Page 1 of 54

U.S. Department of the Interior BUREAU OF LAND MANAGEMENT Sundry Print Report

Well Name: POKER LAKE UNIT 25 BD Well Location: T25S / R30E / SEC 25 /

SWNE / 32.101756 / -103.83222

County or Parish/State: EDDY /

NN

Well Number: 510H Type of Well: OIL WELL A

Allottee or Tribe Name:

Lease Number: NMLC063079A 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: 2833556

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 01/23/2025

Time Sundry Submitted: 12:39

Date proposed operation will begin: 02/06/2025

Procedure Description: XTO Permian Operating, LLC. respectfully requests approval to make the following changes to the approved APD. Changes to include SHL, KOP, FTP, LTP, BHL, Proposed Total Depth, Pool, Drilling Plan. There is a dedicated acreage change. There is no new surface disturbance. FROM: TO: SHL: 2460' FNL & 1920' FEL OF SECTION 25 -T25S-R30E KOP: 2460' FNL & 1920' FEL OF SECTION 25 -T25S-R30E KOP: 2460' FNL & 1920' FEL OF SECTION 25 -T25S-R30E FTP: 2435' FNL & 1650' FEL OF SECTION 25 -T25S-R30E FTP: 2435' FNL & 1650' FEL OF SECTION 25 -T25S-R30E LTP: 2510' FNL & 1650' FEL OF SECTION 25 -T25S-R30E LTP: 2510' FNL & 1650' FEL OF SECTION 12 -T26S-R30E 100' FSL & 650' FEL OF SECTION 36 -T25S-R30E BHL: 2560' FNL & 1650' FEL OF SECTION 12 -T26S-R30E 10' FSL & 650' FEL OF SECTION 36 -T25S-R30E The proposed total depth is changing from 26115' MD; 9670' TVD to 18458' MD; 10012' TVD. Pool Code is changing FROM 97975 / WC-015 G-06 S243119C; Bone Spring TO 97814 / Wildcat G-015 S2630010; Bone Spring & 13354 / Corral Canyon; Bone Spring, South See attached drilling program for the updated casing design, cement program & mud circulation system. A saturated salt brine will be utilized while drilling through the salt formations.

# **NOI Attachments**

# **Procedure Description**

Poker\_Lake\_Unit\_25\_BD\_510H\_Sundry\_Documents\_20250123123839.pdf

Well Location: T25S / R30E / SEC 25 / SWNE / 32.101756 / -103.83222

County or Parish/State: EDDY /

Page 2 of 54

NM

Well Number: 510H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMLC063079A

Unit or CA Name: POKER LAKE UNIT

Unit or CA Number: NMNM71016X

**US Well Number:** 

Operator: XTO PERMIAN OPERATING

LLC

# **Conditions of Approval**

### Additional

Poker\_Lake\_Unit\_25\_BD\_510H\_COA\_20250221042648.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: TERRA SEBASTIAN Signed on: JAN 23, 2025 12:38 PM

Name: XTO PERMIAN OPERATING LLC

Title: Regulatory Advisor

Street Address: 6401 HOLIDAY HILL ROAD SUITE 200

City: MIDLAND State: TX

Phone: (432) 999-3107

Email address: TERRA.B.SEBASTIAN@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:** 02/24/2025

Signature: Chris Walls

Page 2 of 2

Form 3160-5

# **UNITED STATES**

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 202

(June 2019)	DEP	PARTMENT OF THE INT	Expires: October 31, 2021				
	BURI	EAU OF LAND MANAG	EMENT		5. Lease Serial No.	NMLC063079A	
		IOTICES AND REPORT	6. If Indian, Allottee or Tribe	Name			
		form for proposals to d Use Form 3160-3 (APD					
	SUBMIT IN 1	TRIPLICATE - Other instructio	ns on page 2		7. If Unit of CA/Agreement, POKER LAKE UNIT/NMNM71016		
1. Type of Well	ш Пс w	7 II			8. Well Name and No.		
Oil W		_			POKER LAKE UNIT 25 BD/510H  9. API Well No.		
2. Name of Operator							
3a. Address 6401 H	OLIDAY HILL RO	0, 10 010 0, 111101, 1110,	Phone No. <i>(inch</i> 2) 683-2277	ıde area code)	10. Field and Pool or Explora WC-015 G-06 S243119C/Bone Sp	•	
4. Location of Well (I SEC 25/T25S/R30	_	R.,M., or Survey Description)			11. Country or Parish, State EDDY/NM		
	12. CHE	CK THE APPROPRIATE BOX(I	ES) TO INDICA	TE NATURE (	OF NOTICE, REPORT OR OT	THER DATA	
TYPE OF SUE	BMISSION			TYPI	E OF ACTION		
✓ Notice of Inter	nt	Acidize	Deepen		Production (Start/Resume)	Water Shut-Off	
		Alter Casing	=	Fracturing	Reclamation	Well Integrity	
Subsequent Re	eport	Casing Repair	New Cons		Recomplete	Other	
		Change Plans	Plug and A		Temporarily Abandon		
Final Abandon		Convert to Injection	Plug Back		Water Disposal	ork and approximate duration thereof.	
KOP, FTP, LT FROM: TO: SHL: 2460 FN KOP: 2460 FN FTP: 2435' FN LTP: 2510' FN	Operating, LLC. P, BHL, Propose IL & 1920 FEL O NL & 1920 FEL C NL & 1650' FEL C NL & 1650' FEL C	respectfully requests approva ed Total Depth, Pool, Drilling F of SECTION 25 -T25S-R30E 2 of SECTION 25 -T25S-R30E of SECTION 25 -T25S-R30E of SECTION 12 -T26S-R30E of SECTION 12 -T26S-R30E	Plan. There is a 2460 FNL & 19 2046 FNL & 64 2555' FSL & 65 100' FSL & 650	dedicated ac 20 FEL OF S 9 FEL OF SE 50' FEL OF SE 0' FEL OF SE	ecreage change. There is no recreage change. There is no recrease change. There is no recrease control 25 -T25S-R30E certion 25 -T25S-R30E certion 36 -T25S-R30E		
	total depth is ch	anging from 26115 MD; 9670	TVD to 18458	MD; 10012 T	VD.		
<u>.</u>		true and correct. Name (Printed)	/Tvned)				
TERRA SEBASTIA		,	Title	Regulatory	Advisor		
Signature (Elec	tronic Submissio	on)	e	01/23/2	2025		
		THE SPACE FO	OR FEDERA	L OR STA	TE OFICE USE		_
Approved by							=
	VALLS / Ph: (575	5) 234-2234 / Approved		Petrole Title	eum Engineer	02/24/2025 Date	
certify that the applica	int holds legal or e	hed. Approval of this notice does equitable title to those rights in the duct operations thereon.		Office CAR	RLSBAD		
Title 18 U.S.C Section	n 1001 and Title 43	3 U.S.C Section 1212, make it a c	crime for any per	son knowingly	and willfully to make to any d	lepartment or agency of the United Sta	tes

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, 3162.3-4.

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**

Pool Code is changing FROM 97975 / WC-015 G-06 S243119C; Bone Spring TO 97814 / Wildcat G-015 S263001O; Bone Spring & 13354 / Corral Canyon; Bone Spring, South

See attached drilling program for the updated casing design, cement program & mud circulation system.

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

# **Location of Well**

0. SHL: SWNE / 2460 FNL / 1920 FEL / TWSP: 25S / RANGE: 30E / SECTION: 25 / LAT: 32.101756 / LONG: -103.83222 ( TVD: 0 feet, MD: 0 feet )

PPP: NWSE / 2663 FNL / 1651 FEL / TWSP: 25S / RANGE: 30E / SECTION: 25 / LAT: 32.101199 / LONG: -103.83135 ( TVD: 9670 feet, MD: 10500 feet )

PPP: NWNE / 0 FNL / 1626 FEL / TWSP: 26S / RANGE: 30E / SECTION: 1 / LAT: 32.079278 / LONG: -103.83142 ( TVD: 9670 feet, MD: 18500 feet )

PPP: SWNE / 2435 FNL / 1650 FEL / TWSP: 25S / RANGE: 30E / SECTION: 25 / LAT: 32.101825 / LONG: -103.831348 ( TVD: 9670 feet, MD: 10100 feet )

BHL: SWNE / 2560 FNL / 1650 FEL / TWSP: 26S / RANGE: 30E / SECTION: 12 / LAT: 32.057601 / LONG: -103.831489 ( TVD: 9670 feet, MD: 26115 feet )

# PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: XTO

LEASE NO.: NMLC063079A

LOCATION: Sec. 25, T.25 S, R 30 E

COUNTY: Eddy County, New Mexico

WELL NAME & NO.: Poker Lake Unit 25 BD 510H

SURFACE HOLE FOOTAGE: 2460'/N & 1920'/E

BOTTOM HOLE FOOTAGE: 10'/S & 650'/W

 $\mathbf{COA}$ 

H <sub>2</sub> S	•	No	0	Yes
Potash /	None	Secretary	© R-111-Q	Open Annulus
WIPP	Choose	e an option (including bla	nk option.)	□ WIPP
Cave / Karst	C 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.	C 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	

Changes approved through engineering via **Sundry 2833556** on 2-20-2025. Any previous COAs not addressed within the updated COAs still apply.

