

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

Sundry Print Report of 47

Well Name: POKER LAKE UNIT 22 Well Location: T24S / R30E / SEC 22 / County or Parish/State: EDDY /

DTD NWNE / 32.209433 / -103.866184

Well Number: 178H Type of Well: CONVENTIONAL GAS Allottee or Tribe Name:

WELL

Lease Number: NMNM068905 Unit or CA Name: Unit or CA Number:

US Well Number: 3001549884 Operator: XTO PERMIAN OPERATING

LLC

### **Notice of Intent**

**Sundry ID: 2786001** 

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 04/19/2024 Time Sundry Submitted: 01:51

Date proposed operation will begin: 05/03/2024

Procedure Description: POKER LAKE UNIT 22 DTD 178H SUNDRY LANGUAGE XTO Permian Operating, LLC. respectfully requests approval to make the following changes to the approved APD. Changes to include FTP, LTP, BHL, Casing sizes, Cement, Proposed total Depth, and formation (Pool). FROM: TO: FTP: 100' FSL & 871' FEL OF SECTION 15-T24S-R30E 100' FNL & 1196' FEL OF SECTION 22-T24S-R30E LTP: 329' FNL & 870' FEL OF SECTION 3-T24S-R30E 2537' FNL & 1195' FEL OF SECTION 34-T24S-R30E BHL: 199' FNL & 870' FEL OF SECTION 3-T24S-R30E 2627' FNL & 1195' FEL OF SECTION 34-T24S-R30E The proposed total depth is changing from 27104' MD; 11199' TVD (Jennings/WOLFCAMP (Gas)) to 24759' MD; 11953' TVD (Wolfcamp C). See attached Drilling Plan for updated cement and casing program. A saturated salt brine will be utilized while drilling through the salt formations. Attachments: C-102, Drilling Plan, Directional Plan, MBS.

### **NOI Attachments**

### **Procedure Description**

PLU 22 DTD 178H Sundry Documents 20240822154341.pdf

Released to Imaging: 10/2/2024 3:09:46 PM

DTD

Well Location: T24S / R30E / SEC 22 / NWNE / 32.209433 / -103.866184

County or Parish/State: EDD Page

Well Number: 178H

Type of Well: CONVENTIONAL GAS

**WELL** 

Allottee or Tribe Name:

Lease Number: NMNM068905

**Unit or CA Name:** 

**Unit or CA Number:** 

**US Well Number: 3001549884** 

**Operator:** XTO PERMIAN OPERATING

LLC

### **Conditions of Approval**

### Additional

Poker\_Lake\_Unit\_22\_DTD\_178H\_COA\_20240917155036.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:** ADRIAN BAKER Signed on: AUG 22, 2024 03:43 PM

Name: XTO PERMIAN OPERATING LLC

**Title:** Regulatory Analyst

Street Address: 22777 SPRINGWOODS VILLAGE PARKWAY

City: SPRING State: TX

Phone: (432) 236-3808

Email address: ADRIAN.BAKER@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 Date: 09/23/2024 **Disposition:** Approved

Form 3160-5 (June 2019)

# UNITED STATES DEPARTMENT OF THE INTERIOR

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

BUREAU OF LAND MANAGEME	NT	5. Lease Serial No.	NMLC068905
SUNDRY NOTICES AND REPORTS OF Do not use this form for proposals to drill of abandoned well. Use Form 3160-3 (APD) for	r to re-enter an	6. If Indian, Allottee	or Tribe Name
SUBMIT IN TRIPLICATE - Other instructions on	page 2	7. If Unit of CA/Agro	eement, Name and/or No.
1. Type of Well		0.37.1137	
Oil Well Gas Well Other		8. Well Name and No	POKER LAKE UNIT 22 DTD/178H
2. Name of Operator XTO PERMIAN OPERATING LLC		9. API Well No. 300	1549884
3a. Address 6401 HOLIDAY HILL ROAD BLDG 5, MIDLAND, 3b. Phone (432) 683	No. (include area code, 3-2277	10. Field and Pool or Jennings/BONE S	- ·
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description) SEC 22/T24S/R30E/NMP		11. Country or Parish EDDY/NM	n, State
12. CHECK THE APPROPRIATE BOX(ES) TO	INDICATE NATURE	OF NOTICE, REPORT OR OT	HER DATA
TYPE OF SUBMISSION	TYP	E OF ACTION	
Notice of Intent	Deepen Hydraulic Fracturing	Production (Start/Resume) Reclamation	Water Shut-Off Well Integrity
Subsequent Report = 5	New Construction	Recomplete	Other
	Plug and Abandon Plug Back	Temporarily Abandon Water Disposal	
completed. Final Abandonment Notices must be filed only after all requirer is ready for final inspection.)  POKER LAKE UNIT 22 DTD 178H  SUNDRY LANGUAGE  XTO Permian Operating, LLC. respectfully requests approval to material to the LTP, BHL, Casing sizes, Cement, Proposed total Depth, and formation from the LTP: 100' FSL & 871' FEL OF SECTION 15-T24S-R30E 100' FNL LTP: 329' FNL & 870' FEL OF SECTION 3-T24S-R30E 2537' FNL BHL: 199' FNL & 870' FEL OF SECTION 3-T24S-R30E 2627' FNL	ake the following cha ation (Pool). & 1196' FEL OF SEC & 1195' FEL OF SEC	nges to the approved APD. C CTION 22-T24S-R30E CTION 34-T24S-R30E	
Continued on page 3 additional information  14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed,	)		
ADRIAN BAKER / Ph: (432) 236-3808	Regulatory Title	Analyst	
Signature (Electronic Submission)	Date	08/22/2	2024
THE SPACE FOR FI	EDERAL OR STA	ATE OFICE USE	
Approved by		Laure Foreign	00/00/000
CHRISTOPHER WALLS / Ph: (575) 234-2234 / Approved	Title Petro	leum Engineer	09/23/2024 Date
Conditions of approval, if any, are attached. Approval of this notice does not wa certify that the applicant holds legal or equitable title to those rights in the subje which would entitle the applicant to conduct operations thereon.		RLSBAD	
Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any false, fictitious or fraudulent statements or representations as to any matter of the control of the		y and willfully to make to any d	lepartment or agency of the United States

