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 / 32.108809 / -103.910614
County or Parish/State: EDDY / NM

Well Number: 116H
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: 2844249

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

Date Sundry Submitted: 03/28/2025
Time Sundry Submitted: 11:16

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 & 450' FWL OF SECTION 20-T25S-R30E 616' FSL & 580' FEL OF SECTION 19-T25S-R30E FTP: 100' FNL & 330' FWL OF SECTION 29-T25S-R30E 100' FNL & 580' FEL OF SECTION 30-T25S-R30E LTP: 100' FSL & 330' FWL OF SECTION 32-T25S-R30E 2325' FNL & 580' FEL OF SECTION 31-T25S-R30E BHL: 50' FSL & 330' FWL OF SECTION 32-T25S-R30E 2375' FNL & 580' FEL OF SECTION 31-T25S-R30E The proposed total depth is changing from 20064' MD; 9257' TVD to 19799' MD; 11662' TVD. The pool is changing from WC-015 G-06 S243119C; Bone Spring (97975) to Purple Sage; Wolfcamp (Gas) (98220). There is no new surface disturbance.

NOI Attachments

Procedure Description

POKER_LAKE_UNIT_20_BD_116H_Sundry_Docs_20250328111259.pdf

Well Name: POKER LAKE UNIT 20 BD

Well Location: T25S / R30E / SEC 20 / SWSW / 32.108809 / -103.910614

County or Parish/State: EDDY / NM

Well Number: 116H

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_116H_COA_20250412085031.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 11:13 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/116H

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 & 450 FWL OF SECTION 20-T25S-R30E 616 FSL & 580 FEL OF SECTION 19-T25S-R30E
FTP: 100' FNL & 330' FWL OF SECTION 29-T25S-R30E 100' FNL & 580' FEL OF SECTION 30-T25S-R30E
LTP: 100' FSL & 330' FWL OF SECTION 32-T25S-R30E 2325' FNL & 580' FEL OF SECTION 31-T25S-R30E
BHL: 50' FSL & 330' FWL OF SECTION 32-T25S-R30E 2375' FNL & 580' FEL OF SECTION 31-T25S-R30E

The proposed total depth is changing from 20064 MD; 9257 TVD to 19799 MD; 11662 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 Purple Sage; Wolfcamp (Gas) (98220).

There is no new surface disturbance.

Location of Well

0. SHL: SWSW / 205 FSL / 450 FWL / TWSP: 25S / RANGE: 30E / SECTION: 20 / LAT: 32.108809 / LONG: -103.910614 (TVD: 0 feet, MD: 0 feet)

PPP: NWNW / 100 FNL / 330 FWL / TWSP: 25S / RANGE: 30E / SECTION: 29 / LAT: 32.107968 / LONG: -103.911001 (TVD: 9257 feet, MD: 9600 feet)

BHL: SWSW / 50 FSL / 330 FWL / TWSP: 25S / RANGE: 30E / SECTION: 32 / LAT: 32.079176 / LONG: -103.910999 (TVD: 9257 feet, MD: 20064 feet)

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO
LEASE NO.:	**NMNM070125**
LOCATION:	Sec. 20, T.25 S, R 30 E
COUNTY:	Eddy County, New Mexico
WELL NAME & NO.:	Poker Lake Unit 20 BD 116H
SURFACE HOLE FOOTAGE:	205'/S & 450'/W
BOTTOM HOLE FOOTAGE:	2375'/N & 580'/E

*Changes approved through engineering via **Sundry 2844249_** 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 **820** 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 6081'.**

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	98220	Purple Sage; Wolfcamp (Gas)

Property Code	Property Name	Well Number
	POKER LAKE UNIT 20 BD	116H

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	450' FWL	32.108809	-103.910614	EDDY

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
H	31	25 S	30 E		2,375' FNL	580' FEL	32.087098	-103.913913	EDDY

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
320	DEFINING		YES	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
P	19	25 S	30 E		616' FSL	580' FEL	32.109926	-103.913942	EDDY

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
A	30	25 S	30 E		100' FNL	580' FEL	32.107957	-103.913940	EDDY

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
H	31	25 S	30 E		2,325' FNL	580' FEL	32.087236	-103.913913	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 3/28/2025

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

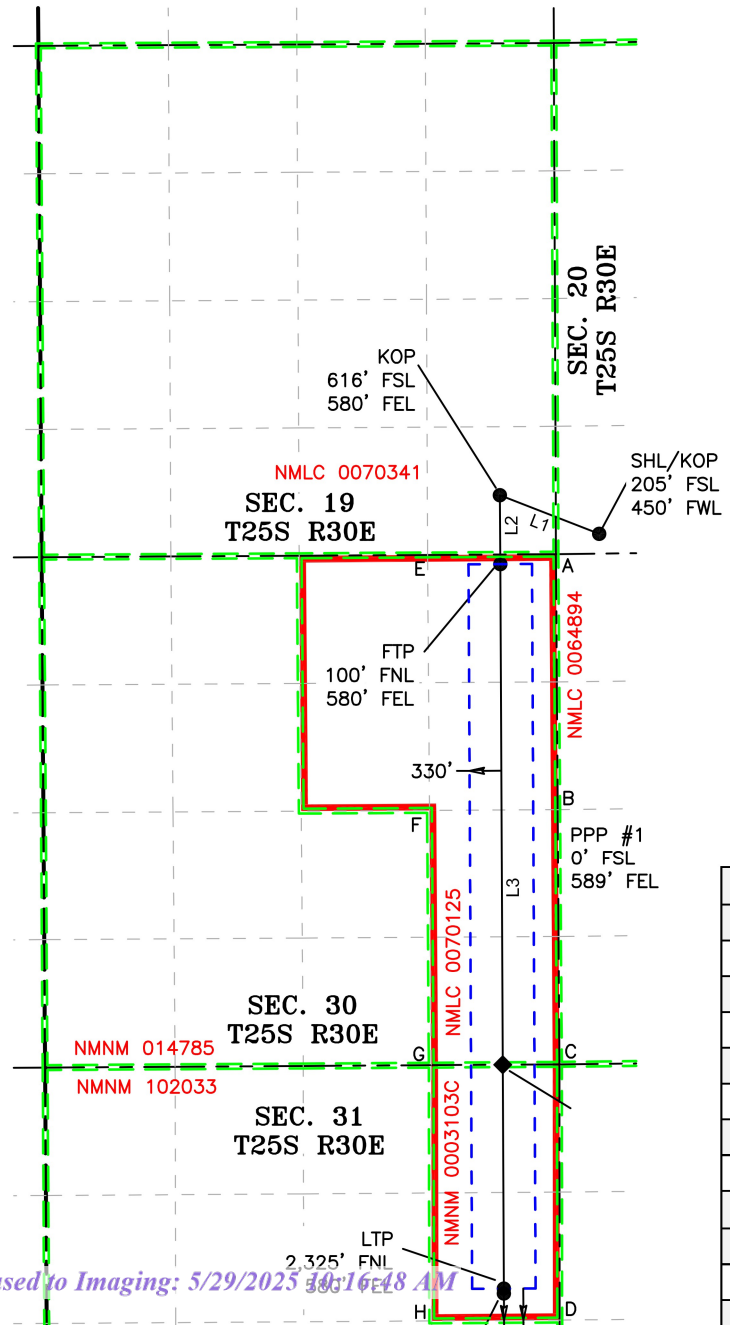
This grid represents a standard section. You may superimpose a non-standard section, or a larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the 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	291° 17'03"	1,107.70'
L2	179° 43'21"	716.17'
L3	179° 42'53"	7,588.07'



COORDINATE TABLE					
SHL (NAD 83 NME)			LTP (NAD 83 NME)		
Y =	403,577.9	N	Y =	395,725.9	N
X =	672,221.1	E	X =	671,230.1	E
LAT. =	32.108809	°N	LAT. =	32.087236	°N
LONG. =	103.910614	°W	LONG. =	103.913913	°W
KOP (NAD 83 NME)			BHL (NAD 83 NME)		
Y =	403,980.0	N	Y =	395,675.9	N
X =	671,188.9	E	X =	671,230.2	E
LAT. =	32.109926	°N	LAT. =	32.087098	°N
LONG. =	103.913942	°W	LONG. =	103.913913	°W
FTP (NAD 83 NME)					
Y =	403,263.8	N			
X =	671,192.4	E			
LAT. =	32.107957	°N			
LONG. =	103.913940	°W			
SHL (NAD 27 NME)			LTP (NAD 27 NME)		
Y =	403,519.6	N	Y =	395,667.8	N
X =	631,036.2	E	X =	630,045.0	E
LAT. =	32.108684	°N	LAT. =	32.087111	°N
LONG. =	103.910130	°W	LONG. =	103.913430	°W
KOP (NAD 27 NME)			BHL (NAD 27 NME)		
Y =	403,921.6	N	Y =	395,617.8	N
X =	630.004.1	E	X =	630,045.1	E
LAT. =	32.109801	°N	LAT. =	32.086973	°N
LONG. =	103.913459	°W	LONG. =	103.913431	°W
FTP (NAD 27 NME)					
Y =	403,205.5	N			
X =	630,007.6	E			
LAT. =	32.107832	°N			
LONG. =	103.913456	°W			
PPP #1 (NAD 83 NME)			PPP #1 (NAD 27 NME)		
Y =	398,051.2	N	Y =	397,993.0	N
X =	671,218.5	E	X =	630,033.5	E
LAT. =	32.093628	°N	LAT. =	32.093503	°N
LONG. =	103.913921	°W	LONG. =	103.913438	°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 =	403,359.1	N	E - X =	670,436.6	E
F - Y =	400,703.1	N	F - X =	670,456.1	E
G - Y =	398,047.7	N	G - X =	670,474.6	E
H - Y =	395,390.9	N	H - X =	670,479.4	E
CORNER COORDINATES (NAD27 NME)					
A - Y =	403,309.2	N	A - X =	630,586.9	E
B - Y =	400,653.0	N	B - X =	630,604.7	E
C - Y =	397,996.8	N	C - X =	630,622.5	E

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

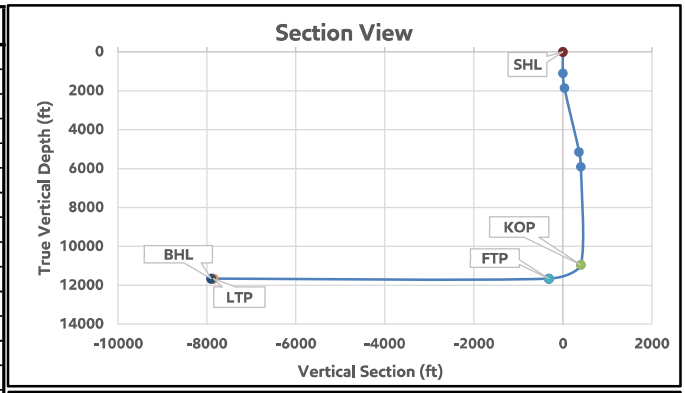
ExxonMobil
Poker Lake Unit 20 BD - 116H
Projected TD: 19799' MD / 11662' TVD
SHL: 205' FSL & 450' FWL , Section 20, T25S, R30E
BHL: 2375' FNL & 580' FEL , Section 31, T25S, R30E
Eddy County, NM