### 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 1150 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 6588'.
  - 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. Excess calculates to 52%. Additional cement maybe required. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst.
  - ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

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

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

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

# C. PRESSURE CONTROL

- 1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).
- 2. Operator has proposed a multi-bowl wellhead assembly. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.
  - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
  - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
  - c. Manufacturer representative shall install the test plug for the initial BOP test.
  - d. If the cement does not circulate and one-inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
  - e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172 must be followed.

# D. SPECIAL REQUIREMENT (S)

# **Unit Wells**

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

# **Commercial Well Determination**

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

# **BOPE Break Testing Variance**

- BOPE Break Testing is ONLY permitted for intervals utilizing a 5M BOPE or less. (Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP.)
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.

- Any well control event while drilling require notification to the BLM Petroleum Engineer (575-706-2779) prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-361-2822 Eddy County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per 43 CFR 3172.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

# **Offline Cementing**

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

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

# **Casing Clearance**

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

# **GENERAL REQUIREMENTS**

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

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

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

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

- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
  - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
  - b. When the operator proposes to set surface casing with Spudder Rig
    - i. Notify the BLM when moving in and removing the Spudder Rig.
    - ii. Notify the BLM when moving in the 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 2/21/2025** 575-234-5998 / zstevens@blm.gov

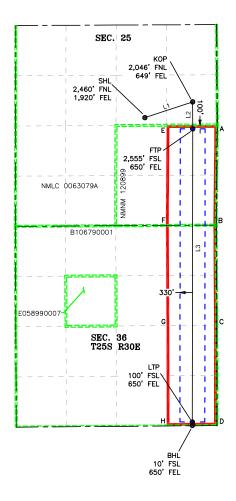
<u>C-10</u>	2				~		ew Mexico					Revised July 9, 2024
Submit Ele	Energy, Minerals & Natural Resources Department							nent		Тп	Initial Submittal	
	Permitting		OIL CONSERVATION DIVISION						Submittal	$\vdash$	Amended Report	
										Type:		As Drilled
			L									rts Diffied
A DI NI			n ia i		WELL LO		INFORMATION	N				
API Nui 30-0			Pool Code 13354			Pool Nam CC	e PRRAL CANYON;	BONE SPRI	NG, SOUTI			
Property	y Code		Property Name	POK	ER LAKE UN	NIT 25 BD				'	Vell Nu 510H	mber
ORGID 3730			Operator Name	хто	PERMIAN C	PERATIN	IG, LLC.			(	Ground 3,346	Level Elevation
Surface	Owner:	State   F	ee 🗌 Tribal 🛚	Federal			Mineral Owner: [	X State  F	ee 🗌 Tribal	l 🗶 Feder	al	
	T	1					Location					
UL G	Section 25	Township 25 S		Lot	Ft. from N/ 2,46	/S 60' FNL	Ft. from E/W 1,920' FEL	Latitude 32.101		ngitude -103.8322	220	County EDDY
UL	Section	Torroshi	- Danas	Lot	Ft. from N		ole Location Ft. from E/W	Latitude	L	an aisa da		Country
P	36	Township 25 S		Lot	10' F		650' FEL	32.079		ngitude -103.8282	270	County EDDY
	ed Acres	1	efining Well	Definir	ng Well API		Overlapping Spacing	g Unit (Y/N)	Consolidat			
160 Order N	lumbers.	DEF	FINING				N Well setbacks are un	nder Common	U Ownership: [		No	
					Τ	7:-1- Off:	Deline (MOD)					
UL	Section	Township	p Range	Lot	Ft. from N/		Point (KOP)  Ft. from E/W	Latitude	Lo	ongitude		County
Н	25	25 S			2,04	6' FNL	649' FEL	32.102		-103.8281	16	EDDY
UL	Section	Townshi	p Range	Lot	Ft. from N/		Point (FTP) Ft. from E/W	Latitude	1.0	ongitude		County
I	25	25 S		Lot	2,555	5' FSL	650' FEL	32.100		-103.8281	23	EDDY
UL	Section	Townshi	p Range	Lot	Ft. from N/		Point (LTP)  Ft. from E/W	Latitude	Lo	ongitude		County
Р	36	25 S			100' F		650' FEL	32.079		-103.8282	269	EDDY
Unitized	d Area or Are	a of Unifor	m Interest	Spacir	o Unit Type	M Horizon	tal  Vertical	Gr	ound Floor E	Elevation:		
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OPER	RATOR C	ERTIFIC	ATIONS				SURVEYOR	CERTIFIC	CATIONS			
			ion contained her and that this org				I hereby certify the notes of actual su					
interest	or unleased r	nineral inte	ana mai mis org rest in the land in is well at this loca	icluding t	he proposed be	ottom hole	is true and correc	t to the best o	f my belief. ESSIONAL SURV	FYOR NO.		
an owne	er of such a m	ineral or w	orking interest, o ing order heretof	r to a volı	ıntary pooling		21209, DO HEREBY 0	CERTIFY THAT TH	IS SURVEY PLA	T AND THE	<u> </u>	C. PAPA
	•		further certify th		•		ACTUAL SURVEY ON T WERE PERFORMED BY THAT I AM RESPONSI MEETS THE MINIMUM MEXICO, AND THAT IS MY KNOWLEDGE AND	BLE FOR THIS SI STANDARDS FOR TRUE AND COR	URVEY, THAT TH SURVEYING IN RECT TO THE E	HIS SURVEY NEW BEST OF	1) E	M WEXIC SO
the cons	sent of at leas in each tract	t one lessee (in the targ	or owner of a wo et pool or format d or obtained a c	orking inte ion) in wh	, erest or unleas nich any part o	ed mineral f the well's	MY KNOWLEDGE AND	21 J	Tan 20	25		21209
division		oe weate	or oorainea a c	ompuis01	, pooung jorm	i inc	TIM C. PAPPAS REGISTERED PROFESS STATE OF NEW MEXIC	IONAL LAND SUF	RVEYOR	1		ONAL SURVEY
San	ranth	e We	<u>is</u>	1/22/2	025		SIALL OF NEW MEXIC	110. 21209			C.S.S	ONAL SURY
Signature Date					Signature and Seal	of Profession	al Surveyor					
Sama	nthaWeis							I				
Printed	Name						Certificate Number		Date of Surv	•		
Sama: Email A		tnik@exx	onmobil.con	n			TIM C. PAPPA	S 21209	01/21/2	2025		
	Note: No al	lowable wil	l be assigned to	this comp	letion until al	ll interests I	ave been consolidate	ed or a non-ste	andard unit h	as been ap	provea	by the division.

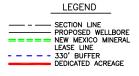


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<u>LINE TABLE</u>									
LINE	AZIMUTH	LENGTH							
L1	71° 41'29"	1,336.37'							
L2	179° 53'14"	716.22'							
L3	180° 03'54"	7,861.58'							

CORNER COORDINATES (NAD83 NME)										
A - Y =	400,922.9	N	A - X =	698,427.0	Е					
B - Y =	398,269.0	Ν	B - X =	698,399.2	Е					
C - Y =	395,615.4	Ν	C - X =	698,415.7	Е					
D - Y =	392,953.5	Ν	D - X =	698,417.0	Е					
E-Y=	400,916.2	Ν	E-X=	697,084.1	Е					
F - Y =	398,260.4	Ν	F - X =	697,066.8	Е					
G-Y=	395,604.7	Ν	G-X=	697,080.6	Е					
H - Y =	392,942.5	Ν	H-X=	697,086.9	Е					
CC	RNER COO	RDII	NATES (I	NAD27 NME)						
A - Y =	400,865.0	Ν	A - X =	657,241.5	Е					
B - Y =	398,211.1	Ν	B - X =	657,213.6	Е					
C - Y =	395,557.6	Ν	C - X =	657,230.0	Е					
D - Y =	392,895.8	Ν	D - X =	657,231.2	Е					
E-Y=	400,858.3	Ν	E - X =	655,898.6	Е					
F-Y=	398,202.5	Ν	F-X=	655,881.2	Е					
G-Y=	395,546.9	Ν	G-X=	655,894.9	Е					
H-Y=	392,884.8	N	H - X =	655,901.1	Е					

COORDINATE TABLE									
SH	L (NAD 83 NN	ſΕ)	F1	TP (NAD 83 NM	E)				
Y =	401,116.1	N	Y =	400,819.7	N				
X =	696,505.8	E	X =	697,775.9	Е				
LAT. =	32.101756	°N	LAT. =	32.100925	°N				
LONG. =	103.832220	°W	LONG. =	103.828123	°W				
КО	P (NAD 83 NI	ΛE)							
Y =	401,535.9	N							
X =	697,774.5	E							
LAT. =	32.102894	°N							
LONG. =	103.828116	°W							
LT	P (NAD 83 NN	IE)	В	HL (NAD 83 NM	E)				
Y =	393,048.1	N	Y =	392,958.1	N				
X =	697,767.0	Е	X =	697,767.0	Е				
LAT. =	32.079562	°N	LAT. =	32.079315	°N				
LONG. =	103.828269	°W	LONG. =	103.828270	°W				
SH	L (NAD 27 NN	ΛE)	FTP (NAD 27 NME)						
Y =	401,058.2	N	Y =	400,761.8	N				
X =	655,320.3	E	X =	656,590.4	Е				
LAT. =	32.101632	°N	LAT. =	32.100801	°N				
LONG. =	103.831740	°W	LONG. =	103.827643	°W				
KO	P (NAD 27 NI	ΛE)							
Y =	401,478.0	N							
X =	656,589.0	E							
LAT. =	32.102769	°N							
LONG. =	103.827637	°W							
LT	P (NAD 27 NN	IE)	ВІ	HL (NAD 27 NM	E)				
Y =	392,990.4	N	Y =	392,900.4	N				
X =	656,581.2	E	X =	656,581.2	Е				
LAT. =	32.079438	°N	LAT. =	32.079190	°N				
LONG. =	103.827790	°W	LONG. =	103.827792	°W				



