

Sundry Print Report

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

Well Name: POKER LAKE UNIT 13-24 Well Location: T24S / R29E / SEC 13 /

SWNE / 32.218156 / -103.934562

County or Parish/State: EDDY /

NM

Well Number: 705H Type of Well: OIL WELL Allottee or Tribe Name:

Lease Number: NMNM05912 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: 2855395** 

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 05/30/2025 Time Sundry Submitted: 10:42

Date proposed operation will begin: 06/13/2025

**Procedure Description:** XTO Permian Operating, LLC. respectfully requests approval to make the following changes to the approved APD. Changes to include KOP, FTP, proposed total depth, pool, and dedicated acreage. FROM: TO: KOP: 2420' FNL & 1566' FEL OF SECTION 13-T24S-R29E 2441' FSL & 2017' FEL OF SECTION 13-T24S-R29E FTP: 1959' FNL & 2154' FEL OF SECTION 13-T24S-R29E 2622' FSL & 2013' FEL OF SECTION 13-T24S-R29E The proposed total depth is changing FROM 19467' MD; 9155' TVD TO 19671' MD; 9145' TVD. Pool code is changing FROM PIERCE CROSSING; BONE SPRING, EAST(96473) TO CEDAR CANYON; BONE SPRING(11520); PIERCE CROSSING; BONE SPRING(96473); WILDCAT S243006B; LWR BONE SPRING(97753) Dedicated acreage is changing FROM 719.94 ac TO 360 ac There is no new surface disturbance.

#### **NOI Attachments**

#### **Procedure Description**

PLU\_13\_24\_PC\_705H\_Sundry\_Docs\_20250530104114.pdf

Page 1 of 2

eived by OCD: 6/13/2025 11:27:44 AM Well Name: POKER LAKE UNIT 13-24

PC

Well Location: T24S / R29E / SEC 13 /

SWNE / 32.218156 / -103.934562

County or Parish/State: Page 2 of

Well Number: 705H

Type of Well: OIL WELL

**Allottee or Tribe Name:** 

Lease Number: NMNM05912

Unit or CA Name: POKER LAKE UNIT

**Unit or CA Number:** NMNM71016X

**US Well Number:** 

**Operator: XTO PERMIAN OPERATING** 

## **Conditions of Approval**

#### **Additional**

242913 Poker Lake Unit 13 24 PC 705H 06 09 2025 COAs 20250609085625.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: MANOJ VENKATESH Signed on: MAY 30, 2025 10:41 AM

Name: XTO PERMIAN OPERATING LLC

Title: Regulatory Analyst

Street Address: 22777 SPRINGWOODS VILLAGE PARKWAY

City: SPRING State: TX

Phone: (720) 539-1673

Email address: MANOJ. VENKATESH@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: 06/09/2025

Signature: Chris Walls

Page 2 of 2

Form 3160-5 (June 2019)

# UNITED STATES DEPARTMENT OF THE INTERIOR

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

DEPARTMENT OF THE INTERIOR			LA	pires. C	Ctober 51, 2021	
BUREAU OF LAND MANAGEMENT			5. Lease Serial No. NMNM05912			
SUNDRY NOTICES AND REPORTS ON W			6. If Indian, Allottee or Tribe	Name		
Do not use this form for proposals to drill or to abandoned well. Use Form 3160-3 (APD) for such			+			
SUBMIT IN TRIPLICATE - Other instructions on pag	ie 2		7. If Unit of CA/Agreement, POKER LAKE UNIT/NMNM71016		nd/or No.	
1. Type of Well  Oil Well  Gas Well  Other			8. Well Name and No.			
<u> </u>			POKER LAKE UNIT 13-24 PC/705H  9. API Well No.			
2. Name of Operator XTO PERMIAN OPERATING LLC						
3a. Address 6401 HOLIDAY HILL ROAD BLDG 5, MIDLAND, 3b. Phone No. (432) 683-22		de area code)	10. Field and Pool or Explora PIERCE CROSSING/BONE SPR	-		
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)			11. Country or Parish, State			
SEC 13/T24S/R29E/NMP		EDDY/NM				
12. CHECK THE APPROPRIATE BOX(ES) TO IN	DICAT	E NATURE	OF NOTICE, REPORT OR OT	HER D	ATA	
TYPE OF SUBMISSION		TYP	E OF ACTION			
Notice of Intent	oen		Production (Start/Resume)		Water Shut-Off	
	raulic F	racturing	Reclamation		Well Integrity	
Subsequent Report Casing Repair New	Constr	ruction	Recomplete		Other	
Change Plans Plug		bandon	Temporarily Abandon			
Final Abandonment Notice Convert to Injection Plug	Back		Water Disposal			
is ready for final inspection.)  XTO Permian Operating, LLC. respectfully requests approval to make FTP, proposed total depth, pool, and dedicated acreage.	the fo	llowing char	nges to the approved APD. C	Change:	s to include KOP,	
FROM: TO:						
KOP: 2420' FNL & 1566 FEL OF SECTION 13-T24S-R29E 2441 FSL	& 201	7 FEL OF S	ECTION 13-T24S-R29E			
FTP: 1959' FNL & 2154' FEL OF SECTION 13-T24S-R29E 2622' FSL	. & 201	13' FEL OF	SECTION 13-T24S-R29E			
The proposed total depth is changing FROM 19467 MD; 9155 TVD TO	D 1967	71 MD; 9145	5 TVD.			
Pool code is changing FROM PIERCE CROSSING; BONE SPRING, I PIERCE CROSSING; BONE SPRING(96473); WILDCAT S243006B; Continued on page 3 additional information				PRING	(11520) ;	
14. I hereby certify that the foregoing is true and correct. Name ( <i>Printed/Typed</i> )						
MANOJ VENKATESH / Ph: (720) 539-1673	Title	Regulatory	Analyst			
Signature (Electronic Submission)	Date		05/30/2	2025		
THE SPACE FOR FED	ERA	L OR STA	ATE OFICE USE			
Approved by						
CHRISTOPHER WALLS / Ph: (575) 234-2234 / Approved		Petrol Title	eum Engineer	Date	06/09/2025	
Conditions of approval, if any, are attached. Approval of this notice does not warran certify that the applicant holds legal or equitable title to those rights in the subject lewhich would entitle the applicant to conduct operations thereon.	at or ease	Office CAF	I			

Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

#### **GENERAL INSTRUCTIONS**

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

#### SPECIFIC INSTRUCTIONS

*Item 4* - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

#### **NOTICES**

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c)and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

**BURDEN HOURS STATEMENT:** Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

(Form 3160-5, page 2)

#### **Additional Information**

#### **Additional Remarks**

Dedicated acreage is changing FROM 719.94 ac TO 360 ac

There is no new surface disturbance.

#### **Location of Well**

 $0. \ SHL: \ SWNE \ / \ 2420 \ FNL \ / \ 1566 \ FEL \ / \ TWSP: \ 24S \ / \ RANGE: \ 29E \ / \ SECTION: \ 13 \ / \ LAT: \ 32.218156 \ / \ LONG: \ -103.934562 \ (\ TVD: \ 0 \ feet, \ MD: \ 0 \ feet \ )$   $PPP: \ SWNE \ / \ 1959 \ FNL \ / \ 2154 \ FEL \ / \ TWSP: \ 24S \ / \ RANGE: \ 29E \ / \ SECTION: \ 13 \ / \ LAT: \ 32.219429 \ / \ LONG: \ -103.936501 \ (\ TVD: \ 9155 \ feet, \ MD: \ 19467 \ feet \ )$   $BHL: \ NWSE \ / \ 2595 \ FSL \ / \ 2154 \ FEL \ / \ TWSP: \ 24S \ / \ RANGE: \ 29E \ / \ SECTION: \ 1 \ / \ LAT: \ 32.246523 \ / \ LONG: \ -103.936501 \ (\ TVD: \ 9155 \ feet, \ MD: \ 19467 \ feet \ )$ 

# PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: XTO Permian Operating LLC
WELL NAME & NO.: Poker Lake Unit 13-24 PC 705H
LOCATION: Section 13, T.24S., R.29E.
COUNTY: Eddy County

COA

H2S	Yes	C No	
Potash	None	© Secretary	C R-111-P
Cave/Karst Potential	• Low	© Medium	C High
Cave/Karst Potential	Critical		
Variance	O None	• Flex Hose	Other
Wellhead	Conventional	<ul><li>Multibowl</li></ul>	C Both
Wellhead Variance	O Diverter		
Other	□ 4 String	☐ Capitan Reef	□WIPP
Other	Fluid Filled	☐ Pilot Hole	☐ Open Annulus
Cementing	Contingency	☐ EchoMeter	☐ Primary Cement
	Cement Squeeze		Squeeze
Special Requirements	☐ Water Disposal	$\square$ COM	Unit
Special Requirements	☐ Batch Sundry		
Special Requirements	Break Testing	✓ Offline	☐ Casing
Variance		Cementing	Clearance

Possibility of water flows in the Rustler Possibility of lost circulation in the Salado, Castile, and Delaware Abnormal pressures may be encountered upon penetrating the 3rd Bone Spring Sandstone and all subsequent formations.

#### A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated AT SPUD. As a result, the Hydrogen Sulfide area must meet 43 CFR part 3170 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

#### **B. CASING**

- 1. The **9-5/8** inch surface casing shall be set at approximately **400** 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. The surface hole shall be **12-1/4** inch in diameter.
  - 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:
  - Cement to surface. If cement does not circulate see B.1.a, c-d above.

Operator has proposed to pump down 9-5/8" X 7-5/8" 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 7-5/8" casing to surface 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 run one CBL per Well Pad.

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

Operator must use a limited flush fluid volume of 1 bbl following backside cementing procedures.

- 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. **Cement excess calculates** to **20%** more cement may be needed.

#### 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. This assembly will only be tested when installed on the **9-5/8** inch surface casing. 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** i 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.

#### E. SPECIAL REQUIREMENT (S)

#### **BOPE Break Testing Variance**

- BOPE Break Testing is ONLY permitted for 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.

