

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

Well Name: POKER LAKE UNIT 20 BD	Well Location: T25S / R30E / SEC 20 / SWSE / 32.108598 / -103.901003	County or Parish/State: EDDY / NM
Well Number: 310H	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: 2844293

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 03/28/2025

Time Sundry Submitted: 01:24

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: 105' FSL & 1918' FEL OF SECTION 20-T25S-R30E 616' FSL & 995' FEL OF SECTION 20-T25S-R30E FTP: 100' FNL & 1525' FEL OF SECTION 29-T25S-R30E 100' FNL & 994' FEL OF SECTION 29-T25S-R30E LTP: 100' FSL & 1525' FEL OF SECTION 32-T25S-R30E 100' FSL & 971' FEL OF SECTION 32-T25S-R30E BHL: 50' FSL & 1525' FEL OF SECTION 32-T25S-R30E 50' FSL & 970' FEL OF SECTION 32-T25S-R30E The proposed total depth is changing from 20165' MD; 9330' TVD to 20519' MD; 9494' TVD. The pool is changing from WC-015 G-06 S243119C; Bone Spring (97975) to Corral Canyon; Bone Spring, South (13354). There is no new surface disturbance.

NOI Attachments

Procedure Description

POKER_LAKE_UNIT_20_BD_310H_Sundry_Docs_20250401124808.pdf

Well Name: POKER LAKE UNIT 20 BD**Well Location:** T25S / R30E / SEC 20 / SWSE / 32.108598 / -103.901003**County or Parish/State:** EDDY / NM**Well Number:** 310H**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_310H_COA_20250412102716.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:** APR 01, 2025 12:47 PM**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

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 <i>Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.</i>		5. Lease Serial No. NMLC064894
		6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2		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/310H
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	
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity	
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other	
	☒ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon		
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal		

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate 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 recompleation 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: 105 FSL & 1918 FEL OF SECTION 20-T25S-R30E 616 FSL & 995 FEL OF SECTION 20-T25S-R30E
FTP: 100' FNL & 1525' FEL OF SECTION 29-T25S-R30E 100' FNL & 994' FEL OF SECTION 29-T25S-R30E
LTP: 100' FSL & 1525' FEL OF SECTION 32-T25S-R30E 100' FSL & 971' FEL OF SECTION 32-T25S-R30E
BHL: 50' FSL & 1525' FEL OF SECTION 32-T25S-R30E 50' FSL & 970' FEL OF SECTION 32-T25S-R30E

The proposed total depth is changing from 20165 MD; 9330 TVD to 20519 MD; 9494 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 04/01/2025

THE SPACE FOR FEDERAL OR STATE OFFICE 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 of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Additional Information

Additional Remarks

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

There is no new surface disturbance.

Location of Well

0. SHL: SWSE / 105 FSL / 1918 FEL / TWSP: 25S / RANGE: 30E / SECTION: 20 / LAT: 32.108598 / LONG: -103.901003 (TVD: 0 feet, MD: 0 feet)

PPP: NWNE / 100 FNL / 1525 FEL / TWSP: 25S / RANGE: 30E / SECTION: 29 / LAT: 32.108598 / LONG: -103.899734 (TVD: 9330 feet, MD: 9700 feet)

BHL: SWSE / 50 FSL / 1525 FEL / TWSP: 25S / RANGE: 30E / SECTION: 32 / LAT: 32.079215 / LONG: -103.89981 (TVD: 9330 feet, MD: 20165 feet)

CONFIDENTIAL

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: XTO LEASE NO.: NMLC064894 LOCATION: Sec. 20, T.25 S, R 30 E COUNTY: Eddy County, New Mexico ▼
WELL NAME & NO.: Poker Lake Unit 20 BD 310H SURFACE HOLE FOOTAGE: 105'/S & 1918'/E BOTTOM HOLE FOOTAGE: 50'/S & 970'/E

Changes approved through engineering via **Sundry 2844293** on 4-12-2025. Any previous COAs not addressed within the updated COAs still apply.

COA

H ₂ S	☐ 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 **960** feet (a minimum of **70 feet (Eddy County)** into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be

- notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
- b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or **500 pounds compressive strength**, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The minimum required fill of cement behind the **7-5/8** inch intermediate casing is: Operator has proposed to cement in two stages by conventionally cementing the first stage and performing a bradenhead squeeze on the second stage, contingent upon no returns to surface.
- a. **First stage:** Operator will cement with intent to reach the top of the **Brushy Canyon at 6188'**.
 - 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](mailto: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.

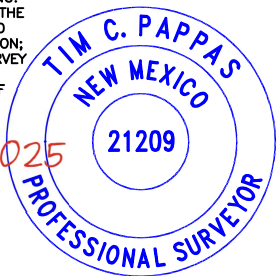
D. WASTE MATERIAL AND FLUIDS

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 30-015	Pool Code 13354	Pool Name Corral Canyon; Bone Spring, South							
Property Code	Property Name POKER LAKE UNIT 20 BD		Well Number 310H						
ORGID No. 373075	Operator Name XTO PERMIAN OPERATING, LLC.		Ground Level Elevation 3,178'						
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal		Mineral Owner: ☒ State ☐ Fee ☐ Tribal ☒ Federal							
Surface Location									
UL O	Section 20	Township 25 S	Range 30 E	Lot	Ft. from N/S 105' FSL	Ft. from E/W 1,918' FEL	Latitude 32.108598	Longitude -103.901003	County EDDY
Bottom Hole Location									
UL P	Section 32	Township 25 S	Range 30 E	Lot	Ft. from N/S 50' FSL	Ft. from E/W 970' FEL	Latitude 32.079221	Longitude -103.898020	County EDDY
Dedicated Acres 320	Infill or Defining Well INFILL	Defining Well API 30-015-42054	Overlapping Spacing Unit (Y/N) YES		Consolidation Code U				
Order Numbers.			Well setbacks are under Common Ownership: ☒ Yes ☐ No						
Kick Off Point (KOP)									
UL P	Section 20	Township 25 S	Range 30 E	Lot	Ft. from N/S 616' FSL	Ft. from E/W 995' FEL	Latitude 32.110024	Longitude -103.898018	County EDDY
First Take Point (FTP)									
UL A	Section 29	Township 25 S	Range 30 E	Lot	Ft. from N/S 100' FNL	Ft. from E/W 994' FEL	Latitude 32.108055	Longitude -103.898018	County EDDY
Last Take Point (LTP)									
UL P	Section 32	Township 25 S	Range 30 E	Lot	Ft. from N/S 100' FSL	Ft. from E/W 971' FEL	Latitude 32.079359	Longitude -103.898019	County EDDY
Unitized Area or Area of Uniform Interest NMNM-071016X		Spacing Unit Type ☒ Horizontal ☐ Vertical			Ground Floor Elevation: 3,178'				

OPERATOR CERTIFICATIONS <i>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.</i> <i>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.</i> <i>Samantha Weis</i> 4/1/2025	SURVEYOR CERTIFICATIONS <i>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> 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. <i>[Signature]</i> 31 March 2025 TIM C. PAPPAS REGISTERED PROFESSIONAL LAND SURVEYOR STATE OF NEW MEXICO NO. 21209 
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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

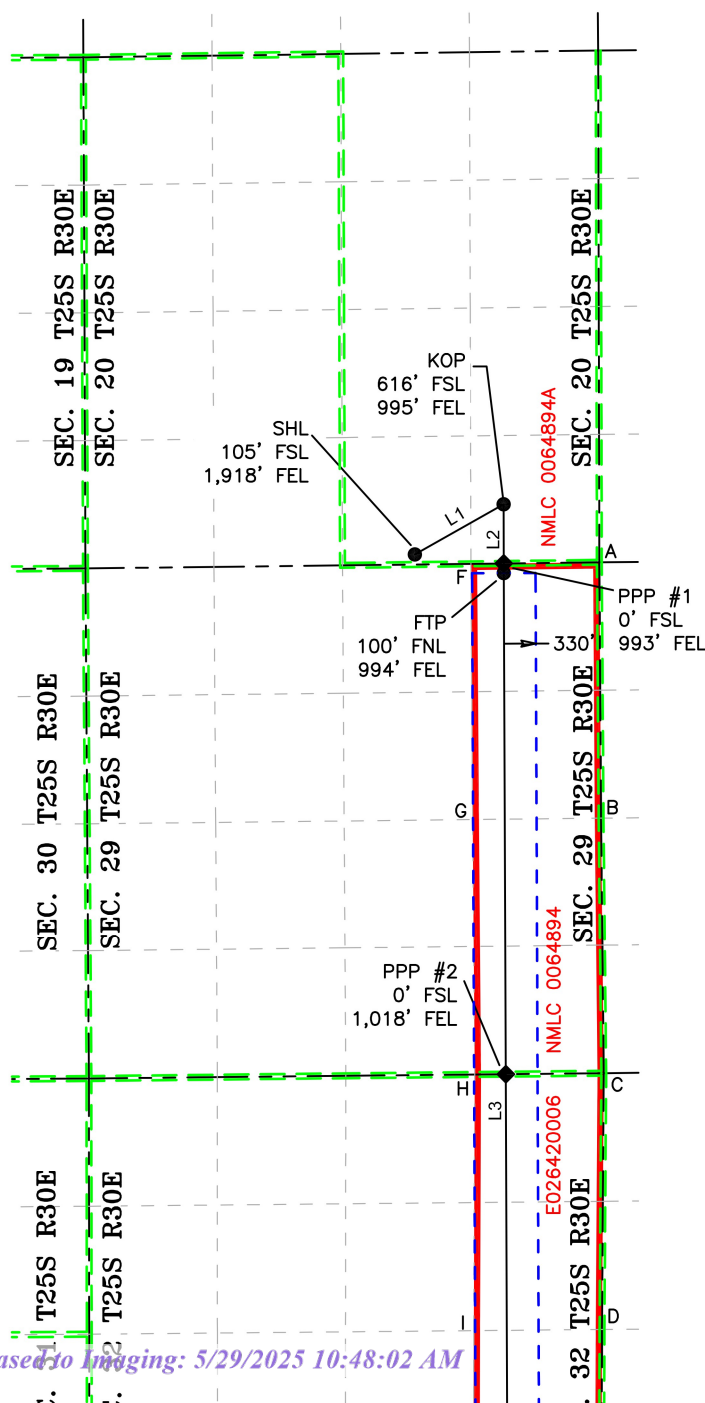
- SECTION LINE
 --- PROPOSED WELLBORE
 --- NEW MEXICO MINERAL LEASE LINE
 --- 330' BUFFER
 --- DEDICATED ACREAGE

LINE TABLE		
LINE	AZIMUTH	LENGTH
L1	60° 28'09"	1,059.84'
L2	179° 46'21"	716.23'
L3	179° 46'18"	10,489.12'