2821 West 7th Street, Suite 200
Fort Worth, TX 76107
Ph: 817.349.9800 - Fax: 979.732.5271
TBPE Firm 17957 | TBPLS Firm 10193887
Www.fscinc.net
© COPYMENT 2027 - ALL MEMOTS RESERVED

 DATE:
 1-21-2025
 PROJECT NO:
 2023040134

 DRAWN BY:
 LM
 SCALE:
 1" = 2,000"

 CHECKED BY:
 CH
 SHEET:
 2 OF 2

 FIELD CREW:
 IR
 REVISION:

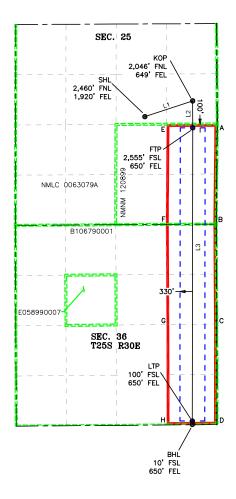
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<u>C-10</u> 2	2				Sta	te of N	ew Mexico					Revised July 9, 2024
Submit Ele	Energy, Minerals & Natural Resources Department							nent		Тп	Initial Submittal	
	Permitting	UII UUNNERVATIUN INVINUN						Submittal	_	Amended Report		
										Type:		As Drilled
												As Dillieu
					WELL LO		INFORMATION	N				
API Nui 30-0			Pool Code 97814			Pool Nam WI	ne ILDCAT G-015 S26	63001O; BOI	NE SPRING	3		
Property	y Code		Property Name	POK	ER LAKE UN	NIT 25 BD	1			'	Well Nu 510H	ımber
ORGID 3730			Operator Name	хто	PERMIAN C	PERATIN	NG, LLC.			(	Ground 3,346	Level Elevation
Surface	Owner:	State  F	ee 🗌 Tribal 🛚	Federal			Mineral Owner: [	X State  F	Fee 🗌 Tribal	l 🗓 Feder	al	
						Surface	Location					
UL G	Section 25	Township 25 S		Lot	Ft. from N/ 2,46	/s 60' FNL	Ft. from E/W 1,920' FEL	Latitude 32.101		ongitude -103.8322	220	County EDDY
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UL P	Section 36	Township 25 S		Lot	Ft. from N/ 10' FS		Ft. from E/W 650' FEL	Latitude 32.079		ngitude -103.8282	270	County
Dedicate 80	ed Acres		efining Well	Definir	ng Well API		Overlapping Spacing	g Unit (Y/N)	Consolidat			
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						7:-1- Off	D-' (IZOD)					
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Unitize	d Area or Are	ea of Unifor	m Interest	Spacir	ng Unit Type	— Horizor	ntal  Vertical	Gr	ound Floor E	levation:		
			-071016X	7		Z Honzon	Territoria			(	3,346'	
ODEI	DATOR C	EDTIEIC	CATIONS				CLIDVEVOD	CEDITIEIC	ATIONS			
OPER	RATOR C	EKTIFIC	ATIONS				SURVEYOR	CERTIFIC	AHONS			
			ion contained her and that this org				I hereby certify the notes of actual su					
interest	or unleased r	nineral inte	rest in the land in is well at this loca	cluding t	he proposed be	ottom hole	is true and correc	t to the best o	f my belief. FSSIONAL SURV	FYOR NO		
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	,									

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

XTO Energy Inc.

POKER LAKE UNIT 25 BD 510H

Projected TD: 18458.25' MD / 10012' TVD

SHL: 2460' FNL & 1920' FEL , Section 25, T25S, R30E

BHL: 10' FSL & 650' FEL , Section 36, T25S, R30E

EDDY County, NM

# 1. Geologic Name of Surface Formation

A. Quaternary

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

Formation	Well Depth (TVD)	Water/Oil/Gas
Rustler	1013'	Water
Top of Sa <b>l</b> t	1309'	Water
Base of Salt	3870'	Water
Delaware	4015'	Water
Brushy Canyon	6655'	Water/Oil/Gas
Bone Spring	7978'	Water
Ava <b>l</b> on	8110'	Water/Oil/Gas
1st Bone Spring	8730'	Water/Oil/Gas
2nd Bone Spring	9213'	Water/Oil/Gas
Target/Land Curve	10012'	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 @ 1113' (196' 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 9275.72' and cemented to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 18458.25 MD/TD and 5.5 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 8975.72 feet).

# 3. Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0' – 1113'	9.625	40	J-55	втс	New	1.42	5.66	14.15
8.75	0' – 4000'	7.625	29.7	RY P-110	Flush Joint	New	3.73	2.57	2.03
8.75	4000' – 9275.72'	7.625	29.7	HC L-80	F <b>l</b> ush Joint	New	2.71	2.05	2.59
6.75	0' – 9175.72'	5.5	20	RY P-110	Semi-Premium / Freedom	New	1.05	2.56	2.40
6.75	9175.72' - 18458.25'	5.5	20	RY P-110	Semi-F <b>l</b> ush / Ta <b>l</b> on	New	1.05	2.34	2.40

<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).

#### Wellhead:

XTO will use a 3 String Slim Hole Multi-Bowl System

#### 4. Cement Program

#### Surface Casing: 9.625, 40 New BTC, J-55 casing to be set at +/- 1113'

Lead: 270 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

### Intermediate Casing: 7.625, 29.7 New casing to be set at +/- 9275.72'

1st Stage

Optional Lead: 360 sxs Class C (mixed at 10.5 ppg, 2.77 ft3/sx, 15.59 gal/sx water)

TOC: Surface

Tail: 240 sxs Class C (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)

TOC: Brushy Canyon @ 6655

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: 750 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 (6655') 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 / Talon, RY P-110 casing to be set at +/- 18458.25'

Lead: 20 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft3/sx, 15.00 gal/sx water) Top of Cement: 8975.72 feet
Tail: 640 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft3/sx, 8.38 gal/sx water) Top of Cement: 9475.72 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 casing, the blow out preventer equipment (BOP) will consist of 5M Hydril and 10M 3-Ram BOP.

All BOP testing will be done by an independent service company. Operator will test as per BLM CFR43-3172

A variance is requested to allow use of a flex hose as the choke line from the BOP to the Choke Manifold. .

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.

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. 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. When skidding to drill an intermediate section that does not penetrate into the Wolfcamp.

### 6. Proposed Mud Circulation System

INTERVAL	Hole Size	Mud Type	MW	Viscosity	Fluid Loss	Additional
INTERVAL	Hole Size	Mud Type	(ppg)	(sec/qt)	(cc)	Comments
0' - 1113'	12.25	FW/Native	8.4-8.9	35-40	NC	Fresh water or native water
1113' - 4015'	8.75	Saturated brine	10 - 10.5	30-32	NC	Fully saturated salt
4015' - 9275.72'	8.75	Brine Direct Emulsion / Brine	10-10.5	30-32	NC	Depending on well conditions
9275.72' - 18458.25'	6.75	ОВМ	9.1-9.6	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. A saturated salt brine 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 165 to 185 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.

## 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.

Semi-minor

Poker Lake Unit 25 BD 510H

Position Uncertainty

Well Plan Report

# Well Plan Report - Poker Lake Unit 25 BD 510H

<sup>22/24, 3:22 PM</sup> Well Plan Report - Poker Lake Unit 25 B	Measured Depth: 18458.25 ft	<b>3</b> : 10012.00 ft		Cartographic New Mexico East - Reference System: NAD 27	ing: 401058.20 ft	ig: 655320.30 ft	3378.00 ft	<b>Ground Level:</b> 3346.00 ft	North Reference:	Convergence Angle: 0.27 Deg
10/22/24, 3:22 PM  Well Plai	Measure	TVD RKB:	Location	Carto Refere	Northing:	Easting:	RKB:	Grour	North	Conve

Plan Sections	Pok	Poker Lake Unit 25 BD 51	BD 510H					
Measured			DVT			Build	Turn	Dogleg
Depth	Inclination	Azimuth	RKB	Y Offset	X Offset	Rate	Rate	Rate
(ft)	(Ded)	(Ded)	(ff)	(#)	(#)	(Deg/100ft)	(Deg/100ft)	(Deg/100ft) Target
00.00	00.00	00.00	0.00	00.00	00.0	0.00	0.00	0.00
1100.00	00.00	00.00	1100.00	00.00	00.0	0.00	0.00	00.00
1913.08	16.26	71.69	1902.20	36.00	108.81	2.00	0.00	2.00
5866.84	16.26	71.69	5697.80	383.79	1159.90	0.00	0.00	0.00
6679.92	00.00	00.00	6500.00	419.80	1268.71	-2.00	0.00	2.00
9475.72	00.00	00.00	9295.80	419.80	1268.71	00.00	00.00	00.00
10600.72	00.06	179.89	10012.00	-296.40	1270.10	8.00	0.00	8.00 FTP 3
18368.27	00'06	179.89	10012.00	-8063.94	1285.15	00.00	00.00	0.00 LTP 3
18458.25	00.06	179.89	10012.00	-8153.91	1285.32	00.00	00:00	0.00 BHL 3