## **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)
  - Eddy County

**EMAIL** or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220.

**BLM\_NM\_CFO\_DrillingNotifications@BLM.GOV** (575) 361-2822

Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 689-5981

- 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.

JS 6/9/2025

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103 Poker Lake Unit\.04 - 13-1,13-
NM\003 Poker Lake Unit\.04 - 13-1,13-
103 Poker Lake Unit\.04 - 13-1,13-
NM\003 Poker Lake Unit\.04 - 13-1,13-
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D Energy - NM\003 Poker Lake Unit\.04 - 13-1,13-
13 XTO Energy - NM\003 Poker Lake Unit\.04 - 13-1,13-
XTO Energy - NM\003 Poker Lake Unit\.04 - 13-1,13-
18.013 XTO Energy - NM\003 Poker Lake Unit\.04 - 13-1,13-
.013 XTO Energy - NM\003 Poker Lake Unit\.04 - 13-1,13-
:\618.013 XTO Energy - NM\003 Poker Lake Unit\.04 - 13-1,13-
:\618.013 XTO Energy - NM\003 Poker Lake Unit\.04 - 13-1,13-

<u>C-10</u>	_					v Mexico Il Resources Department ON DIVISION			Re	evised July, 09 2024
	electronically D Permitting			OIL	CONVERSI	ON DIVISION			☐ Initial Subi	mittal
								Submital		
								Type:	☐ As Drilled	
									As Drilled	
			1			TION INFORMATION				
API Nu	30-01	5-	Pool Code	11520		Pool Name CED	AR CANY	ON; BO	NE SPRING	
Property	y Code		Property N	ame	POKER LA	KE UNIT 13-24 PC			Well Number	705H
OGRID	No. <b>37307</b>	<b>'</b> 5	Operator N		XTO PERMIA	N OPERATING, LLC			Ground Level	Elevation
Surface	Owner: S	State Fee	l ]Tribal ⊠Fe			Mineral Owner: □S		☐Tribal 🗵		<u> </u>
					Surface	e Hole Location				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		Longitude	County
G	13	248	29E		2,420 FNL	1,566 FEL	32.218	3156	-103.934563	EDDY
			1		Bottom	Hole Location				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		Longitude	County
J	1	24\$	29E		2,595 FSL	2,154 FEL	32.246	5523	-103.936501	EDDY
	1.	Y G11			W. H. A. D.		Y : GIAD			
	ed Acres	Infill or Defi	ning Well	Defining	Well API	Overlapping Spacing U	Init (Y/N)	Consolida	tion Code	
•	0.00	DEFI	NING			T T				
Order N	lumbers.					Well Setbacks are unde	er Common (	Ownership:	⊠Yes □No	
					Kick O	off Point (KOP)				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		Longitude	County
J	13	24S	29E		2,441 FSL	2,017 FEL	32.216	924	-103.936023	EDDY
		1	1		First Ta	ake Point (FTP)				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		Longitude	County
J	13	24S	29E		2,622 FSL	2,013 FEL	32.217	7421	-103.936011	EDDY
	<u>'</u>		1	<u>'</u>	Last Ta	ake Point (LTP)				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		Longitude	County
J	1	24\$	29E		2,545 FSL	2,154 FEL	32.246	386	-103.936501	EDDY
Unitize	d Area or Are	ea of Interest					Grou	nd Elevation	1	
	NMNN	1105422429	)	Spacing Un	nit Type : 🛮 Horiz	ontal			3,113'	
OPERA	TOR CERTI	FICATIONS				SURVEYOR CERTIFICA	ATIONS			
					d complete to the	I hereby certify that the w				
that this	organization		working intere	st or unlease	ed mineral interest	actual surveys made by m correct to the best of my b		v supervisio	n, and that the sam	ne is true and
at this l	ocation pursi	iant to a contrac	et with an own	er of a worki					DILLON	
		erest, or a volun etofore entered l			a compulsory			JA.	MEN MEXICO	YARS .
		ontal well, I furt						4	MENTO	/20/
unlease	d mineral int	of at least one le erest in each tra	ct (in the targ	et pool or inf	formation) in			P	(23786)	<u>~</u>
		e well's complete order from the a		l be located o	or obtained a		1 /	ROK	55/0NAL 5	Jr. John St. O. B. Co.
_						11/1		10	S ( )	JR
B	ý. V		05/29	9/2025			$/\!\!/$		'ONAL S	
Signatu	re		Date	0_0		Signature and Seal of Pro	v fessional Sur			
	oj Venkat	esh				MARK DILLON HARP 2378	<u>6</u>		5/22/2025	
Printed	Name					Certificate Number		f Survey	•	
	-	esh@exxor	nmobil.co	m						
Email A	adaress									

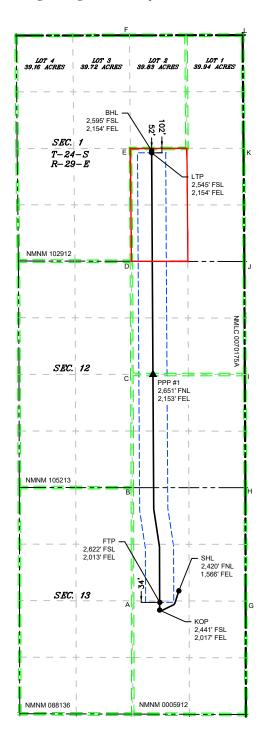
Note: No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.

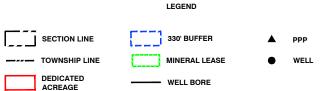
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			WEL	L COORDINATE	TABLE			
WELL	NAD 83 NME X	NAD 83 NME Y	NAD 83 LAT	NAD 83 LON	NAD 27 NME X	NAD 27 NME Y	NAD 27 LAT	NAD 27 LC
SHL	664,658.4	443,327.9	32.218156	-103.934563	623,474.9	443,268.5	32.218032	-103.9340
КОР	664,208.4	442,877.9	32.216924	-103.936023	623,024.9	442,818.5	32.216799	-103.9355
FTP	664,211.7	443,058.8	32.217421	-103.936011	623,028.2	442,999.5	32.217297	-103.9355
LTP	664,021.3	453,595.2	32.246386	-103.936501	622,838.1	453,535.6	32.246262	-103.9360
BHL	664,021.0	453,645.2	32.246523	-103.936501	622,837.8	453,585.6	32.246399	-103.9360
PPP #1	664,052.5	448,399.4	32.232103	-103.936462	622,869.1	448,339.9	32.231979	-103.9359

	COR	NER COORDINA	ΓΕ TABLE	
CORNER	NAD 83 NME X	NAD 83 NME Y	NAD 27 NME X	NAD 27 NME Y
Α	663,576.0	443,093.9	622,392.5	443,034.6
В	663,570.2	445,748.2	622,386.8	445,688.8
С	663,559.1	448,399.9	622,375.8	448,340.4
D	663,547.9	451,051.0	622,364.7	450,991.4
E	663,524.5	453,696.5	622,341.4	453,636.9
F	663,501.0	456,347.1	622,318.0	456,287.4
G	666,224.6	443,088.1	625,041.0	443,028.8
Н	666,218.3	445,746.5	625,034.9	445,687.1
	666,205.3	448,396.9	625,022.0	448,337.4
J	666,193.9	451,046.7	625,010.6	450,987.1
K	666,174.6	453,699.9	624,991.5	453,640.3
L	666,154.8	456,352.9	624,971.7	456,293.2

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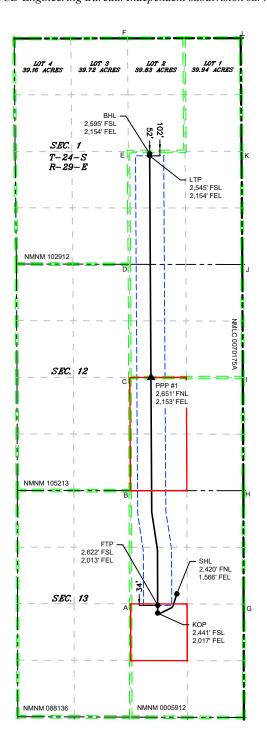
C-102 Sumbit electronically Via OCD Permitting			State of New Mexico Energy, Minerals & Natural Resources Department OIL CONVERSION DIVISION  Submital Type:					Type: Amended Report			
									☐ As Drilled		
API Nu	mber		Pool Code			Pool Name					
	30-01	5-		96473	3	PEIR	CE CROS	SING; BO	NE SPRING		
Propert	y Code		Property N	lame	POKER I A	KE UNIT 13-24 PC			Well Number	705H	
OGRID	No.		Operator N	Name	TOREIT EF				Ground Level		
	37307	5			XTO PERMIA	N OPERATING, LLC	<b>).</b>		3	3,113'	
Surface	Owner: S	tate □Fee □	Tribal ⊠Fe	deral		Mineral Owner: □S	tate Fee [	□Tribal 🔯	Federal		
					Surface	e Hole Location					
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	I	Longitude	County	
G	13	248	29E		2,420 FNL	1,566 FEL	32.218	156 -	103.934563	EDDY	
					Bottom	Hole Location	l				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	I	ongitude	County	
J	1	248	29E		2,595 FSL	2,154 FEL	32.246	523 -	103.936501	EDDY	
	ed Acres	Infill or Defir	ning Well	Defining	Well API	Overlapping Spacing	Unit (Y/N)	Consolidati	ion Code		
Order N	Jumbers.	•				Well Setbacks are und	er Common O	wnership:	⊠Yes □No		
					K, T O	off B. C. (VOB)					
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	I	ongitude	County	
J	13	248	29E		2,441 FSL	2,017 FEL	32.216		103.936023	EDDY	
					First Te	ake Point (FTP)					
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	I	ongitude	County	
J	13	248	29E		2,622 FSL	2,013 FEL	32.217	421 -	103.936011	EDDY	
					Last Ta	ake Point (LTP)					
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	I	ongitude	County	
J	1	248	29E		2,545 FSL	2,154 FEL	32.246	386 -	103.936501	EDDY	
Unitize	d Area or Are	a of Interest	)	Spacing Un	nit Type: 🛮 Horiz	ontal  Vertical	Grour	nd Elevation	3,113'		
I hereby best of i	ny knowledge	he information of and belief, and	l, if the well is	vertical or a	nd complete to the lirectional well,	SURVEYOR CERTIFIC  I hereby certify that the v actual surveys made by n	vell location sh ne or under my				
in the la at this l unlease	ınd including ocation pursu d mineral inte		ottom hole loc ct with an own tary pooling	cation or has ner of a work agreement or		correct to the best of my	бенеј	MR	NEW MEXICO	YAPS	
received unlease which a	d the consent d mineral inte ny part of the	of at least one le erest in each tra	essee or owne ct (in the targ ed interval wi	ertify that this organization has or owner of a working interest or the target pool or information) in erval will be located or obtained a		YOR					
Signat	J. V		05/29 Date	9/2025		Signature and Seal of Pro	fessional S	avor.	S/ONAL S	38	
Signatu	ie		Date			signature and Seal of Pro	iessional Surv	eyor			
Printed			mark 9			MARK DILLON HARP 2378 Certificate Number		Survey	5/22/2025		
mand Email A		esh@exxor	ımobil.co	orn							
						YH			618.01300	3.04-25	