(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

(Form 3160-5, page 2)

### **Additional Information**

### **Additional Remarks**

The proposed total depth is changing from 27104 MD; 11199 TVD (Jennings/WOLFCAMP (Gas)) to 24759 MD; 11953 TVD (Wolfcamp C).

See attached Drilling Plan for updated cement and casing program.

A saturated salt brine will be utilized while drilling through the salt formations.

Attachments: C-102, Drilling Plan, Directional Plan, MBS.

### **Location of Well**

0. SHL: NWNE / 414 FNL / 1826 FEL / TWSP: 24S / RANGE: 30E / SECTION: 22 / LAT: 32.209433 / LONG: -103.866184 ( TVD: 0 feet, MD: 0 feet )

PPP: SWNE / 100 FSL / 1577 FWL / TWSP: 24S / RANGE: 30E / SECTION: 15 / LAT: 32.210805 / LONG: -103.872488 ( TVD: 11199 feet, MD: 14216 feet )

PPP: SWSE / 100 FSL / 871 FEL / TWSP: 24S / RANGE: 30E / SECTION: 15 / LAT: 32.210865 / LONG: -103.863091 ( TVD: 11199 feet, MD: 11576 feet )

PPP: NWNE / 300 FNL / 313 FWL / TWSP: 24S / RANGE: 30E / SECTION: 10 / LAT: 32.253158 / LONG: -103.876545 ( TVD: 11199 feet, MD: 16856 feet )

BHL: LOT 1 / 199 FNL / 870 FEL / TWSP: 24S / RANGE: 30E / SECTION: 3 / LAT: 32.25355 / LONG: -103.863062 ( TVD: 11199 feet, MD: 27104 feet )

# PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: XTO
LEASE NO.: NMLC068905
LOCATION: Sec. 22, T.24 S, R 30 E

COUNTY: Eddy County, New Mexico

WELL NAME & NO.: Poker Lake Unit 22 DTD 178H

SURFACE HOLE FOOTAGE: 414'/N & 1826'/E
BOTTOM HOLE FOOTAGE: 2627'/N & 1195'/E

Changes approved through engineering via **Sundry 2786001** on \_9-17-2024\_\_. Any previous COAs not addressed within the updated COAs still apply.

COA

$H_2S$	•	No	0	Yes
Potash /	None	Secretary	□ R-111-Q	Open Annulus
WIPP	Choose	e an option (including bla	nk option.)	☐ WIPP
Cave / Karst	• Low	Medium	C 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	C Waste Min. Plan	APD Submitted p	prior to 06/10/2024
Additional	Flex Hose	Casing Clearance	Pilot Hole	Break Testing
Language	Four-String	Offline Cementing	Fluid-Filled	

### A. HYDROGEN SULFIDE

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

### **B. CASING**

- 1. The 9-5/8 inch surface casing shall be set at approximately 1232 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 6468'
  - 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 <u>Intermediate 1</u> 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.

Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.

- a. 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.
- b. Manufacturer representative shall install the test plug for the initial BOP test.
- c. 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.
- d. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172 must be followed.

### D. SPECIAL REQUIREMENT (S)

### **Unit Wells**

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

### **Commercial Well Determination**

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

### **BOPE Break Testing Variance**

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

### **Offline Cementing**

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

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

### **Casing Clearance**

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

### **GENERAL REQUIREMENTS**

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

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

### **Contact Eddy County Petroleum Engineering Inspection Staff:**

Email or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220; **BLM NM CFO DrillingNotifications@BLM.GOV**; (575) 361-2822

- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
  - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
  - b. When the operator proposes to set surface casing with Spudder Rig
    - i. Notify the BLM when moving in and removing the Spudder Rig.
    - ii. Notify the BLM when moving in the 2<sup>nd</sup> 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 2<sup>nd</sup> 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 9/17/2024** 575-234-5998 / zstevens@blm.gov

District I

7625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720

District II

811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720

<u>District III</u> 1000 Rio Brazos Road, Aztec, NM 87410

Phone: (505) 334-6178 Fax: (505) 334-6170

<u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462 State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