Semi- minor	
Semi- major	
Magnitude	
Vertical	3D510H.HTML
Lateral	s/PokerLakeUnit25
TVD Highside	riva/Landmark/DecisionSpace/WellPlanning/Reports/PokerLakeUnit25BD510H.HTML
Measured	file:///C:/Users/arsriv

	Azimuth Used	(,)	0.000 XOM_R2OWSG MWD+IFR1+MS	90.000 XOM R2OWSG MWD+IFR1+MS	90.000 XOM R2OWSG MWD+IFR1+MS	90.000 XOM R2OWSG MWD+IFR1+MS	90.000 XOM_R2OWSG MWD+IFR1+MS	90.000 XOM R2OWSG MWD+IFR1+MS	90.000 XOM R2OWSG MWD+IFR1+MS	90.000 XOM R2OWSG MWD+IFR1+MS	90.096 XOM R2OWSG MWD+IFR1+MS	90.399 XOM R2OWSG MWD+IFR1+MS	90.766 XOM_R2OWSG MWD+IFR1+MS	91.157 XOM_R2OWSG MWD+IFR1+MS	91.528 XOM_R2OWSG MWD+IFR1+MS	91.832 XOM_R2OWSG MWD+IFR1+MS	92.018 XOM_R2OWSG MWD+IFR1+MS				
	Error	<b>(#</b> )	0.000	0.179	0.538	0.896	1.255	1.613	1.972	2.330	2.689	3.047	3.405	3.764	4.116	4.465	4.815	5.167	5.519	5.873	6.228
	Error	<b>(#</b> )	0.000	0.358	0.717	1.075	1.434	1.792	2.151	2.509	2.868	3.226	3.585	3.943	4.296	4.645	4.996	5.349	5.705	6.063	6.425
Well Plan Report	of Bias	(#)	0000	00000	00000	00000	00000	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	00000
Well Pla	Error Bias	(ft) (ft)	0.000 0.000	2.300 0.000	2.310 0.000	2.325 0.000	2.347 0.000	2.374 0.000	2.406 0.000	2.443 0.000	2.485 0.000	2.531 0.000	2.581 0.000	2.634 0.000	2.690 0.000	2.747 0.000	2.805 0.000	2.865 0.000	2.926 0.000	2.989 0.000	3.055 0.000
	Bias	(£)	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
	Error	(#)	0.000	0.179	0.538	0.896	1.255	1.613	1.972	2.330	2.689	3.047	3.405	3.764	4.278	4.627	4.977	5.329	5.684	6.041	6.401
	Error Bias	(ft) (ft)	0.000 0.000	0.358 0.000	0.717 0.000	1.075 0.000	1.434 0.000	1.792 0.000	2.151 0.000	2.509 0.000	2.868 0.000	3.226 0.000	3.585 0.000	3.943 0.000	4.133 0.000	4.474 0.000	4.813 0.000	5.148 0.000	5.479 0.000	5.807 0.000	6.132 0.000
	RKB	<b>(#</b> )	0.000	100.000	200.000	300.000	400.000	500.000	000.009	700.000	800.000	900.006	1000.000	1100.000	1199.980	1299.838	1399.452	1498.702	1597.465	1695.623	1793.055
	Azimuth	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	71.691	71.691	71.691	71.691	71.691	71.691	71.691
	Depth Inclination Azimuth	<b>©</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.000	4.000	00009	8.000	10.000	12.000	14.000
10/22/24, 3:23 PM		(#)	0.000	100.000	200.000	300.000	400.000	500.000	000.009	700.000	800.000	000'006	1000.000	1100.000	1200.000	1300.000	1400.000	1500.000	1600.000	1700.000	1800.000
	eleas	ed to	Imag	ging: 3	/17/20	25 10:.	58:57	4M													

	92.039 XOM_R2OWSG MWD-IFR1+MS	92.337 XOM_R2OWSG MWD+IFR1+MS	91.757 XOM_R2OWSG MWD+IFR1+MS	91.170 XOM_R2OWSG MWD+IFR1+MS	90.709 XOM_R2OWSG MWD+IFR1+MS	90.343 XOM_R2OWSG MWD-IFR1+MS	90.050 XOM R2OWSG MWD+IFR1+MS	89.815 XOM_R2OWSG MWD+IFR1+MS	89.625 XOM_R2OWSG MWD-IFR1+MS	89.472 XOM R2OWSG MWD+IFR1+MS	89.348 XOM R2OWSG MWD+IFR1+MS	89.249 XOM_R2OWSG MWD+IFR1+MS	89.170 XOM_R2OWSG MWD-IFR1+MS	89.107 XOM_R2OWSG MWD+IFR1+MS	89.057 XOM_R2OWSG MWD+IFR1+MS	89.019 XOM_R2OWSG MWD-IFR1+MS	88.991 XOM_R2OWSG MWD+IFR1+MS	88.971 XOM_R2OWSG MWD+IFR1+MS	88.958 XOM_R2OWSG MWD+IFR1+MS	88.950 XOM_R2OWSG MWD-IFR1+MS
	6.584	6.633	6.940	7.297	7.656	8.019	8.385	8.753	9.124	9.496	8.869	10.244	10.621	10.999	11.377	11.757	12.138	12.519	12.901	13.284
	6.790	6.838	7.159	7.533	7.909	8.288	8.670	9.054	9.440	9.827	10.216	10.606	10.998	11.390	11.783	12.178	12.573	12.969	13.365	13.762
Well Plan Report	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 Pl	3.125 0.000	3.128 0.000	3.206 0.000	3.300 0.000	3.400 0.000	3.503 0.000	3.610 0.000	3.720 0.000	3.833 0.000	3.950 0.000	4.069 0.000	4.190 0.000	4.314 0.000	4.440 0.000	4.569 0.000	4.699 0.000	4.832 0.000	4.966 0.000	5.102 0.000	5.240 0.000
	0.000	0.000	0.000	000.0	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
	6.765	6.813	7.134	7.507	7.882	8.261	8.642	9.025	9.410	9.797	10.185	10.574	10.964	11.356	11.748	12.141	12.535	12.930	13.325	13.721
	6.456 0.000	6.498 0.000	6.818 0.000	7.191 0.000	7.568 0.000	7.947 0.000	8.330 0.000	8.715 0.000	9.103 0.000	9.492 0.000	9.883 0.000	10.275 0.000	10.669 0.000	11.064 0.000	11.460 0.000	11.857 0.000	12.255 0.000	12.653 0.000	13.052 0.000	13.452 0.000
	1889.643	1902.203	1985.651	2081.650	2177.649	2273.649	2369.648	2465.647	2561.647	2657.646	2753.645	2849.645	2945.644	3041.644	3137.643	3233.642	3329.642	3425.641	3521.640	3617.640
	71.691	71.691	71.691	71.691	71.691	71.691	71.691	71.691	71.691	71.691	71.691	71.691	71.691	71.691	71.691	71.691	71.691	71.691	71.691	71.691
	16.000	16.262	16.262	16.262	16.262	16.262	16.262	16.262	16.262	16.262	16.262	16.262	16.262	16.262	16.262	16.262	16.262	16.262	16.262	16.262
10/22/24, 3:23 PM	1900.000	1913.075	2000.000	2100.000	2200.000	2300.000	2400.000	2500.000	2600.000	2700.000	2800.000	2900.000	3000.000	3100.000	3200.000	3300.000	3400.000	3500.000	3600.000	3700.000
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	XOM_R2OWSG MWD+IFR1+MS	XOM_R2OWSG MWD+IFR1+MS	, XOM_R2OWSG MWD+IFR1+MS	XOM_R2OWSG MWD+IFR1+MS	XOM_R2OWSG MWD+IFR1+MS	XOM_R2OWSG MWD+IFR1+MS	XOM_R2OWSG MWD+IFR1+MS	, XOM_R2OWSG MWD+IFR1+MS	, XOM_R2OWSG MWD+IFR1+MS	XOM_R2OWSG MWD+IFR1+MS	, XOM_R2OWSG MWD+IFR1+MS	XOM_R2OWSG MWD+IFR1+MS								
	88.948	88.950	88.957	88.966	88.978	88.993	89.010	89.028	89.049	89.071	89.094	89.119	89.145	89.171	89.199	89.227	89.257	89.286	89.317	89.348
	13.667	14.051	14.436	14.821	15.206	15.592	15.979	16.365	16.752	17.140	17.527	17.915	18.303	18.692	19.081	19.470	19.859	20.248	20.638	21.028
	14.159	14.557	14.956	15.355	15.754	16.154	16.554	16.954	17.354	17.755	18.156	18.558	18.959	19.361	19.763	20.165	20.567	20.970	21.372	21.775
Well Plan Report	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 Pla	5.380 0.000	5.521 0.000	5.664 0.000	5.808 0.000	5.954 0.000	6.101 0.000	6.250 0.000	6.401 0.000	6.553 0.000	6.707 0.000	6.862 0.000	7.019 0.000	7.177 0.000	7.336 0.000	7.498 0.000	7.660 0.000	7.825 0.000	7.991 0.000	8.158 0.000	8.327 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
	14.117	14.514	14.911	15.308	15.706	16.105	16.504	16.902	17.302	17.701	18.101	18.501	18.901	19.302	19.702	20.103	20.504	20.905	21.306	21.708
	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
	13.853	14.254	14.655	15.057	15.459	15.862	16.265	16.669	17.072	17.476	17.881	18.285	18.690	19.095	19.500	19.905	20.311	20.717	21.123	21.529
	3713.639	3809.639	3905 638	4001.637	4097.637	4193.636	4289.635	4385.635	4481.634	4577.633	4673.633	4769.632	4865.632	4961.631	5057.630	5153.630	5249.629	5345.628	5441.628	5537.627
	71.691	71.691	71.691	71.691	71.691	71.691	71.691	71.691	71.691	71.691	71.691	71.691	71.691	71.691	71.691	71.691	71.691	71.691	71.691	71.691
	16.262	16.262	16.262	16.262	16.262	16.262	16.262	16.262	16.262	16.262	16.262	16.262	16.262	16.262	16.262	16.262	16.262	16.262	16.262	16.262
10/22/24, 3:23 PM	3800.000	3900.000	4000.000	4100.000	4200.000	4300.000	4400.000	4500.000	4600.000	4700.000	4800.000	4900.000	5000.000	5100.000	5200.000	5300.000	5400.000	5500.000	5600.000	5700.000