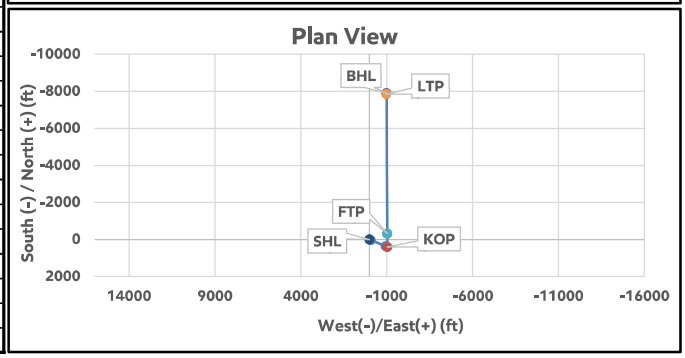
1. Geologic Name of Surface Formation

A. Quaternary

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

Formation	Well Depth	Water/Oil/Gas
Rustler	521'	Water
Salado	845'	Water
Base of Salt	3389'	Water
Delaware	3577'	Water
Cherry Canyon	4487'	Water/Oil/Gas
Brushy Canyon	6081'	Water/Oil/Gas
Basal Brushy Canyon	7127'	Water/Oil/Gas
Bone Spring Lm.	7383'	Water/Oil/Gas
Avalon	7506'	Water/Oil/Gas
Lower Avalon	7896'	Water/Oil/Gas
1st Bone Spring Lime	8099'	Water/Oil/Gas
1st Bone Spring Sand	8300'	Water/Oil/Gas
2nd Bone Spring Shale	8562'	Water/Oil/Gas
2nd Bone Spring Lime	8784'	Water/Oil/Gas
2nd Bone Spring Sand	8920'	Water/Oil/Gas
2nd Bone Spring T/B Carb	9279'	Water/Oil/Gas
3rd Bone Spring Lime	9390'	Water/Oil/Gas
Harkey	9717'	Water/Oil/Gas
3rd Bone Spring Shale	9839'	Water/Oil/Gas
Wolfcamp X	10658'	Water/Oil/Gas
Wolfcamp Y	10705'	Water/Oil/Gas
Wolfcamp A	10750'	Water/Oil/Gas
Wolfcamp B	11158'	Water/Oil/Gas
Wolfcamp C	11339'	Water/Oil/Gas
Wolfcamp D	11562'	Water/Oil/Gas
Landing	11662'	Water/Oil/Gas
Wolfcamp E	11679'	Water/Oil/Gas
Wolfcamp F	11927'	Water/Oil/Gas





	Inclination (°)	Azimuth (°)	True Vertical Depth (ft)	Y Offset (ft)	X Offset (ft)
SHL	0	0	0	0	0
KOP	0	0	10946	402	-1032
LP	90	180	11662	-314	-1029
FTP	90	180	11662	-314	-1029
LTP	90	180	11662	-7852	-991
BHL	90	180	11662	-7902	-991

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 820' 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' – 820'	820'	9-5/8"	40	J55	BTC	New	15.70	14.47	5.49
8.75"	0' – 4000'	3914'	7-5/8"	29.7	P110-ICY	Tenaris Wedge 511	New	6.02	8.68	2.91
8.75"	4000' – 10936'	10796'	7-5/8"	29.7	L80-IC	Tenaris Wedge 511	New	1.79	4.01	2.06
6.75"	0' – 10836'	10696'	5-1/2"	20	P110-CY	TPN	New	1.18	2.40	2.19
6.75"	10836' – 19799'	11662'	5-1/2"	20	P110-IC	Tenaris Wedge 441	New	1.18	2.43	2.33

Section 3 Summary:

XTO will keep casing fluid filled to meet BLM's collapse requirement.
The planned kick off point is located at: 11086' MD / 10946' 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	154	12.4	2.11	0	820	100%	
Surface 1	Tail	141	14.8	1.33	520	820	100%	
Intermediate 1	Lead							
Intermediate 1	Tail	454	14.8	1.45	6081	10,936	0%	
Production 1	Lead							
Production 1	Tail	2053	13.2	1.44	10436	19,799	25%	

Remedial Cementing

Casing	Slurry Type	No. Sacks	Density (ppg)	Yield (ft3/sack)	Cemented Interval	Excess (%)	Slurry Description
Intermediate 1	Bradenhead Squeeze	632	14.8	1.45	0 - 6081'	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) 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.

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

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

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

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

6. Proposed Mud Circulation System

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)	Comments

0' – 820'	12.25"	FW/Native	8.3 - 8.7	35-40	NC	Fresh Water or Native Water
820' – 10936'	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.
10936' – 19799'	6.75"	OBM	9.5 - 12.5	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:

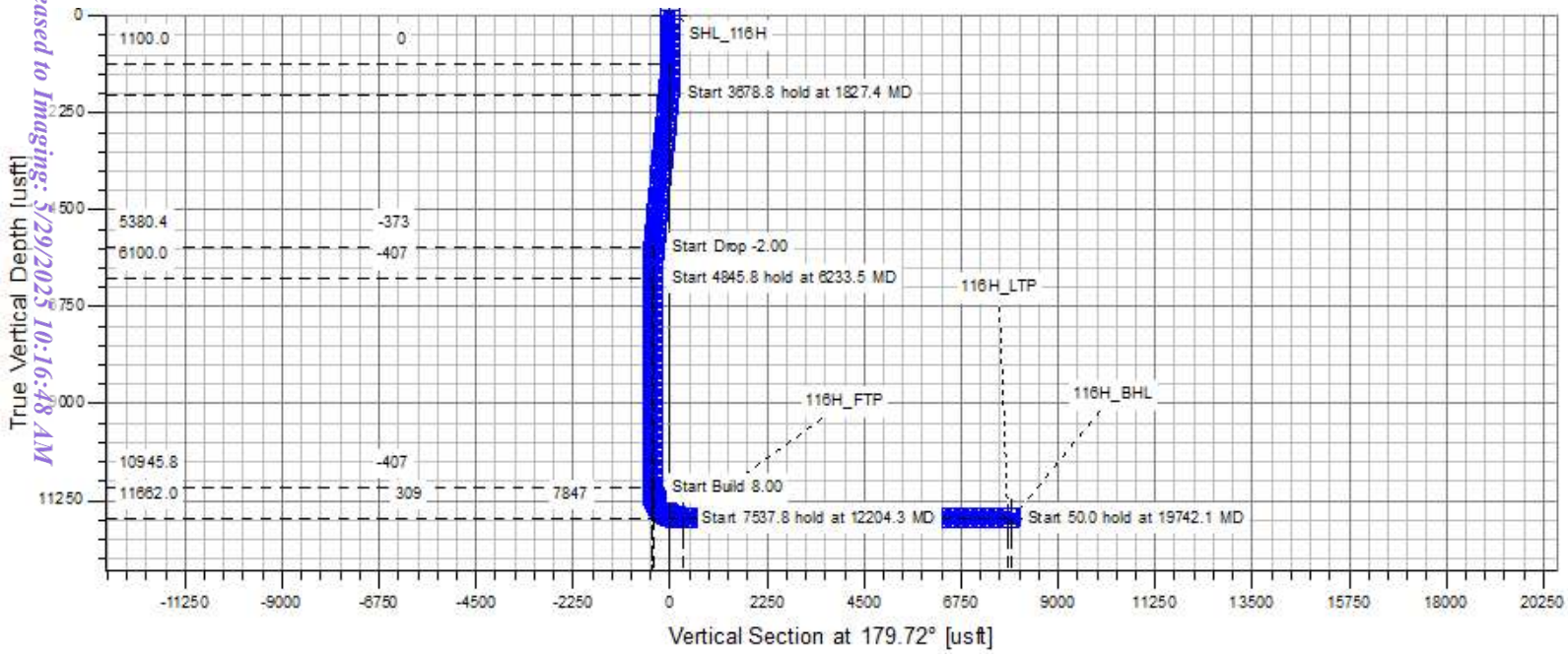
The estimated bottom hole temperature of 180F to 200F. No H2S is expected but monitors will be in place to detect any H2S occurrences. Should these circumstances be encountered the operator and drilling contractor are prepared to take all necessary steps to ensure safety of all personnel and environment. Lost circulation is possible throughout the well.

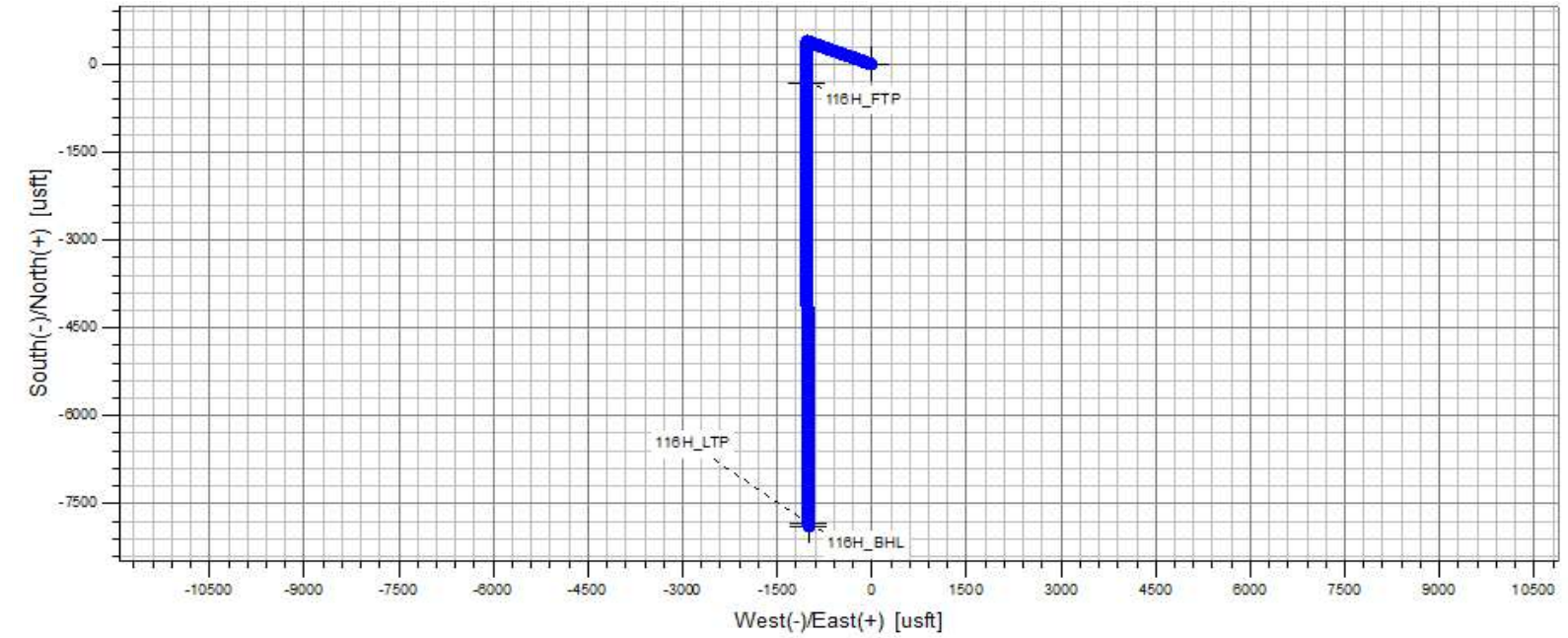
10. Anticipated Starting Date and Duration of Operations