Santa Fe, NM 87505

<sup>1</sup> API Number	•	<sup>2</sup> Pool Code	<sup>3</sup> Pool Name	
30-015-	49884	98220	PURPLE SAGE;WOLFCAMP	(GAS)
<sup>4</sup> Property Code		<sup>5</sup> P	roperty Name	<sup>6</sup> Well Number
333192		POKER L	AKE UNIT 22 DTD	178H
<sup>7</sup> OGRID No.		8 O	perator Name	<sup>9</sup> Elevation
373075		XTO PERMI	AN OPERATING, LLC	3,414'

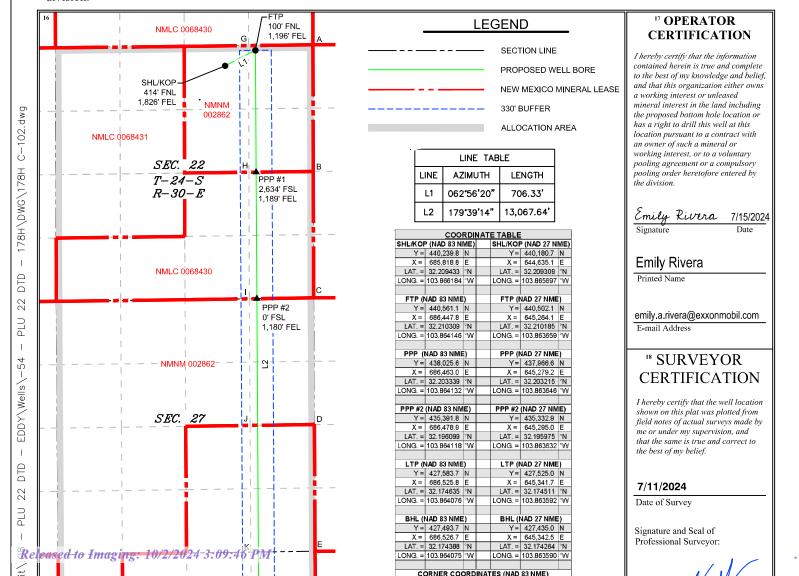
<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
В	22	24S	30E		414	NORTH	1,826	EAST	EDDY

"Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
н	34	24\$	30E		2,627	NORTH	1,195	EAST	EDDY
12 Dedicated Acres	<sup>13</sup> Joint or	Infill 14Co	onsolidation C	Code 15 Ord	ler No.			'	
1600.00									

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



Inten	t X	As Dril	led											
API#	) 15-		]											
Оре	rator Nai	me: IIAN OPI	ERATIN	G, LL(	C		oerty N			IIT 22	P DT	D		Well Number 178H
Kick C	Off Point	(KOP)												
UL	Section	Township	Range	Lot	Feet		From N	I/S	Feet		From	n E/W	County	
Latitu	ıde				Longitu	de							NAD	
First	Гаке Poir	nt (FTP)												
UL A	Section 22	Township 24S	Range 30E	Lot	Feet 100		From N North	I/S	Feet 1,19		From Eas	n E/W t	County Eddy	
132.2	ude 210309	9			Longitu -103.		146		I				NAD 83	
	ake Poin	1		I I		T =	N/6	l		l -	= /\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			
UL H	Section 34	Township 24S	Range 30E	Lot	Feet 2,537	Nor	m N/S th	Feet <b>1,19</b>		From East	E/W	Count		
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API#	÷		]											
Ope	rator Nai	me:				Prop	oerty N	lame:						Well Number

KZ 06/29/2018

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

XTO Energy Inc.

POKER LAKE UNIT 22 DTD 178H

Projected TD: 24759' MD / 11953' TVD

SHL: 414' FNL & 1826' FEL , Section 22, T24S, R30E

BHL: 2627' FNL & 1195' FEL , Section 34, T24S, R30E

EDDY County, NM

### 1. Geologic Name of Surface Formation

A. Quaternary

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

Formation	Well Depth (TVD)	Water/Oil/Gas
Rustler	1131'	Water
Top of Salt	1534'	Water
Base of Salt	3727'	Water
Delaware	3921'	Water
Brushy Canyon	6467'	Water/Oil/Gas
Bone Spring	7791'	Water
Avalon	8484'	Water/Oil/Gas
1st Bone Spring	8500'	Water/Oil/Gas
2nd Bone Spring	9085'	Water/Oil/Gas
3rd Bone Spring	9911'	Water/Oil/Gas
Wolfcamp	11096'	Water/Oil/Gas
Wolfcamp X	11117'	Water/Oil/Gas
Wolfcamp Y	11198'	Water/Oil/Gas
Wolfcamp A	11245'	Water/Oil/Gas
Wolfcamp B	11628'	Water/Oil/Gas
Wolfcamp C	11833'	Water/Oil/Gas
Target/Land Curve	11953'	Water/Oil/Gas
		•

<sup>\*\*\*</sup> Hydrocarbons @ Brushy Canyon

No other formations are expected to yield oil, gas or fresh water in measurable volumes. The surface fresh water sands will be protected by setting 9.625 inch casing @ 1231' (303' above the salt) and circulating cement back to surface. The intermediate will isolate from the top of salt down to the next casing seat by setting 7.625 inch casing at 11083' and cemented to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 24759 MD/TD and 5.5 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 10783 feet).