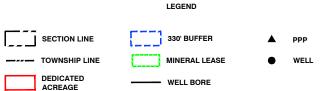
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			WEL	L COORDINATE	TABLE			
WELL	NAD 83 NME X	NAD 83 NME Y	NAD 83 LAT	NAD 83 LON	NAD 27 NME X	NAD 27 NME Y	NAD 27 LAT	NAD 27 LO
SHL	664,658.4	443,327.9	32.218156	-103.934563	623,474.9	443,268.5	32.218032	-103.93407
КОР	664,208.4	442,877.9	32.216924	-103.936023	623,024.9	442,818.5	32.216799	-103.93553
FTP	664,211.7	443,058.8	32.217421	-103.936011	623,028.2	442,999.5	32.217297	-103.93552
LTP	664,021.3	453,595.2	32.246386	-103.936501	622,838.1	453,535.6	32.246262	-103.93601
BHL	664,021.0	453,645.2	32.246523	-103.936501	622,837.8	453,585.6	32.246399	-103.93601
PPP #1	664,052.5	448,399.4	32.232103	-103.936462	622,869.1	448,339.9	32.231979	-103.93597

	COR	NER COORDINA	TE TABLE	
CORNER	NAD 83 NME X	NAD 83 NME Y	NAD 27 NME X	NAD 27 NME Y
Α	663,576.0	443,093.9	622,392.5	443,034.6
В	663,570.2	445,748.2	622,386.8	445,688.8
С	663,559.1	448,399.9	622,375.8	448,340.4
D	663,547.9	451,051.0	622,364.7	450,991.4
E	663,524.5	453,696.5	622,341.4	453,636.9
F	663,501.0	456,347.1	622,318.0	456,287.4
G	666,224.6	443,088.1	625,041.0	443,028.8
Н	666,218.3	445,746.5	625,034.9	445,687.1
I	666,205.3	448,396.9	625,022.0	448,337.4
J	666,193.9	451,046.7	625,010.6	450,987.1
K	666,174.6	453,699.9	624,991.5	453,640.3
L	666,154.8	456,352.9	624,971.7	456,293.2

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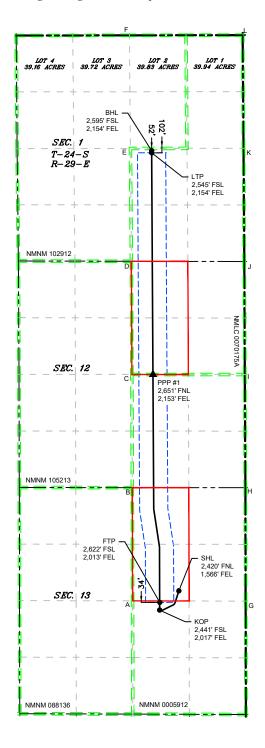
Energy, Minerals & N						w Mexico Al Resources Department CON DIVISION					
Via OC	D r emitting								☐ Initial Sub	mittal	
								Submital Type:	M Amended 1	Report	
									☐ As Drilled		
			T 2 1 0 1		WELL LOCA	TION INFORMATION					
API Nu	mber <b>30-01</b> {	5-	Pool Code	97753		Pool Name WILDCA	T S243006	B; LWR	BONE SPRII	NG	
Property	y Code		Property N	ame				Well Number			
OGRID	No		Operator N	Jame	POKER LA	KE UNIT 13-24 PC		<b>705H</b> Ground Level Elevation			
OGRID	37307	5	Operator N		XTO PERMIA	N OPERATING, LLC	<b>).</b>	3,113'			
Surface	Owner: S	tate Fee	Tribal ⊠Fe	deral		Mineral Owner: □S	tate Fee	□Tribal 🛛	Federal		
						<u> </u>					
UL	Section	Township	Range	Lot	Surfac Ft. from N/S	Ft. from E/W	Latitude	I	ongitude	County	
G	13	248	29E		2,420 FNL	1,566 FEL	32.218	3156 -	103.934563	EDDY	
					·						
UL	Section	Township	Range	Lot	Ft. from N/S	n Hole Location  Ft. from E/W	Latitude	I	ongitude	County	
J	1	24\$	29E		2,595 FSL	2,154 FEL	32.246	5523 -	103.936501	EDDY	
					,	,					
	ed Acres	Infill or Defin	C	Defining	Well API	Overlapping Spacing U	Jnit (Y/N)	Consolidati	on Code		
Order N	lumbers.					Well Setbacks are und	er Common C	wnership:	¥Yes □No		
UL	Section	Township	Range	Lot	Kick (	Off Point (KOP)  Ft. from E/W	Latitude	T	ongitude	County	
J	13	24\$	29E	Lot	2,441 FSL		32.216		103.936023	EDDY	
	13	243	296				32.210	-	103.936023	EDD1	
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	l r	ongitude	County	
J	13	248	29E	Lot	2,622 FSL		32.217		103.936011	EDDY	
							02.217			2551	
UL	Section	Township	Range	Lot	Ft. from N/S	Rt. from E/W	Latitude	I	ongitude	County	
J	1	248	29E		2,545 FSL		32.246		103.936501	EDDY	
	•				2,040102	2,104122	OZ.Z-TO			LDD1	
Unitized	d Area or Are	a of Interest		Spacing Un	iit Type : ⊠Horiz	zontal □Vertical	Groun	nd Elevation	3,113'		
OPERA	TOR CERTI	FICATIONS				SURVEYOR CERTIFICA	ATIONS				
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or a voluntary pooling agreement or a compulsory pooling order of heretofore entered by the division.  If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or information) in				I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief  DILLON  MEX/CO  23786							
		well's complete order from the di	ivision.	9/2025	n ooiamea a			ROFES	SIONAL S	JA JO NO	
Signatur	re		Date			Signature and Seal of Pro	fessional Surv	/eyor			
Printed		esh esh@exxon	ımobil.co	m		MARK DILLON HARP 2378 Certificate Number	Date of	f Survey	5/22/2025		
Email A	ddress									0.04.05	
						YH			618.01300	3.04-25	

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WELL COORDINATE TABLE  WELL NAD 83 NME X NAD 83 NME Y NAD 83 LAT NAD 83 LON NAD 27 NME X NAD 27 NME Y NAD 27 LAT NAD 27										
WELL	NAD 83 NME X	NAD 83 NME Y	NAD 83 LAT	NAD 83 LON	NAD 27 NME X	NAD 27 NME Y	NAD 27 LAT	NAD 27 LO		
SHL	664,658.4	443,327.9	32.218156	-103.934563	623,474.9	443,268.5	32.218032	-103.93407		
КОР	664,208.4	442,877.9	32.216924	-103.936023	623,024.9	442,818.5	32.216799	-103.93553		
FTP	664,211.7	443,058.8	32.217421	-103.936011	623,028.2	442,999.5	32.217297	-103.93552		
LTP	664,021.3	453,595.2	32.246386	-103.936501	622,838.1	453,535.6	32.246262	-103.93601		
BHL	664,021.0	453,645.2	32.246523	-103.936501	622,837.8	453,585.6	32.246399	-103.93601		
PPP #1	664,052.5	448,399.4	32.232103	-103.936462	622,869.1	448,339.9	32.231979	-103.93597		

	CORNER COORDINATE TABLE										
CORNER	NAD 83 NME X	NAD 83 NME Y	NAD 27 NME X	NAD 27 NME Y							
Α	663,576.0	443,093.9	622,392.5	443,034.6							
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С	663,559.1	448,399.9	622,375.8	448,340.4							
D	663,547.9	451,051.0	622,364.7	450,991.4							
E	663,524.5	453,696.5	622,341.4	453,636.9							
F	663,501.0	456,347.1	622,318.0	456,287.4							
G	666,224.6	443,088.1	625,041.0	443,028.8							
Н	666,218.3	445,746.5	625,034.9	445,687.1							
I	666,205.3	448,396.9	625,022.0	448,337.4							
J	666,193.9	451,046.7	625,010.6	450,987.1							
K	666,174.6	453,699.9	624,991.5	453,640.3							
L	666,154.8	456,352.9	624,971.7	456,293.2							

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

# ExxonMobil Poker Lake Unit 13-24 PC 705H Projected TD: 19671' MD / 9145' TVD SHL: 2420' FNL & 1566' FEL , Section 13, T24S, R29E BHL: 2595' FSL & 2154' FEL , Section 1, T24S, R29E Eddy County, NM

#### 1. Geologic Name of Surface Formation

Quaternary

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



	Inclinat ion (°)	Azimuth (°)	True Vertical Depth (ft)	Y Offset (ft)	X Offset (ft)
SHL	0	0	0	0	0
КОР	0	0	8429	-450	-450
LP	90	0	9145	266	-450
FTP	45	0	8935	-240	-450
LTP	90	360	9145	10270	-637
BHL	90	360	9145	10320	-637

#### Section 2 Summary:

\*\*\* Deepest Expected Groundwater Depth: 40′ (per NM State Engineers Office).