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 116H





Formation	TV
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)	
3rd Bone Spring Lime	
Harkey	
3rd Bone Spring Shale	
3rd Bone Spring Sand	
Wolfcamp	
Wolfcamp X	
Wolfcamp Y	
Wolfcamp A	
Wolfcamp B	
Wolfcamp C	
Wolfcamp D	
Landing	
Wolfcamp E	
Wolfcamp F	

Well Plan Report - Poker Lake Unit 20 BD 116H

Measured Depth:	19798.91 ft	**Site:**	A
TVD RKB:	11662.00 ft	**Slot:**	Poker Lake Unit 20 BD 116H
Location			
Cartographic Reference System:	New Mexico East - NAD 27		
Northing:	403519.60 ft		
Easting:	631036.20 ft		
RKB:	3190.00 ft		
Ground Level:	3158.00 ft		
North Reference:	Grid		
Convergence Angle:	0.22 Deg		

Plan Sections Poker Lake Unit 20 BD 116H

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	
1869.14	15.38	291.28	1859.94	37.25	-95.63	2.00	0.00	2.00	
5271.15	15.38	291.28	5140.06	364.83	-936.52	0.00	0.00	0.00	
6040.29	0.00	0.00	5900.00	402.09	-1032.15	-2.00	0.00	2.00	
11086.09	0.00	0.00	10945.80	402.09	-1032.15	0.00	0.00	0.00	
12211.09	90.00	179.72	11662.00	-314.10	-1028.60	8.00	0.00	8.00	FTP 1
19748.89	90.00	179.72	11662.00	-7851.80	-991.20	0.00	0.00	0.00	LTP 1
19798.91	90.00	179.72	11662.00	-7901.82	-990.95	0.00	0.00	0.00	BHL 1

Position Uncertainty Poker Lake Unit 20 BD 116H

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	291.284	1199.980	4.392	0.000	5.024	0.000	2.685	0.000	0.000	5.060	4.353	124.725	MWD+IFR1+MS
1300.000	4.000	291.284	1299.838	5.261	0.000	5.359	0.000	2.745	0.000	0.000	5.359	5.268	114.300	MWD+IFR1+MS
1400.000	6.000	291.284	1399.452	6.020	0.000	5.697	0.000	2.810	0.000	0.000	6.073	5.658	38.934	MWD+IFR1+MS
1500.000	8.000	291.284	1498.702	6.705	0.000	6.039	0.000	2.883	0.000	0.000	6.795	5.969	37.753	MWD+IFR1+MS
1600.000	10.000	291.284	1597.465	7.337	0.000	6.386	0.000	2.965	0.000	0.000	7.463	6.286	37.487	MWD+IFR1+MS
1700.000	12.000	291.284	1695.623	7.926	0.000	6.737	0.000	3.060	0.000	0.000	8.088	6.611	37.441	MWD+IFR1+MS
1800.000	14.000	291.284	1793.055	8.480	0.000	7.093	0.000	3.168	0.000	0.000	8.681	6.943	37.499	MWD+IFR1+MS
1869.145	15.383	291.284	1859.938	8.739	0.000	7.335	0.000	3.230	0.000	0.000	8.969	7.176	37.658	MWD+IFR1+MS
1900.000	15.383	291.284	1889.688	8.826	0.000	7.440	0.000	3.251	0.000	0.000	9.056	7.281	37.783	MWD+IFR1+MS
2000.000	15.383	291.284	1986.105	9.108	0.000	7.797	0.000	3.338	0.000	0.000	9.337	7.632	38.516	MWD+IFR1+MS
2100.000	15.383	291.284	2082.522	9.410	0.000	8.171	0.000	3.432	0.000	0.000	9.642	7.993	39.617	MWD+IFR1+MS
2200.000	15.383	291.284	2178.940	9.720	0.000	8.550	0.000	3.529	0.000	0.000	9.955	8.358	40.746	MWD+IFR1+MS
2300.000	15.383	291.284	2275.357	10.036	0.000	8.932	0.000	3.630	0.000	0.000	10.275	8.725	41.901	MWD+IFR1+MS
2400.000	15.383	291.284	2371.775	10.359	0.000	9.317	0.000	3.735	0.000	0.000	10.601	9.095	43.080	MWD+IFR1+MS
2500.000	15.383	291.284	2468.192	10.687	0.000	9.705	0.000	3.842	0.000	0.000	10.934	9.466	44.280	MWD+IFR1+MS
2600.000	15.383	291.284	2564.610	11.020	0.000	10.095	0.000	3.952	0.000	0.000	11.272	9.839	45.497	MWD+IFR1+MS
2700.000	15.383	291.284	2661.027	11.358	0.000	10.486	0.000	4.065	0.000	0.000	11.615	10.214	46.730	MWD+IFR1+MS
2800.000	15.383	291.284	2757.445	11.701	0.000	10.880	0.000	4.181	0.000	0.000	11.963	10.589	47.973	MWD+IFR1+MS
2900.000	15.383	291.284	2853.862	12.047	0.000	11.276	0.000	4.299	0.000	0.000	12.316	10.965	49.223	MWD+IFR1+MS

3000.000	15.383	291.284	2950.280	12.396	0.000	11.673	0.000	4.419	0.000	0.000	12.673	11.342	50.476	MWD+IFR1+MS
3100.000	15.383	291.284	3046.697	12.749	0.000	12.071	0.000	4.542	0.000	0.000	13.033	11.720	51.727	MWD+IFR1+MS
3200.000	15.383	291.284	3143.115	13.105	0.000	12.470	0.000	4.666	0.000	0.000	13.397	12.098	52.973	MWD+IFR1+MS
3300.000	15.383	291.284	3239.532	13.464	0.000	12.871	0.000	4.793	0.000	0.000	13.765	12.477	54.209	MWD+IFR1+MS
3400.000	15.383	291.284	3335.949	13.825	0.000	13.272	0.000	4.921	0.000	0.000	14.136	12.856	55.430	MWD+IFR1+MS
3500.000	15.383	291.284	3432.367	14.189	0.000	13.675	0.000	5.052	0.000	0.000	14.509	13.235	56.634	MWD+IFR1+MS
3600.000	15.383	291.284	3528.784	14.555	0.000	14.078	0.000	5.184	0.000	0.000	14.886	13.614	57.817	MWD+IFR1+MS
3700.000	15.383	291.284	3625.202	14.922	0.000	14.482	0.000	5.318	0.000	0.000	15.265	13.993	58.975	MWD+IFR1+MS
3800.000	15.383	291.284	3721.619	15.292	0.000	14.886	0.000	5.454	0.000	0.000	15.646	14.373	60.106	MWD+IFR1+MS
3900.000	15.383	291.284	3818.037	15.664	0.000	15.292	0.000	5.591	0.000	0.000	16.030	14.753	61.209	MWD+IFR1+MS
4000.000	15.383	291.284	3914.454	16.037	0.000	15.698	0.000	5.730	0.000	0.000	16.415	15.133	62.280	MWD+IFR1+MS
4100.000	15.383	291.284	4010.872	16.411	0.000	16.104	0.000	5.870	0.000	0.000	16.803	15.513	63.319	MWD+IFR1+MS
4200.000	15.383	291.284	4107.289	16.787	0.000	16.511	0.000	6.013	0.000	0.000	17.192	15.893	64.324	MWD+IFR1+MS
4300.000	15.383	291.284	4203.707	17.164	0.000	16.919	0.000	6.156	0.000	0.000	17.583	16.274	65.295	MWD+IFR1+MS
4400.000	15.383	291.284	4300.124	17.543	0.000	17.326	0.000	6.302	0.000	0.000	17.976	16.654	66.232	MWD+IFR1+MS
4500.000	15.383	291.284	4396.542	17.923	0.000	17.735	0.000	6.449	0.000	0.000	18.370	17.035	67.135	MWD+IFR1+MS
4600.000	15.383	291.284	4492.959	18.303	0.000	18.143	0.000	6.597	0.000	0.000	18.765	17.415	68.003	MWD+IFR1+MS
4700.000	15.383	291.284	4589.377	18.685	0.000	18.552	0.000	6.748	0.000	0.000	19.162	17.796	68.838	MWD+IFR1+MS
4800.000	15.383	291.284	4685.794	19.068	0.000	18.962	0.000	6.899	0.000	0.000	19.559	18.177	69.640	MWD+IFR1+MS
4900.000	15.383	291.284	4782.211	19.451	0.000	19.371	0.000	7.053	0.000	0.000	19.958	18.558	70.410	MWD+IFR1+MS
5000.000	15.383	291.284	4878.629	19.836	0.000	19.781	0.000	7.208	0.000	0.000	20.358	18.940	71.148	MWD+IFR1+MS
5100.000	15.383	291.284	4975.046	20.221	0.000	20.191	0.000	7.364	0.000	0.000	20.759	19.321	71.856	MWD+IFR1+MS
5200.000	15.383	291.284	5071.464	20.607	0.000	20.602	0.000	7.522	0.000	0.000	21.161	19.703	72.535	MWD+IFR1+MS
5271.147	15.383	291.284	5140.062	20.879	0.000	20.891	0.000	7.635	0.000	0.000	21.441	19.974	73.019	MWD+IFR1+MS
5300.000	14.806	291.284	5167.919	21.001	0.000	21.006	0.000	7.682	0.000	0.000	21.553	20.084	73.210	MWD+IFR1+MS
5400.000	12.806	291.284	5265.025	21.453	0.000	21.403	0.000	7.847	0.000	0.000	21.965	20.480	72.817	MWD+IFR1+MS
5500.000	10.806	291.284	5362.905	21.945	0.000	21.792	0.000	8.014	0.000	0.000	22.416	20.895	70.974	MWD+IFR1+MS
5600.000	8.806	291.284	5461.439	22.400	0.000	22.170	0.000	8.170	0.000	0.000	22.859	21.298	69.153	MWD+IFR1+MS
5700.000	6.806	291.284	5560.508	22.818	0.000	22.535	0.000	8.316	0.000	0.000	23.292	21.689	67.375	MWD+IFR1+MS
5800.000	4.806	291.284	5659.990	23.199	0.000	22.889	0.000	8.454	0.000	0.000	23.717	22.067	65.661	MWD+IFR1+MS
5900.000	2.806	291.284	5759.764	23.543	0.000	23.231	0.000	8.585	0.000	0.000	24.132	22.433	64.030	MWD+IFR1+MS
6000.000	0.806	291.284	5859.709	23.850	0.000	23.562	0.000	8.710	0.000	0.000	24.538	22.786	62.496	MWD+IFR1+MS
6040.292	0.000	0.000	5900.000	24.305	0.000	23.298	0.000	8.760	0.000	0.000	24.667	22.914	62.538	MWD+IFR1+MS