### 3. Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0' – 1231'	9.625	40	J-55	втс	New	1.50	5.11	12.79
8.75	0' – 4000'	7.625	29.7	RY P-110	Flush Joint	New	2.09	2.92	1.70
8.75	4000' – 11083'	7.625	29.7	HC L-80	Flush Joint	New	1.52	2.16	1.93
6.75	0' – 10983'	5.5	20	RY P-110	Semi-Premium	New	1.05	1.69	1.92
6.75	10983' - 24759'	5.5	20	RY P-110	Semi-Flush	New	1.05	1.55	1.92

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

<sup>\*\*\*</sup> Groundwater depth 40' (per NM State Engineers Office).

<sup>· 7.625</sup> Collapse analyzed using 50% evacuation based on regional experience.

<sup>· 7.625</sup> Tension calculated using vertical hanging weight plus the lateral weight multiplied by a friction factor of 0.35

### Wellhead:

XTO will use a Multi-Bowl system which is attached.

### 4. Cement Program

### Surface Casing: 9.625, 40 New BTC, J-55 casing to be set at +/- 1231'

Lead: 310 sxs EconoCem-HLTRRC (mixed at 10.5 ppg, 1.87 ft3/sx, 10.13 gal/sx water) Tail: 130 sxs Class C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)

Top of Cement: Surface

Compressives: 12-hr = 900 psi 24 hr = 1500 psi

### 2nd Intermediate Casing: 7.625, 29.7 New casing to be set at +/- 11083'

st Stage

Optional Lead: 350 sxs Class C (mixed at 10.5 ppg, 2.77 ft3/sx, 15.59 gal/sx water)

TOC: Surface

Tail: 420 sxs Class C (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)

TOC: Brushy Canyon @ 6467

Compressives: 12-hr = 900 psi 24 hr = 1150 psi

2nd Stage

Lead: 0 sxs Class C (mixed at 12.9 ppg, 2.16 ft3/sx, 9.61 gal/sx water) Tail: 730 sxs Class C (mixed at 14.8 ppg, 1.33 ft3/sx, 6.39 gal/sx water)

Top of Cement: 0

Compressives: 12-hr = 900 psi 24 hr = 1150 psi

XTO requests to pump a two stage cement job on the 7-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brush Canyon (6467') and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If cement is not visually confirmed to circulate to surface, the final cement top after the second stage job will be verified by Echo-meter. If necessary, a top out consisting of 1,500 sack of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. If cement is still unable to circulate to surface, another Echo-meter run will be performed for cement top verification.

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

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

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

### Production Casing: 5.5, 20 New Semi-Flush, RY P-110 casing to be set at +/- 24759'

Lead: 20 sxs NeoCem (mixed at 13.2 ppg, 2.69 ft3/sx, 15.00 gal/sx water) Top of Cement: 10783 feet
Tail: 960 sxs VersaCem (mixed at 14.5 ppg, 1.51 ft3/sx, 8.38 gal/sx water) Top of Cement: 11283 feet
Compressives: 12-hr = 800 psi 24 hr = 1500 psi

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

### 5. Pressure Control Equipment

Once the permanent WH is installed on the surface casing, the blow out preventer equipment (BOP) will consist of a 13-5/8" minimum 5M Hydril and a 13-5/8" minimum 10M Double Ram BOP and 10M Blind Ram. XTO will use a Multi-Bowl system which is attached.

All BOP testing will be done by an independent service company. Annular pressure tests will be limited to 50% of the working pressure. When nippling up on the 9.625, 10M bradenhead and flange, the BOP test will be limited to 10000 psi. When nippling up on the 7.625, the BOP will be tested to a minimum of 10000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 10M BOP diagrams are attached. Blind rams will be functioned tested each trip, pipe rams will be functioned tested each week.

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

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

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

### 6. Proposed Mud Circulation System

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)	Additional Comments
0' - 1231'	12.25	FW/Native	8.7-9.2	35-40	NC	Fresh Water or Native Water
1231'-3921'		Salt Saturated	10.5-11			Fully Saturated salt across salado / /salt
3921' - 11083'	8.75	BDE / OBM	9-9.5	30-32	NC	N/A
11083' - 24759'	6.75	ОВМ	11.5-12	50-60	NC - 20	N/A

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

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

### 7. Auxiliary Well Control and Monitoring Equipment

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

### 8. Logging, Coring and Testing Program

Open hole logging will not be done on this well.

### 9. Abnormal Pressures and Temperatures / Potential Hazards

None Anticipated. BHT of 185 to 205 F is anticipated. No H2S is expected but monitors will be in place to detect any H2S occurrences. Should these circumstances be encountered the operator and drilling contractor are prepared to take all necessary steps to ensure safety of all personnel and environment. Lost circulation could occur but is not expected to be a serious problem in this area and hole seepage will be compensated for by additions of small amounts of LCM in the drilling fluid. The maximum anticipated bottom hole pressure for this well is 7148 psi.