	89.380 XOM_R2OWSG MWD+IFR1+MS	89.404 XOM_R2OWSG MWD+IFR1+MS	89.413 XOM_R2OWSG MWD+IFR1+MS	89.468 XOM_R2OWSG MWD+IFR1+MS	89.560 XOM_R2OWSG MWD+IFR1+MS	89.685 XOM_R2OWSG MWD+IFR1+MS	89.825 XOM_R2OWSG MWD+IFR1+MS	89.962 XOM_R2OWSG MWD+IFR1+MS	90.081 XOM_R2OWSG MWD+IFR1+MS	90.165 XOM_R2OWSG MWD+IFR1+MS	90.120 XOM_R2OWSG MWD+IFR1+MS	90.085 XOM_R2OWSG MWD+IFR1+MS	89.917 XOM_R2OWSG MWD+IFR1+MS	89.754 XOM_R2OWSG MWD+IFR1+MS	89.598 XOM_R2OWSG MWD+IFR1+MS	89.447 XOM_R2OWSG MWD+IFR1+MS	89.301 XOM_R2OWSG MWD+IFR1+MS	89.160 XOM_R2OWSG MWD+IFR1+MS	89.024 XOM_R2OWSG MWD+IFR1+MS	88.892 XOM_R2OWSG MWD+IFR1+MS
	21.418	21.678	21.807	22.192	22.571	22.943	23.307	23.664	24.011	24.349	24.609	24.673	24.992	25.312	25.633	25.956	26.279	26.603	26.928	27.253
	22.178	22.447	22.580	22.976	23.362	23.739	24.106	24.463	24.811	25.148	25.410	25.475	25.799	26.124	26.449	26.776	27.103	27.431	27.760	28.090
Well Plan Report	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 Pi	8.498 0.000	8.613 0.000	8.670 0.000	8.841 0.000	0000 00006	9.164 0.000	9.315 0.000	9.461 0.000	9.601 0.000	9.736 0.000	9.841 0.000	9.867 0.000	000.0 866.6	10.133 0.000	10.270 0.000	10.409 0.000	10.552 0.000	10.698 0.000	10.847 0.000	10.998 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
	22.109	22.377	22.510	22.904	23.289	23.664	24.030	24.386	24.732	25.069	24.609	24.673	24.992	25.312	25.633	25.956	26.279	26.603	26.928	27.254
	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	
	21.935 0.000	22.206 0.0	22.353	22.774	23.160	23.512	23.828	24.107	24.350	24.555	25.410	25.475	25.799	26.124	26.449	26.776	27.103	27.431	27.760	28.089 0.000
	5633.626	5697.797	5729.679	5826.445	5924 033	6022.322	6121.193	6220.525	6320.199	6420.091	6500.000	6520.080	6620.080	6720.080	6820.080	6920.080	7020.080	7120.080	7220.080	7320.080
	71.691	71.691	71.691	71.691	71.691	71.691	71.691	71.691	71.691	71.691	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	16.262	16.262	15.598	13.598	11.598	9.598	7.598	5.598	3.598	1.598	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10/22/24, 3:23 PM	5800.000	5866.845	5900,000	000.0009	6100.000	6200.000	6300.000	6400.000	6500.000	000.0099	6679.920	6700.000	6800.000	000.0069	7000.000	7100.000	7200.000	7300.000	7400.000	7500.000
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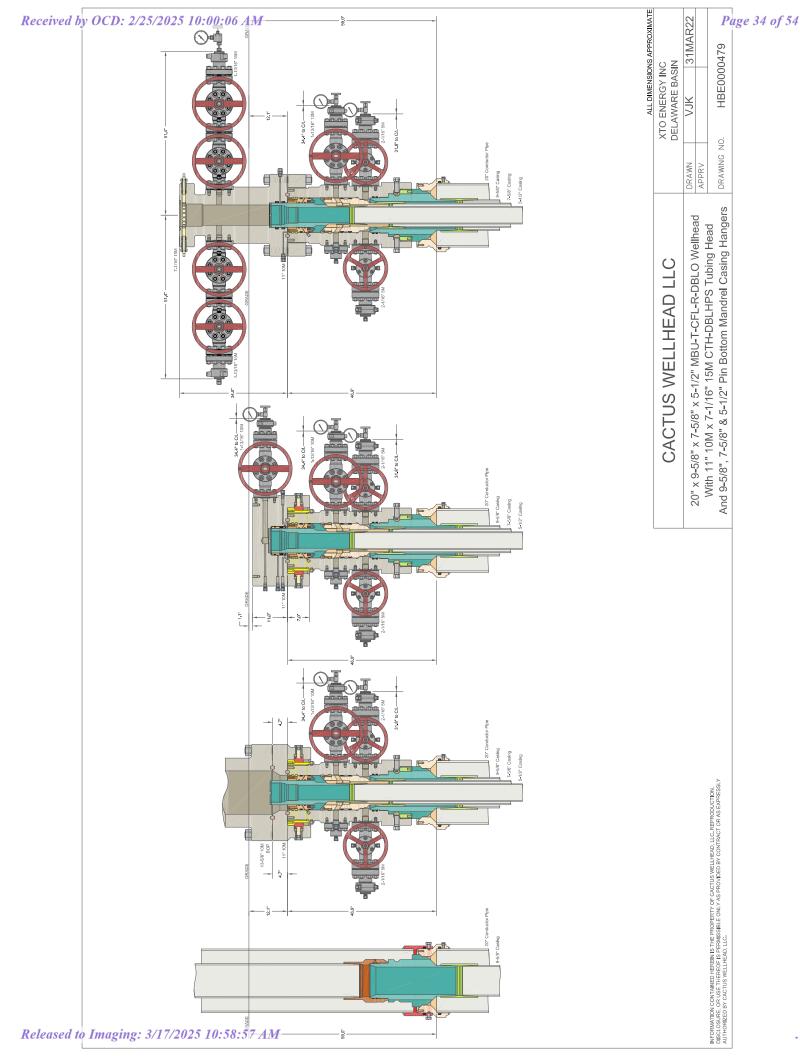
	XOM_R2OWSG MWD+IFR1+MS	XOM_R2OWSG MWD+IFR1+MS	XOM_R2OWSG MWD+IFR1+MS	XOM_R2OWSG MWD+IFR1+MS	XOM_R2OWSG XOMD+IFR1+MS	XOM_R2OWSG MWD+IFR1+MS	XOM_R2OWSG MWD+IFR1+MS	XOM_R2OWSG MWD+IFR1+MS	XOM_R2OWSG MWD+IFR1+MS	XOM_R2OWSG MWD+IFR1+MS	XOM_R2OWSG MWD+IFR1+MS	62 XOM_R2OWSG MWD+IFR1+MS	XOM_R2OWSG MWD+IFR1+MS	XOM_R2OWSG MWD+IFR1+MS	XOM_R2OWSG MWD+IFR1+MS					
	86.930	86.611	86.062	85.364	84.639	84.046	83.812	84.288	86.089	90.302	98.293	109.162	118.547	125.716	131.098	-44.740	-41.402	-38.636	-36.283	-34.242
	33.903	34.210	34.503	34.777	35.029	35.259	35.465	35.647	35.805	35.935	36.026	36.061	36.058	36.047	36.033	36.019	36.005	35.993	35.983	35.974
	34.799	35.100	35.382	35.636	35.857	36.040	36.184	36.288	36.357	36.398	36.428	36.474	36.545	36.641	36.755	36.887	37.033	37.194	37.368	37.556
Well Plan Report	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 Pla	14.679 0.000	14.891 0.000	15.098 0.000	15.299 0.000	15.498 0.000	15.699 0.000	15.908 0.000	16.130 0.000	16.373 0.000	16.640 0.000	16.933 0.000	17.252 0.000	17.590 0.000	17.959 0.000	18.355 0.000	18.774 0.000	19.217 0.000	19.681 0.000	20.165 0.000	20.667 0.000
	34.728 0.000 33.905 -0.000	34.403 0.000 34.213 -0.000	33.525 0.000 34.507 -0.000	32.128 0.000 34.782 -0.000	30.268 0.000 35.036 -0.000	28.029 0.000 35.267 -0.000	25.529 0.000 35.473 -0.000	22.934 0.000 35.653 -0.000	20.477 0.000 35.807 -0.000	18.474 0.000 35.935 -0.000	17.297 0.000 36.035 -0.000	17.252 0.000 36.107 -0.000	17.590 0.000 36.171 -0.000	17.959 0.000 36.252 -0.000	18.355 0.000 36.348 -0.000	18.774 0.000 36.461 -0.000	19.217 0.000 36.589 -0.000	19.681 0.000 36.733 -0.000	20.165 0.000 36.891 -0.000	20.667 0.000 37.065 -0.000
	9320.076	9419.458	9516.433	9609.113	9692.696	9774,495	9843.977	9902.789	9949.787	9984.056	81.942 179.889 10004.929	90.000 179.889 10012.000	179.889 10012.000	179.889 10012.000	179.889 10012.000	90.000 179.889 10012.000	90.000 179.889 10012.000	179.889 10012.000	179.889 10012.000	90.000 179.889 10012.000
	1.942 179.889	179.889	179.889	179.889	179.889	179.889	179.889	179.889	179.889	179.889	179.889	179.889	179.889	179.889	179.889	179.889	179.889	179.889	179.889	179.889
	1.942	9.942	17.942	25.942	33.942	41.942 179.889	49.942	57.942	65.942	73.942	81.942	90.000	90.000	90.00	90.00	90.000	90.000	90.000	90.00	90.000
10/22/24, 3:23 PM	9500.000	000'0096	9700.000	9800.000	000'0066	10000.000	10100.000	10200.000	10300.000	10400.000	10500.000	10600.722	10700.000	10800.000	10900.000	11000.000	11100.000	11200.000	11300.000	11400.000