6100.000	0.000	0.000	5959.708	24.493	0.000	23.482	0.000	8.833	0.000	0.000	24.848	23.106	62.752	MWD+IFR1+MS
6200.000	0.000	0.000	6059.708	24.809	0.000	23.795	0.000	8.957	0.000	0.000	25.151	23.434	63.101	MWD+IFR1+MS
6300.000	0.000	0.000	6159.708	25.128	0.000	24.112	0.000	9.084	0.000	0.000	25.455	23.767	63.505	MWD+IFR1+MS
6400.000	0.000	0.000	6259.708	25.449	0.000	24.431	0.000	9.213	0.000	0.000	25.761	24.101	63.912	MWD+IFR1+MS
6500.000	0.000	0.000	6359.708	25.770	0.000	24.750	0.000	9.346	0.000	0.000	26.069	24.435	64.322	MWD+IFR1+MS
6600.000	0.000	0.000	6459.708	26.093	0.000	25.070	0.000	9.480	0.000	0.000	26.378	24.769	64.734	MWD+IFR1+MS
6700.000	0.000	0.000	6559.708	26.416	0.000	25.392	0.000	9.618	0.000	0.000	26.689	25.105	65.149	MWD+IFR1+MS
6800.000	0.000	0.000	6659.708	26.740	0.000	25.714	0.000	9.759	0.000	0.000	27.001	25.440	65.566	MWD+IFR1+MS
6900.000	0.000	0.000	6759.708	27.065	0.000	26.037	0.000	9.902	0.000	0.000	27.314	25.776	65.985	MWD+IFR1+MS
7000.000	0.000	0.000	6859.708	27.391	0.000	26.361	0.000	10.048	0.000	0.000	27.628	26.113	66.406	MWD+IFR1+MS
7100.000	0.000	0.000	6959.708	27.718	0.000	26.687	0.000	10.198	0.000	0.000	27.944	26.450	66.829	MWD+IFR1+MS
7200.000	0.000	0.000	7059.708	28.045	0.000	27.013	0.000	10.350	0.000	0.000	28.261	26.787	67.254	MWD+IFR1+MS
7300.000	0.000	0.000	7159.708	28.373	0.000	27.339	0.000	10.505	0.000	0.000	28.578	27.125	67.681	MWD+IFR1+MS
7400.000	0.000	0.000	7259.708	28.702	0.000	27.667	0.000	10.662	0.000	0.000	28.898	27.463	68.108	MWD+IFR1+MS
7500.000	0.000	0.000	7359.708	29.032	0.000	27.995	0.000	10.823	0.000	0.000	29.218	27.801	68.537	MWD+IFR1+MS
7600.000	0.000	0.000	7459.708	29.362	0.000	28.324	0.000	10.987	0.000	0.000	29.539	28.140	68.967	MWD+IFR1+MS
7700.000	0.000	0.000	7559.708	29.693	0.000	28.654	0.000	11.154	0.000	0.000	29.861	28.479	69.397	MWD+IFR1+MS
7800.000	0.000	0.000	7659.708	30.025	0.000	28.984	0.000	11.323	0.000	0.000	30.184	28.818	69.828	MWD+IFR1+MS
7900.000	0.000	0.000	7759.708	30.357	0.000	29.315	0.000	11.496	0.000	0.000	30.508	29.158	70.260	MWD+IFR1+MS
8000.000	0.000	0.000	7859.708	30.690	0.000	29.647	0.000	11.672	0.000	0.000	30.833	29.498	70.691	MWD+IFR1+MS
8100.000	0.000	0.000	7959.708	31.023	0.000	29.979	0.000	11.851	0.000	0.000	31.159	29.838	71.123	MWD+IFR1+MS
8200.000	0.000	0.000	8059.708	31.357	0.000	30.312	0.000	12.033	0.000	0.000	31.486	30.179	71.554	MWD+IFR1+MS
8300.000	0.000	0.000	8159.708	31.692	0.000	30.646	0.000	12.218	0.000	0.000	31.813	30.520	71.985	MWD+IFR1+MS
8400.000	0.000	0.000	8259.708	32.027	0.000	30.980	0.000	12.406	0.000	0.000	32.142	30.861	72.416	MWD+IFR1+MS
8500.000	0.000	0.000	8359.708	32.362	0.000	31.314	0.000	12.597	0.000	0.000	32.471	31.202	72.845	MWD+IFR1+MS
8600.000	0.000	0.000	8459.708	32.698	0.000	31.650	0.000	12.791	0.000	0.000	32.801	31.544	73.274	MWD+IFR1+MS
8700.000	0.000	0.000	8559.708	33.035	0.000	31.985	0.000	12.988	0.000	0.000	33.131	31.885	73.701	MWD+IFR1+MS
8800.000	0.000	0.000	8659.708	33.372	0.000	32.321	0.000	13.189	0.000	0.000	33.462	32.227	74.127	MWD+IFR1+MS
8900.000	0.000	0.000	8759.708	33.709	0.000	32.658	0.000	13.392	0.000	0.000	33.794	32.569	74.551	MWD+IFR1+MS
9000.000	0.000	0.000	8859.708	34.047	0.000	32.995	0.000	13.599	0.000	0.000	34.127	32.912	74.974	MWD+IFR1+MS
9100.000	0.000	0.000	8959.708	34.385	0.000	33.332	0.000	13.809	0.000	0.000	34.460	33.254	75.395	MWD+IFR1+MS
9200.000	0.000	0.000	9059.708	34.724	0.000	33.670	0.000	14.022	0.000	0.000	34.794	33.597	75.814	MWD+IFR1+MS
9300.000	0.000	0.000	9159.708	35.063	0.000	34.009	0.000	14.238	0.000	0.000	35.129	33.940	76.230	MWD+IFR1+MS

9400.000	0.000	0.000	9259.708	35.402	0.000	34.347	0.000	14.457	0.000	0.000	35.464	34.283	76.644	MWD+IFR1+MS
9500.000	0.000	0.000	9359.708	35.742	0.000	34.687	0.000	14.680	0.000	0.000	35.800	34.627	77.056	MWD+IFR1+MS
9600.000	0.000	0.000	9459.708	36.082	0.000	35.026	0.000	14.905	0.000	0.000	36.136	34.970	77.465	MWD+IFR1+MS
9700.000	0.000	0.000	9559.708	36.422	0.000	35.366	0.000	15.134	0.000	0.000	36.473	35.314	77.871	MWD+IFR1+MS
9800.000	0.000	0.000	9659.708	36.763	0.000	35.706	0.000	15.366	0.000	0.000	36.810	35.658	78.274	MWD+IFR1+MS
9900.000	0.000	0.000	9759.708	37.104	0.000	36.047	0.000	15.601	0.000	0.000	37.148	36.002	78.675	MWD+IFR1+MS
10000.000	0.000	0.000	9859.708	37.446	0.000	36.388	0.000	15.839	0.000	0.000	37.486	36.346	79.071	MWD+IFR1+MS
10100.000	0.000	0.000	9959.708	37.788	0.000	36.729	0.000	16.081	0.000	0.000	37.825	36.691	79.465	MWD+IFR1+MS
10200.000	0.000	0.000	10059.708	38.130	0.000	37.071	0.000	16.325	0.000	0.000	38.164	37.035	79.855	MWD+IFR1+MS
10300.000	0.000	0.000	10159.708	38.472	0.000	37.413	0.000	16.573	0.000	0.000	38.504	37.380	80.242	MWD+IFR1+MS
10400.000	0.000	0.000	10259.708	38.815	0.000	37.755	0.000	16.824	0.000	0.000	38.844	37.725	80.625	MWD+IFR1+MS
10500.000	0.000	0.000	10359.708	39.158	0.000	38.098	0.000	17.078	0.000	0.000	39.185	38.070	81.005	MWD+IFR1+MS
10600.000	0.000	0.000	10459.708	39.501	0.000	38.440	0.000	17.335	0.000	0.000	39.526	38.415	81.380	MWD+IFR1+MS
10700.000	0.000	0.000	10559.708	39.845	0.000	38.784	0.000	17.596	0.000	0.000	39.867	38.760	81.752	MWD+IFR1+MS
10800.000	0.000	0.000	10659.708	40.188	0.000	39.127	0.000	17.860	0.000	0.000	40.209	39.106	82.120	MWD+IFR1+MS
10900.000	0.000	0.000	10759.708	40.532	0.000	39.471	0.000	18.126	0.000	0.000	40.551	39.452	82.484	MWD+IFR1+MS
11000.000	0.000	0.000	10859.708	40.877	0.000	39.815	0.000	18.396	0.000	0.000	40.893	39.797	82.844	MWD+IFR1+MS
11086.095	0.000	0.000	10945.803	41.172	0.000	40.110	0.000	18.632	0.000	0.000	41.188	40.094	83.101	MWD+IFR1+MS
11100.000	1.112	179.716	10959.707	41.180	0.000	40.154	-0.000	18.670	0.000	0.000	41.233	40.139	83.115	MWD+IFR1+MS
11200.000	9.112	179.716	11059.228	41.187	0.000	40.462	-0.000	18.956	0.000	0.000	41.855	40.455	85.663	MWD+IFR1+MS
11300.000	17.112	179.716	11156.542	41.276	0.000	40.758	-0.000	19.335	0.000	0.000	43.090	40.758	89.050	MWD+IFR1+MS
11400.000	25.112	179.716	11249.754	40.778	0.000	41.035	-0.000	19.870	0.000	0.000	44.198	41.035	90.442	MWD+IFR1+MS
11500.000	33.112	179.716	11337.049	39.762	0.000	41.291	-0.000	20.607	0.000	0.000	45.149	41.288	91.211	MWD+IFR1+MS
11600.000	41.112	179.716	11416.730	38.327	0.000	41.524	-0.000	21.566	0.000	0.000	45.929	41.518	91.698	MWD+IFR1+MS
11700.000	49.112	179.716	11487.244	36.603	0.000	41.733	-0.000	22.743	0.000	0.000	46.533	41.725	92.019	MWD+IFR1+MS
11800.000	57.112	179.716	11547.220	34.759	0.000	41.918	-0.000	24.107	0.000	0.000	46.969	41.908	92.212	MWD+IFR1+MS
11900.000	65.112	179.716	11595.490	33.003	0.000	42.079	-0.000	25.616	0.000	0.000	47.254	42.068	92.282	MWD+IFR1+MS
12000.000	73.112	179.716	11631.115	31.571	0.000	42.216	-0.000	27.216	0.000	0.000	47.412	42.205	92.214	MWD+IFR1+MS
12100.000	81.112	179.716	11653.401	30.707	0.000	42.328	-0.000	28.852	0.000	0.000	47.477	42.319	91.977	MWD+IFR1+MS
12200.000	89.112	179.716	11661.914	30.604	0.000	42.414	-0.000	30.469	0.000	0.000	47.490	42.409	91.541	MWD+IFR1+MS
12211.095	90.000	179.716	11662.000	30.493	0.000	42.421	-0.000	30.493	0.000	0.000	47.491	42.416	91.477	MWD+IFR1+MS
12300.000	90.000	179.716	11662.000	30.659	0.000	42.488	-0.000	30.659	0.000	0.000	47.493	42.485	90.964	MWD+IFR1+MS
12400.000	90.000	179.716	11662.000	30.860	0.000	42.583	-0.000	30.860	0.000	0.000	47.497	42.582	90.373	MWD+IFR1+MS