### 10. Anticipated Starting Date and Duration of Operations

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

# Well Plan Report

# Well Plan Report - Poker Lake Unit 22 DTD South 178H

Well Plan Report - Poker	Measured Depth:	TVD RKB:	Location	Cartographic New Md Reference System:	Northing:	Easting:	RKB:	Ground Level:	North Reference:	
- Poker Lake Unit 22	24759.41 ft	11953.00 ft		New Mexico East - NAD 27	440180.70 ft	644635.10 ft	3446.00 ft	3414.00 ft	Grid	

Plan Sections	Po	Poker Lake Unit 22 DTD S	DTD South 178H	_				
Measured			DVT			Build	Turn	Dogleg
Depth	Inclination	Azimuth	RKB	Y Offset	X Offset	Rate	Rate	Rate
(#)	(Deg)	(Deg)	( <b>t</b> )	(H)	(ft)	(Deg/100ft)	(Deg/100ft)	(Deg/100ft) Target
00.00	00.00	00.00	0.00	00.00	00.00	00.00	00.00	0.00
1100.00	00.00	00.00	1100.00	00.00	00.00	00:0	00:0	0.00
1485.78	7.72	62.93	1484.61	11.80	23.10	2.00	00.00	2.00
6360.68	7.72	62.93	6315.39	309.60	605.90	00:00	00:0	0.00
6746.46	00.00	00.00	6700.00	321.40	629.00	-2.00	00.00	2.00
11283.26	00.00	00.00	11236.80	321.40	629.00	00.00	00:0	0.00
12408.26	00.06	179.66	11953.00	-394.78	633.29	8.00	00:0	8.00
24669.26	00'06	179.66	11953.00	-12655.56	69'902	00:00	00:0	0.00 LTP 13
24759.41	00.06	179.66	11953.00	-12745.71	707.23	00.00	00.00	0.00 BHL 13

	Magnitude Semi-major Semi-minor Semi-minor Tool
	Vertical
outh 178H	Lateral
Poker Lake Unit 22 DTD South	TVD Highside
Position Uncertainty	Measured