No other formations are expected to give up oil, gas or fresh water in measurable quantities. Surface fresh water sands will be protected by setting 9-5/8" inch casing at 616' and circulating cement back to surface.

#### 3. Primary Casing Design Primary Design:

Hole Size (in.)	MD	Casing TVD	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25"	0' – 616'	616'	9-5/8"	40	J55	BTC	New	20.90	19.26	5.85
8.75"	0' - 4000'	3962'	7-5/8"	29.7	P110-ICY	Tenaris Wedge 511	New	6.00	8.58	3.50
8.75"	4000' – 8330'	8279'	7-5/8"	29.7	L80-IC	Tenaris Wedge 511	New	3.37	6.37	2.53
6.75"	0' - 8230'	8179'	5-1/2"	20	P110-CY	TPN	New	1.18	3.13	2.53
6.75"	8230' – 19671'	9145'	5-1/2"	20	P110-ICY	Tenaris Wedge 441	New	1.18	3.11	2.73

#### Section 3 Summary:

XTO will keep casing fluid filled to meet BLM's collapse requirement. The planned kick off point is located at: 8480' MD / 8429' TVD.

#### Wellhead:

A multi-bowl wellhead system will be utilized. The well design chosen is: 3-String Slim Non-Potash

Wellhead will be installed by manufacturer's representatives.

Manufacturer will monitor welding process to ensure appropriate temperature of seal.

#### 4. Cement Program

			P	rimary Cementi	ng			
Hole Section	Slurry Type	No. Sacks		Yield (ft3/sack)		Casing Setting Depth (MD)	Excess (%)	Slurry Description
Surface 1	Lead	94	12.4	2.11	0	616	100%	Surface 1 Class C Lead Cement
Surface 1	Tail	141	14.8	1.33	316	616	100%	Surface 1 Class C Tail Cement
ntermediate 1	Lead							
ntermediate 1	Tail	238	14.8	1.45	5784	8,330	35%	Intermediate 1 Class C Tail Cement
Production 1	Lead							
Production 1	Tail	829	13.2	1.44	7830	19,671	25%	Production 1 Class C Tail Cement
	<u> </u>		Re	emedial Cement	ing		l .	
Casing	Slurry Type	No. Sacks	Density (ppg)	Yield (ft3/sack)	Cemen	ted Interval	Excess (%)	Slurry Description
ntermediate 1	Bradenhead Squeeze	541	14.8	1.45	5 0 - 5784'		35%	Intermediate Class C Bradenhead Squeeze Cement

#### Section 4 Summary:

*Bradenhead Squeeze 2nd Stage Offline

#### 5. Pressure Control Equipment

#### Section 5 Summary:

Once the permanent WH is installed on the casing, the blow out preventer equipment (BOP) will consist of a minimum 5M Hydril and a minimum 10M triple Ram BOP.
All BOP testing will be done by an independent service company. Operator will Test as per 43CFR-3172

#### **Requested Variances**

#### 4A) Offline Cementing Variance

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

#### 5A) Break Test Variance

A break testing variance is requested to ONLY test broken pressure seals on the BOP equipment when moving from wellhead to wellhead for the intermediate hole sections which is in compliance with API Standard 53. The maximum anticipated surface pressure is less than 4800psi and the deepest intermediate casing point does not penetrate the Wolfcamp Formation.

#### 5B) Flex Hose Variance

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

#### 5C) 10M Annular Variance

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

#### 8A) Open Hole Logging Variance

Open hole logging will not be done on this well.

#### 10A) Spudder Rig Variance

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

#### 10B) Batch Drilling Variance

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

#### 6. Proposed Mud Circulation System

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)	Comments
0' – 616'	12.25"	FW/Native	8.3 - 8.7	35-40	NC	Fresh Water or Native Water
616' – 8330'	8.75"	BDE/OBM or FW/Brine	9.5 - 10	30-32	NC	Fluid type will be based upon on well conditions. A fully saturated system will be used across the salt interval.
8330' – 19671'	6.75"	ОВМ	9 - 9.6	50-60	NC - 20	OBM or Cut Brine depending on Well Conditions

#### Section 6 Summary:

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

Pump viscous sweeps as needed for hole cleaning. Pump speed will be recorded on a daily drilling report after mudding up. An EDR (Electronic Drilling Recorder) will be used to detect changes in loss or gain of mud volume. A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system.

#### 7. Auxiliary Well Control and Monitoring Equipment

Section	7	Summary:
Section	,	Sullilliai y.

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

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

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

#### 8. Logging, Coring and Testing Program

#### Section 8 Summary:

Open hole logging will not be done on this well.

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

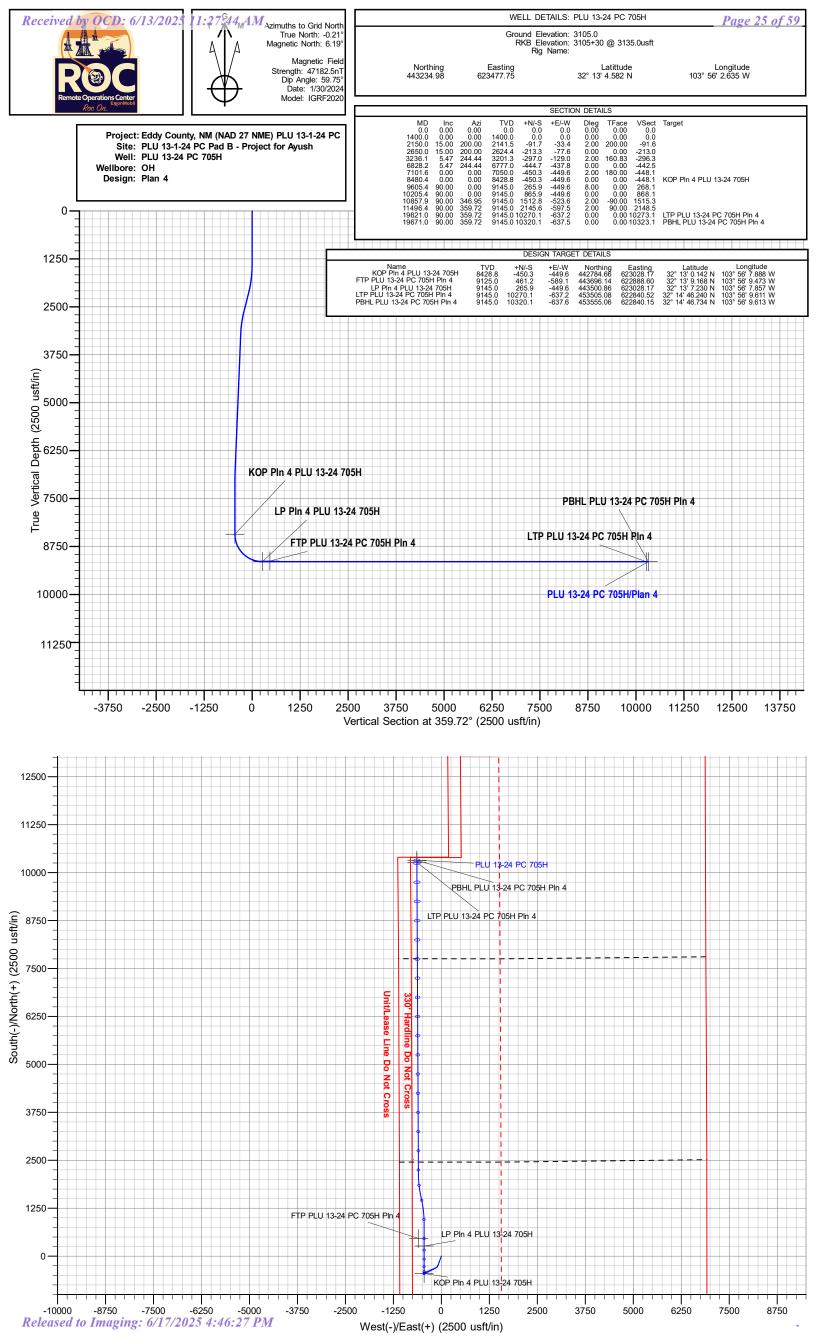
#### Section 9 Summary:

The estimated bottom hole temperature of 157F to 177F. No H2S is expected but monitors will be in place to detect any H2S occurrences. Should these circumstances be encountered the operator and drilling contractor are prepared to take all necessary steps to ensure safety of all personnel and environment. Lost circulation is possible throughout the well.

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

#### Section 10 Summary:

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



**COMPANY ROC** 

\*HP 532/547/549/552 - Eddy County, NM (NAD 27 NME)

SITE PLU 13-1-24 PC Pad B - Project for Ayush

WELL PLU 13-24 PC 705H

WELLPATH OH
DESIGN Plan 4
DEPTHUN1 (ft)

**WELL INFO** 

MAP DATL NAD 1927 (NADCON CONUS)

MAP SYSTIUS State Plane 1927 (Exact solution)

MAP ZONE New Mexico East 3001

WELL LAT 32.21794

WELL LON -103.934

WELL EW I 623477.8

WELL NS N 443235

CONVERGI 0.21

MAGMOD IGRF2020

DECLINATI 6.4

DECEMBATION OF

NORTH RE Grid

GROUND E 3105

KB ELEVN 3135

VS AZI 359.72

#### SURVEY TYPE INFORMATION

H 0.00 - 19671.00 PLAN 4 : XOM\_R2OWSG MWD+IFR1+MS

#### **SURVEY LIST**

Measured	Inclination	Azimuth	Course Ler	True Verti	SubSea TV	Local N/-S	Local E/-W	Easting	Northing
MD	INC	AZI	CL	TVD	SSTVD	NS	EW	Χ	Υ
0	0	0	0	0	3135	0	0	623477.8	443235
100	0	0	100	100	3035	0	0	623477.8	443235
200	0	0	100	200	2935	0	0	623477.8	443235
300	0	0	100	300	2835	0	0	623477.8	443235
400	0	0	100	400	2735	0	0	623477.8	443235
500	0	0	100	500	2635	0	0	623477.8	443235
600	0	0	100	600	2535	0	0	623477.8	443235
700	0	0	100	700	2435	0	0	623477.8	443235
800	0	0	100	800	2335	0	0	623477.8	443235
900	0	0	100	900	2235	0	0	623477.8	443235
1000	0	0	100	1000	2135	0	0	623477.8	443235
1100	0	0	100	1100	2035	0	0	623477.8	443235
1200	0	0	100	1200	1935	0	0	623477.8	443235
1300	0	0	100	1300	1835	0	0	623477.8	443235
1400	0	0	100	1400	1735	0	0	623477.8	443235
1500	2	200	100	1499.98	1635.02	-1.64	-0.597	623477.2	443233.3
1600	4	200	100	1599.838	1535.162	-6.558	-2.387	623475.4	443228.4