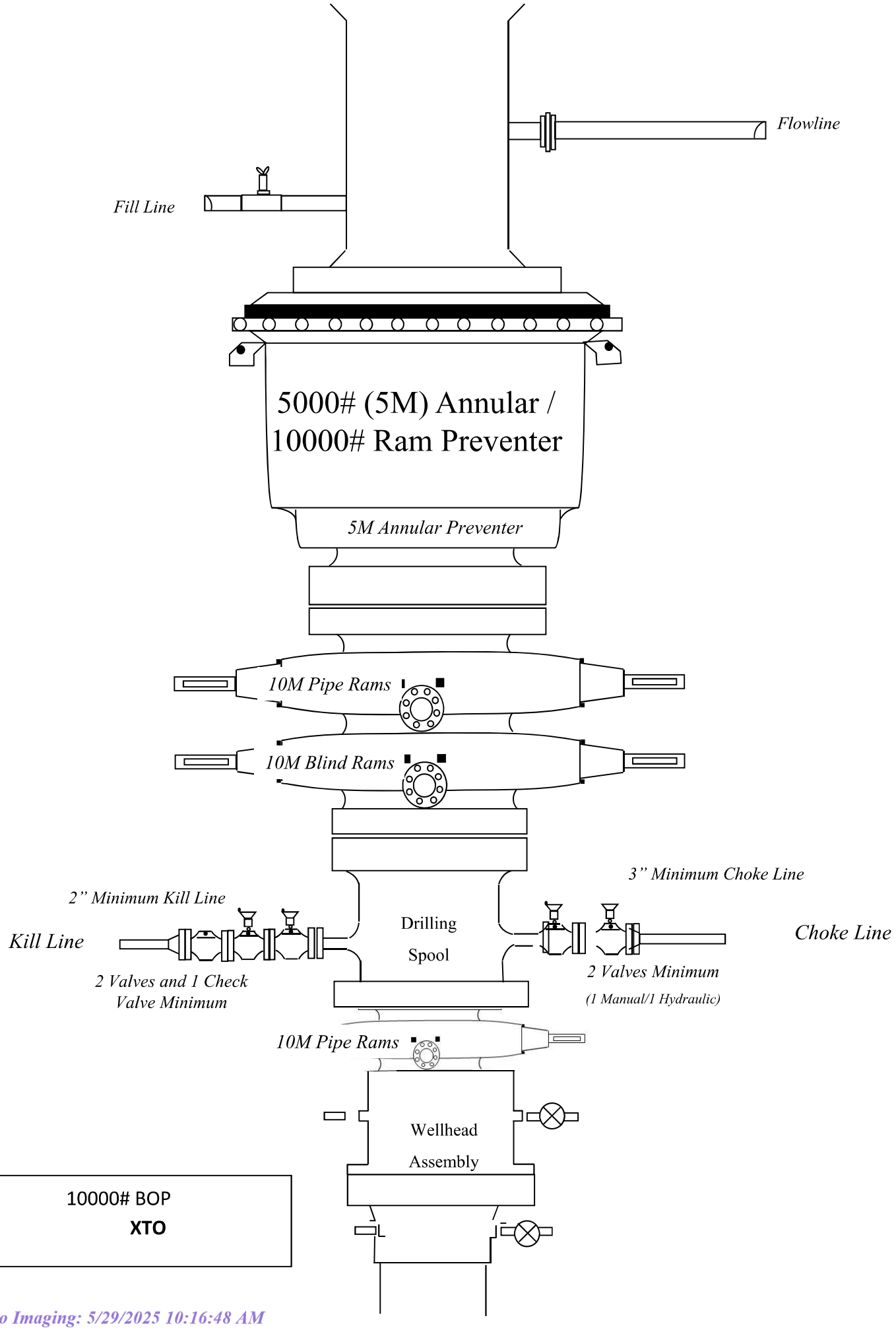
12500.000	90.000	179.716	11662.000	31.080	0.000	42.696	-0.000	31.080	0.000	0.000	47.502	42.696	89.762	MWD+IFR1+MS
12600.000	90.000	179.716	11662.000	31.318	0.000	42.828	-0.000	31.318	0.000	0.000	47.509	42.827	89.122	MWD+IFR1+MS
12700.000	90.000	179.716	11662.000	31.574	0.000	42.977	-0.000	31.574	0.000	0.000	47.518	42.974	88.445	MWD+IFR1+MS
12800.000	90.000	179.716	11662.000	31.847	0.000	43.143	-0.000	31.847	0.000	0.000	47.528	43.137	87.721	MWD+IFR1+MS
12900.000	90.000	179.716	11662.000	32.137	0.000	43.327	-0.000	32.137	0.000	0.000	47.541	43.316	86.937	MWD+IFR1+MS
13000.000	90.000	179.716	11662.000	32.444	0.000	43.528	-0.000	32.444	0.000	0.000	47.556	43.511	86.080	MWD+IFR1+MS
13100.000	90.000	179.716	11662.000	32.766	0.000	43.745	-0.000	32.766	0.000	0.000	47.573	43.719	85.129	MWD+IFR1+MS
13200.000	90.000	179.716	11662.000	33.104	0.000	43.979	-0.000	33.104	0.000	0.000	47.594	43.942	84.060	MWD+IFR1+MS
13300.000	90.000	179.716	11662.000	33.457	0.000	44.230	-0.000	33.457	0.000	0.000	47.618	44.179	82.843	MWD+IFR1+MS
13400.000	90.000	179.716	11662.000	33.824	0.000	44.496	-0.000	33.824	0.000	0.000	47.647	44.427	81.436	MWD+IFR1+MS
13500.000	90.000	179.716	11662.000	34.206	0.000	44.778	-0.000	34.206	0.000	0.000	47.680	44.687	79.785	MWD+IFR1+MS
13600.000	90.000	179.716	11662.000	34.601	0.000	45.076	-0.000	34.601	0.000	0.000	47.721	44.955	77.818	MWD+IFR1+MS
13700.000	90.000	179.716	11662.000	35.009	0.000	45.389	-0.000	35.009	0.000	0.000	47.770	45.230	75.442	MWD+IFR1+MS
13800.000	90.000	179.716	11662.000	35.430	0.000	45.716	-0.000	35.430	0.000	0.000	47.832	45.509	72.536	MWD+IFR1+MS
13900.000	90.000	179.716	11662.000	35.863	0.000	46.059	-0.000	35.863	0.000	0.000	47.909	45.787	68.960	MWD+IFR1+MS
14000.000	90.000	179.716	11662.000	36.308	0.000	46.415	-0.000	36.308	0.000	0.000	48.009	46.057	64.580	MWD+IFR1+MS
14100.000	90.000	179.716	11662.000	36.764	0.000	46.785	-0.000	36.764	0.000	0.000	48.140	46.311	59.338	MWD+IFR1+MS
14200.000	90.000	179.716	11662.000	37.232	0.000	47.169	-0.000	37.232	0.000	0.000	48.309	46.540	53.366	MWD+IFR1+MS
14300.000	90.000	179.716	11662.000	37.709	0.000	47.566	-0.000	37.709	0.000	0.000	48.524	46.737	47.058	MWD+IFR1+MS
14400.000	90.000	179.716	11662.000	38.197	0.000	47.976	-0.000	38.197	0.000	0.000	48.787	46.899	40.965	MWD+IFR1+MS
14500.000	90.000	179.716	11662.000	38.695	0.000	48.398	-0.000	38.695	0.000	0.000	49.096	47.029	35.539	MWD+IFR1+MS
14600.000	90.000	179.716	11662.000	39.202	0.000	48.833	-0.000	39.202	0.000	0.000	49.444	47.132	30.973	MWD+IFR1+MS
14700.000	90.000	179.716	11662.000	39.718	0.000	49.279	-0.000	39.718	0.000	0.000	49.825	47.216	27.244	MWD+IFR1+MS
14800.000	90.000	179.716	11662.000	40.243	0.000	49.737	-0.000	40.243	0.000	0.000	50.232	47.285	24.228	MWD+IFR1+MS
14900.000	90.000	179.716	11662.000	40.776	0.000	50.207	-0.000	40.776	0.000	0.000	50.662	47.343	21.782	MWD+IFR1+MS
15000.000	90.000	179.716	11662.000	41.317	0.000	50.687	-0.000	41.317	0.000	0.000	51.110	47.394	19.781	MWD+IFR1+MS
15100.000	90.000	179.716	11662.000	41.866	0.000	51.178	-0.000	41.866	0.000	0.000	51.575	47.440	18.125	MWD+IFR1+MS
15200.000	90.000	179.716	11662.000	42.423	0.000	51.679	-0.000	42.423	0.000	0.000	52.055	47.481	16.737	MWD+IFR1+MS
15300.000	90.000	179.716	11662.000	42.986	0.000	52.191	-0.000	42.986	0.000	0.000	52.549	47.520	15.560	MWD+IFR1+MS
15400.000	90.000	179.716	11662.000	43.556	0.000	52.712	-0.000	43.556	0.000	0.000	53.054	47.557	14.551	MWD+IFR1+MS
15500.000	90.000	179.716	11662.000	44.133	0.000	53.242	-0.000	44.133	0.000	0.000	53.572	47.592	13.677	MWD+IFR1+MS
15600.000	90.000	179.716	11662.000	44.717	0.000	53.782	-0.000	44.717	0.000	0.000	54.100	47.627	12.912	MWD+IFR1+MS
15700.000	90.000	179.716	11662.000	45.306	0.000	54.331	-0.000	45.306	0.000	0.000	54.639	47.660	12.237	MWD+IFR1+MS