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70.056	43.330	43.513	43.609	43.716	43.833	43.961	44.098	44.244	44.398	44.560	44.726	44.898	45.072	45.247	45.421	45.592	45.757	45.915	46.062	46.199	46.325	46.439	46.542	46.635	46.720	46.797	46.867	46.932	46.992	47.049	47.102	47.153	
7 200	47.341	47.363	47.388	47.416	47.447	47.481	47.518	47.560	47.607	47.660	47.720	47.787	47.864	47.953	48.054	48.170	48.304	48.457	48.630	48.825	49.043	49.282	49.543	49.824	50.123	50.440	50.773	51.121	51.482	51.856	52.242	52.639	
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Well Plan Report			32.057 0.000	32.292 0.000	32.544 0.000	32.813 0.000	33.098 0.000	33.399 0.000	33.716 0.000	34.048 0.000	34.395 0.000	34.756 0.000	35.130 0.000	35.518 0.000	35.920 0.000	36.333 0.000	36.759 0.000	37.196 0.000	37.645 0.000	38.105 0.000	38.575 0.000	39.055 0.000	39.545 0.000	40.044 0.000	40.552 0.000	41.069 0.000	41.595 0.000	42.128 0.000	42.670 0.000	43.218 0.000	43.774 0.000	44.337 0.000	H.HTML
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	47.202	47.249	47.339	47.382	47.425	47.467	47.508	47.550	47.591	47.632	47.673	47.714	47.755	47.796	47.837	47.878	47.920	47.962	48.004	48.047	48.090	48.133	48.176	48.220	48.265	48.309	48.354	48.400	48.446	48.492	48.539	48.586	
!	53.047	53.404	54.327	54.771	55.224	55.684	56.152	56.627	57.109	57.598	58.093	58.595	59.103	59.616	60.136	099'09	61.191	61.726	62.266	62.812	63,362	63.916	64,475	62.039	65.607	66.178	66.754	67.334	67.917	68.505	69.095	689.69	
	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	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	0.000	0.000	
=			46.653 0.000		47.846 0.000	48.450 0.000	49.060 0.000	49.674 0.000	50.294 0.000	50.918 0.000	51.546 0.000	52.178 0.000	52.815 0.000	53.455 0.000	54.100 0.000	54.748 0.000	55.399 0.000	56.054 0.000	56.712 0.000	57.374 0.000	58.038 0.000	58.706 0.000	59.376 0.000	60.049 0.000	60.725 0.000	61.404 0.000	62.084 0.000	62.768 0.000	63.453 0.000	64.141 0.000	64.832 0.000	65.524 0.000	H.HTML
			53.922 -0.000		54.850 -0.000	55.324 -0.000	55.804 -0.000	56.291 -0.000	56.784 -0.000	57.283 -0.000	57.788 -0.000	58.299 -0.000	58.815 -0.000	59.336 -0.000	59.863 -0.000	60.395 -0.000	60.931 -0.000	61.473 -0.000	62.019 -0.000	62.570 -0.000	63.126 -0.000	63.686 -0.000	64.250 -0.000	64.818 -0.000	65.390 -0.000	000.0- 996.59	66.546 -0.000	67.130 -0.000	67.717 -0.000	68.308 -0.000	68.902 -0.000	69.500 -0.000	file:///C:/Users/arsriva/Landmark/DecisionSpace/WellPlanning/Reports/PokerLakeUnit22DTDSouth178H.HTML
			46.653 0.000		47.846 0.000	48.450 0.000	49.060 0.000	49.674 0.000	50.294 0.000	50.918 0.000	51.546 0.000	52.178 0.000	52.815 0.000	53.455 0.000	54.100 0.000	54.748 0.000	55.399 0.000	56.054 0.000	56.712 0.000	57.374 0.000	58.038 0.000	58.706 0.000	59.376 0.000	60.049 0.000	60.725 0.000	61.404 0.000	62.084 0.000	62.768 0.000	63.453 0.000	64.141 0.000	64.832 0.000	65.524 0.000	/Reports/PokerLakel
	11952.997	11952.997	11952.997	11952.997	11952.997	11952.997	11952.997	11952.997	11952.997	11952.997	11952.997	11952.997	11952.997	11952.997	11952.997	11952.997	11952.997	11952.997	11952.997	11952.997	11952.997	11952.997	11952.997	11952.997	11952.997	11952.997	11952.997	11952.997	11952.997	11952.997	11952,997	11952.997	ace/WellPlanning
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	-3.845 MWD+IFR1+MS	-3.804 MWD+IFR1+MS	-3.764 MWD+IFR1+MS	-3.725 MWD+IFR1+MS	-3.686 MWD+IFR1+MS	-3.649 MWD+IFR1+MS	-3.612 MWD+IFR1+MS	-3.576 MWD+IFR1+MS	-3.541 MWD+IFR1+MS	-3.507 MWD+IFR1+MS	-3.473 MWD+IFR1+MS	-3.440 MWD+IFR1+MS	-3.408 MWD+IFR1+MS	-3.377 MWD+IFR1+MS	-3.346 MWD+IFR1+MS	-3.315 MWD+IFR1+MS	-3.286 MWD+IFR1+MS	-3.257 MWD+IFR1+MS	-3.228 MWD+IFR1+MS	-3.200 MWD+IFR1+MS	-3.173 MWD+IFR1+MS	-3.146 MWD+IFR1+MS	-3.128 MWD+IFR1+MS	-3.120 MWD+IFR1+MS	-3.105 MWD+IFR1+MS
	50.479 -3	50.543 -3	50.608 -3	50.673 -3	50.738 -3	50.804 -3	50.871 -3	50.938 -3	51.006 -3	51.073 -3	51.142 -3	51.211 -3	51.280 -3	51.350 -3	51.420 -3	51.491 -3	51.562 -3	51.634 -3	51.706 -3	51.779 -3	51.852 -3	51.925 -3	51.976 -3	51.999 -3	52.043 -3
	91.442	92.115	92.790	93.467	94.145	94.824	95.505	96.186	96.870	97.554	98.239	98.926	99.614	100.303	100.993	101.684	102.377	103.070	103.764	104,460	105.156	105.853	106.336	106.550	106.964
	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	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Well Plan Report	89.969 0.000	90.707 0.000	91.446 0.000	92.186 0.000	92.926 0.000	93.667 0.000	94.409 0.000	95.152 0.000	95.895 0.000	96.639 0.000	97.383 0.000	98.128 0.000	98.874 0.000	99.620 0.000	100.367 0.000	101.114 0.000	101.862 0.000	102.611 0.000	103.360 0.000	104.110 0.000	104.860 0.000	105.611 0.000	106.130 0.000	106.361 0.000	000:0 908:901
	91.323 -0.000	91.998 -0.000	92.674 -0.000	93.352 -0.000	94.031 -0.000	94.712 -0.000	95.393 -0.000	96.076 -0.000	96.761 -0.000	97.446 -0.000	98.133 -0.000	98.820 -0.000	99.509 -0.000	100.199 -0.000	100.891 -0.000	101.583 -0.000	102.276 -0.000 1	102.970 -0.000	103.666 -0.000	104.362 -0.000	105.059 -0.000 1	105.757 -0.000	106.240 -0.000 1	106.455 -0.000 1	106.869 -0.000 106.806
	89.969 0.000	90.707 0.000	91.446 0.000	92.186 0.000	92.926 0.000	93.667 0.000	94.409 0.000	95.152 0.000	95.895 0.000	96.639 0.000	97.383 0.000	98.128 0.000	98.874 0.000	99.620 0.000	100.367 0.000	101.114 0.000	101.862 0.000	102.611 0.000	103.360 0.000	104.110 0.000	104.860 0.000	105.611 0.000	106.130 0.000	106.361 0.000	106.806 0.000
	11952.997	11952.997	11952.997	11952.997	11952.997	11952.997	11952.997	11952.997	11952.997	11952.997	11952.997	11952.997	11952 997	11952 997	11952.997	11952.997	11952.997	11952.997	11952.997	11952,997	11952.997	11952.997	11952.997	11952.997	11952.997
	179.657	179.657	179.657	179.657	179.657	179.657	179.657	179.657	179.657	179.657	179.657	179.657	179.657	179 657	179.657	179.657	179.657	179.657	179.657	179,657	179.657	179.657	179.657	179.657	179.657
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Plan Targets	Poker Lake Unit 22 DTD South 178H			
	Measured Depth	Grid Northing	<b>Grid Easting</b>	TVD MSL Target Shape
Target Name	(#)	(ft)	(#)	(ft)
FTP 13	12101.61	440502.10	645264.10	8507.00 RECTANGLE
SHL 13	12751.51	440182.23	644649.73	8627.25 RECTANGLE
LTP 13	24669.42	427525.00	645341.70	8507.00 RECTANGLE
BHL 13	24759.40	427435.00	645342.50	8507.00 RECTANGLE