COORDINATE TABLE					
SHL (NAD 83 NME)			LTP (NAD 83 NME)		
Y =	403,512.7	N	Y =	392,879.9	N
X =	675,197.1	E	X =	676,163.9	E
LAT. =	32.108598	°N	LAT. =	32.079359	°N
LONG. =	103.901003	°W	LONG. =	103.898019	°W
KOP (NAD 83 NME)			BHL (NAD 83 NME)		
Y =	404,035.1	N	Y =	392,829.9	N
X =	676,119.3	E	X =	676,163.9	E
LAT. =	32.110024	°N	LAT. =	32.079221	°N
LONG. =	103.898018	°W	LONG. =	103.898020	°W
FTP (NAD 83 NME)					
Y =	403,318.9	N			
X =	676,122.1	E			
LAT. =	32.108055	°N			
LONG. =	103.898018	°W			
SHL (NAD 27 NME)			LTP (NAD 27 NME)		
Y =	403,454.4	N	Y =	392,821.9	N
X =	634,012.2	E	X =	634,978.6	E
LAT. =	32.108473	°N	LAT. =	32.079234	°N
LONG. =	103.900520	°W	LONG. =	103.897538	°W
KOP (NAD 27 NME)			BHL (NAD 27 NME)		
Y =	403,976.8	N	Y =	392,771.9	N
X =	634,934.4	E	X =	634,978.6	E
LAT. =	32.109899	°N	LAT. =	32.079096	°N
LONG. =	103.897535	°W	LONG. =	103.897538	°W
FTP (NAD 27 NME)					
Y =	403,260.6	N			
X =	634,937.2	E			
LAT. =	32.107930	°N			
LONG. =	103.897535	°W			
PPP #1 (NAD 83 NME)			PPP #1 (NAD 27 NME)		
Y =	403,418.9	N	Y =	403,360.6	N
X =	676,121.7	E	X =	634,936.8	E
LAT. =	32.108330	°N	LAT. =	32.108205	°N
LONG. =	103.898018	°W	LONG. =	103.897535	°W
PPP #2 (NAD 83 NME)			PPP #2 (NAD 27 NME)		
Y =	398,100.0	N	Y =	398,041.8	N
X =	676,143.0	E	X =	634,957.9	E
LAT. =	32.093708	°N	LAT. =	32.093583	°N
LONG. =	103.898019	°W	LONG. =	103.897536	°W

CORNER COORDINATES (NAD83 NME)					
A - Y =	403,430.7	N	A - X =	677,115.2	E
B - Y =	400,771.0	N	B - X =	677,133.6	E
C - Y =	398,110.2	N	C - X =	677,161.3	E
D - Y =	395,449.3	N	D - X =	677,143.4	E
E - Y =	392,787.6	N	E - X =	677,134.3	E
F - Y =	403,414.8	N	F - X =	675,779.8	E
G - Y =	400,756.1	N	G - X =	675,797.5	E
H - Y =	398,096.8	N	H - X =	675,820.0	E
I - Y =	395,436.9	N	I - X =	675,809.7	E
J - Y =	392,777.0	N	J - X =	675,803.8	E

CORNER COORDINATES (NAD27 NME)



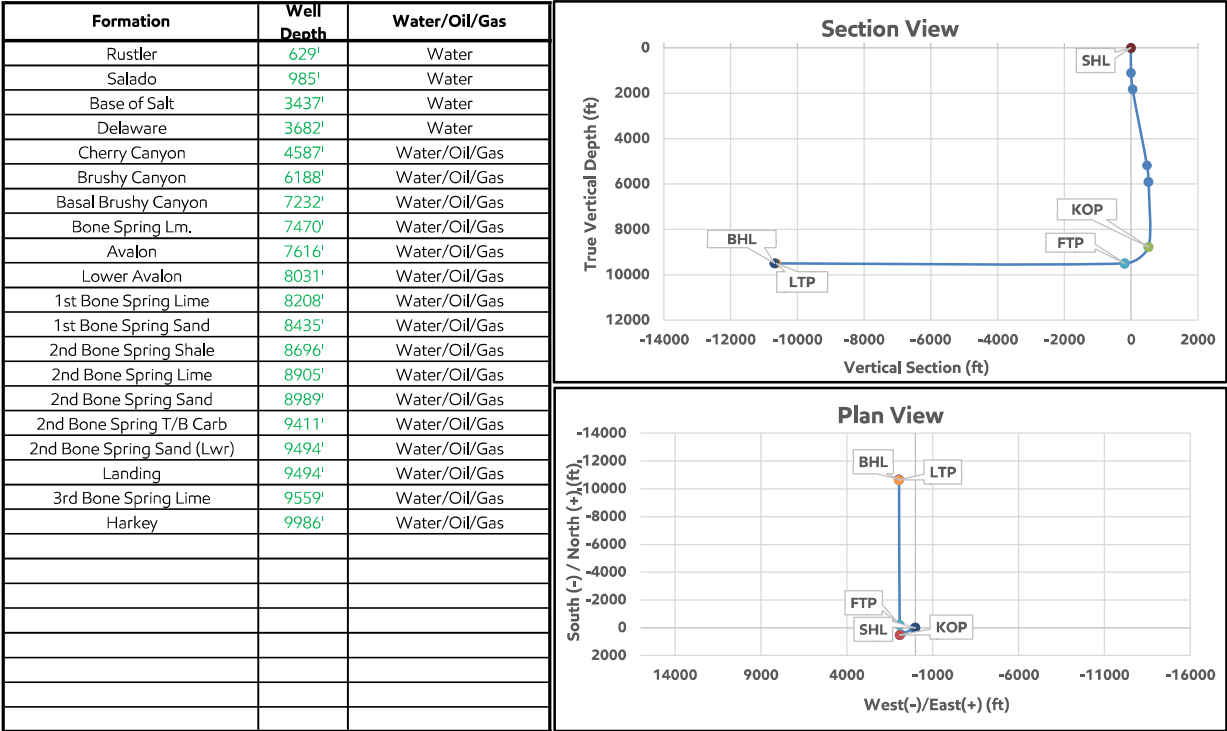
DRILLING PLAN: BLM COMPLIANCE
(Supplement to BLM 3160-3)

ExxonMobil
Poker Lake Unit 20BD - 310H
Projected TD: 20519' MD / 9494' TVD
SHL: 105' FSL & 1918' FEL , Section 20, T25S, R30E
BHL: 50' FSL & 970' FEL , Section 32, T25S, R30E
Eddy County, NM

1. Geologic Name of Surface Formation

A. Quaternary

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



	Indination (°)	Azimuth (°)	True Vertical Depth (ft)	Y Offset (ft)	X Offset (ft)
SHL	0	0	0	0	0
KOP	0	0	8778	522	922
LP	90	180	9494	-194	925
FTP	90	180	9494	-194	925
LTP	90	180	9494	-10633	966
BHL	90	180	9494	-10682	967

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 960' 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' – 960'	960'	9-5/8"	40	J55	BTC	New	13.41	12.36	5.27
8.75"	0' – 4000'	3922'	7-5/8"	29.7	P110-ICY	Tenaris Wedge 511	New	6.01	8.66	3.41
8.75"	4000' – 8756'	8628'	7-5/8"	29.7	L80-IC	Tenaris Wedge 511	New	3.33	5.89	2.46
6.75"	0' – 8656'	8528'	5-1/2"	20	P110-CY	TPN	New	1.18	3.00	2.49
6.75"	8656' – 20519'	9494'	5-1/2"	20	P110-IC	Tenaris Wedge 441	New	1.18	2.99	2.67

Section 3 Summary:

XTO will keep casing fluid filled to meet BLM's collapse requirement.
The planned kick off point is located at: 8906' MD / 8778' 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	196	12.4	2.11	0	960	100%	
Surface 1	Tail	141	14.8	1.33	660	960	100%	
Intermediate 1	Lead							
Intermediate 1	Tail	240	14.8	1.45	6188	8,756	0%	
Production 1	Lead							
Production 1	Tail	2689	13.2	1.44	8256	20,519	25%	
Remedial Cementing								
Casing	Slurry Type	No. Sacks	Density (ppg)	Yield (ft3/sack)	Cemented Interval	Excess (%)	Slurry Description	
Intermediate 1	Bradenhead Squeeze	643	14.8	1.45	0 – 6188'	50%	Intermediate Class C Bradenhead Squeeze Cement	

Section 4 Summary:

*Bradenhead Squeeze 2nd Stage Offline

5. Pressure Control Equipment

Section 5 Summary:

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

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

Requested Variances

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

5A) Break Test Variance
A break testing variance is requested to ONLY test broken pressure seals on the BOP equipment when moving from wellhead to wellhead for the intermediate hole sections which is in compliance with API Standard 53. The maximum anticipated surface pressure at the deepest intermediate casing point is less than 4800psi.

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

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

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

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

6. Proposed Mud Circulation System

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

0' – 960'	12.25"	FW/Native	8.3 – 8.7	35–40	NC	Fresh Water or Native Water
960' – 8756'	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.
8756' – 20519'	6.75"	OBM	9 – 9.6	50–60	NC – 20	OBM or Cut Brine depending on Well Conditions

Section 6 Summary:

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

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

7. Auxiliary Well Control and Monitoring Equipment**Section 7 Summary:**

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

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

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

8. Logging, Coring and Testing Program**Section 8 Summary:**

Open hole logging will not be done on this well.