15800.000	90.000	179.716	11662.000	45.901	0.000	54.888	-0.000	45.901	0.000	0.000	55.187	47.693	11.637	MWD+IFR1+MS
15900.000	90.000	179.716	11662.000	46.502	0.000	55.454	-0.000	46.502	0.000	0.000	55.744	47.726	11.100	MWD+IFR1+MS
16000.000	90.000	179.716	11662.000	47.108	0.000	56.028	-0.000	47.108	0.000	0.000	56.311	47.758	10.617	MWD+IFR1+MS
16100.000	90.000	179.716	11662.000	47.719	0.000	56.609	-0.000	47.719	0.000	0.000	56.886	47.790	10.179	MWD+IFR1+MS
16200.000	90.000	179.716	11662.000	48.336	0.000	57.199	-0.000	48.336	0.000	0.000	57.469	47.823	9.780	MWD+IFR1+MS
16300.000	90.000	179.716	11662.000	48.957	0.000	57.795	-0.000	48.957	0.000	0.000	58.060	47.855	9.415	MWD+IFR1+MS
16400.000	90.000	179.716	11662.000	49.583	0.000	58.399	-0.000	49.583	0.000	0.000	58.659	47.888	9.079	MWD+IFR1+MS
16500.000	90.000	179.716	11662.000	50.213	0.000	59.010	-0.000	50.213	0.000	0.000	59.265	47.921	8.770	MWD+IFR1+MS
16600.000	90.000	179.716	11662.000	50.848	0.000	59.628	-0.000	50.848	0.000	0.000	59.878	47.954	8.483	MWD+IFR1+MS
16700.000	90.000	179.716	11662.000	51.487	0.000	60.252	-0.000	51.487	0.000	0.000	60.498	47.988	8.217	MWD+IFR1+MS
16800.000	90.000	179.716	11662.000	52.129	0.000	60.883	-0.000	52.129	0.000	0.000	61.124	48.022	7.969	MWD+IFR1+MS
16900.000	90.000	179.716	11662.000	52.776	0.000	61.519	-0.000	52.776	0.000	0.000	61.757	48.056	7.737	MWD+IFR1+MS
17000.000	90.000	179.716	11662.000	53.426	0.000	62.162	-0.000	53.426	0.000	0.000	62.396	48.091	7.519	MWD+IFR1+MS
17100.000	90.000	179.716	11662.000	54.080	0.000	62.810	-0.000	54.080	0.000	0.000	63.041	48.126	7.315	MWD+IFR1+MS
17200.000	90.000	179.716	11662.000	54.737	0.000	63.465	-0.000	54.737	0.000	0.000	63.692	48.162	7.123	MWD+IFR1+MS
17300.000	90.000	179.716	11662.000	55.398	0.000	64.124	-0.000	55.398	0.000	0.000	64.348	48.198	6.942	MWD+IFR1+MS
17400.000	90.000	179.716	11662.000	56.062	0.000	64.789	-0.000	56.062	0.000	0.000	65.009	48.234	6.770	MWD+IFR1+MS
17500.000	90.000	179.716	11662.000	56.729	0.000	65.458	-0.000	56.729	0.000	0.000	65.676	48.271	6.608	MWD+IFR1+MS
17600.000	90.000	179.716	11662.000	57.399	0.000	66.133	-0.000	57.399	0.000	0.000	66.348	48.309	6.454	MWD+IFR1+MS
17700.000	90.000	179.716	11662.000	58.072	0.000	66.813	-0.000	58.072	0.000	0.000	67.025	48.347	6.308	MWD+IFR1+MS
17800.000	90.000	179.716	11662.000	58.747	0.000	67.497	-0.000	58.747	0.000	0.000	67.706	48.385	6.168	MWD+IFR1+MS
17900.000	90.000	179.716	11662.000	59.425	0.000	68.186	-0.000	59.425	0.000	0.000	68.393	48.424	6.035	MWD+IFR1+MS
18000.000	90.000	179.716	11662.000	60.106	0.000	68.879	-0.000	60.106	0.000	0.000	69.083	48.464	5.909	MWD+IFR1+MS
18100.000	90.000	179.716	11662.000	60.790	0.000	69.576	-0.000	60.790	0.000	0.000	69.778	48.504	5.787	MWD+IFR1+MS
18200.000	90.000	179.716	11662.000	61.475	0.000	70.277	-0.000	61.475	0.000	0.000	70.477	48.544	5.672	MWD+IFR1+MS
18300.000	90.000	179.716	11662.000	62.163	0.000	70.983	-0.000	62.163	0.000	0.000	71.180	48.585	5.560	MWD+IFR1+MS
18400.000	90.000	179.716	11662.000	62.854	0.000	71.692	-0.000	62.854	0.000	0.000	71.887	48.627	5.454	MWD+IFR1+MS
18500.000	90.000	179.716	11662.000	63.546	0.000	72.405	-0.000	63.546	0.000	0.000	72.598	48.669	5.352	MWD+IFR1+MS
18600.000	90.000	179.716	11662.000	64.241	0.000	73.122	-0.000	64.241	0.000	0.000	73.313	48.711	5.253	MWD+IFR1+MS
18700.000	90.000	179.716	11662.000	64.938	0.000	73.842	-0.000	64.938	0.000	0.000	74.031	48.755	5.159	MWD+IFR1+MS
18800.000	90.000	179.716	11662.000	65.637	0.000	74.566	-0.000	65.637	0.000	0.000	74.753	48.798	5.068	MWD+IFR1+MS
18900.000	90.000	179.716	11662.000	66.337	0.000	75.293	-0.000	66.337	0.000	0.000	75.478	48.842	4.980	MWD+IFR1+MS
19000.000	90.000	179.716	11662.000	67.040	0.000	76.023	-0.000	67.040	0.000	0.000	76.206	48.887	4.895	MWD+IFR1+MS

19100.000	90.000	179.716	11662.000	67.744	0.000	76.757	-0.000	67.744	0.000	0.000	76.938	48.933	4.814	MWD+IFR1+MS
19200.000	90.000	179.716	11662.000	68.450	0.000	77.493	-0.000	68.450	0.000	0.000	77.673	48.978	4.735	MWD+IFR1+MS
19300.000	90.000	179.716	11662.000	69.158	0.000	78.233	-0.000	69.158	0.000	0.000	78.410	49.025	4.659	MWD+IFR1+MS
19400.000	90.000	179.716	11662.000	69.867	0.000	78.975	-0.000	69.867	0.000	0.000	79.151	49.072	4.585	MWD+IFR1+MS
19500.000	90.000	179.716	11662.000	70.578	0.000	79.720	-0.000	70.578	0.000	0.000	79.894	49.119	4.514	MWD+IFR1+MS
19600.000	90.000	179.716	11662.000	71.291	0.000	80.468	-0.000	71.291	0.000	0.000	80.641	49.167	4.445	MWD+IFR1+MS
19700.000	90.000	179.716	11662.000	72.005	0.000	81.219	-0.000	72.005	0.000	0.000	81.390	49.215	4.378	MWD+IFR1+MS
19748.888	90.000	179.716	11662.000	72.354	0.000	81.585	-0.000	72.354	0.000	0.000	81.755	49.239	4.346	MWD+IFR1+MS
19798.907	90.000	179.716	11662.000	72.711	0.000	81.961	-0.000	72.711	0.000	0.000	82.130	49.264	4.314	MWD+IFR1+MS

Plan Targets Poker Lake Unit 20 BD 116H

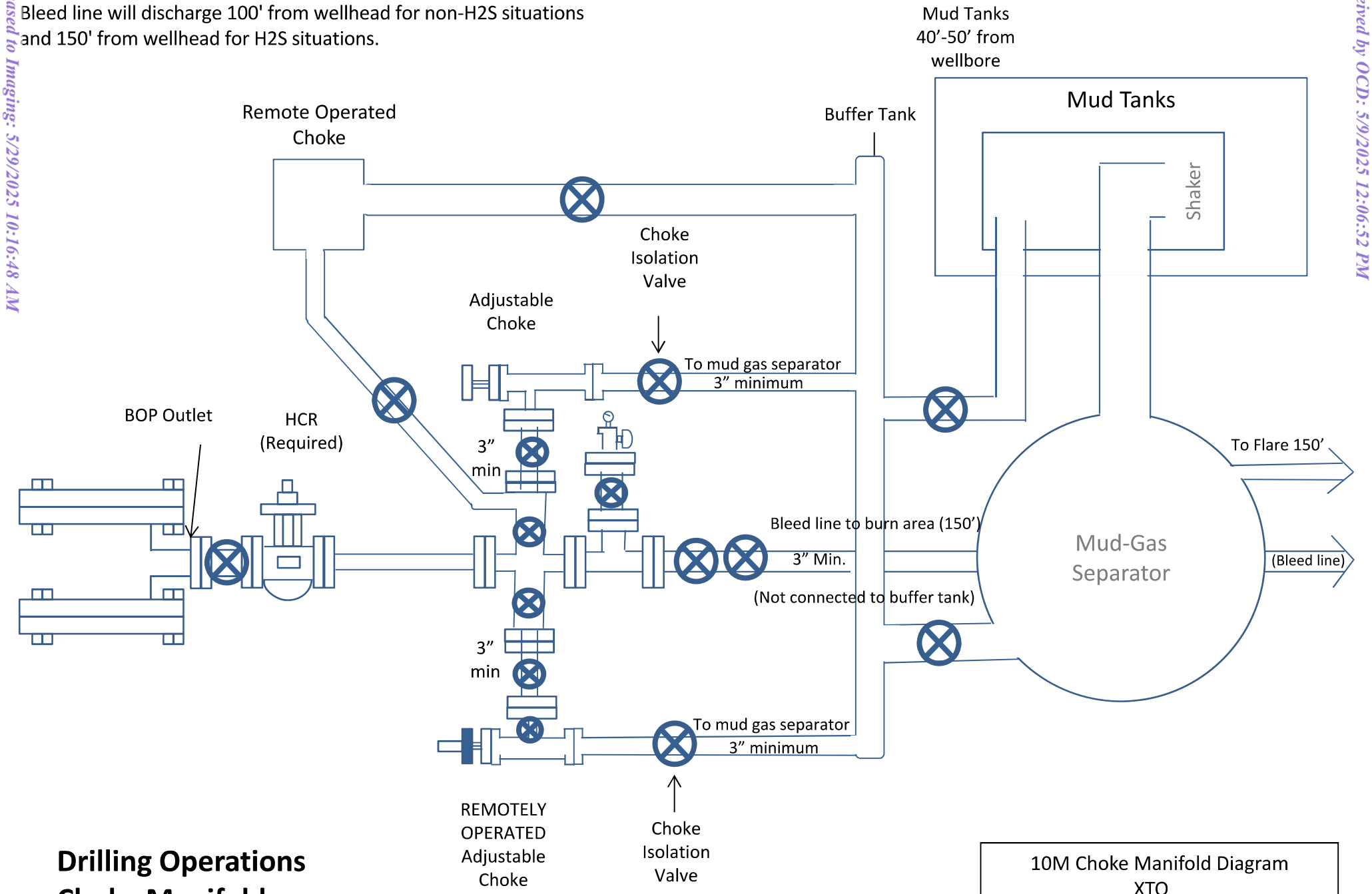
Target Name	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape
FTP 1	12211.09	403205.50	630007.60	8472.00	CIRCLE
LTP 1	19748.89	395667.80	630045.00	8472.00	CIRCLE
BHL 1	19798.89	395617.80	630045.10	8472.00	CIRCLE



10000# BOP

XTO

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



Drilling Operations
Choke Manifold
10M Service

10M Choke Manifold Diagram
XTO

Tenaris

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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For further information on concepts indicated in this datasheet, download the Datasheet Manual from www.tenaris.com

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.