4700		200	400	4600 450	4405 540	44747	<b>5.000</b>	6004704	442222
1700	6	200		1699.452		-14.747		623472.4	
1800	8	200	100	1798.702	1336.298	-26.199		623468.2	
1900	10	200	100	1897.465	1237.535	-40.898		623462.9	
2000	12	200	100	1995.623	1139.377	-58.827		623456.3	
2100	14	200	100	2093.055	1041.945	-79.965		623448.6	443155
2150	15	200	50	2141.462	993.538	-91.728	-33.386	623444.4	443143.3
2200	15	200	50	2189.758	945.242	-103.889	-37.812	623439.9	443131.1
2300	15	200	100	2286.351	848.649	-128.21	-46.665	623431.1	443106.8
2400	15	200	100	2382.943	752.057	-152.531	-55.517	623422.2	443082.4
2500	15	200	100	2479.536	655.464	-176.852	-64.369	623413.4	443058.1
2600	15	200	100	2576.129	558.871	-201.173	-73.221	623404.5	443033.8
2650	15	200	50	2624.425	510.575	-213.334	-77.647	623400.1	443021.6
2700	14.059	201.352	50	2672.825	462.175	-225.07	-82.071	623395.7	443009.9
2800	12.205	204.663	100	2770.207	364.793	-245.992	-90.906	623386.8	442989
2900	10.405	209.12	100	2868.265	266.735	-263.488	-99.712	623378	442971.5
3000	8.691	215.361	100	2966.879	168.121	-277.54	-108.48	623369.3	442957.4
3100	7.126	224.467	100	3065.928	69.072	-288.129	-117.198	623360.6	442946.9
3200	5.832	238.08	100	3165.294	-30.294	-295.242	-125.855	623351.9	442939.7
3236.133	5.469	244.436	36.133	3201.252	-66.252	-296.956	-128.967	623348.8	442938
3300	5.469	244.436	63.867	3264.828	-129.828	-299.583		623343.3	442935.4
3400	5.469	244.436	100	3364.372	-229.372	-303.695		623334.7	442931.3
3500	5.469	244.436	100	3463.917	-328.917	-307.808		623326.1	
3600	5.469	244.436	100	3563.462	-428.462	-311.921		623317.5	
3700	5.469	244.436	100	3663.007	-528.007	-316.034		623308.9	
3800	5.469	244.436	100	3762.551	-627.551	-320.147		623300.3	
3900	5.469	244.436	100	3862.096	-727.096	-324.26		623291.7	
4000	5.469	244.436	100	3961.641	-826.641	-328.373	-194.645		
4100	5.469	244.436	100	4061.186	-926.186	-332.485		623274.5	
4200	5.469	244.436	100	4160.73	-1025.73	-336.598		623265.9	
4300	5.469	244.436	100		-1125.28	-340.711		623257.3	
4400	5.469	244.436			-1123.28				
4500	5.469	244.436		4459.365	-1224.82			623240.1	442890.2
4600	5.469			4558.909	-1324.37	-353.05			
4700	5.469	244.436		4658.454	-1423.91			623231.5 623222.9	
		244.436						623214.3	
4800	5.469	244.436		4757.999		-361.276			
4900	5.469	244.436		4857.544		-365.388		623205.7	
5000	5.469	244.436		4957.088	-1822.09	-369.501		623197.1	
5100	5.469	244.436		5056.633		-373.614			
5200	5.469	244.436		5156.178		-377.727		623179.9	
5300	5.469	244.436		5255.723	-2120.72	-381.84		623171.3	
5400	5.469	244.436		5355.267	-2220.27	-385.953		623162.7	442849
5500	5.469	244.436		5454.812	-2319.81	-390.066		623154.1	
5600	5.469	244.436		5554.357		-394.178			
5700	5.469	244.436		5653.902	-2518.9			623136.9	
5800	5.469	244.436		5753.446		-402.404		623128.3	
5900	5.469	244.436		5852.991	-2717.99	-406.517		623119.7	
6000	5.469	244.436	100	5952.536	-2817.54	-410.63	-366.607	623111.1	442824.4

6100	5.469	244.436	100	6052.081	-2917.08	-414.743	-375.205		
6200	5.469	244.436	100	6151.625	-3016.63	-418.856	-383.803	623093.9	442816.1
6300	5.469	244.436	100	6251.17	-3116.17	-422.969	-392.401	623085.3	442812
6400	5.469	244.436	100	6350.715	-3215.72	-427.081	-400.999	623076.8	442807.9
6500	5.469	244.436	100	6450.26	-3315.26	-431.194	-409.597	623068.2	442803.8
6600	5.469	244.436	100	6549.804	-3414.8	-435.307	-418.195	623059.6	442799.7
6700	5.469	244.436	100	6649.349	-3514.35	-439.42	-426.793	623051	
6800	5.469	244.436	100	6748.894	-3613.89	-443.533	-435.391		442791.4
6828.187	5.469	244.436	28.187	6776.953	-3641.95	-444.692	-437.815	623039.9	442790.3
6900	4.033	244.436	71.813	6848.517	-3713.52	-447.259	-443.18	623034.6	442787.7
7000	2.033	244.436	100	6948.372	-3813.37	-449.542	-447.953	623029.8	
7101.65	0	0	101.65	7050	-3915	-450.32	-449.58	623028.2	
7200	0	0	98.35	7148.35	-4013.35	-450.32	-449.58	623028.2	
7300	0	0	100	7248.35	-4113.35	-450.32	-449.58	623028.2	
7400	0	0	100	7348.35	-4213.35	-450.32	-449.58	623028.2	
7500	0	0	100	7448.35	-4313.35	-450.32	-449.58	623028.2	
7600	0	0	100	7548.35	-4413.35	-450.32	-449.58	623028.2	
7700	0	0	100	7648.35	-4513.35	-450.32	-449.58	623028.2	
7800	0	0	100	7748.35	-4613.35	-450.32	-449.58	623028.2	
7900	0	0	100	7848.35	-4713.35	-450.32	-449.58	623028.2	
8000	0	0	100	7948.35	-4813.35	-450.32	-449.58	623028.2	
8100	0	0	100	8048.35	-4913.35	-450.32	-449.58	623028.2	
8200	0	0	100	8148.35	-5013.35	-450.32	-449.58	623028.2	
8300	0	0	100	8248.35	-5113.35	-450.32	-449.58	623028.2	
8400	0	0	100	8348.35	-5213.35	-450.32	-449.58	623028.2	
8480.45	0	0	80.45	8428.8	-5293.8	-450.32	-449.58	623028.2	
8500	1.564	0	19.55	8448.348	-5313.35	-450.053	-449.58	623028.2	
8550	5.564	0	50	8498.241	-5363.24	-446.946	-449.58	623028.2	442788
8600	9.564	0	50	8547.796	-5412.8	-440.365	-449.58	623028.2	
8650	13.564	0	50	8596.771	-5461.77	-430.344		623028.2	
8700	17.564	0		8644.928	-5509.93	-416.931		623028.2	442818
8750	21.564	0		8692.032	-5557.03			623028.2	
8800	25.564	0		8737.853	-5602.85			623028.2	
8850	29.564	0		8782.169	-5647.17			623028.2	
8900	33.564	0		8824.763		-330.907		623028.2	
8950	37.564	0		8865.428	-5730.43			623028.2	
9000	41.564	0		8903.966	-5768.97			623028.2	442965
9050	45.564	0		8940.189	-5805.19	-235.541		623028.2	
9100	49.564	0	50	8973.92	-5838.92			623028.2	
9150	53.564	0		9004.996	-5870	-159.49		623028.2	
9200	57.564	0		9033.264	-5898.26	-118.26		623028.2	
9250	61.564	0		9058.588	-5923.59	-75.159		623028.2	
9300	65.564	0		9080.843	-5945.84	-30.396		623028.2	
9350	69.564	0		9099.922	-5964.92	15.809		623028.2	
9400	73.564	0		9115.731	-5980.73	63.234		623028.2	
9450	77.564	0		9128.193	-5993.19	111.645		623028.2	
9500	81.564	0	50	9137.248	-6002.25	160.808	-449.58	623028.2	443395.8