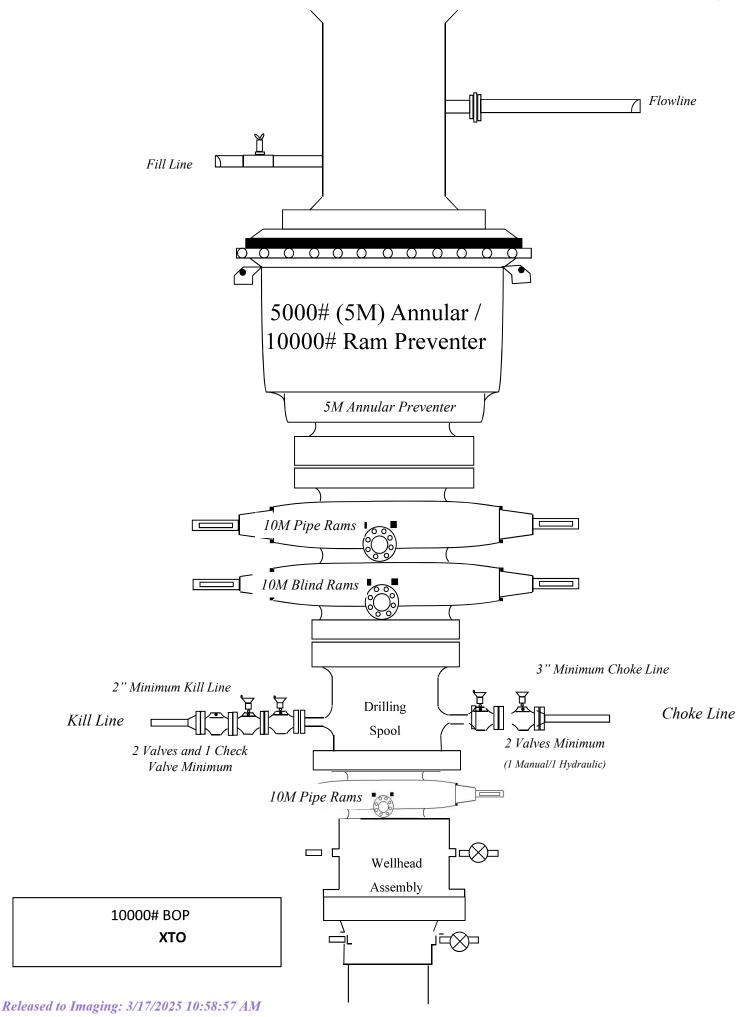
	-15.857 XOM R2OWSG MWD+IFR1+MS	-15.453 XOM R2OWSG MWD+IFR1+MS	-15.069 XOM R2OWSG MWD+IFR1+MS	-14.703 XOM_R2OWSG -14.703 MWD+IFR1+MS	-14.354 XOM R2OWSG -1WD+IFR1+MS	-14.021 XOM R2OWSG -1WD+IFR1+MS	-13.703 XOM R2OWSG MWD+IFR1+MS	-13.398 XOM R2OWSG MWD+IFR1+MS	-13.106 XOM R2OWSG MWD+IFR1+MS	-12.826 XOM R2OWSG MWD+IFR1+MS	-12.558 XOM R2OWSG MWD+IFR1+MS	-12.301 XOM R2OWSG MWD+IFR1+MS	-12.054 XOM R2OWSG -12.054 MWD+IFR1+MS	-11.816 XOM R2OWSG -MWD+IFR1+MS	-11.587 XOM R2OWSG MWD+IFR1+MS	-11.367 XOM R2OWSG -MWD+IFR1+MS	-11.155 XOM R2OWSG -MWD+IFR1+MS	-10.951 XOM_R2OWSG MWD+IFR1+MS	-10.754 XOM_R2OWSG -10.754 MWD+IFR1+MS	-10.563 XOM_R2OWSG MWD+IFR1+MS
	36.137	36.156	36.176	36.197	36.218	36.240	36.263	36.287	36.312	36.337	36.363	36.389	36.417	36.444	36.473	36.502	36.532	36.563	36.594	36.626
	44.300	44.736	45.180	45.633	46.094	46.563	47.040	47.524	48.015	48.513	49.018	49.530	50.048	50.572	51.102	51.638	52.180	52.727	53.279	53.837
Well Plan Report	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 Pla	33.799 0.000	34.496 0.000	35.197 0.000	35.901 0.000	36.608 0.000	37.319 0.000	38.033 0.000	38.749 0.000	39.468 0.000	40.189 0.000	40.913 0.000	41.639 0.000	42.367 0.000	43.097 0.000	43.829 0.000	44.562 0.000	45.298 0.000	46.035 0.000	46.773 0.000	47.514 0.000
	.000 43.750 -0.000	.000 44.189 -0.000	.000 44.637 -0.000	.000 45.093 -0.000	.000 45.557 -0.000	.000 46.030 -0.000	.000 46.510 -0.000	.000 46.997 -0.000	.000 47.492 -0.000	.000 47.994 -0.000	.000 48.503 -0.000	.000 49.019 -0.000	.000 49.541 -0.000	.000 50.069 -0.000	.000 50.603 -0.000	.000 51.143 -0.000	.000 51.689 -0.000	.000 52.240 -0.000	.000 52.797 -0.000	.000 53.359 -0.000
	33.799 0.0	34.496 0.0	35.197 0.0	35.901 0.0	36.608 0.0	37.319 0.0	38.033 0.0	38.749 0.0	39.468 0.0	40.189 0.0	40.913 0.0	41.639 0.0	42.367 0.0	43.097 0.0	43.829 0.0	44.562 0.0	45.298 0.0	46.035 0.0	46.773 0.0	47.514 0.0
	179.889 10012.000	179.889 10012.000	10012.000	179.889 10012.000	10012.000	10012.000	10012.000	10012.000	10012.000	10012.000	179.889 10012.000	10012.000	10012.000	10012.000	10012.000	179.889 10012.000	179.889 10012.000	10012.000	10012.000	179.889 10012.000
	179.889	179.889	179.889	179.889	179.889	179.889	179.889	179.889	179.889	179.889	179.889	179.889	179.889	179.889	179.889	179.889	179.889	179.889	179.889	179.889
	90.000	90.000	90.000	90.000	90.000	90.000	90.000	90.000	90.000	90.000	90.000	90.000	90.000	90.000	90.000	90.000	90.000	90.000	90.000	90.000
10/22/24, 3:23 PM	13500.000	13600.000	13700.000	13800.000	13900.000	14000.000	14100.000	14200.000	14300.000	14400.000	14500.000	14600.000	14700.000	14800.000	14900.000	15000.000	15100.000	15200.000	15300.000	15400.000
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	-10.380 XOM_R2OWSG MWD+IFR1+MS	-10.202 XOM_R2OWSG MWD+IFR1+MS	-10.031 XOM_R2OWSG MWD+IFR1+MS	-9.865 MWD+IFR1+MS	-9.704 XOM_R2OWSG MWD+IFR1+MS	-9.549 XOM_R2OWSG MWD+IFR1+MS	-9.398 XOM_R2OWSG MWD+IFR1+MS	-9.252 MWD+IFR1+MS	-9.111 XOM_R2OWSG MWD+IFR1+MS	-8.973 XOM_R2OWSG MWD+IFR1+MS	-8.840 XOM_R2OWSG MWD-IFR1+MS	-8.711 XOM_R2OWSG -8.711 MWD-IFR1+MS	-8.585 MWD-IFR1+MS	-8.463 XOM_R2OWSG MWD+IFR1+MS	-8.344 XOM_R2OWSG MWD+IFR1+MS	-8.229 XOM_R2OWSG MWD+IFR1+MS	-8.117 XOM_R2OWSG -8.117 MWD+IFR1+MS	-8.008 XOM_R2OWSG MWD+IFR1+MS	-7.901 XOM_R2OWSG -7.901 MWD+IFR1+MS	-7.798 XOM_R2OWSG MWD+IFR1+MS
	36.659	36.692	36.726	36.761	36.796	36.832	36.868	36.905	36.943	36.981	37.020	37.059	37.099	37.140	37.181	37.223	37.265	37.308	37.352	37.396
	54.399	54.967	55.539	56.116	56.697	57.282	57.872	58.465	59.063	59.664	60.269	60.878	61.490	62.105	62.724	63.345	63.970	64.598	65.229	65.863
Well Plan Report	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 Pl	48.255 0.000	48.998 0.000	49.742 0.000	50.487 0.000	51.234 0.000	51.982 0.000	52.730 0.000	53.480 0.000	54.231 0.000	54.983 0.000	55.735 0.000	56.489 0.000	57.243 0.000	57.998 0.000	58.754 0.000	59.511 0.000	60.268 0.000	61.026 0.000	61.785 0.000	62.544 0.000
	48.255 0.000 53.925 -0.000	48.998 0.000 54.497 -0.000	49.742 0.000 55.073 -0.000	50.487 0.000 55.654 -0.000	51.234 0.000 56.239 -0.000	51.982 0.000 56.829 -0.000	52.730 0.000 57.422 -0.000	53.480 0.000 58.020 -0.000	54.231 0.000 58.621 -0.000	54.983 0.000 59.226 -0.000	55.735 0.000 59.835 -0.000	56.489 0.000 60.448 -0.000	57.243 0.000 61.063 -0.000	57.998 0.000 61.683 -0.000	58.754 0.000 62.305 -0.000	59.511 0.000 62.930 -0.000	60.268 0.000 63.559 -0.000	61.026 0.000 64.191 -0.000	61.785 0.000 64.825 -0.000	62.544 0.000 65.462 -0.000
	179.889 10012.000 4	179.889 10012.000 4	179.889 10012.000 4	179.889 10012.000 5	179.889 10012.000 5	179.889 10012.000 5	179.889 10012.000 5	179.889 10012.000 5	179.889 10012.000 5	179.889 10012.000 5	179.889 10012.000 5	179.889 10012.000 5	179.889 10012.000 5	179.889 10012.000 5	179.889 10012.000 5	179.889 10012.000 5	179.889 10012.000 6	179.889 10012.000 6	179.889 10012.000 6	179.889 10012.000 6
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1/22/24, 3:23 PM	15500.000	12600.000	15700.000	15800.000	15900.000	16000.000	16100.000	16200.000	16300.000	16400.000	16500.000	16600.000	16700.000	16800.000	16900.000	17000.000	17100.000	17200.000	17300.000	17400.000
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10/22/24, 3:23 PM					Well Plan Report	ı Report			
17500.000	90.000	90.000 179.889 10012.000	63.304 0.000	0.000 66.102 -0.000	63.304 0.000	0.000	66.499	37.440	-7.697 XOM_R2OWSG MWD+IFR1+MS
17600.000	90.000	179.889 10012.000	64.065 0.000	66.744 -0.000	64.065 0.000	0.000	67.138	37.486	-7.599 XOM_R2OWSG MWD+IFR1+MS
17700.000	90.000	90.000 179.889 10012.000	64.826 0.000 6	67.389 -0.000	64.826 0.000	0.000	67.779	37.532	-7.503 XOM_R2OWSG
17800.000	90.000	179.889 10012.000	65.588 0.000 (	68.037 -0.000	65.588 0.000	0.000	68.424	37.578	-7.410 XOM_R2OWSG MWD+IFR1+MS
17900.000	90.000	179.889 10012.000	66.350 0.000	68.687 -0.000	66.350 0.000	0.000	69.070	37.625	-7.318 XOM_R2OWSG -7.318 MWD+IFR1+MS
18000.000	90.000	179.889 10012.000	67.113 0.000 6	69.339 -0.000	67.113 0.000	0.000	69.719	37.673	-7.230 XOM_R2OWSG MWD+IFR1+MS
18100.000	90.000	179.889 10012.000	67.876 0.000	69.994 -0.000	67.876 0.000	0.000	70.370	37.721	-7.143 XOM_R2OWSG
18200.000	90.000	179.889 10012.000	68.640 0.000	70.650 -0.000	68.640 0.000	0.000	71.024	37.769	-7.058 XOM_R2OWSG MWD+IFR1+MS
18300.000	90.000	179.889 10012.000	69.404 0.000	71.309 -0.000	69.404 0.000	0.000	71.680	37.819	-6.976 XOM_R2OWSG MWD+IFR1+MS
18368.273	90.000	179.889 10012.000	69.927 0.000	71.760 -0.000	69.927 0.000	0.000	72.128	37.852	-6.920 XOM_R2OWSG MWD+IFR1+MS
18400.000	90.000	179.889 10012.000	70.169 0.000	71.969 -0.000	70.169 0.000	0.000	72.337	37.868	-6.895 XOM_R2OWSG MWD+IFR1+MS
18458.245	90.000	179.889 10012.000	70.615 0.000	72.355 -0.000	70.615 0.000	0.000	72.720	37.898	-6.849 XOM_R2OWSG MWD+IFR1+MS
Plan Targets		Poker Lake	Poker Lake Unit 25 BD 510H						
			Measured Depth	-	Grid Northing	U	<b>Grid Easting</b>		TVD MSL Target Shape