9. Abnormal Pressures and Temperatures / Potential Hazards**Section 9 Summary:**

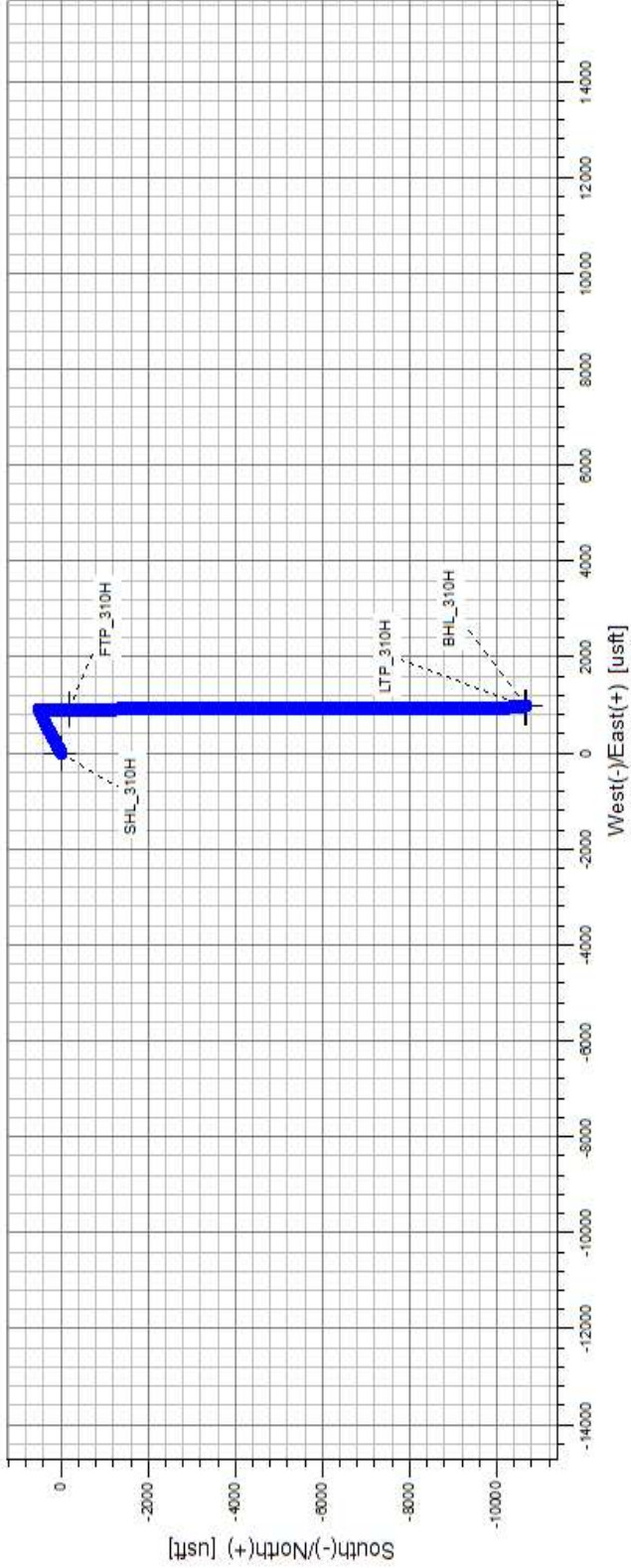
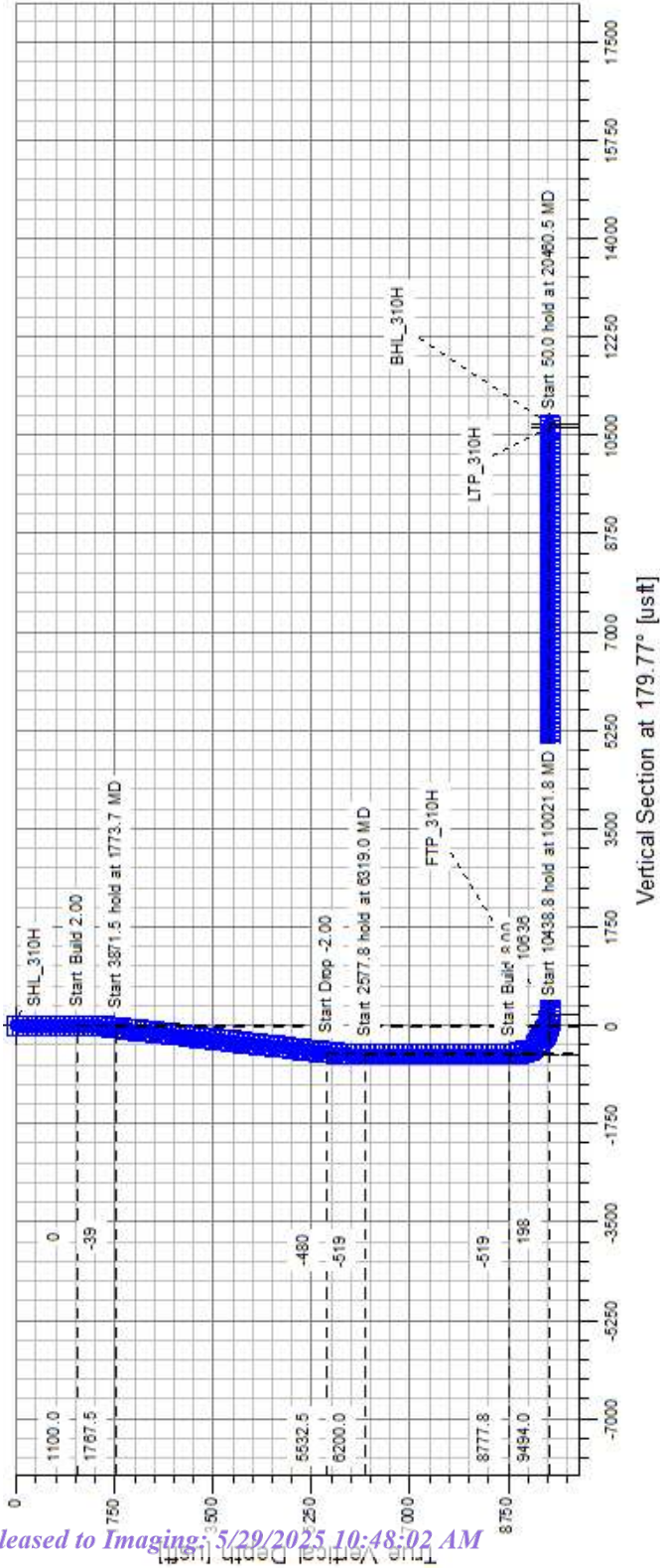
The estimated bottom hole temperature of 160F to 180F. No H2S is expected but monitors will be in place to detect any H2S occurrences. Should these circumstances be encountered the operator and drilling contractor are prepared to take all necessary steps to ensure safety of all personnel and environment. 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.

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

Poker Lake Unit 20 BD 310H



Well Plan Report - Poker Lake Unit 20 BD 310H

Measured Depth:	20519.47 ft	Site:	B
TVD RKB:	9494.00 ft		Poker Lake Unit 20 BD 310H
Location		Slot:	
Cartographic Reference System:	New Mexico East - NAD 27		
Northing:	403454.40 ft		
Easting:	634012.20 ft		
RKB:	3210.00 ft		
Ground Level:	3178.00 ft		
North Reference:	Grid		
Convergence Angle:	0.23 Deg		

Plan Sections

Measured				Poker Lake Unit 20 BD 310H				TVD			
Depth	(ft)	Inclination	(Deg)	Azimuth	(Deg)	RKB	(ft)	Y Offset	(ft)	X Offset	(ft)
0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1100.00		0.00	0.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	0.00
1830.58		14.61	60.47	60.47	1822.69	1822.69	45.67	80.62	841.54	922.16	922.16
5297.33		14.61	60.47	60.47	5177.31	5177.31	476.72	841.54	922.16	922.16	922.16
6027.91		0.00	0.00	0.00	5900.00	5900.00	522.39	922.16	922.16	922.16	922.16
8905.71		0.00	0.00	0.00	8777.80	8777.80	522.39	922.16	922.16	922.16	922.16
10030.71		90.00	179.77	179.77	9494.00	9494.00	-193.80	925.00	966.40	966.40	966.40
20469.49		90.00	179.77	179.77	9494.00	9494.00	-10632.50	966.40	966.40	966.40	966.40
20519.47		90.00	179.77	179.77	9494.00	9494.00	-10682.48	966.40	966.40	966.40	966.40

Build				Turn				Dogleg			
Rate	(Deg/100ft)	Rate	(Deg/100ft)	Rate	(Deg/100ft)	Rate	(Deg/100ft)	Rate	(Deg/100ft)	Rate	(Deg/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	2.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-2.00	-2.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	2.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8.00	8.00	0.00	0.00	0.00	0.00	0.00	0.00	8.00	8.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Position Uncertainty

Poker Lake Unit 20 BD 310H

Magnitude	Semi-major	Semi-minor	Tool
-----------	------------	------------	------

0.00	0.00	0.00	0.00
------	------	------	------

Depth (ft)	Inclination (°)	Azimuth (°)	RKB (ft)	Error (ft)	Bias (ft)	Error (ft)	Bias (ft)	Error (ft)	Bias (ft)	Error (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	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	0.000	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	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	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	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	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	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	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	2.483	0.000	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	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	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	0.000	4.752	3.849	128.859	MWD+IFR1+MS
1200.000	2.000	60.469	1199.980	5.178	0.000	4.335	0.000	2.686	0.000	0.000	0.000	5.245	4.256	134.931	MWD+IFR1+MS
1300.000	4.000	60.469	1299.838	5.933	0.000	4.719	0.000	2.746	0.000	0.000	0.000	5.950	4.709	-34.271	MWD+IFR1+MS
1400.000	6.000	60.469	1399.452	6.614	0.000	5.099	0.000	2.811	0.000	0.000	0.000	6.635	5.099	-28.790	MWD+IFR1+MS
1500.000	8.000	60.469	1498.702	7.242	0.000	5.479	0.000	2.883	0.000	0.000	0.000	7.284	5.469	-25.708	MWD+IFR1+MS
1600.000	10.000	60.469	1597.465	7.827	0.000	5.858	0.000	2.966	0.000	0.000	0.000	7.898	5.833	-23.778	MWD+IFR1+MS
1700.000	12.000	60.469	1695.623	8.378	0.000	6.237	0.000	3.060	0.000	0.000	0.000	8.481	6.197	-22.467	MWD+IFR1+MS
1800.000	14.000	60.469	1793.055	8.900	0.000	6.620	0.000	3.168	0.000	0.000	0.000	9.039	6.563	-21.518	MWD+IFR1+MS
1830.580	14.612	60.469	1822.686	8.974	0.000	6.730	0.000	3.186	0.000	0.000	0.000	9.128	6.673	-21.532	MWD+IFR1+MS
1900.000	14.612	60.469	1889.862	9.161	0.000	6.983	0.000	3.242	0.000	0.000	0.000	9.310	6.929	-21.536	MWD+IFR1+MS
2000.000	14.612	60.469	1986.627	9.441	0.000	7.365	0.000	3.329	0.000	0.000	0.000	9.582	7.312	-21.310	MWD+IFR1+MS
2100.000	14.612	60.469	2083.393	9.734	0.000	7.757	0.000	3.421	0.000	0.000	0.000	9.868	7.702	-20.943	MWD+IFR1+MS
2200.000	14.612	60.469	2180.159	10.035	0.000	8.151	0.000	3.517	0.000	0.000	0.000	10.161	8.094	-20.577	MWD+IFR1+MS
2300.000	14.612	60.469	2276.925	10.343	0.000	8.545	0.000	3.616	0.000	0.000	0.000	10.460	8.488	-20.209	MWD+IFR1+MS
2400.000	14.612	60.469	2373.691	10.656	0.000	8.942	0.000	3.719	0.000	0.000	0.000	10.765	8.883	-19.839	MWD+IFR1+MS
2500.000	14.612	60.469	2470.456	10.976	0.000	9.339	0.000	3.824	0.000	0.000	0.000	11.075	9.279	-19.466	MWD+IFR1+MS
2600.000	14.612	60.469	2567.222	11.300	0.000	9.737	0.000	3.932	0.000	0.000	0.000	11.390	9.676	-19.089	MWD+IFR1+MS
2700.000	14.612	60.469	2663.988	11.630	0.000	10.136	0.000	4.042	0.000	0.000	0.000	11.710	10.074	-18.707	MWD+IFR1+MS
2800.000	14.612	60.469	2760.754	11.963	0.000	10.536	0.000	4.155	0.000	0.000	0.000	12.033	10.473	-18.318	MWD+IFR1+MS
2900.000	14.612	60.469	2857.520	12.301	0.000	10.937	0.000	4.271	0.000	0.000	0.000	12.361	10.873	-17.922	MWD+IFR1+MS