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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

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Tenaris

TenarisHydril Wedge 511

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

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

Pipe Body Data

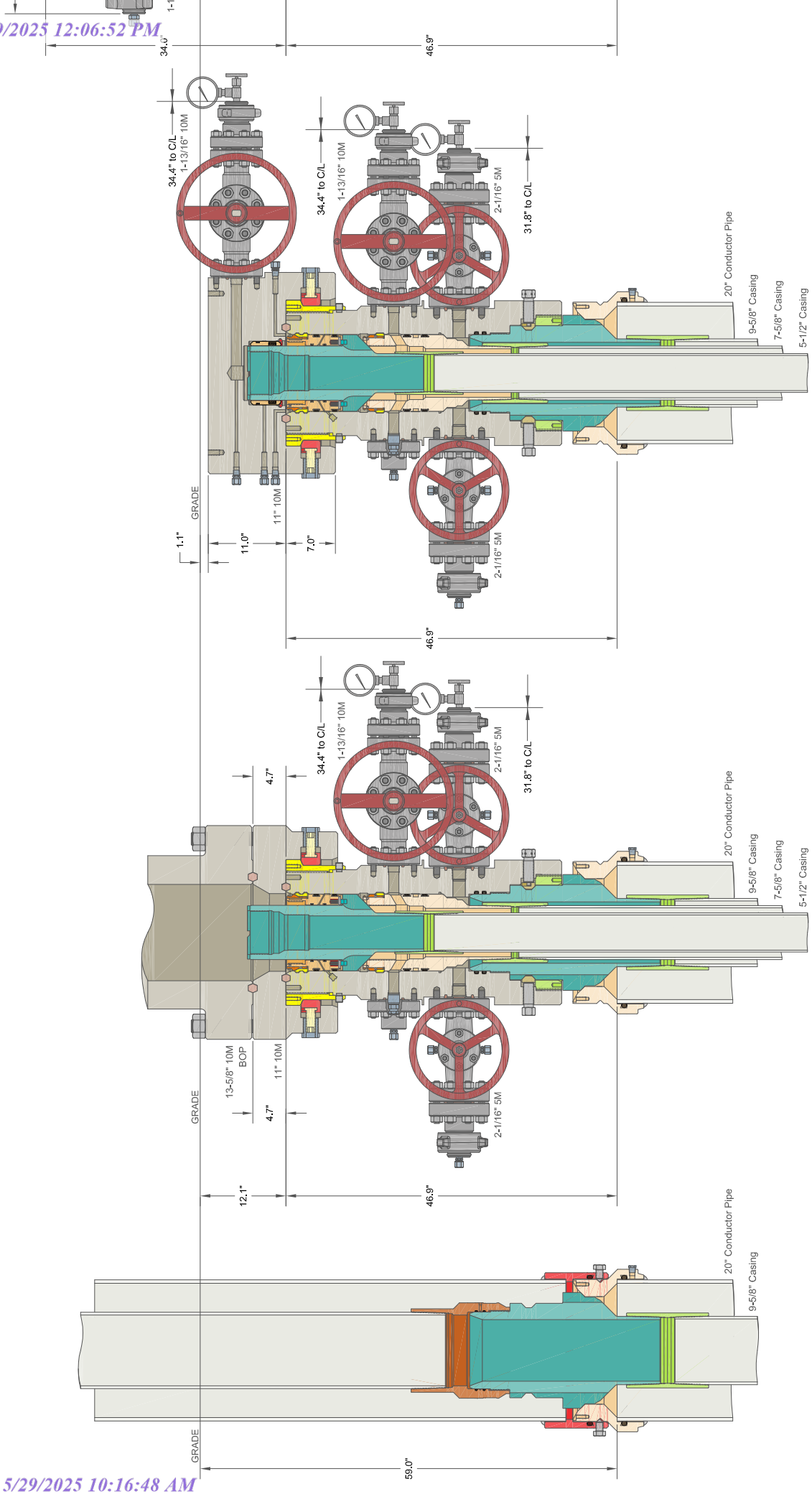
Geometry				Performance	
Nominal OD	7.625 in.	**Wall Thickness**	0.375 in.	**Body Yield Strength**	1068 x1000 lb
Nominal Weight	29.70 lb/ft	**Plain End Weight**	29.06 lb/ft	**Min. Internal Yield Pressure**	11,070 psi
Drift	6.750 in.	**OD Tolerance**	API	**SMYS**	125,000 psi
Nominal ID	6.875 in.			**Collapse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

Connection Data

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

Notes

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


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

10,000 PSI Annular BOP Variance Request

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

1. Component and Preventer Compatibility Tables

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

12-1/4" Intermediate Hole Section 10M psi Requirement					
Component	**OD**	**Primary Preventer**	**RWP**	**Alternate Preventer(s)**	**RWP**
Drillpipe	5.000" or 4.500"	Annular	5M	Upper 3.5"-5.5" VBR Lower 3.5"-5.5" VBR	10M 10M
HWDP	5.000" or 4.500"	Annular	5M	Upper 3.5"-5.5" VBR Lower 3.5"-5.5" VBR	10M 10M
Jars	6.500"	Annular	5M	-	-
DCs and MWD tools	6.500"-8.000"	Annular	5M	-	-
Mud Motor	8.000"-9.625"	Annular	5M	-	-
Intermediate Casing	9.625"	Annular	5M	-	-
Open-Hole	-	Blind Rams	10M	-	-

8-3/4" Production Hole Section 10M psi Requirement					
Component	**OD**	**Primary Preventer**	**RWP**	**Alternate Preventer(s)**	**RWP**
Drillpipe	5.000" or 4.500"	Annular	5M	Upper 3.5"-5.5" VBR Lower 3.5"-5.5" VBR	10M 10M
HWDP	5.000" or 4.500"	Annular	5M	Upper 3.5"-5.5" VBR Lower 3.5"-5.5" VBR	10M 10M
Jars	6.500"	Annular	5M	-	-
DCs and MWD tools	6.500"-8.000"	Annular	5M	-	-
Mud Motor	6.750"-8.000"	Annular	5M	-	-
Production Casing	7"	Annular	5M	-	-
Open-Hole	-	Blind Rams	10M	-	-

6-1/8" Lateral Hole Section 10M psi Requirement					
Component	**OD**	**Primary Preventer**	**RWP**	**Alternate Preventer(s)**	**RWP**
Drillpipe	4.500"	Annular	5M	Upper 3.5"-5.5" VBR Lower 3.5"-5.5" VBR	10M 10M
HWDP	4.500"	Annular	5M	Upper 3.5"-5.5" VBR Lower 3.5"-5.5" VBR	10M 10M
DCs and MWD tools	4.750"-5.500"	Annular	5M	Upper 3.5"-5.5" VBR Lower 3.5"-5.5" VBR	10M 10M
Mud Motor	4.750"-5.500"	Annular	5M	Upper 3.5"-5.5" VBR Lower 3.5"-5.5" VBR	10M 10M
Production Casing	4.500"	Annular	5M	Upper 3.5"-5.5" VBR Upper 3.5"-5.5" VBR	10M 10M
Open-Hole	-	Blind Rams	10M	-	-

VBR = Variable Bore Ram

2. Well Control Procedures

Below are the minimal high-level tasks prescribed to assure a proper shut-in while drilling, tripping, running casing, pipe out of the hole (open hole), and moving the BHA through the BOPs. At least one well control drill will be performed weekly per crew to demonstrate compliance with the procedure and well control plan. The well control drill will be recorded in the daily drilling log. The type of drill will be determined by the ongoing operations, but reasonable attempts will be made to vary the type of drill conducted (pit, trip, open hole, choke, etc.). This well control plan will be available for review by rig personnel in the Mewbourne Oil Company drilling supervisor's office on location and on the rig floor. All BOP equipment will be tested as per Onshore O&G Order No. 2 with the exception of the 5000 psi annular which will be tested to 70% of its RWP.

General Procedure While Drilling

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

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

General Procedure While Tripping

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

General Procedure While Running Production Casing

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

General Procedure With No Pipe In Hole (Open Hole)

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

General Procedures While Pulling BHA Through Stack

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

ii. Pit gain
iii. Time

h. Regroup and identify forward plan

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

BLACK GOLD®

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WEB: www.gates.com/oilandgas

