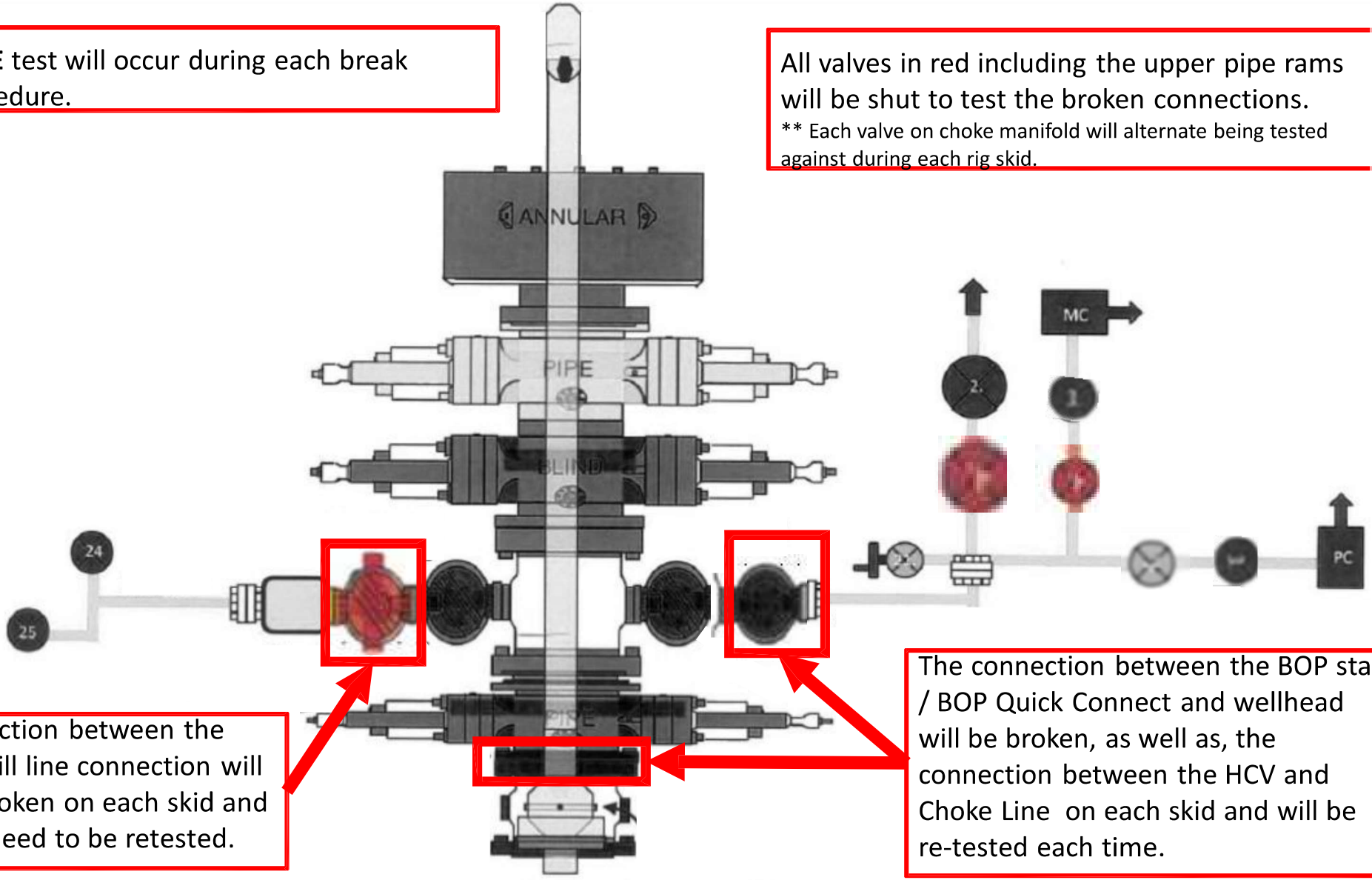
2. The first intermediate hole section drilled on the pad will be the deepest. All of the remaining hole sections will be the same depth or shallower.