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3000.000	14.612	60.469	2954.286	12.643	0.000	11.338	0.000	4.388	0.000	0.000	12.692	11.273	-17.516	MWD+IFR1+MS
3100.000	14.612	60.469	3051.051	12.987	0.000	11.740	0.000	4.507	0.000	0.000	13.026	11.674	-17.099	MWD+IFR1+MS
3200.000	14.612	60.469	3147.817	13.335	0.000	12.142	0.000	4.629	0.000	0.000	13.363	12.075	-16.669	MWD+IFR1+MS
3300.000	14.612	60.469	3244.583	13.686	0.000	12.544	0.000	4.752	0.000	0.000	13.703	12.476	-16.224	MWD+IFR1+MS
3400.000	14.612	60.469	3341.349	14.040	0.000	12.947	0.000	4.877	0.000	0.000	14.046	12.878	-15.762	MWD+IFR1+MS
3500.000	14.612	60.469	3438.115	14.396	0.000	13.351	0.000	5.004	0.000	0.000	14.391	13.281	-15.281	MWD+IFR1+MS
3600.000	14.612	60.469	3534.880	14.754	0.000	13.754	0.000	5.133	0.000	0.000	14.738	13.684	-14.777	MWD+IFR1+MS
3700.000	14.612	60.469	3631.646	15.114	0.000	14.158	0.000	5.263	0.000	0.000	15.088	14.087	-14.247	MWD+IFR1+MS
3800.000	14.612	60.469	3728.412	15.476	0.000	14.563	0.000	5.396	0.000	0.000	15.439	14.490	-13.689	MWD+IFR1+MS
3900.000	14.612	60.469	3825.178	15.841	0.000	14.967	0.000	5.529	0.000	0.000	15.793	14.893	-13.096	MWD+IFR1+MS
4000.000	14.612	60.469	3921.944	16.207	0.000	15.372	0.000	5.665	0.000	0.000	16.148	15.297	-12.465	MWD+IFR1+MS
4100.000	14.612	60.469	4018.710	16.574	0.000	15.777	0.000	5.802	0.000	0.000	16.505	15.701	-11.790	MWD+IFR1+MS
4200.000	14.612	60.469	4115.475	16.943	0.000	16.182	0.000	5.940	0.000	0.000	16.863	16.104	-11.064	MWD+IFR1+MS
4300.000	14.612	60.469	4212.241	17.314	0.000	16.588	0.000	6.081	0.000	0.000	17.223	16.508	-10.279	MWD+IFR1+MS
4400.000	14.612	60.469	4309.007	17.685	0.000	16.993	0.000	6.223	0.000	0.000	17.584	16.912	-9.426	MWD+IFR1+MS
4500.000	14.612	60.469	4405.773	18.058	0.000	17.399	0.000	6.366	0.000	0.000	17.947	17.316	-8.495	MWD+IFR1+MS
4600.000	14.612	60.469	4502.539	18.433	0.000	17.805	0.000	6.511	0.000	0.000	18.312	17.720	-7.472	MWD+IFR1+MS
4700.000	14.612	60.469	4599.304	18.808	0.000	18.211	0.000	6.657	0.000	0.000	18.677	18.124	-6.342	MWD+IFR1+MS
4800.000	14.612	60.469	4696.070	19.184	0.000	18.617	0.000	6.806	0.000	0.000	19.044	18.527	-5.089	MWD+IFR1+MS
4900.000	14.612	60.469	4792.836	19.561	0.000	19.023	0.000	6.955	0.000	0.000	19.412	18.930	-3.690	MWD+IFR1+MS
5000.000	14.612	60.469	4889.602	19.940	0.000	19.429	0.000	7.107	0.000	0.000	19.782	19.333	-2.123	MWD+IFR1+MS
5100.000	14.612	60.469	4986.368	20.319	0.000	19.836	0.000	7.260	0.000	0.000	20.153	19.736	-0.361	MWD+IFR1+MS
5200.000	14.612	60.469	5083.133	20.698	0.000	20.242	0.000	7.414	0.000	0.000	20.526	20.137	1.626	MWD+IFR1+MS
5297.328	14.612	60.469	5177.314	21.068	0.000	20.638	0.000	7.566	0.000	0.000	20.890	20.528	3.773	MWD+IFR1+MS
5300.000	14.558	60.469	5179.900	21.080	0.000	20.648	0.000	7.571	0.000	0.000	20.899	20.538	3.822	MWD+IFR1+MS
5400.000	12.558	60.469	5277.108	21.515	0.000	21.043	0.000	7.731	0.000	0.000	21.287	20.936	3.803	MWD+IFR1+MS
5500.000	10.558	60.469	5375.075	22.009	0.000	21.432	0.000	7.897	0.000	0.000	21.755	21.332	-0.429	MWD+IFR1+MS
5600.000	8.558	60.469	5473.682	22.467	0.000	21.811	0.000	8.052	0.000	0.000	22.218	21.713	-3.529	MWD+IFR1+MS
5700.000	6.558	60.469	5572.808	22.888	0.000	22.178	0.000	8.198	0.000	0.000	22.675	22.081	-5.827	MWD+IFR1+MS
5800.000	4.558	60.469	5672.333	23.273	0.000	22.534	0.000	8.336	0.000	0.000	23.123	22.436	-7.555	MWD+IFR1+MS
5900.000	2.558	60.469	5772.135	23.620	0.000	22.879	0.000	8.468	0.000	0.000	23.562	22.780	-8.869	MWD+IFR1+MS
6000.000	0.558	60.469	5872.093	23.931	0.000	23.214	0.000	8.594	0.000	0.000	23.992	23.113	-9.874	MWD+IFR1+MS
6027.908	0.000	0.000	5900.000	23.230	0.000	24.053	0.000	8.629	0.000	0.000	24.079	23.204	-9.951	MWD+IFR1+MS

6100.000	0.000	0.000	5972.092	23.467	0.000	24.270	0.000	8.718	0.000	0.000	24.296	23.441	-10.068	MWD+IFR1+MS
6200.000	0.000	0.000	6072.092	23.798	0.000	24.577	0.000	8.844	0.000	0.000	24.604	23.770	-10.398	MWD+IFR1+MS
6300.000	0.000	0.000	6172.092	24.132	0.000	24.887	0.000	8.972	0.000	0.000	24.915	24.102	-10.862	MWD+IFR1+MS
6400.000	0.000	0.000	6272.092	24.466	0.000	25.198	0.000	9.103	0.000	0.000	25.228	24.435	-11.337	MWD+IFR1+MS
6500.000	0.000	0.000	6372.092	24.801	0.000	25.510	0.000	9.237	0.000	0.000	25.542	24.768	-11.822	MWD+IFR1+MS
6600.000	0.000	0.000	6472.092	25.136	0.000	25.824	0.000	9.374	0.000	0.000	25.858	25.101	-12.318	MWD+IFR1+MS
6700.000	0.000	0.000	6572.092	25.472	0.000	26.139	0.000	9.513	0.000	0.000	26.175	25.435	-12.825	MWD+IFR1+MS
6800.000	0.000	0.000	6672.092	25.809	0.000	26.455	0.000	9.656	0.000	0.000	26.493	25.770	-13.343	MWD+IFR1+MS
6900.000	0.000	0.000	6772.092	26.146	0.000	26.772	0.000	9.801	0.000	0.000	26.812	26.105	-13.871	MWD+IFR1+MS
7000.000	0.000	0.000	6872.092	26.484	0.000	27.090	0.000	9.948	0.000	0.000	27.132	26.441	-14.409	MWD+IFR1+MS
7100.000	0.000	0.000	6972.092	26.823	0.000	27.409	0.000	10.099	0.000	0.000	27.453	26.777	-14.959	MWD+IFR1+MS
7200.000	0.000	0.000	7072.092	27.161	0.000	27.729	0.000	10.253	0.000	0.000	27.775	27.114	-15.518	MWD+IFR1+MS
7300.000	0.000	0.000	7172.092	27.501	0.000	28.049	0.000	10.409	0.000	0.000	28.099	27.451	-16.088	MWD+IFR1+MS
7400.000	0.000	0.000	7272.092	27.841	0.000	28.371	0.000	10.568	0.000	0.000	28.423	27.788	-16.669	MWD+IFR1+MS
7500.000	0.000	0.000	7372.092	28.181	0.000	28.694	0.000	10.731	0.000	0.000	28.748	28.126	-17.259	MWD+IFR1+MS
7600.000	0.000	0.000	7472.092	28.522	0.000	29.017	0.000	10.896	0.000	0.000	29.074	28.464	-17.859	MWD+IFR1+MS
7700.000	0.000	0.000	7572.092	28.863	0.000	29.342	0.000	11.064	0.000	0.000	29.401	28.803	-18.468	MWD+IFR1+MS
7800.000	0.000	0.000	7672.092	29.205	0.000	29.667	0.000	11.235	0.000	0.000	29.729	29.141	-19.087	MWD+IFR1+MS
7900.000	0.000	0.000	7772.092	29.547	0.000	29.993	0.000	11.410	0.000	0.000	30.058	29.481	-19.714	MWD+IFR1+MS
8000.000	0.000	0.000	7872.092	29.889	0.000	30.319	0.000	11.587	0.000	0.000	30.387	29.820	-20.349	MWD+IFR1+MS
8100.000	0.000	0.000	7972.092	30.232	0.000	30.647	0.000	11.767	0.000	0.000	30.718	30.160	-20.992	MWD+IFR1+MS
8200.000	0.000	0.000	8072.092	30.575	0.000	30.975	0.000	11.950	0.000	0.000	31.049	30.500	-21.642	MWD+IFR1+MS
8300.000	0.000	0.000	8172.092	30.919	0.000	31.303	0.000	12.136	0.000	0.000	31.381	30.840	-22.299	MWD+IFR1+MS
8400.000	0.000	0.000	8272.092	31.263	0.000	31.633	0.000	12.326	0.000	0.000	31.713	31.181	-22.963	MWD+IFR1+MS
8500.000	0.000	0.000	8372.092	31.607	0.000	31.963	0.000	12.518	0.000	0.000	32.046	31.522	-23.631	MWD+IFR1+MS
8600.000	0.000	0.000	8472.092	31.951	0.000	32.293	0.000	12.713	0.000	0.000	32.380	31.863	-24.305	MWD+IFR1+MS
8700.000	0.000	0.000	8572.092	32.296	0.000	32.624	0.000	12.912	0.000	0.000	32.715	32.204	-24.982	MWD+IFR1+MS
8800.000	0.000	0.000	8672.092	32.641	0.000	32.956	0.000	13.114	0.000	0.000	33.050	32.546	-25.663	MWD+IFR1+MS
8905.710	0.000	0.000	8777.803	33.007	0.000	33.308	0.000	13.330	0.000	0.000	33.406	32.907	-26.433	MWD+IFR1+MS
9000.000	7.543	179.773	8871.820	33.047	0.000	33.601	-0.000	13.533	0.000	0.000	33.754	33.365	-39.191	MWD+IFR1+MS
9100.000	15.543	179.773	8969.718	33.542	0.000	33.887	-0.000	13.849	0.000	0.000	34.994	33.828	102.723	MWD+IFR1+MS
9200.000	23.543	179.773	9063.881	33.586	0.000	34.155	-0.000	14.375	0.000	0.000	36.298	34.107	98.161	MWD+IFR1+MS
9300.000	31.543	179.773	9152.475	33.163	0.000	34.402	-0.000	15.171	0.000	0.000	37.421	34.354	96.790	MWD+IFR1+MS