### **U. S. Steel Tubular Products** 5.500" 20.00lb/ft (0.361" Wall) P110 RY USS-FREEDOM HTQ®



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

### **Notes**

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

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# U. S. Steel Tubular Products 5.500" 20.00lb/ft (0.361" Wall

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

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

### **Notes**

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

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### 10,000 PSI Annular BOP Variance Request

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

### 1. Component and Preventer Compatibility Tables

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

		8-1/2" Produc 10M psi R	tion Hole Sect Requirement	ion	
Component	OD	Primary Preventer	RWP	Alternate Preventer(s)	RWP
Drillpipe	5.000" or 4.500"	Annular	5M	Upper 3.5"-5.5" VBR Lower 3.5"-5.5" VBR	10M 10M
HWDP	5.000" or 4.500"	Annular	5M	Upper 3.5"-5.5" VBR Lower 3.5"-5.5" VBR	10M 10M
Jars	6.500"	Annular	5M	-	-
DCs and MWD tools	6.500"-8.000"	Annular	5M	-	-
Mud Motor	6.750"-8.000"	Annular	5M	-	-
Production Casing	5-1/2"	Annular	5M	-	-
Open-Hole	-	Blind Rams	10M	-	-

### 2. Well Control Procedures

Below are the minimal high-level tasks prescribed to assure a proper shut-in while drilling, tripping, running casing, pipe out of the hole (open hole), and moving the BHA through the BOPs. At least one well control drill will be performed weekly per crew to demonstrate compliance with the procedure and well control plan. The well control drill will be recorded in the daily drilling log. The type of drill will be determined by the ongoing operations, but reasonable attempts will be made to vary the type of drill conducted (pit, trip, open hole, choke, etc.). This well control plan will be available for review by rig personnel in the XTO Energy/Permian Operating drilling supervisor's office on location and on the rig floor. All BOP equipment will be tested as per 43.CFR.3172 with the exception of the 5000 psi annular which will be tested to 70% of its RWP.

### General Procedure While Drilling

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

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

### **General Procedure While Tripping**

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

### General Procedure While Running Production Casing

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

### General Procedure With No Pipe In Hole (Open Hole)

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

### General Procedures While Pulling BHA Through Stack

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

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



**GATES ENGINEERING & SERVICES NORTH AMERICA** 

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7603 Prairie Oak Dr. Houston, TX. 77086 EMAIL: gesna.quality@gates.com WEB: www.gates.com/oilandgas

NEW CHOKE HOSE

INSTAUED 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.

CU	ST	ON	1ER	:	

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: T. OUS OF QUALITY ASSURANCE

DATE: 1/25/2024



1/25/2024 11:48:06 AM

### **TEST REPORT**

CUSTOMER

Company:

Nabors Industries Inc.

TEST OBJECT

Serial number:

H3-012524-1

Lot number: Description:

74621/66-1531

3.0 x 4-1/16 10K

3.0 x 4-1/16 10K

Production description: Sales order #:

74621/66-1531 529480

Customer reference:

FG1213

Hose ID:

3" 16C CK

Part number:

Fitting 1:

Fitting 2:

Part number:

Description:

**TEST INFORMATION** 

Test pressure hold:

Work pressure hold:

Length difference:

Length difference:

Test procedure:

GTS-04-053

Test pressure:

Work pressure:

15000.00 3600.00

psi sec

0.00

0.00

psi

10000.00

900.00

sec % inch

Part number:

Description:

Visual check:

Pressure test result:

PASS

Length measurement result:

Length:

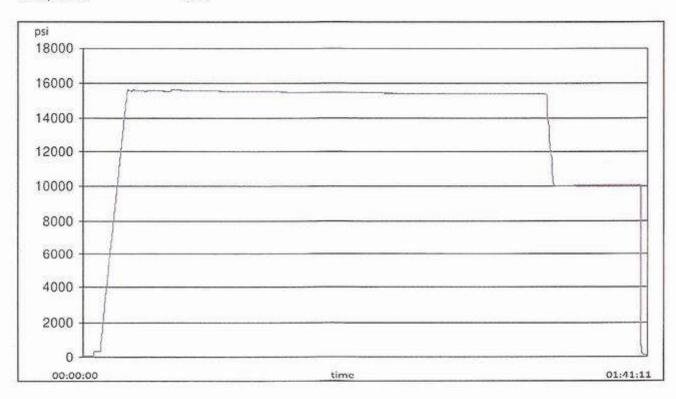
45

feet

n. . . . 170

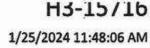
Test operator:

Travis



H3-15/16

n--- 1/2

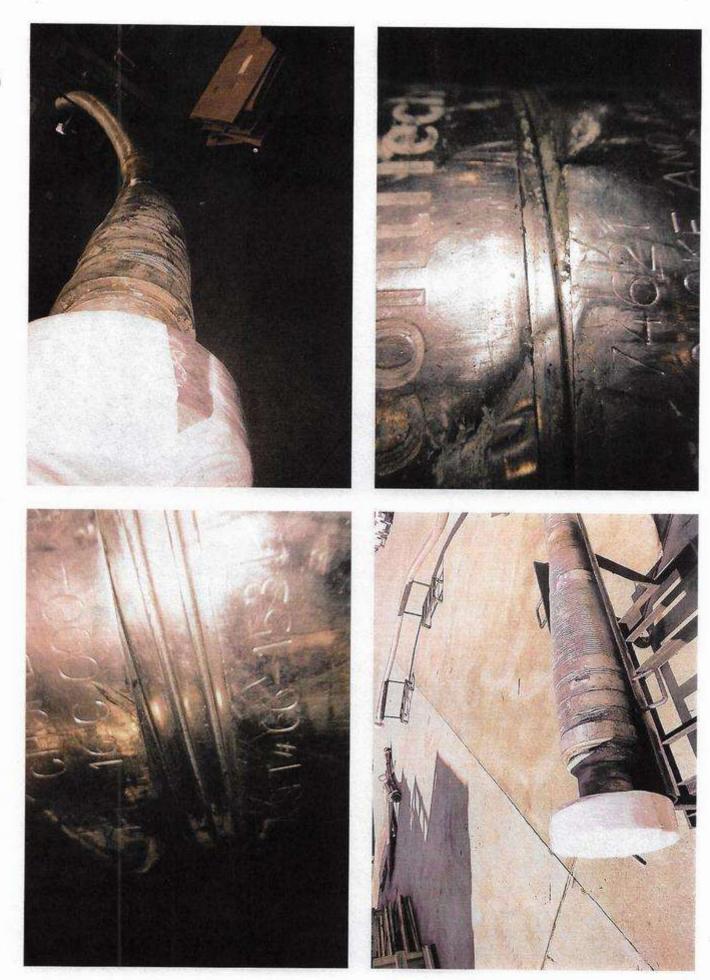




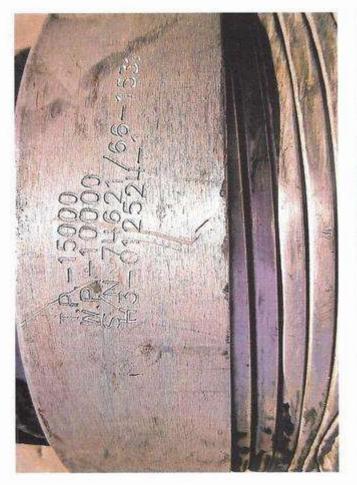
## **TEST REPORT**

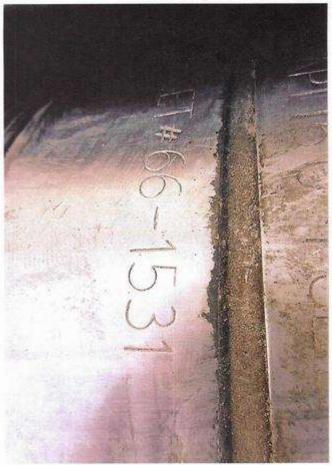
### **GAUGE TRACEABILITY**

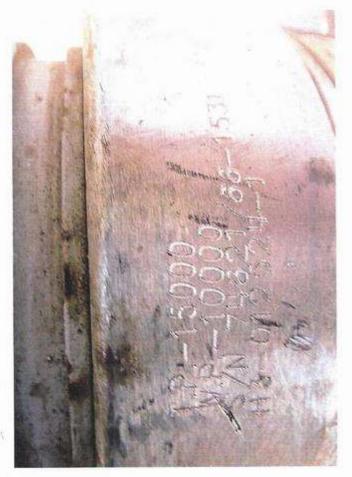
Description	Serial number	Calibration date	Calibration due date
S-25-A-W	110D3PHO	2023-06-06	2024-06-06
S-25-A-W	110IQWDG	2023-05-16	2024-05-16
Comment			
		*	



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Released to Imaging: 10/2/2024 3:09:46 PM

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

### **Description of Operations:**

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

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 386145

### **CONDITIONS**

Operator:	OGRID:
XTO PERMIAN OPERATING LLC.	373075
6401 HOLIDAY HILL ROAD	Action Number:
MIDLAND, TX 79707	386145
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

### CONDITIONS

Created	Ву	Condition	Condition Date
ward.r	ikala	All original COA's still apply. Additionally, if cement is not circulated to surface during cementing operations, then a CBL is required.	10/2/2024