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

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

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

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



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

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

BLACK GOLD®

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NEW CHOKE HOSE INSTALLED 02-10-2024

CERTIFICATE OF CONFORMANCE

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

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

SIGNATURE: F. OSPINOS

TITLE: QUALITY ASSURANCE

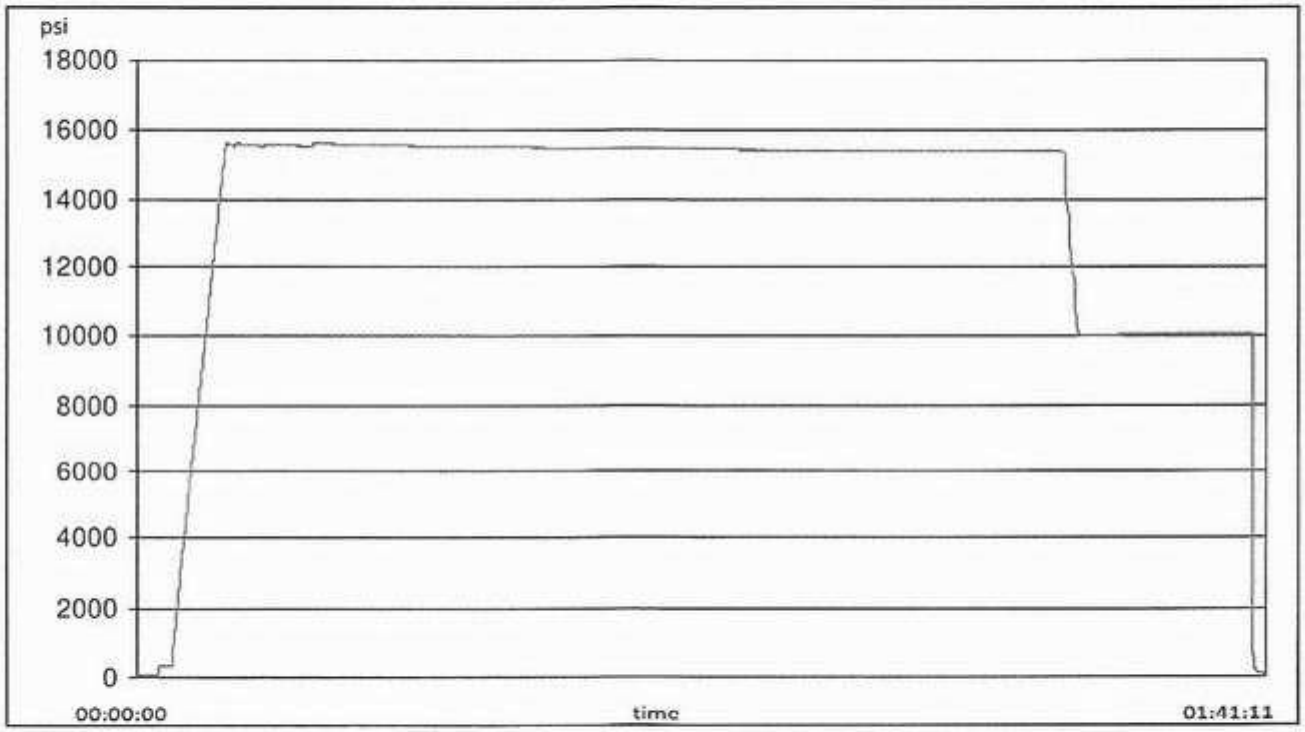
DATE: 1/25/2024

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

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TEST REPORT

GAUGE TRACEABILITY

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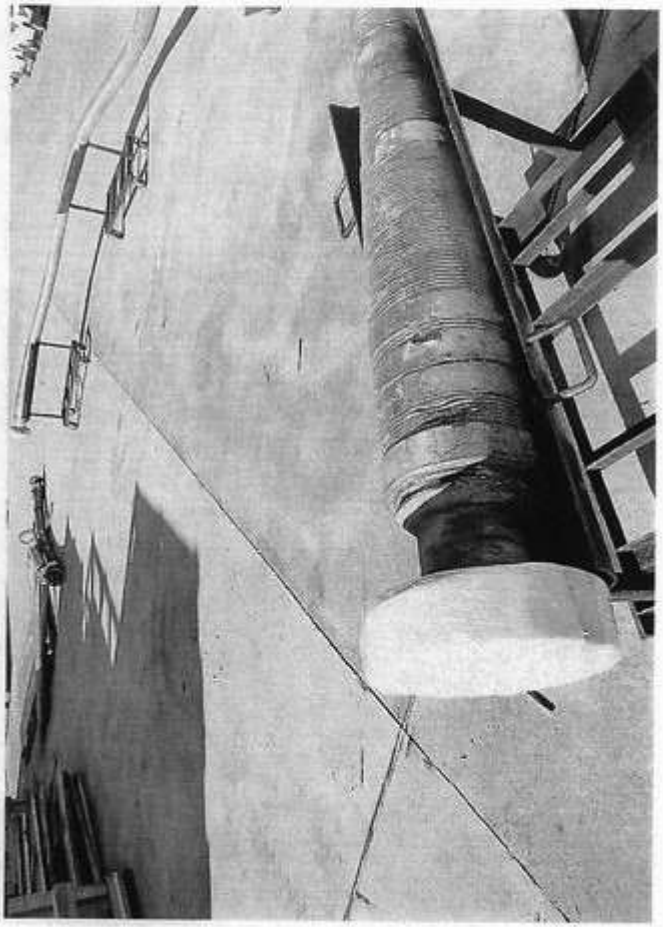
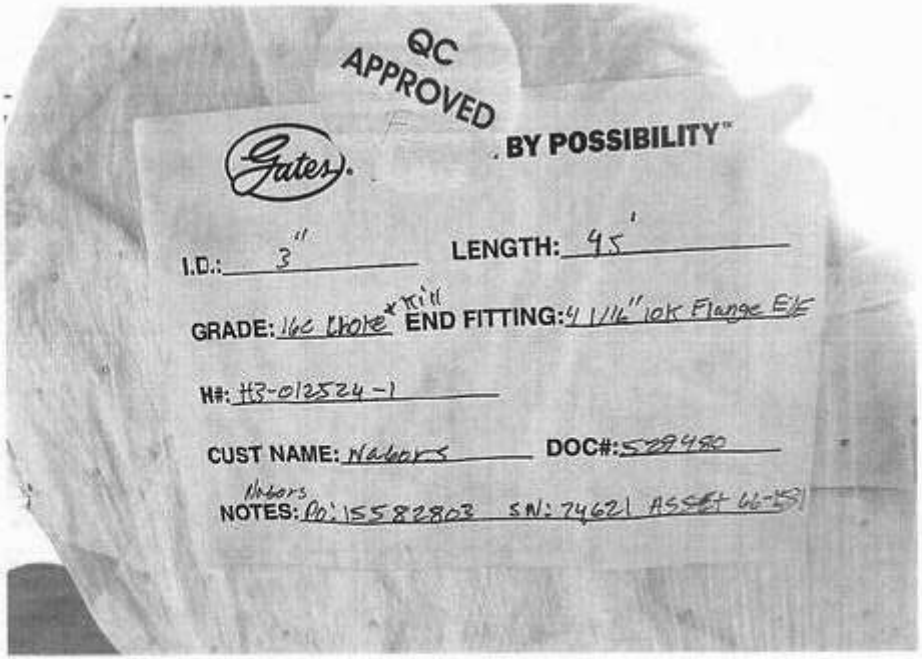
S-25-A-W	110IQWDG	2023-05-16	2024-05-16

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.