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9400.000	39.543	179.773	9233.777	32.352	0.000	34.627	-0.000	16.262	0.000	0.000	38.343	34.576	96.263	MWD+IFR1+MS
9500.000	47.543	179.773	9306.203	31.258	0.000	34.830	-0.000	17.627	0.000	0.000	39.061	34.775	96.125	MWD+IFR1+MS
9600.000	55.543	179.773	9368.345	30.013	0.000	35.012	-0.000	19.219	0.000	0.000	39.586	34.950	96.237	MWD+IFR1+MS
9700.000	63.543	179.773	9418.993	28.780	0.000	35.174	-0.000	20.975	0.000	0.000	39.937	35.102	96.544	MWD+IFR1+MS
9800.000	71.543	179.773	9457.161	27.745	0.000	35.316	-0.000	22.826	0.000	0.000	40.144	35.232	97.022	MWD+IFR1+MS
9900.000	79.543	179.773	9482.105	27.099	0.000	35.437	-0.000	24.705	0.000	0.000	40.243	35.339	97.642	MWD+IFR1+MS
10000.000	87.543	179.773	9493.342	27.006	0.000	35.538	-0.000	26.553	0.000	0.000	40.280	35.423	98.356	MWD+IFR1+MS
10030.710	90.000	179.773	9494.000	26.675	0.000	35.562	-0.000	26.675	0.000	0.000	40.286	35.441	98.571	MWD+IFR1+MS
10100.000	90.000	179.773	9494.000	26.835	0.000	35.621	-0.000	26.835	0.000	0.000	40.301	35.487	99.082	MWD+IFR1+MS
10200.000	90.000	179.773	9494.000	27.053	0.000	35.729	-0.000	27.053	0.000	0.000	40.323	35.573	99.874	MWD+IFR1+MS
10300.000	90.000	179.773	9494.000	27.294	0.000	35.860	-0.000	27.294	0.000	0.000	40.349	35.680	100.734	MWD+IFR1+MS
10400.000	90.000	179.773	9494.000	27.555	0.000	36.011	-0.000	27.555	0.000	0.000	40.377	35.805	101.670	MWD+IFR1+MS
10500.000	90.000	179.773	9494.000	27.836	0.000	36.184	-0.000	27.836	0.000	0.000	40.410	35.948	102.695	MWD+IFR1+MS
10600.000	90.000	179.773	9494.000	28.136	0.000	36.377	-0.000	28.136	0.000	0.000	40.447	36.106	103.828	MWD+IFR1+MS
10700.000	90.000	179.773	9494.000	28.455	0.000	36.590	-0.000	28.455	0.000	0.000	40.489	36.281	105.085	MWD+IFR1+MS
10800.000	90.000	179.773	9494.000	28.791	0.000	36.823	-0.000	28.791	0.000	0.000	40.538	36.469	106.488	MWD+IFR1+MS
10900.000	90.000	179.773	9494.000	29.145	0.000	37.075	-0.000	29.145	0.000	0.000	40.593	36.671	108.063	MWD+IFR1+MS
11000.000	90.000	179.773	9494.000	29.515	0.000	37.347	-0.000	29.515	0.000	0.000	40.658	36.883	109.837	MWD+IFR1+MS
11100.000	90.000	179.773	9494.000	29.902	0.000	37.637	-0.000	29.902	0.000	0.000	40.732	37.104	111.840	MWD+IFR1+MS
11200.000	90.000	179.773	9494.000	30.303	0.000	37.946	-0.000	30.303	0.000	0.000	40.819	37.331	114.102	MWD+IFR1+MS
11300.000	90.000	179.773	9494.000	30.720	0.000	38.272	-0.000	30.720	0.000	0.000	40.922	37.561	116.647	MWD+IFR1+MS
11400.000	90.000	179.773	9494.000	31.150	0.000	38.615	-0.000	31.150	0.000	0.000	41.043	37.791	119.491	MWD+IFR1+MS
11500.000	90.000	179.773	9494.000	31.595	0.000	38.976	-0.000	31.595	0.000	0.000	41.185	38.016	122.629	MWD+IFR1+MS
11600.000	90.000	179.773	9494.000	32.052	0.000	39.353	-0.000	32.052	0.000	0.000	41.353	38.234	126.030	MWD+IFR1+MS
11700.000	90.000	179.773	9494.000	32.522	0.000	39.745	-0.000	32.522	0.000	0.000	41.549	38.439	129.628	MWD+IFR1+MS
11800.000	90.000	179.773	9494.000	33.004	0.000	40.154	-0.000	33.004	0.000	0.000	41.776	38.628	133.325	MWD+IFR1+MS
11900.000	90.000	179.773	9494.000	33.497	0.000	40.577	-0.000	33.497	0.000	0.000	42.037	38.801	-42.993	MWD+IFR1+MS
12000.000	90.000	179.773	9494.000	34.001	0.000	41.015	-0.000	34.001	0.000	0.000	42.331	38.955	-39.441	MWD+IFR1+MS
12100.000	90.000	179.773	9494.000	34.516	0.000	41.467	-0.000	34.516	0.000	0.000	42.657	39.091	-36.109	MWD+IFR1+MS
12200.000	90.000	179.773	9494.000	35.041	0.000	41.932	-0.000	35.041	0.000	0.000	43.014	39.211	-33.054	MWD+IFR1+MS
12300.000	90.000	179.773	9494.000	35.575	0.000	42.411	-0.000	35.575	0.000	0.000	43.399	39.316	-30.301	MWD+IFR1+MS
12400.000	90.000	179.773	9494.000	36.119	0.000	42.902	-0.000	36.119	0.000	0.000	43.810	39.409	-27.849	MWD+IFR1+MS
12500.000	90.000	179.773	9494.000	36.671	0.000	43.406	-0.000	36.671	0.000	0.000	44.245	39.491	-25.680	MWD+IFR1+MS

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12600.000	90.000	179.773	9494.000	37.232	0.000	43.922	-0.000	37.232	0.000	0.000	44.701	39.565	-23.768	MWD+IFR1+MS
12700.000	90.000	179.773	9494.000	37.800	0.000	44.449	-0.000	37.800	0.000	0.000	45.176	39.631	-22.082	MWD+IFR1+MS
12800.000	90.000	179.773	9494.000	38.376	0.000	44.987	-0.000	38.376	0.000	0.000	45.669	39.691	-20.594	MWD+IFR1+MS
12900.000	90.000	179.773	9494.000	38.960	0.000	45.536	-0.000	38.960	0.000	0.000	46.178	39.746	-19.277	MWD+IFR1+MS
13000.000	90.000	179.773	9494.000	39.550	0.000	46.095	-0.000	39.550	0.000	0.000	46.702	39.797	-18.107	MWD+IFR1+MS
13100.000	90.000	179.773	9494.000	40.147	0.000	46.664	-0.000	40.147	0.000	0.000	47.239	39.845	-17.064	MWD+IFR1+MS
13200.000	90.000	179.773	9494.000	40.751	0.000	47.243	-0.000	40.751	0.000	0.000	47.790	39.890	-16.130	MWD+IFR1+MS
13300.000	90.000	179.773	9494.000	41.360	0.000	47.831	-0.000	41.360	0.000	0.000	48.353	39.932	-15.290	MWD+IFR1+MS
13400.000	90.000	179.773	9494.000	41.976	0.000	48.427	-0.000	41.976	0.000	0.000	48.926	39.973	-14.532	MWD+IFR1+MS
13500.000	90.000	179.773	9494.000	42.597	0.000	49.033	-0.000	42.597	0.000	0.000	49.511	40.013	-13.845	MWD+IFR1+MS
13600.000	90.000	179.773	9494.000	43.223	0.000	49.646	-0.000	43.223	0.000	0.000	50.105	40.051	-13.220	MWD+IFR1+MS
13700.000	90.000	179.773	9494.000	43.854	0.000	50.268	-0.000	43.854	0.000	0.000	50.710	40.089	-12.649	MWD+IFR1+MS
13800.000	90.000	179.773	9494.000	44.491	0.000	50.897	-0.000	44.491	0.000	0.000	51.323	40.125	-12.126	MWD+IFR1+MS
13900.000	90.000	179.773	9494.000	45.132	0.000	51.533	-0.000	45.132	0.000	0.000	51.944	40.161	-11.645	MWD+IFR1+MS
14000.000	90.000	179.773	9494.000	45.777	0.000	52.177	-0.000	45.777	0.000	0.000	52.574	40.196	-11.202	MWD+IFR1+MS
14100.000	90.000	179.773	9494.000	46.427	0.000	52.827	-0.000	46.427	0.000	0.000	53.212	40.231	-10.792	MWD+IFR1+MS
14200.000	90.000	179.773	9494.000	47.081	0.000	53.484	-0.000	47.081	0.000	0.000	53.857	40.266	-10.412	MWD+IFR1+MS
14300.000	90.000	179.773	9494.000	47.738	0.000	54.148	-0.000	47.738	0.000	0.000	54.509	40.300	-10.058	MWD+IFR1+MS
14400.000	90.000	179.773	9494.000	48.400	0.000	54.817	-0.000	48.400	0.000	0.000	55.168	40.334	-9.729	MWD+IFR1+MS
14500.000	90.000	179.773	9494.000	49.065	0.000	55.493	-0.000	49.065	0.000	0.000	55.834	40.369	-9.421	MWD+IFR1+MS
14600.000	90.000	179.773	9494.000	49.734	0.000	56.174	-0.000	49.734	0.000	0.000	56.506	40.403	-9.133	MWD+IFR1+MS
14700.000	90.000	179.773	9494.000	50.406	0.000	56.860	-0.000	50.406	0.000	0.000	57.183	40.437	-8.863	MWD+IFR1+MS
14800.000	90.000	179.773	9494.000	51.081	0.000	57.552	-0.000	51.081	0.000	0.000	57.867	40.471	-8.609	MWD+IFR1+MS
14900.000	90.000	179.773	9494.000	51.759	0.000	58.249	-0.000	51.759	0.000	0.000	58.556	40.506	-8.370	MWD+IFR1+MS
15000.000	90.000	179.773	9494.000	52.441	0.000	58.951	-0.000	52.441	0.000	0.000	59.251	40.540	-8.144	MWD+IFR1+MS
15100.000	90.000	179.773	9494.000	53.125	0.000	59.658	-0.000	53.125	0.000	0.000	59.950	40.575	-7.931	MWD+IFR1+MS
15200.000	90.000	179.773	9494.000	53.812	0.000	60.369	-0.000	53.812	0.000	0.000	60.655	40.610	-7.729	MWD+IFR1+MS
15300.000	90.000	179.773	9494.000	54.501	0.000	61.084	-0.000	54.501	0.000	0.000	61.364	40.646	-7.538	MWD+IFR1+MS
15400.000	90.000	179.773	9494.000	55.193	0.000	61.804	-0.000	55.193	0.000	0.000	62.078	40.681	-7.356	MWD+IFR1+MS
15500.000	90.000	179.773	9494.000	55.888	0.000	62.528	-0.000	55.888	0.000	0.000	62.796	40.717	-7.184	MWD+IFR1+MS
15600.000	90.000	179.773	9494.000	56.585	0.000	63.256	-0.000	56.585	0.000	0.000	63.518	40.753	-7.019	MWD+IFR1+MS
15700.000	90.000	179.773	9494.000	57.284	0.000	63.988	-0.000	57.284	0.000	0.000	64.245	40.789	-6.863	MWD+IFR1+MS
15800.000	90.000	179.773	9494.000	57.985	0.000	64.724	-0.000	57.985	0.000	0.000	64.975	40.826	-6.714	MWD+IFR1+MS