0550	05 564	0	Ε0.	0142.052	C007.0F	210 402	440 50	C22020.2	442445 5
9550 9600	85.564 89.564	0	50	9142.852 9144.977	-6007.85 -6009.98	210.483 260.428	-449.58 -449.58	623028.2 623028.2	
9605.45	90	0	5.45		-6010	265.877			
9700	90	0	94.55	9144.997	-6010	360.428		623028.2	
9800	90	0	100	9144.997		460.428		623028.2	
9900	90	0	100	9144.997	-6010	560.428	-449.58		
		_			-6010	660.428			
10000	90	0	100	9144.997	-6010		-449.58	623028.2 623028.2	
10100	90	0	100 105.45	9144.997	-6010 -6010	760.428	-449.58	623028.2	
10205.45 10300	90 90	0 358.109	94.55	9144.997 9144.997	-6010	865.877 960.41	-449.58	623026.6	
10400	90	356.109	100	9144.997	-6010	1060.278		623020.6	
10500	90	354.109	100	9144.997	-6010	1159.909	-464.709	623013	
10600	90	352.109	100	9144.997	-6010	1259.181	-404.709	623001	
10700	90	350.109	100	9144.997	-6010	1357.975		622985.6	444593
10800	90	348.109	100	9144.997	-6010	1456.169	-511.055	622966.7	444691.1
10857.95	90	346.95	57.95	9144.997	-6010	1512.75		622954.2	
10837.93	90	340.93	42.05	9144.997	-6010		-532.762	622945	
11000	90	349.791	100	9144.997	-6010	1651.87		622925.6	444886.9
11100	90	351.791	100	9144.997	-6010	1750.576		622909.5	444985.6
11200	90	353.791	100	9144.997	-6010	1849.781	-580.751	622897	445084.8
11300	90	355.791	100	9144.997	-6010	1949.363	-589.829	622887.9	445184.3
11400	90	357.791	100	9144.997	-6010	2049.201	-595.427	622882.3	445284.2
11496.45	90	359.72	96.448	9144.997	-6010	2145.622	-597.521		
11500	90	359.72		9144.997	-6010	2149.174			
11600	90	359.72	100	9144.997	-6010	2249.172	-598.027		445484.2
11700	90	359.72	100	9144.997	-6010	2349.171	-598.516	622879.2	
11800	90	359.72	100	9144.997	-6010	2449.17	-599.005	622878.7	445684.2
11900	90	359.72	100	9144.997	-6010	2549.169		622878.3	445784.1
12000	90	359.72	100	9144.998	-6010	2649.168		622877.8	
12100	90	359.72	100	9144.998		2749.166		622877.3	
12200	90	359.72		9144.998		2849.165			
12300	90	359.72		9144.998		2949.164		622876.3	
12400	90	359.72		9144.998		3049.163		622875.8	
12500	90	359.72		9144.998		3149.162		622875.3	
12600	90	359.72	100	9144.998	-6010	3249.16	-602.915	622874.8	446484.1
12700	90	359.72	100	9144.998	-6010	3349.159	-603.404	622874.3	446584.1
12800	90	359.72	100	9144.998	-6010	3449.158	-603.892	622873.9	446684.1
12900	90	359.72	100	9144.998	-6010	3549.157	-604.381	622873.4	446784.1
13000	90	359.72	100	9144.998	-6010	3649.156	-604.87	622872.9	446884.1
13100	90	359.72	100	9144.998	-6010	3749.154	-605.359	622872.4	446984.1
13200	90	359.72	100	9144.998	-6010	3849.153	-605.847	622871.9	447084.1
13300	90	359.72	100	9144.998	-6010	3949.152	-606.336	622871.4	447184.1
13400	90	359.72	100	9144.998	-6010	4049.151	-606.825	622870.9	447284.1
13500	90	359.72	100	9144.998	-6010	4149.15	-607.314	622870.4	447384.1
13600	90	359.72	100	9144.998	-6010	4249.148	-607.802	622869.9	447484.1
13700	90	359.72	100	9144.998	-6010	4349.147	-608.291	622869.5	447584.1
13800	90	359.72	100	9144.998	-6010	4449.146	-608.78	622869	447684.1

13900	90	359.72	100	9144.998	-6010	4549.145	-609.269	622868.5	447784.1
14000	90	359.72	100	9144.998	-6010	4649.144	-609.757	622868	447884.1
14100	90	359.72	100	9144.998	-6010	4749.142	-610.246	622867.5	447984.1
14200	90	359.72	100	9144.998	-6010	4849.141	-610.735	622867	448084.1
14300	90	359.72	100	9144.998	-6010	4949.14	-611.224	622866.5	448184.1
14400	90	359.72	100	9144.998	-6010	5049.139	-611.712	622866	448284.1
14500	90	359.72	100	9144.998	-6010	5149.138	-612.201	622865.5	448384.1
14600	90	359.72	100	9144.998	-6010	5249.137	-612.69	622865.1	448484.1
14700	90	359.72	100	9144.998	-6010	5349.135	-613.179	622864.6	448584.1
14800	90	359.72	100	9144.998	-6010	5449.134	-613.667	622864.1	
14900	90	359.72	100	9144.998	-6010	5549.133	-614.156	622863.6	448784.1
15000	90	359.72	100	9144.998	-6010	5649.132	-614.645	622863.1	
15100	90	359.72	100	9144.999	-6010	5749.131	-615.134	622862.6	448984.1
15200	90	359.72	100	9144.999	-6010	5849.129		622862.1	
15300	90	359.72	100	9144.999	-6010	5949.128	-616.111		449184.1
15400	90	359.72	100	9144.999	-6010	6049.127	-616.6	622861.2	
15500	90	359.72	100	9144.999	-6010	6149.126	-617.089	622860.7	
15600 15600	90	359.72	100	9144.999	-6010	6249.125	-617.577	622860.2	
15700	90	359.72	100	9144.999	-6010	6349.123	-618.066	622859.7	
15800	90	359.72	100	9144.999	-6010	6449.122	-618.555	622859.7	449684.1
15900	90	359.72 359.72	100	9144.999	-6010	6549.121	-619.044	622858.7	449784.1
		359.72	100	9144.999	-6010	6649.12	-619.532	622858.2	449884.1
16000 16100	90						-620.021		
16100 16300	90	359.72	100	9144.999	-6010	6749.119			449984.1
16200	90	359.72	100	9144.999	-6010	6849.117		622857.2	
16300	90	359.72	100	9144.999	-6010	6949.116	-620.999	622856.8	450184.1
16400	90	359.72	100	9144.999	-6010	7049.115	-621.487	622856.3	450284.1
16500	90	359.72	100	9144.999	-6010	7149.114	-621.976	622855.8	450384.1
16600	90	359.72	100	9144.999	-6010	7249.113	-622.465	622855.3	450484.1
16700	90	359.72	100	9144.999	-6010	7349.111		622854.8	450584.1
16800	90	359.72		9144.999	-6010	7449.11		622854.3	
16900	90	359.72		9144.999		7549.109			
17000	90	359.72		9144.999		7649.108		622853.3	
17100	90	359.72		9144.999		7749.107		622852.8	
17200	90	359.72		9144.999		7849.105		622852.4	
17300	90	359.72		9144.999		7949.104		622851.9	
17400	90	359.72		9144.999		8049.103		622851.4	
17500	90	359.72		9144.999		8149.102		622850.9	
17600	90	359.72		9144.999		8249.101		622850.4	
17700	90	359.72		9144.999		8349.099		622849.9	
17800	90	359.72		9144.999		8449.098		622849.4	
17900	90	359.72		9144.999		8549.097		622848.9	
18000	90	359.72		9144.999		8649.096	-629.307		
18100	90	359.72	100	9145		8749.095	-629.796		451984.1
18200	90	359.72	100	9145		8849.094		622847.5	
18300	90	359.72	100	9145		8949.092	-630.774		452184.1
18400	90	359.72	100	9145		9049.091	-631.262	622846.5	
18500	90	359.72	100	9145	-6010	9149.09	-631.751	622846	452384.1

18600	90	359.72	100	9145	-6010	9249.089	-632.24	622845.5	452484.1
18700	90	359.72	100	9145	-6010	9349.088	-632.729	622845	452584.1
18800	90	359.72	100	9145	-6010	9449.086	-633.217	622844.5	452684.1
18900	90	359.72	100	9145	-6010	9549.085	-633.706	622844	452784.1
19000	90	359.72	100	9145	-6010	9649.084	-634.195	622843.6	452884.1
19100	90	359.72	100	9145	-6010	9749.083	-634.684	622843.1	452984.1
19200	90	359.72	100	9145	-6010	9849.082	-635.172	622842.6	453084.1
19300	90	359.72	100	9145	-6010	9949.08	-635.661	622842.1	453184.1
19400	90	359.72	100	9145	-6010	10049.08	-636.15	622841.6	453284.1
19500	90	359.72	100	9145	-6010	10149.08	-636.639	622841.1	453384.1
19600	90	359.72	100	9145	-6010	10249.08	-637.127	622840.6	453484.1
19621.02	90	359.72	21.023	9145	-6010	10270.1	-637.23	622840.5	453505.1
19671.01	90	359.72	49.981	9145	-6010	10320.08	-637.474	622840.3	453555.1

Latitude	Longitude	Dogleg Sev	<b>Build Rate</b>	Turn Rate	Vertical Section
LAT	LON	DLS	BLD	TRN	VS
32.21794	-103.934	0	0	0	0
32.21794	-103.934	0	0	0	0
32.21794	-103.934	0	0	0	0
32.21794	-103.934	0	0	0	0
32.21794	-103.934	0	0	0	0
32.21794	-103.934	0	0	0	0
32.21794	-103.934	0	0	0	0
32.21794	-103.934	0	0	0	0
32.21794	-103.934	0	0	0	0
32.21794	-103.934	0	0	0	0
32.21794	-103.934	0	0	0	0
32.21794	-103.934	0	0	0	0
32.21794	-103.934	0	0	0	0
32.21794	-103.934	0	0	0	0
32.21794	-103.934	0	0	0	0
32.21794	-103.934	2	2	0	-1.637
32.21792	-103.934	2	2	0	-6.546