TVD MCI Torract Change	(ft)	6634.00 CIRCLE	6634.00 CIRCLE	6634.00 CIRCLE	
Circle Control		656590.40	656581.20	656581.20	
Section 2	(H)	400761.80	392990.40	392900.40	
Poker Lake Unit 25 BD 510H	measured Deptil	10600.64	18392.83	18482.98	
Plan Targets	Target Name	FTP 3	LTP 3	BHL 3	





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

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

#### **Background**

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

#### **Supporting Documentation**

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



Figure 1: Winch System attached to BOP Stack



Figure 2: BOP Winch System

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

2	API STANDARD	53			
Table C.4—Initial Pressure Testing, Surface BOP Stacks					
Component to be Pressure Tested	Pressure Test—Low Pressure <sup>ac</sup> psig (MPa)	Pressure Test—High Pressure30			
		Change Out of Component, Elastomer, or Ring Gasket	No Change Out of Component, Elastomer, or Ring Gasket		
Annular preventer <sup>b</sup>	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 <sup>bd</sup>	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 chokese	250 to 350 (1.72 to 2.41)	RWP of ram preventers or wellhead system, whichever is lower	ITP		
Choke manifold—downstream of chokese	250 to 350 (1.72 to 2.41)	RWP of valve(s), line(s), or M whichever is lower	MASP for the well program,		
Kelly, kelly valves, drill pipe safety valves, IBOPs	250 to 350 (1.72 to 2.41)	MASP for the well program			
	during the evaluation period. The p	pressure shall not decrease below the			
<sup>c</sup> For pad drilling operations, moving		n the 21 days, pressure testing is req	And the second s		
	land operations, the ram BOPs sha	ted with the ram locks engaged and all be pressure tested with the ram lo			
e Adjustable chokes are not required		testing against a closed choke is no	at 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 Oand 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

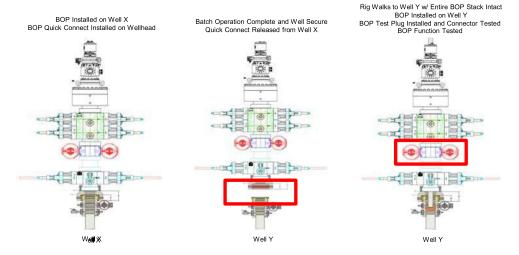
each BOP nipple up, XTO Energy performs a choke drill with the rig crew prior to drilling out every casing shoe. This is additional training for the rig crew that exceeds the requirements of the CFR Title 43 Part 3170.