Well Plan Report

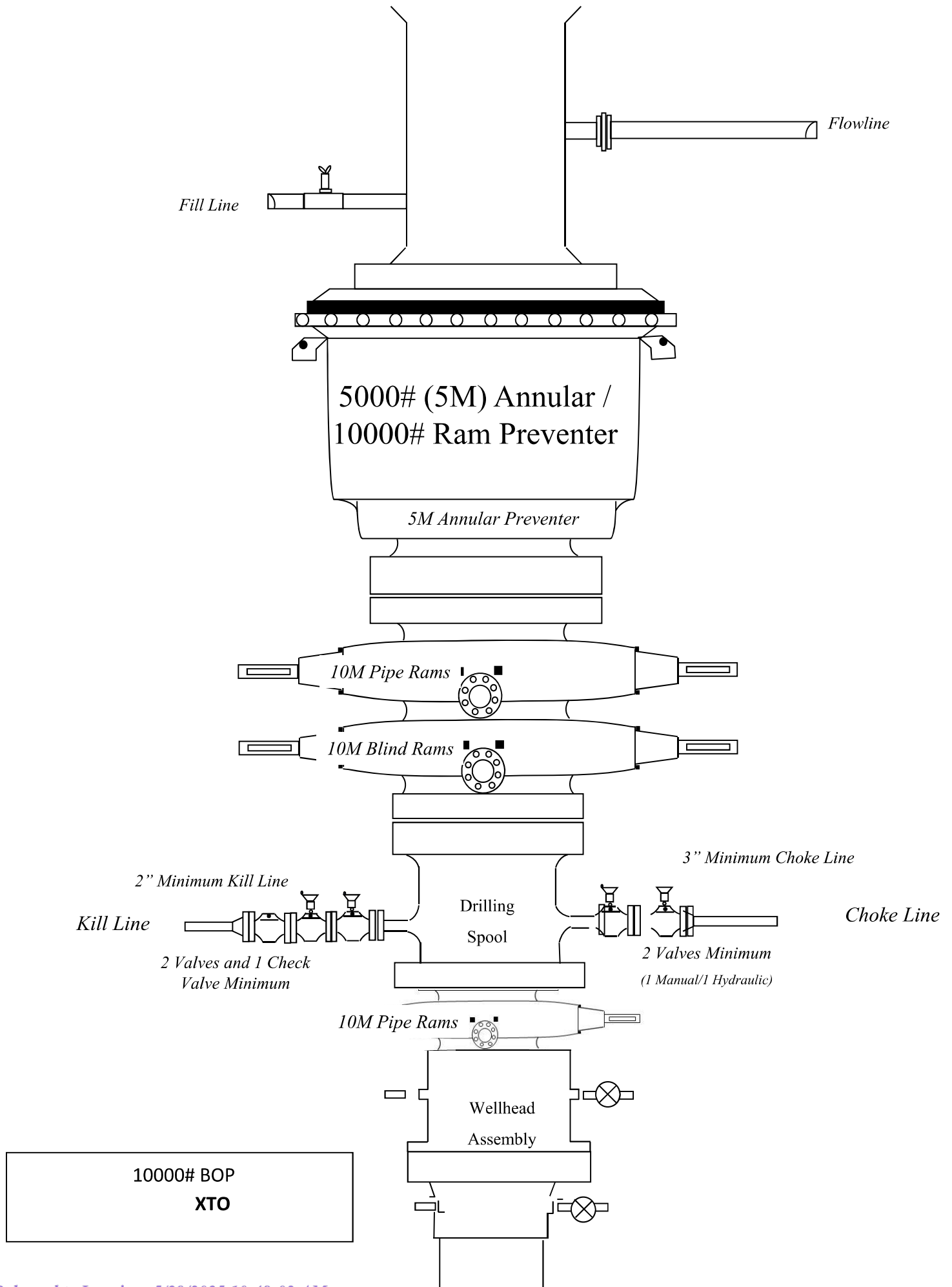
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15900.000	90.000	179.773	9494.000	59.394	0.000	66.205	-0.000	59.394	0.000	66.447	40.900	-6.435	MWD+IFR1+MS
16000.000	90.000	179.773	9494.000	60.102	0.000	66.951	-0.000	60.102	0.000	67.188	40.938	-6.305	MWD+IFR1+MS
16100.000	90.000	179.773	9494.000	60.811	0.000	67.700	-0.000	60.811	0.000	67.933	40.976	-6.180	MWD+IFR1+MS
16200.000	90.000	179.773	9494.000	61.522	0.000	68.453	-0.000	61.522	0.000	68.681	41.014	-6.060	MWD+IFR1+MS
16300.000	90.000	179.773	9494.000	62.235	0.000	69.208	-0.000	62.235	0.000	69.433	41.053	-5.945	MWD+IFR1+MS
16400.000	90.000	179.773	9494.000	62.950	0.000	69.966	-0.000	62.950	0.000	70.187	41.092	-5.835	MWD+IFR1+MS
16500.000	90.000	179.773	9494.000	63.666	0.000	70.727	-0.000	63.666	0.000	70.944	41.132	-5.729	MWD+IFR1+MS
16600.000	90.000	179.773	9494.000	64.384	0.000	71.491	-0.000	64.384	0.000	71.704	41.172	-5.627	MWD+IFR1+MS
16700.000	90.000	179.773	9494.000	65.104	0.000	72.258	-0.000	65.104	0.000	72.467	41.212	-5.529	MWD+IFR1+MS
16800.000	90.000	179.773	9494.000	65.825	0.000	73.027	-0.000	65.825	0.000	73.233	41.253	-5.434	MWD+IFR1+MS
16900.000	90.000	179.773	9494.000	66.547	0.000	73.798	-0.000	66.547	0.000	74.001	41.294	-5.343	MWD+IFR1+MS
17000.000	90.000	179.773	9494.000	67.271	0.000	74.572	-0.000	67.271	0.000	74.772	41.336	-5.255	MWD+IFR1+MS
17100.000	90.000	179.773	9494.000	67.996	0.000	75.349	-0.000	67.996	0.000	75.545	41.378	-5.170	MWD+IFR1+MS
17200.000	90.000	179.773	9494.000	68.723	0.000	76.127	-0.000	68.723	0.000	76.321	41.420	-5.088	MWD+IFR1+MS
17300.000	90.000	179.773	9494.000	69.450	0.000	76.908	-0.000	69.450	0.000	77.099	41.463	-5.009	MWD+IFR1+MS
17400.000	90.000	179.773	9494.000	70.179	0.000	77.691	-0.000	70.179	0.000	77.879	41.506	-4.932	MWD+IFR1+MS
17500.000	90.000	179.773	9494.000	70.910	0.000	78.476	-0.000	70.910	0.000	78.661	41.550	-4.858	MWD+IFR1+MS
17600.000	90.000	179.773	9494.000	71.641	0.000	79.263	-0.000	71.641	0.000	79.445	41.594	-4.786	MWD+IFR1+MS
17700.000	90.000	179.773	9494.000	72.373	0.000	80.052	-0.000	72.373	0.000	80.232	41.638	-4.716	MWD+IFR1+MS
17800.000	90.000	179.773	9494.000	73.107	0.000	80.843	-0.000	73.107	0.000	81.020	41.683	-4.649	MWD+IFR1+MS
17900.000	90.000	179.773	9494.000	73.841	0.000	81.636	-0.000	73.841	0.000	81.810	41.728	-4.583	MWD+IFR1+MS
18000.000	90.000	179.773	9494.000	74.577	0.000	82.430	-0.000	74.577	0.000	82.603	41.774	-4.520	MWD+IFR1+MS
18100.000	90.000	179.773	9494.000	75.314	0.000	83.226	-0.000	75.314	0.000	83.396	41.820	-4.458	MWD+IFR1+MS
18200.000	90.000	179.773	9494.000	76.051	0.000	84.024	-0.000	76.051	0.000	84.192	41.867	-4.398	MWD+IFR1+MS
18300.000	90.000	179.773	9494.000	76.790	0.000	84.824	-0.000	76.790	0.000	84.989	41.914	-4.340	MWD+IFR1+MS
18400.000	90.000	179.773	9494.000	77.529	0.000	85.625	-0.000	77.529	0.000	85.788	41.961	-4.283	MWD+IFR1+MS
18500.000	90.000	179.773	9494.000	78.269	0.000	86.428	-0.000	78.269	0.000	86.589	42.009	-4.229	MWD+IFR1+MS
18600.000	90.000	179.773	9494.000	79.011	0.000	87.232	-0.000	79.011	0.000	87.391	42.057	-4.175	MWD+IFR1+MS
18700.000	90.000	179.773	9494.000	79.752	0.000	88.038	-0.000	79.752	0.000	88.195	42.106	-4.123	MWD+IFR1+MS
18800.000	90.000	179.773	9494.000	80.495	0.000	88.845	-0.000	80.495	0.000	89.000	42.155	-4.072	MWD+IFR1+MS
18900.000	90.000	179.773	9494.000	81.239	0.000	89.653	-0.000	81.239	0.000	89.807	42.205	-4.023	MWD+IFR1+MS
19000.000	90.000	179.773	9494.000	81.983	0.000	90.463	-0.000	81.983	0.000	90.615	42.255	-3.975	MWD+IFR1+MS
19100.000	90.000	179.773	9494.000										

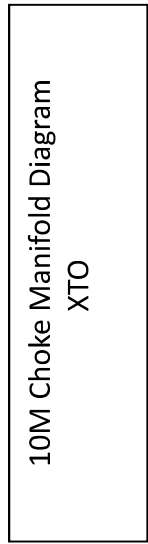
19200.000	90.000	179.773	9494.000	82.728	0.000	91.274	-0.000	82.728	0.000	0.000	91.424	42.305	-3.928	MWD+IFR1+MS
19300.000	90.000	179.773	9494.000	83.474	0.000	92.087	-0.000	83.474	0.000	0.000	92.235	42.356	-3.883	MWD+IFR1+MS
19400.000	90.000	179.773	9494.000	84.221	0.000	92.900	-0.000	84.221	0.000	0.000	93.047	42.408	-3.838	MWD+IFR1+MS
19500.000	90.000	179.773	9494.000	84.968	0.000	93.715	-0.000	84.968	0.000	0.000	93.860	42.459	-3.795	MWD+IFR1+MS
19600.000	90.000	179.773	9494.000	85.716	0.000	94.531	-0.000	85.716	0.000	0.000	94.674	42.511	-3.752	MWD+IFR1+MS
19700.000	90.000	179.773	9494.000	86.464	0.000	95.348	-0.000	86.464	0.000	0.000	95.490	42.564	-3.711	MWD+IFR1+MS
19800.000	90.000	179.773	9494.000	87.214	0.000	96.167	-0.000	87.214	0.000	0.000	96.306	42.617	-3.671	MWD+IFR1+MS
19900.000	90.000	179.773	9494.000	87.963	0.000	96.986	-0.000	87.963	0.000	0.000	97.124	42.670	-3.631	MWD+IFR1+MS
20000.000	90.000	179.773	9494.000	88.714	0.000	97.807	-0.000	88.714	0.000	0.000	97.943	42.724	-3.593	MWD+IFR1+MS
20100.000	90.000	179.773	9494.000	89.465	0.000	98.628	-0.000	89.465	0.000	0.000	98.763	42.778	-3.555	MWD+IFR1+MS
20200.000	90.000	179.773	9494.000	90.216	0.000	99.451	-0.000	90.216	0.000	0.000	99.584	42.833	-3.518	MWD+IFR1+MS
20300.000	90.000	179.773	9494.000	90.968	0.000	100.274	-0.000	90.968	0.000	0.000	100.407	42.888	-3.482	MWD+IFR1+MS
20400.000	90.000	179.773	9494.000	91.721	0.000	101.099	-0.000	91.721	0.000	0.000	101.230	42.944	-3.447	MWD+IFR1+MS
20469.492	90.000	179.773	9494.000	92.244	0.000	101.671	-0.000	92.244	0.000	0.000	101.801	42.982	-3.423	MWD+IFR1+MS
20500.000	90.000	179.773	9494.000	92.473	0.000	101.922	-0.000	92.473	0.000	0.000	102.052	43.000	-3.413	MWD+IFR1+MS
20519.475	90.000	179.773	9494.000	92.620	0.000	102.082	-0.000	92.620	0.000	0.000	102.211	43.010	-3.406	MWD+IFR1+MS

Poker Lake Unit 20 BD 310H

Plan Targets

Target Name	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape
FTP 6	10030.71	403260.60	634937.20	6284.00	CIRCLE
LTP 6	20469.49	392821.90	634978.60	6284.00	CIRCLE
BHL 6	20519.67	392771.90	634978.60	6284.00	CIRCLE





Drilling Operations Choke Manifold 10M Service

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



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.
Nominal Weight	29.70 lb/ft	Plain End Weight	29.06 lb/ft
Drift	6.750 in.	OD Tolerance	API
Nominal ID	6.875 in.		
		Body Yield Strength	683 x1000 lb
		Min. Internal Yield Pressure	6890 psi
		SMYS	80,000 psi
		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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TenarisHydril Wedge 511



Coupling	Pipe Body
Grade: P110-4CY	Grade: P110-4CY
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	P110-4CY
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.
Nominal Weight	29.70 lb/ft	Plain End Weight	29.06 lb/ft
Drift	6.750 in.	OD Tolerance	API
Nominal ID	6.875 in.		
		Body Yield Strength	1068 x1000 lb
		Min. Internal Yield Pressure	11,070 psi
		SMYS	125,000 psi
		Collapse Pressure	7360 psi

Connection Data

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

Notes

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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.
Nominal Weight	20.00 lb/ft	Plain End Weight	19.83 lb/ft
Drift	4.653 in.	OD Tolerance	API
Nominal ID	4.778 in.		
		Body Yield Strength	641 x1000 lb
		Min. Internal Yield Pressure	12,640 psi
		SMYS	110,000 psi
		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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P/CIII



TenarisHydril Wedge 441®



Coupling	Pipe Body
Grade: P110-4C	Grade: P110-4C
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	P110-4C
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.
Nominal Weight	20.00 lb/ft	Plain End Weight	19.83 lb/ft
Drift	4.653 in.	OD Tolerance	API
Nominal ID	4.778 in.		
		Body Yield Strength	641 x1000 lb
		Min. Internal Yield Pressure	12,640 psi
		SMYS	110,000 psi
		Collapse Pressure	12,300 psi

Connection Data

Geometry		Performance		Make-Up Torques	
Connection OD	5.852 in.	Tension Efficiency	81.50 %	Minimum	15,000 ft-lb
Coupling Length	8.714 in.	Joint Yield Strength	522 x1000 lb	Optimum	16,000 ft-lb
Connection ID	4.778 in.	Internal Pressure Capacity	12,640 psi	Maximum	19,200 ft-lb
Make-up Loss	3.780 in.	Compression Efficiency	81.50 %		
Threads per inch	3.40	Compression Strength	522 x1000 lb	Operation Limit Torques	
Connection OD Option	Regular	Max. Allowable Bending	74.98 °/100 ft	Operating Torque	32,000 ft-lb
		External Pressure Capacity	12,300 psi	Yield Torque	38,000 ft-lb
				Buck-On	
				Minimum	19,200 ft-lb
				Maximum	20,700 ft-lb

Notes

This connection is fully interchangeable with:
Wedge 441® - 5.5 in. - 0.304 (17.00) in. (lb/ft)
Wedge 461® - 5.5 in. - 0.304 (17.00) / 0.361 (20.00) / 0.415 (23.00) in. (lb/ft)
Connections with Dopeless® Technology are fully compatible with the same connection in its doped version
Connection performance values are related to structural capabilities. For sealability-related performance information, request the Connection Service Envelope from your local Tenaris Representative.