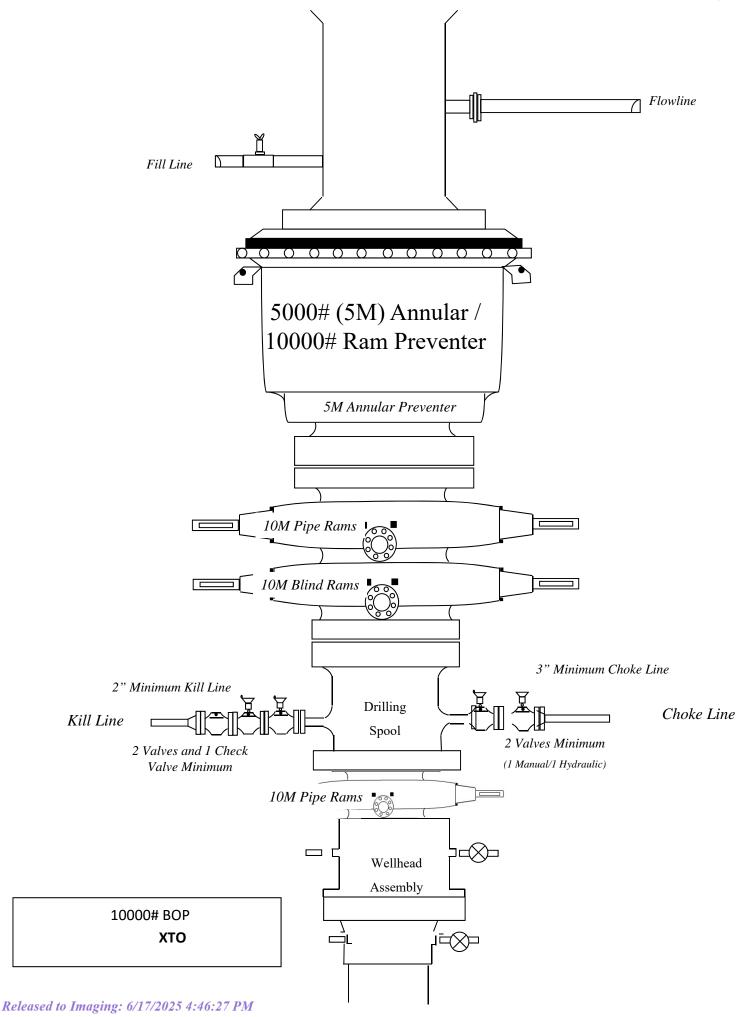
32.2179	-103.934	2	2	0	-14.721
32.21787	-103.934	2	2	0	-26.152
32.21783	-103.934	2	2	0	-40.825
32.21778	-103.934	2	2	0	-58.722
32.21772	-103.934	2	2	0	-79.821
32.21769	-103.934	2	2	0	-91.564
32.21765	-103.934	0	0	0	-103.703
32.21759	-103.934	0	0	0	-127.98
32.21752	-103.934	0	0	0	-152.258
32.21745	-103.934	0	0	0	-176.535
32.21739	-103.934	0	0	0	-200.813
32.21735	-103.934	0	0	0	-212.952
32.21732	-103.934	2	-1.88	2.7	-224.667
32.21726	-103.934	2	-1.85	3.31	-245.544
32.21722	-103.934	2	-1.8	4.46	-262.998
32.21718	-103.934	2	-1.71	6.24	-277.006
32.21715	-103.934	2	-1.56	9.11	-287.553
32.21713	-103.934	2	-1.29	13.61	-294.624
32.21713	-103.934	2	-1	17.59	-296.322
32.21712	-103.935	0	0	0	-298.922
32.21711	-103.935	0	0	0	-302.993
32.2171	-103.935	0	0	0	-307.063
32.21708	-103.935	0	0	0	-311.134
32.21707	-103.935	0	0	0	-315.205
32.21706	-103.935	0	0	0	-319.276
32.21705	-103.935	0	0	0	-323.347
32.21704	-103.935	0	0	0	-327.417
32.21703	-103.935	0	0	0	-331.488
32.21702	-103.935	0	0	0	-335.559
32.21701	-103.935	0	0	0	-339.63
32.21699	-103.935	0	0	0	-343.701
32.21698	-103.935	0	0	0	-347.771
32.21697	-103.935	0	0	0	-351.842
32.21696	-103.935	0	0	0	-355.913
32.21695	-103.935	0	0	0	-359.984
32.21694	-103.935	0	0	0	-364.055
32.21693	-103.935	0	0	0	-368.125
32.21692	-103.935	0	0	0	-372.196
32.2169	-103.935	0	0	0	-376.267
32.21689	-103.935	0	0	0	-380.338
32.21688	-103.935	0	0	0	-384.409
32.21687	-103.935	0	0	0	-388.479
32.21686	-103.935	0	0	0	-392.55
32.21685	-103.935	0	0	0	-396.621
32.21684	-103.935	0	0	0	-400.692
32.21683	-103.935	0	0	0	-404.763
32.21681	-103.935	0	0	0	-408.833

32.2168	-103.935	0	0	0	-412.904
32.21679	-103.935	0	0	0	-416.975
32.21678	-103.935	0	0	0	-421.046
32.21677	-103.935	0	0	0	-425.117
32.21676	-103.935	0	0	0	-429.187
32.21675	-103.935	0	0	0	-433.258
32.21674	-103.935	0	0	0	-437.329
32.21673	-103.935	0	0	0	-441.4
32.21672	-103.935	0	0	0	-442.547
32.21672	-103.936	2	-2	0	-445.088
32.21671	-103.936	2	-2	0	-447.347
32.21671	-103.936	2	-2	0	-448.118
32.21671	-103.936	0	0	0	-448.118
32.21671	-103.936	0	0	0	-448.118
32.21671	-103.936	0	0	0	-448.118
32.21671	-103.936	0	0	0	-448.118
32.21671	-103.936	0	0	0	-448.118
32.21671	-103.936	0	0	0	-448.118
32.21671	-103.936	0	0	0	-448.118
32.21671	-103.936	0		0	-448.118
		_	0	_	
32.21671	-103.936	0	0	0	-448.118
32.21671	-103.936	0	0	0	-448.118
32.21671	-103.936	0	0	0	-448.118
32.21671	-103.936	0	0	0	-448.118
32.21671	-103.936	0	0	0	-448.118
32.21671	-103.936	0	0	0	-448.118
32.21671	-103.936	8	8	0	-447.851
32.21672	-103.936	8	8	0	-444.743
32.21673	-103.936	8	8	0	-438.163
32.21676	-103.936	8	8	0	-428.142
	-103.936	8	8		
32.2168				0	
32.21684	-103.936	8	8	0	-397.99
32.2169	-103.936	8	8	0	-378.005
32.21696	-103.936	8	8	0	-354.873
32.21703	-103.936	8	8	0	-328.706
32.21711	-103.936	8	8	0	-299.632
32.2172	-103.936	8	8	0	-267.792
32.2173	-103.936	8	8	0	-233.341
32.2174	-103.936	8	8	0	-196.447
32.21751	-103.936	8	8	0	-157.291
32.21762	-103.936	8	8	0	-116.062
32.21774	-103.936	8	8	0	-72.961
32.21786	-103.936	8	8	0	-28.199
32.21799	-103.936	8	8	0	18.006
32.21812	-103.936	8	8	0	65.43
32.21825	-103.936	8	8	0	113.841
32.21839	-103.936	8	8	0	163.003

32.21852	-103.936	8	8	0	212.677
32.21866	-103.936	8	8	0	262.622
32.21868	-103.936	8	8	0	268.071
32.21894	-103.936	0	0	0	362.62
32.21921	-103.936	0	0	0	462.619
32.21949	-103.936	0	0	0	562.618
32.21976	-103.936	0	0	0	662.617
32.22003	-103.936	0	0	0	762.616
32.22032	-103.936	0	0	0	868.064
32.22058	-103.936	2	0	-2	962.604
32.22086	-103.936	2	0	-2	1062.495
32.22113	-103.936	2	0	-2	1162.166
32.22141	-103.936	2	0	-2	1261.496
32.22168	-103.936	2	0	-2	1360.364
32.22195	-103.936	2	0	-2	1458.649
32.2221	-103.936	2	0	-2	1515.291
32.22222	-103.936	2	0	2	1556.368
32.22249	-103.936	2	0	2	1654.549
32.22276	-103.936	2	0	2	1753.332
32.22303	-103.936	2	0	2	1852.597
32.2233	-103.936	2	0	2	1952.222
32.22358	-103.936	2	0	2	2052.086
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32.22468	-103.936	0	0	0	2452.068
32.22495	-103.936	0	0	0	2552.068
32.22523	-103.936	0	0	0	2652.068
32.2255	-103.936	0	0	0	2752.068
	-103.936	0	0	0	2852.068
32.22605	-103.936	0	0	0	2952.068
32.22633	-103.936	0	0	0	3052.068
32.2266	-103.936	0	0	0	3152.068
32.22688	-103.936	0	0	0	3252.068
32.22715	-103.936	0	0	0	3352.068
32.22743	-103.936	0	0	0	3452.068
32.2277	-103.936	0	0	0	3552.068
32.22798	-103.936	0	0		3652.068
32.22825	-103.936	0	0	0	3752.068
32.22853	-103.936	0	0	_	3852.068
32.2288	-103.936	0	0	0	3952.068
32.22908	-103.936	0	0	0	4052.068
32.22935	-103.936	0	0	0	4152.068
32.22963	-103.936	0	0	0	4252.068
32.2299	-103.936	0	0	_	4352.068
32.23018	-103.936	0	0	0	4452.068
32.23010	100.550	J	3	U	. 132.000

32.23045	-103.936	0	0	0	4552.068
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32.231	-103.936	0	0	0	4752.068
32.23128	-103.936	0	0	0	4852.068
32.23155	-103.936	0	0	0	4952.068
32.23183	-103.936	0	0	0	5052.068
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32.23255	-103.936	0	0	0	5352.068
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		_		_	
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32.23512	-103.936	0	0	0	6252.068
32.2354	-103.936	0	0	0	6352.068
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32.23705	-103.936	0	0	0	6952.068
32.23732	-103.936	0	0	0	7052.068
32.2376	-103.936	0	0	0	7152.068
32.23787	-103.936	0	0	0	7252.068
32.23815	-103.936	0	0	0	7352.068
32.23842	-103.936	0	0	0	7452.068
32.2387		_	_	_	
	-103.936 -103.936	0	0		7552.068 7652.068
32.23897		0	0	0	
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32.24117	-103.936	0	0	0	8452.068
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32.242	-103.936	0	0	0	8752.068
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32.24365	-103.936	0	0	0 9352.068
32.24392	-103.936	0	0	0 9452.068
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32.24475	-103.936	0	0	0 9752.068
32.24502	-103.936	0	0	0 9852.068
32.2453	-103.936	0	0	0 9952.068
32.24557	-103.936	0	0	0 10052.07
32.24585	-103.936	0	0	0 10152.07
32.24612	-103.936	0	0	0 10252.07
32.24618	-103.936	0	0	0 10273.09
32.24632	-103.936	0	0	0 10323.07



# **TenarisHydril Wedge** 511



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

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

#### Pipe Body Data

Geometry			
Nominal OD	7.625 in.	Wall Thickness	0.375 in.
Nominal Weight	29.70 lb/ft	Plain End Weight	29.06 lb/ft
Drift	6.750 in.	OD Tolerance	API
Nominal ID	6.875 in.		