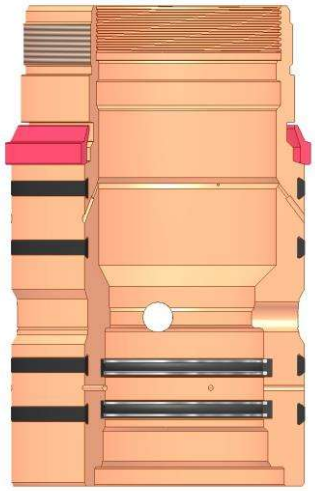
1. Cement Program

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

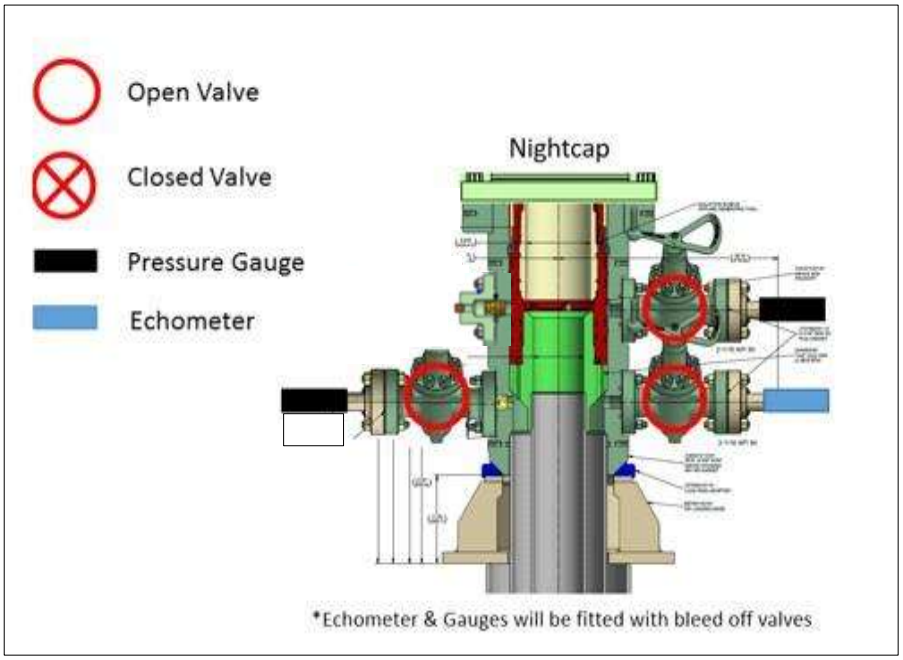
2. Offline Cementing Procedure

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.



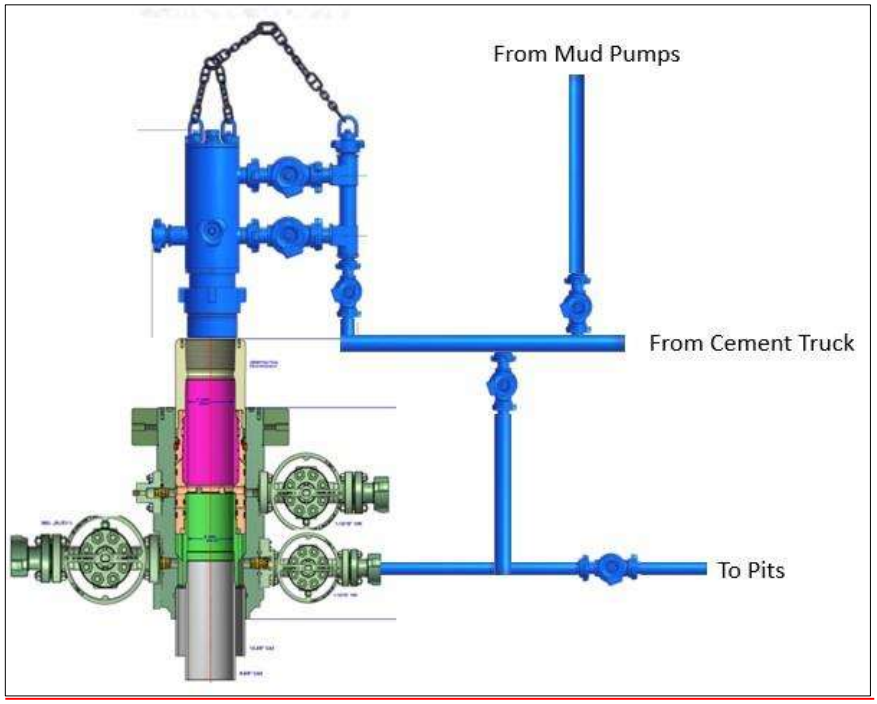
Annular packoff with both external and internal seals



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: 460588
	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.	5/29/2025