For the latest 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

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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 nipped up and tested on the wellhead before drilling operations resume on each well.
 - a. The larger rig will move back onto the location within 90 days from the point at which the wells are secured and the spudder rig is moved off location.
 - b. The BLM will be notified 24 hours before the larger rig moves back on the pre-set locations
7. XTO will have supervision on the rig to ensure compliance with all BLM and NMOCD regulations and to oversee operations.
8. Once the rig is removed, XTO will secure the wellhead area by placing a guard rail around the cellar area.

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

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

Background

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

Supporting Documentation

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

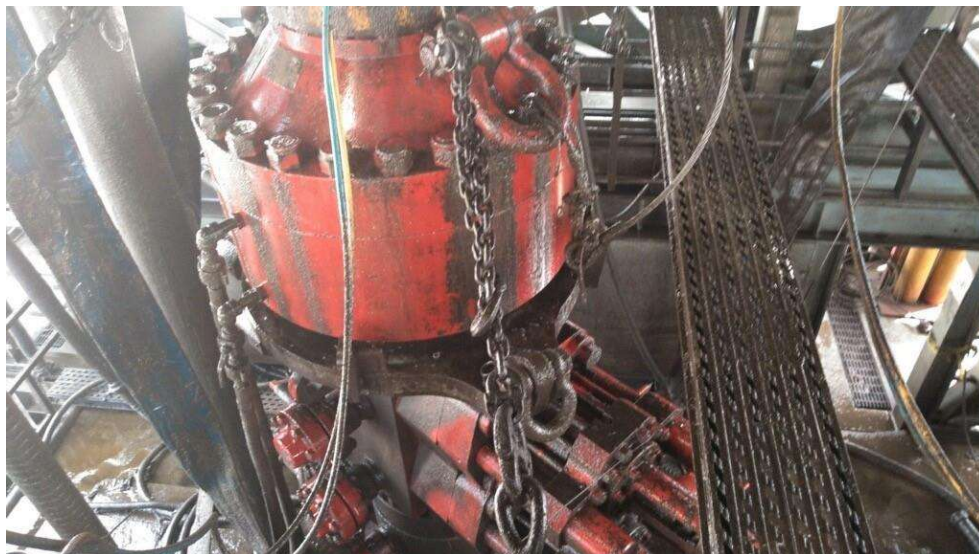


Figure 1: Winch System attached to BOP Stack

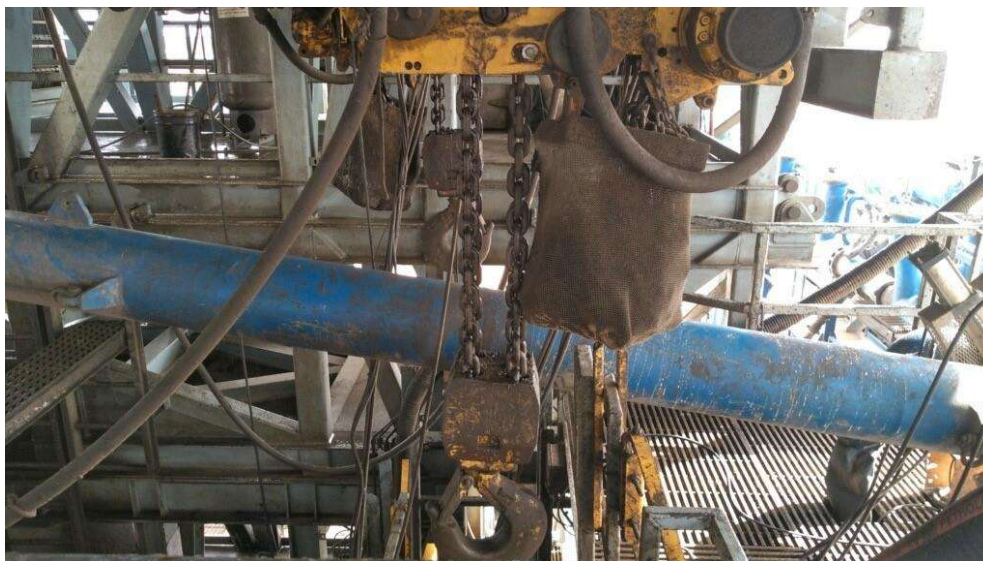


Figure 2: BOP Winch System

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

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API STANDARD 53

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

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

^a Pressure test evaluation periods shall be a minimum of five minutes.

No visible leaks.

The pressure shall remain stable during the evaluation period. The pressure shall not decrease below the intended test pressure.

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

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

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

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

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

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

XTO Energy feels break testing and our current procedures meet the intent of CFR Title 43 Part 317 0and often exceed it. There has been no evidence that break testing results in more components failing than seen on full BOP tests. XTO Energy's internal standards requires complete BOPE tests more often than that of CFR Title 43 Part 3170 (Every 21 days). In addition to function testing the annular, pipe rams and blind rams after

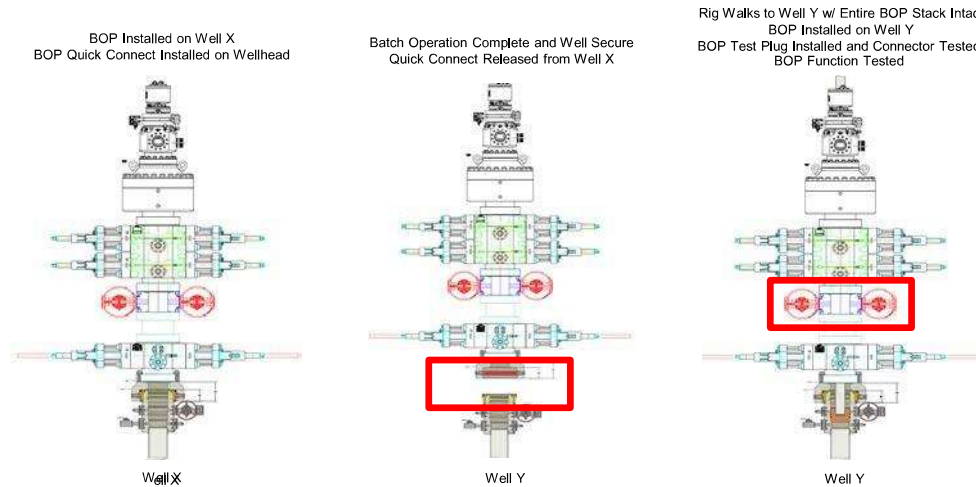
each BOP nipple up, XTO Energy performs a choke drill with the rig crew prior to drilling out every casing shoe. This is additional training for the rig crew that exceeds the requirements of the CFR Title 43 Part 3170.

Procedures

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

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

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



Summary

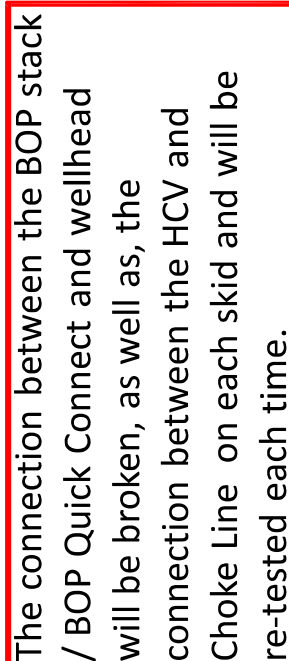
A variance is requested to **ONLY** test broken pressure seals on the BOP equipment when moving from wellhead to wellhead which is in compliance with API Standard 53. API Standard 53 states, that for pad drilling operation, moving from one wellhead to another within 21 days, pressure testing is required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

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

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

1. After a full BOP test is conducted on the first well on the pad.
2. The first intermediate hole section drilled on the pad will be the deepest. All of the remaining hole sections will be the same depth or shallower.
3. Full BOP test will be required if the intermediate hole section being drilled has a MASP over 5M.
4. Full BOP test will be required prior to drilling the production hole.

*** Each valve on choke manifold will alternate being tested against during each rig skid.



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

**BLACK GOLD®**

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Houston, TX. 77086

PHONE: +1 (281) 602-4100**FAX: +1 (281) 602-4147****EMAIL: gesna.quality@gates.com****WEB: www.gates.com/oilandgas**

*NEW CHOKE HOSE
INSTALLED 02-10-2024*

CERTIFICATE OF CONFORMANCE

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

CUSTOMER: NABORS DRILLING TECHNOLOGIES USA DBA NABORS DRILLING USA
CUSTOMER P.O.#: 15582803 (TAG NABORS PO #15582803 SN 74621 ASSET 66-1531)
CUSTOMER P/N: IMR RETEST SN 74621 ASSET #66-1531

PART DESCRIPTION: RETEST OF CUSTOMER 3" X 45 FT 16C CHOKE & KILL HOSE ASSEMBLY C/W 4 1/16" 10K FLANGES

SALES ORDER #: 529480
QUANTITY: 1
SERIAL #: 74621 H3-012524-1

SIGNATURE:*F. OSMOS***TITLE:****QUALITY ASSURANCE****DATE:****1/25/2024**



H3-15/16

1/25/2024 11:48:06 AM

TEST REPORT

CUSTOMER

Company: Nabors Industries Inc.