NEW CHOKE HOSE INSTALLED 02-10-2024

CERTIFICATE OF CONFORMANCE

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

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

SIGNATURE: F. OSPINOS

TITLE: QUALITY ASSURANCE

DATE: 1/25/2024

H3-15716

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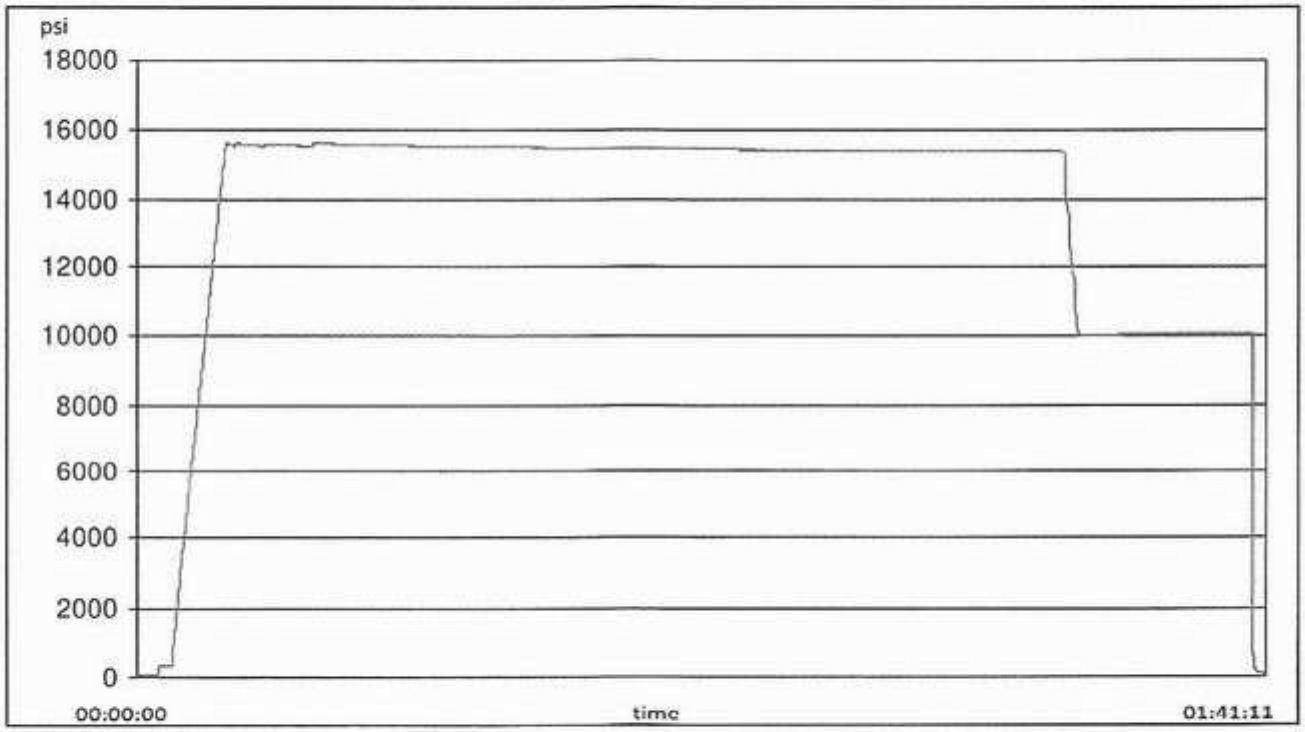
TEST REPORT

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



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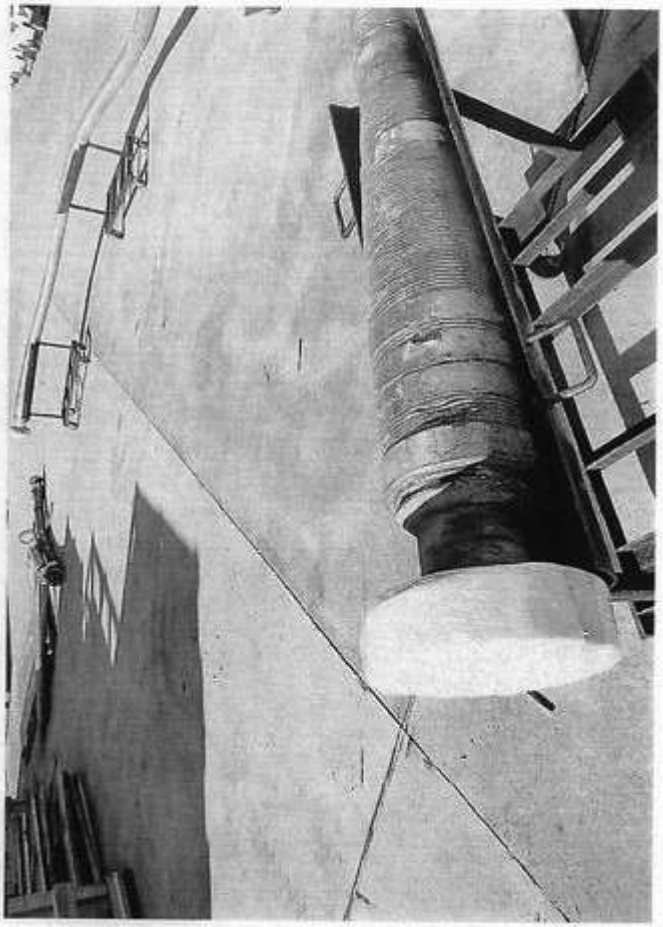
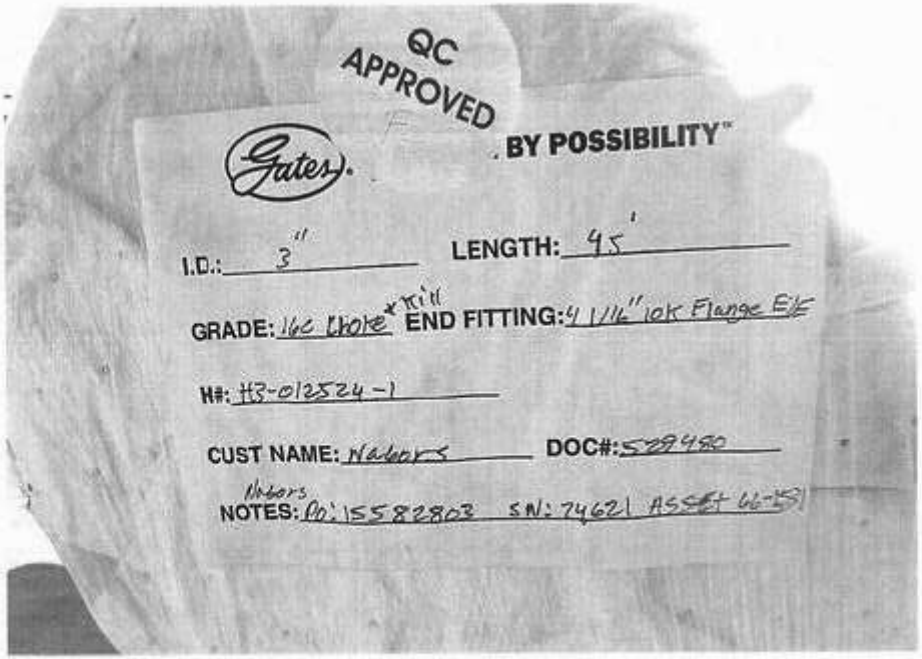
TEST REPORT

GAUGE TRACEABILITY

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

Comment





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.

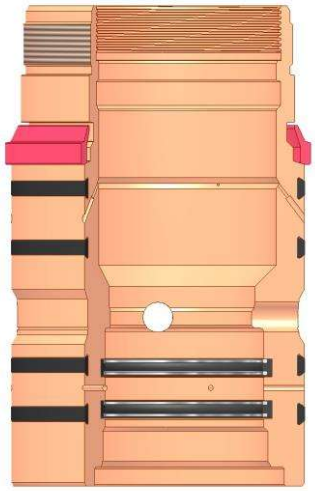
1. Cement Program

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

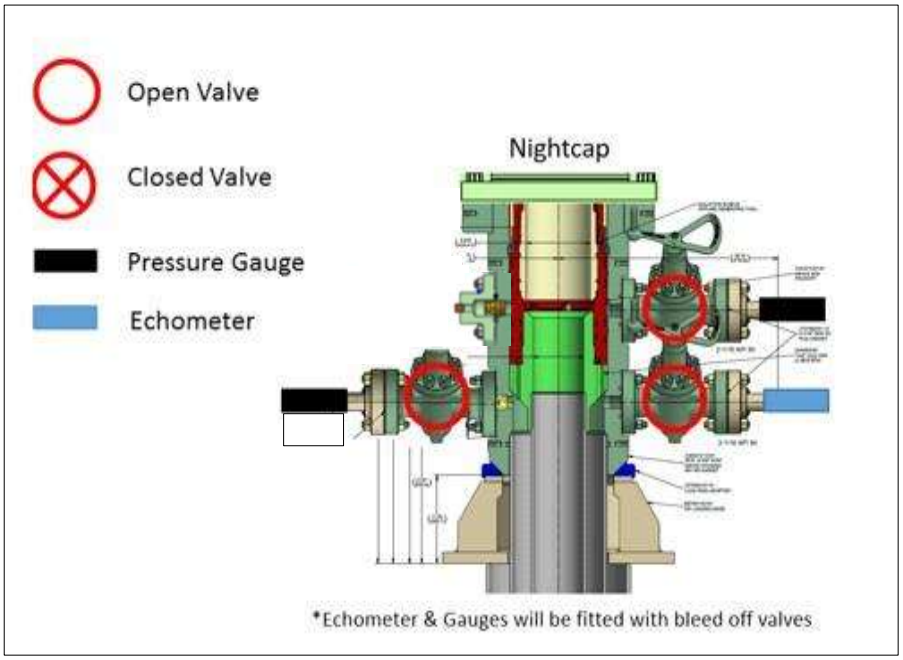
2. Offline Cementing Procedure

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.



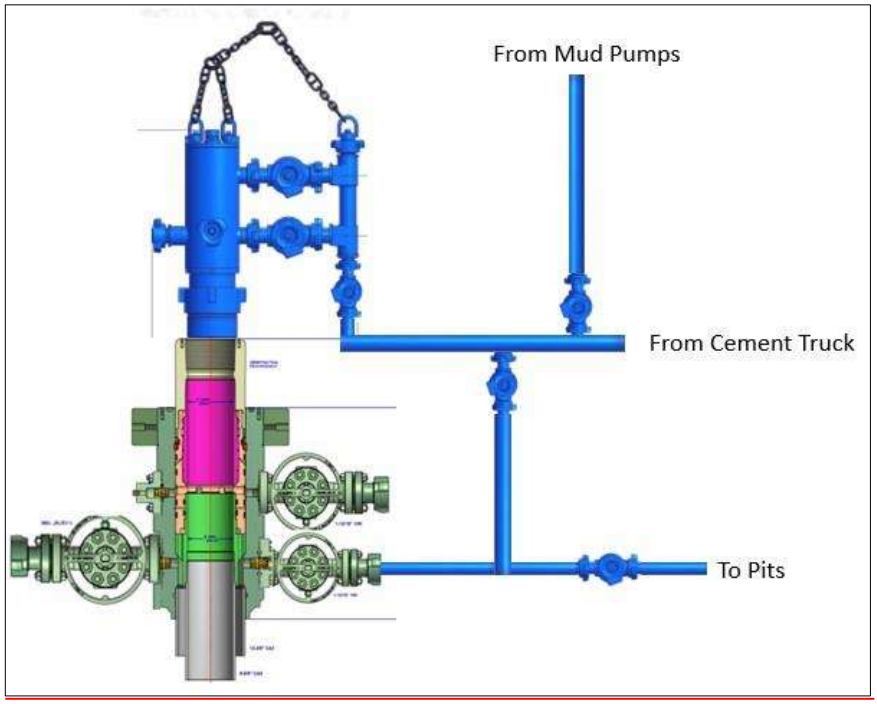
Annular packoff with both external and internal seals



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

Action 460589

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 460589
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Administrative order required for non-standard spacing unit prior to production.	5/29/2025
ward.rikala	Administrative order required for non-standard location prior to production.	5/29/2025
ward.rikala	Any previous COA's not addressed within the updated COA's still apply.	5/29/2025