#### **Procedures**

- 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



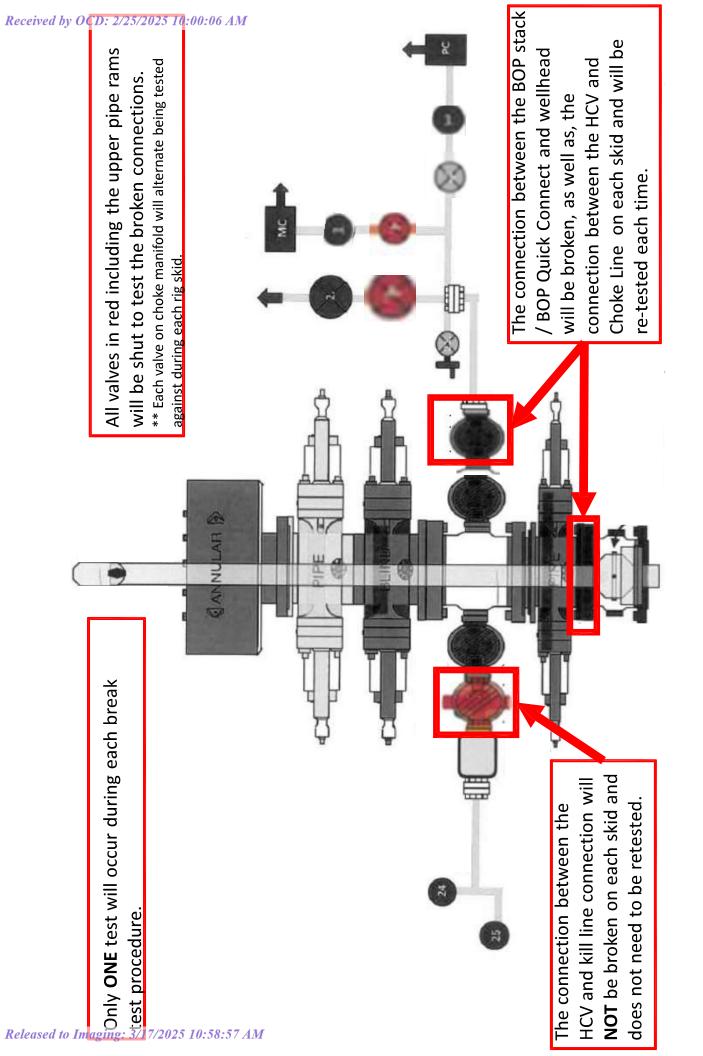
#### **Summary**

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.



#### **XTO Permian Operating, LLC Offline Cementing Variance Request**

XTO requests the option to cement the surface and intermediate casing strings offline as a prudent batch drilling efficiency of acreage development.

## 1. Cement Program

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

#### 2. Offline Cementing Procedure

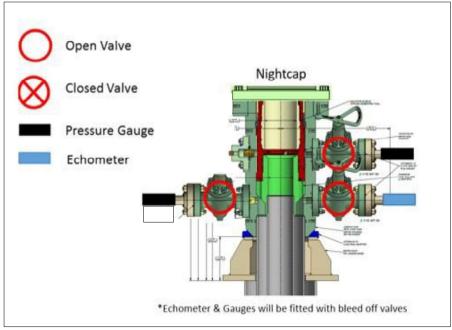
The operational sequence will be as follows. If a well control event occurs, the BLM will be contacted for approval prior to conducting offline cementing operations.

- 1. Run casing as per normal operations. While running casing, conduct negative pressure test and confirm integrity of the float equipment (float collar and shoe)
- 2. Land casing with mandrel
- 3. Fill pipe with kill weight fluid, do not circulate through floats and confirm well is static
- 4. Set annular packoff shown below and pressure test to confirm integrity of the seal. Pressure ratings of wellhead components and valves is 5,000 psi.
- 5. After confirmation of both annular barriers and internal barriers, nipple down BOP and install cap flange.
  - a. If any barrier fails to test, the BOP stack will not be nippled down until after the cement job is completed with cement 500ft above the highest formation capable of flow with kill weight mud above or after it has achieved 50-psi compressive strength if kill weight fluid cannot be verified.



Annular packoff with both external and internal seals

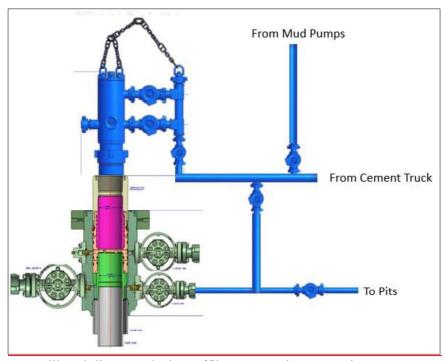
#### **XTO Permian Operating, LLC Offline Cementing Variance Request**



Wellhead diagram during skidding operations

- 6. Skid rig to next well on pad.
- 7. Confirm well is static before removing cap flange, flange will not be removed and offline cementing operations will not commence until well is under control. If well is not static, casing outlet valves will provide access to both the casing ID and annulus. Rig or third party pump truck will kill well prior to cementing or nippling up for further remediation.
  - a. Well Control Plan
    - i. The Drillers Method will be the primary well control method to regain control of the wellbore prior to cementing, if wellbore conditions do not permit the drillers method other methods of well control may be used
    - ii. Rig pumps or a 3<sup>rd</sup> 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.

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

MECHANICAL PROPERTIES	Pipe	USS-FREEDOM HTQ <sup>®</sup>	
Minimum Yield Strength	110,000		psi
Maximum Yield Strength	125,000		psi
Minimum Tensile Strength	125,000		psi
DIMENSIONS	Pipe	USS-FREEDOM HTQ <sup>®</sup>	
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
ECTION AREA	Pipe	USS-FREEDOM HTQ <sup>®</sup>	
Critical Area	5.828	5.828	sq. in.
Joint Efficiency		100.0	%
ERFORMANCE	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-Ib
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 460 Wildwood Forest Drive, Suite 300S Spring, Texas 77380

1-877-893-9461 connections@uss.com www.usstubular.com

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).
  - 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.

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## **U. S. Steel Tubular Products** 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	<del></del>	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	<b>l</b> b	
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 Loss		5.58	in.	
Minimum Make-Up Torque		17,000	ft-lb	[4]
Maximum Make-Up Torque		20,000	ft-lb	[4]
Maximum Operating Torque		39,500	ft-lb	[4]

#### **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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NEW CHOKE HOSE

INSTRUED 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 #:

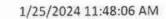
74621 H3-012524-1

SIGNATURE: 7: CUSTUS &

TITLE: QUALITY ASSURANCE

DATE: 1/25/2024

## H3-15/16





## **TEST REPORT**

CUSTOMER

Company:

Nabors Industries Inc.

**TEST OBJECT** 

Serial number: H3-012524-1

Lot number:

Production description:

74621/66-1531

Description:

74621/66-1531

Sales order #: Customer reference: 529480 FG1213

Hose ID:

3" 16C CK

Part number:

**TEST INFORMATION** 

Test procedure:

GTS-04-053

psi

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

Test pressure: Test pressure hold: 15000.00 3600.00

sec psi Description:

Work pressure:

10000.00

Fitting 2:

3.0 x 4-1/16 10K

Work pressure hold: Length difference:

900.00 0.00

sec %

Part number: Description:

45

Length difference:

Visual check:

0.00

inch

Length:

feet

D. ... . 17

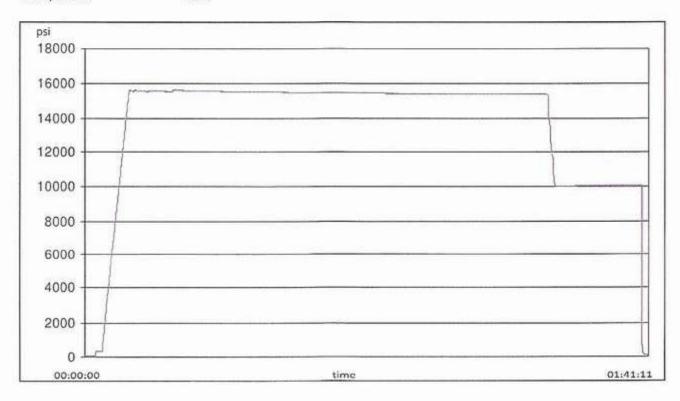
Pressure test result:

PASS

Length measurement result:

Test operator:

Travis





H3-15/16

1/25/2024 11:48:06 AM

# **TEST REPORT**

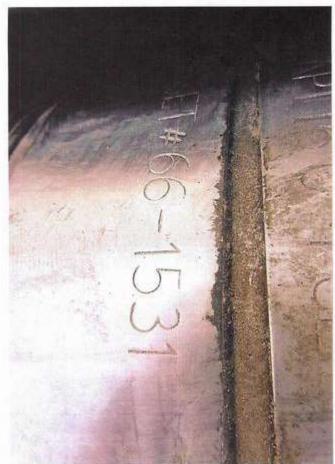
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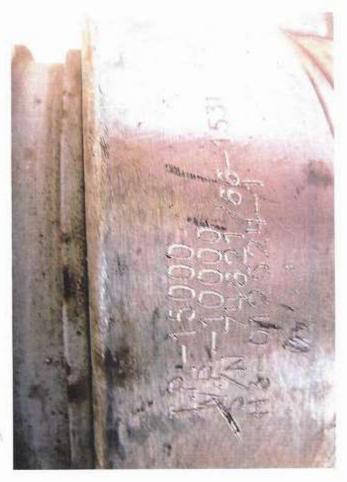
Serial number	Calibration date	Calibration due date
110D3PHO	2023-06-06	2024-06-06
110IQWDG	2023-05-16	2024-05-16
	110D3PHO	110D3PHO 2023-06-06



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General Information Phone: (505) 629-6116

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

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

CONDITIONS

Action 435073

#### **CONDITIONS**

Operator:	OGRID:
XTO PERMIAN OPERATING LLC.	373075
6401 HOLIDAY HILL ROAD	Action Number:
MIDLAND, TX 79707	435073
	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.	3/17/2025