Production description: 74621/66-1531

Sales order #: 529480

Customer reference: FG1213

TEST OBJECT

Serial number: H3-012524-1

Lot number:

Description: 74621/66-1531

Hose ID: 3" 16C CK

Part number:

TEST INFORMATION

Test procedure: GTS-04-053

Test pressure: 15000.00 psi

Test pressure hold: 3600.00 sec

Work pressure: 10000.00 psi

Work pressure hold: 900.00 sec

Length difference: 0.00 %

Length difference: 0.00 inch

Fitting 1: 3.0 x 4-1/16 10K

Part number:

Description:

Fitting 2: 3.0 x 4-1/16 10K

Part number:

Description:

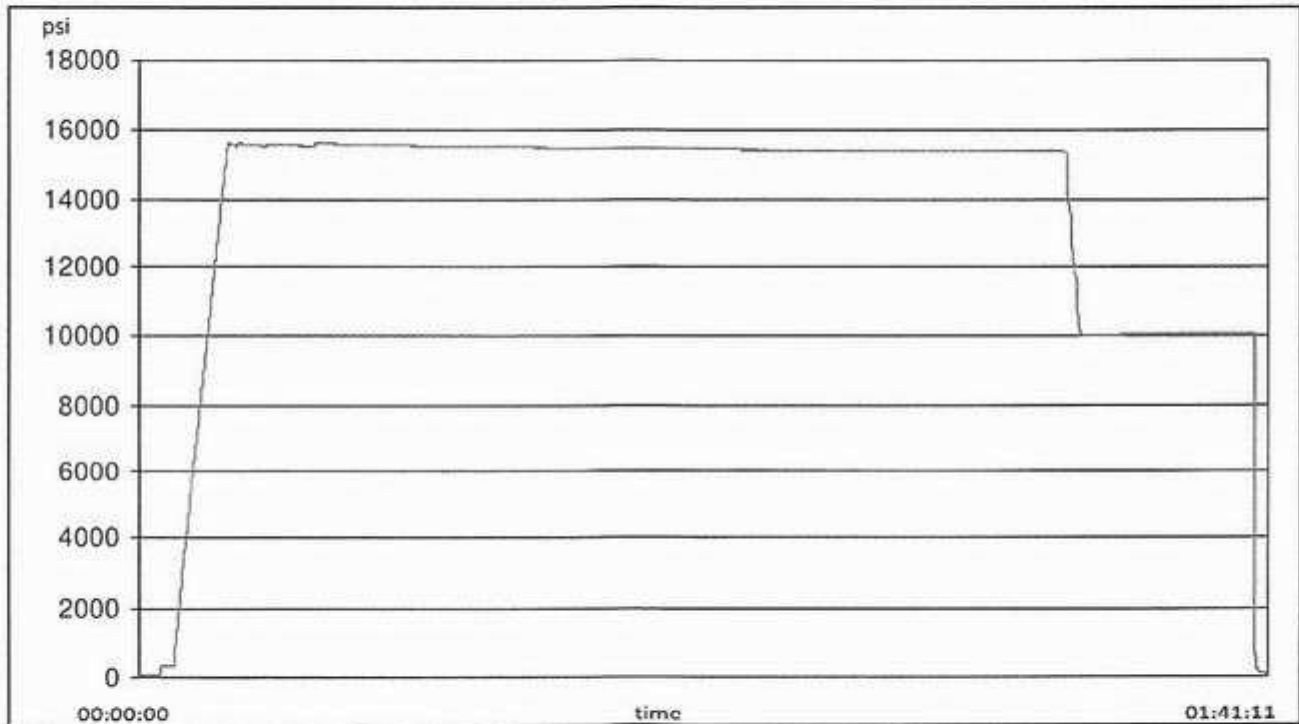
Visual check:

Pressure test result: PASS

Length measurement result:

Length: 45 feet

Test operator: Travis





H3-15/1b

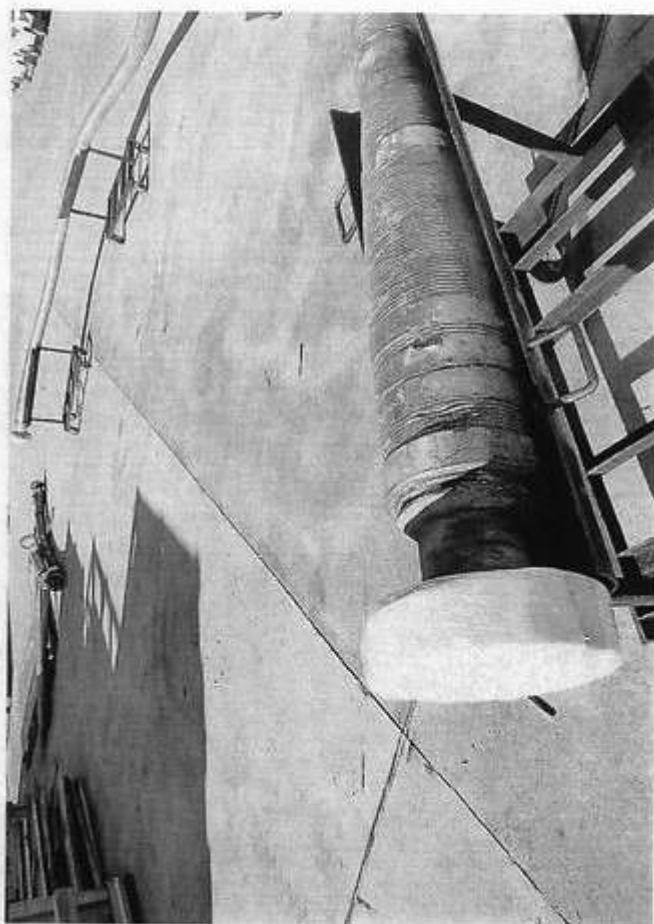
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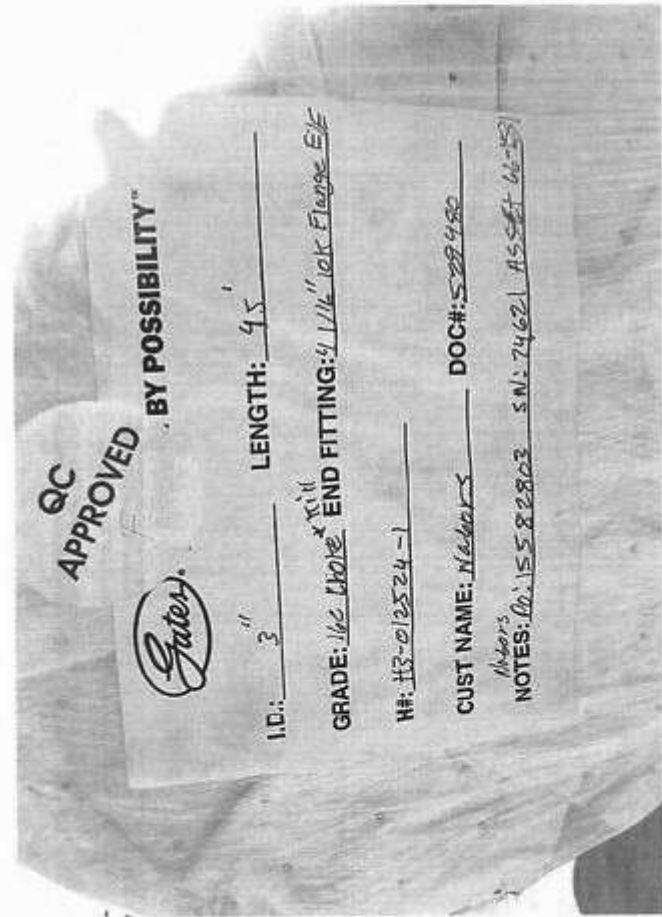
TEST REPORT

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.

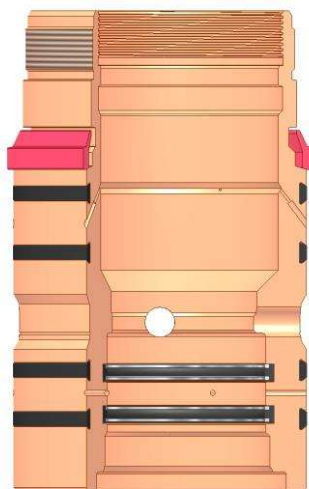
1. Cement Program

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

2. Offline Cementing Procedure

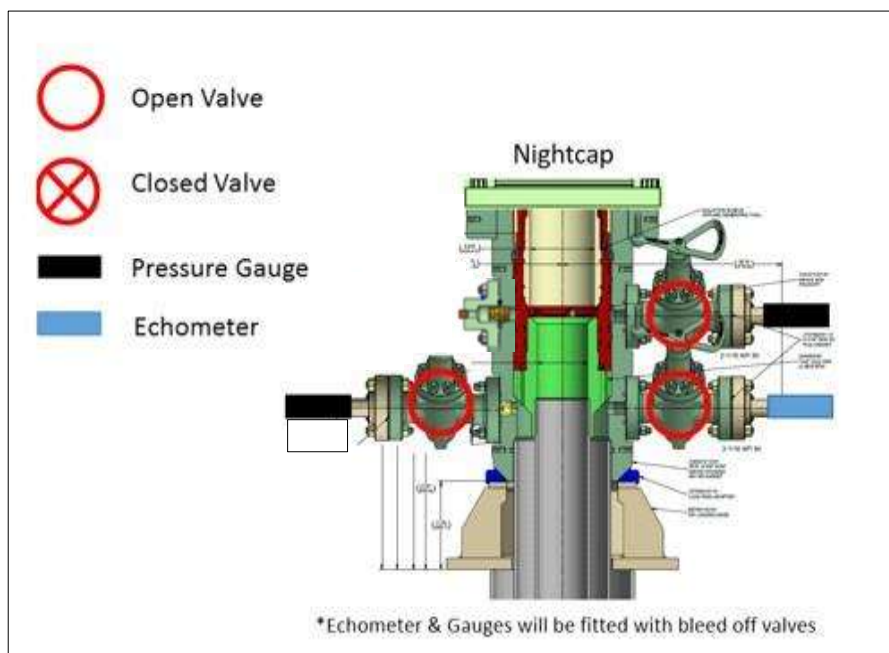
The operational sequence will be as follows. If a well control event occurs, the BLM will be contacted for approval prior to conducting offline cementing operations.

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 nipped down until after the cement job is completed with cement 500ft above the highest formation capable of flow with kill weight mud above or after it has achieved 50-psi compressive strength if kill weight fluid cannot be verified.



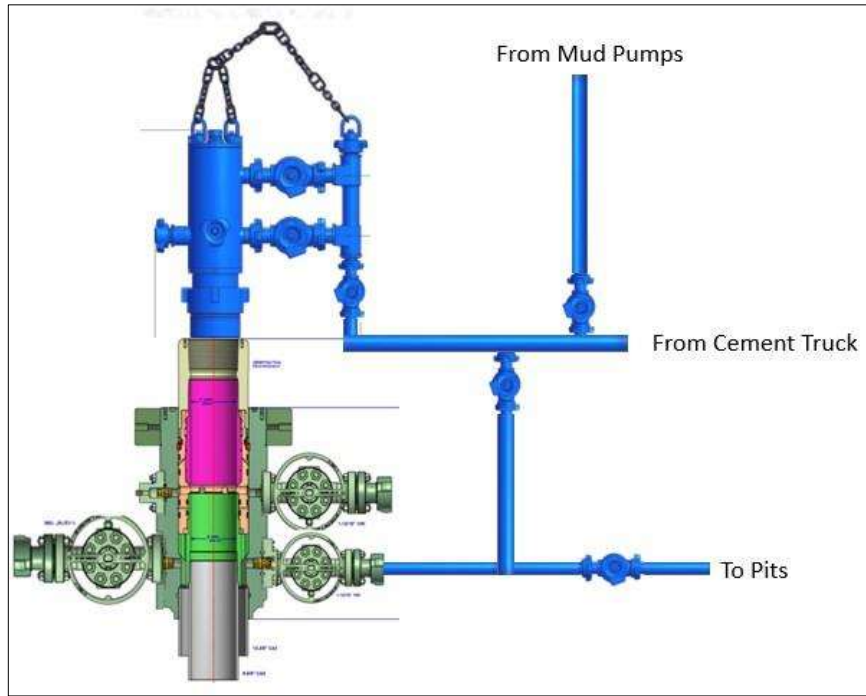
Annular packoff with both external and internal seals

XTO Permian Operating, LLC Offline Cementing Variance Request



Wellhead diagram during skidding operations

6. Skid rig to next well on pad.
7. Confirm well is static before removing cap flange, flange will not be removed and offline cementing operations will not commence until well is under control. If well is not static, casing outlet valves will provide access to both the casing ID and annulus. Rig or third party pump truck will kill well prior to cementing or nipping 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/oed/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 460593

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 460593
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Any previous COA's not addressed within the updated COA's still apply.	5/29/2025