Performance	
Body Yield Strength	1068 x1000 lb
Min. Internal Yield Pressure	11,070 psi
SMYS	125,000 psi
Collapse Pressure	7360 psi

#### **Connection Data**

7.625 in.
6.787 in.
3.704 in.
3.28
Regular

Performance	
Tension Efficiency	61.10 %
Joint Yield Strength	653 x1000 lb
Internal Pressure Capacity	11,070 psi
Compression Efficiency	73.80 %
Compression Strength	788 x1000 lb
Max. Allowable Bending	45.83 °/100 ft
External Pressure Capacity	7360 psi

Make-Up Torques	
wake-op forques	
Minimum	5900 ft-lb
Optimum	7100 ft-lb
Maximum	10,300 ft-lb
Operation Limit Torques	
Operating Torque	55,000 ft-lb
Yield Torque	82,000 ft-lb

#### Notes

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# TenarisHydril Wedge 511



Coupling	Pipe Body
Grade: L80-IC	Grade: L80-IC
Body: Red	1st Band: Red
1st Band: Brown	2nd Band: Brown
2nd Band: -	3rd Band: Pale Green
3rd Band: -	4th Band: -
	5th Band: -
	6th Band: -

Outside Diameter	7.625 in.	Wall Thickness	0.375 in.	Grade	L80-IC
Min. Wall Thickness	87.50 %	Pipe Body Drift	API Standard	Туре	Casing
Connection OD Option	REGULAR				

#### Pipe Body Data

Geometry			
Nominal OD	7.625 in.	Wall Thickness	0.375 in.
Nominal Weight	29.70 lb/ft	Plain End Weight	29.06 lb/ft
Drift	6.750 in.	OD Tolerance	API
Nominal ID	6.875 in.		

Performance	
Body Yield Strength	683 x1000 lb
Min. Internal Yield Pressure	6890 psi
SMYS	80,000 psi
Collapse Pressure	5900 psi

#### **Connection Data**

Geometry	
Connection OD	7.625 in.
Connection ID	6.787 in.
Make-up Loss	3.704 in.
Threads per inch	3.28
Connection OD Option	Regular

Performance	
Tension Efficiency	61.10 %
Joint Yield Strength	417 x1000 lb
Internal Pressure Capacity	6890 psi
Compression Efficiency	73.80 %
Compression Strength	504 x1000 lb
Max. Allowable Bending	29.33 °/100 ft
External Pressure Capacity	5900 psi

Make-Up Torques	
Minimum	5900 ft-lb
Optimum	7100 ft-lb
Maximum	10,300 ft-lb
Operation Limit Torques	
Operating Torque	35,000 ft-lb
Yield Torque	52,000 ft-lb

#### Notes

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Coupling	Pipe Body
Grade: P110-CY	Grade: P110-CY
Body: White	1st Band: White
1st Band: Grey	2nd Band: Grey
2nd Band: -	3rd Band: -
3rd Band: -	4th Band: -
	5th Band: -
	6th Band: -

Outside Diameter	5.500 in.	Wall Thickness	0.361 in.	Grade	P110-CY
Min. Wall Thickness	87.50 %	Pipe Body Drift	API Standard	Туре	Casing
Connection OD Option	REGULAR				

#### Pipe Body Data

Geometry			
Nominal OD	5.500 in.	Wall Thickness	0.361 in.
Nominal Weight	20.00 lb/ft)	Plain End Weight	19.83 lb/ft
Drift	4.653 in.	OD Tolerance	API
Nominal ID	4.778 in.		

Performance	
Body Yield Strength	641 x1000 lb
Min. Internal Yield Pressure	12,640 psi
SMYS	110,000 psi
Collapse Pressure	11,100 psi

#### **Connection Data**

Geometry	
Connection OD	6.300 in.
Coupling Length	8.408 in.
Connection ID	4.778 in.
Make-up Loss	4.204 in.
Threads per inch	5
Connection OD Option	Regular

100 %
641 x1000 lb
12,640 psi
100 %
641 x1000 lb
92 °/100 ft
11,100 psi

Make-Up Torques	
Minimum	13,860 ft-lb
Optimum	15,400 ft-lb
Maximum	16,940 ft-lb
Operation Limit Torques	
Operating Torque	26,350 ft-lb
Yield Torque	29,300 ft-lb

#### Notes

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# TenarisHydril Wedge 441®



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

Outside Diameter	5.500 in.	Wall Thickness	0.361 in.	Grade	P110-ICY
Min. Wall Thickness	87.50 %	Pipe Body Drift	API Standard	Туре	Casing
Connection OD Option	REGUI AR				

#### Pipe Body Data

Geometry			
Nominal OD	5.500 in.	Wall Thickness	0.361 in.
Nominal Weight	20.00 lb/ft	Plain End Weight	19.83 lb/ft
Drift	4.653 in.	OD Tolerance	API
Nominal ID	4.778 in.		

Performance	
Body Yield Strength	729 x1000 lb
Min. Internal Yield Pressure	14,360 psi
SMYS	125,000 psi
Collapse Pressure	12,300 psi

Make Un Terruse

#### **Connection Data**

Geometry	
Connection OD	5.852 in.
Coupling Length	8.714 in.
Connection ID	4.778 in.
Make-up Loss	3.780 in.
Threads per inch	3.40
Connection OD Option	Regular

Performance	
Tension Efficiency	81.50 %
Joint Yield Strength	594 x1000 lb
Internal Pressure Capacity	14,360 psi
Compression Efficiency	81.50 %
Compression Strength	594 x1000 lb
Max. Allowable Bending	84.76 °/100 ft
External Pressure Capacity	12,300 psi

Make-Up Torques	
Minimum	15,000 ft-lb
Optimum	16,000 ft-lb
Maximum	19,200 ft-lb
Operation Limit Torques	
Operating Torque	36,000 ft-lb
Yield Torque	42,000 ft-lb
Buck-On	
Minimum	19,200 ft-lb
Maximum	20,700 ft-lb

#### Notes

This connection is fully interchangeable with: Wedge  $441 \cdot 8 \cdot 5.5$  in. -0.304 (17.00) in. (lb/ft) Wedge  $461 \cdot 8 \cdot 5.5$  in. -0.304 (17.00) / 0.361 (20.00) / 0.415 (23.00) in. (lb/ft) Connections with Dopeless® Technology are fully compatible with the same connection in its doped version

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ALL DIMENSIONS APPROXIMA

## CACTUS WELLHEAD LLC

20" x 9-5/8" x 7-5/8" x 5-1/2" MBU-T-CFL-R-DBLO Wellhead With 11" 10M x 7-1/16" 15M CTH-DBLHPS Tubing Head And 9-5/8", 7-5/8" & 5-1/2" Pin Bottom Mandrel Casing Hangers

XTO ENERGY INC DELAWARE BASIN			
DRAWN	VJK	31MAR2	
APPRV			

DRAWING NO. HBE0000479

FORMATION CONTAINED HEREIN IS THE PROPERTY OF CACTUS WELLHEAD, LLC. REPRODUCTION, SCLOSURE, OR USE THEREOF IS PERMISSIBLE ONLY AS PROVIDED BY CONTRACT OR AS EXPRESSLY SUTHORIZED BY CACTUS WELLHEAD, LLC.

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

#### Description of Operations:

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

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

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

#### **Background**

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

#### **Supporting Documentation**

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



Figure 1: Winch System attached to BOP Stack



Figure 2: BOP Winch System

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

	Pressure Test	-High Pressureac
Pressure Test—Low Pressure <sup>ac</sup> psig (MPa)	Change Out of Component, Elastomer, or Ring Gasket	No Change Out of Component, Elastomer, or Ring Gasket
250 to 350 (1.72 to 2.41)	RWP of annular preventer	MASP or 70% annular RWP, whichever is lower.
250 to 350 (1.72 to 2.41)	RWP of ram preventer or wellhead system, whichever is lower	ПР
250 to 350 (1.72 to 2.41)	RWP of side outlet valve or wellhead system, whichever is lower	ITP
250 to 350 (1.72 to 2.41)	RWP of ram preventers or wellhead system, whichever is lower	ITP
250 to 350 (1.72 to 2.41)	RWP of valve(s), line(s), or MASP for the well program, whichever is lower	
250 to 350 (1.72 to 2.41)	MASP for the well program	
sure tested on the largest and sm from one wellhead to another within	allest OD drill pipe to be used in well n the 21 days, pressure testing is req	program.
	psig (MPa)  250 to 350 (1.72 to 2.41)  all be a minimum of five minutes. turing the evaluation period. The psure tested on the largest and sm om one wellhead to another with when the integrity of a pressure sesure sessent sesure sesure sesure sesure sesure sesure sesure sesure ses	250 to 350 (1.72 to 2.41)  250 to 350 (1.72 to 2.41)  RWP of annular preventer  RWP of ram preventer or wellhead system, whichever is lower  RWP of side outlet valve or wellhead system, whichever is lower  RWP of ram preventer or wellhead system, whichever is lower  RWP of side outlet valve or wellhead system, whichever is lower  RWP of ram preventers or wellhead system, whichever is lower  RWP of valve(s), line(s), or Nowhichever is lower  RWP of valve(s), line(s), or Nowhichever is lower  MASP for the well program

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

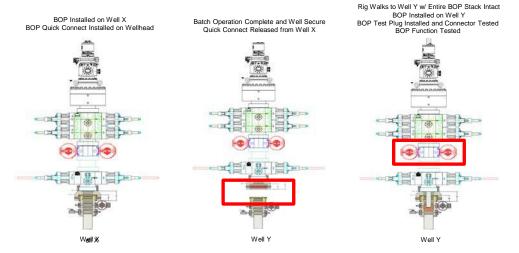
each BOP nipple up, XTO Energy performs a choke drill with the rig crew prior to drilling out every casing shoe. This is additional training for the rig crew that exceeds the requirements of the CFR Title 43 Part 3170.

#### **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



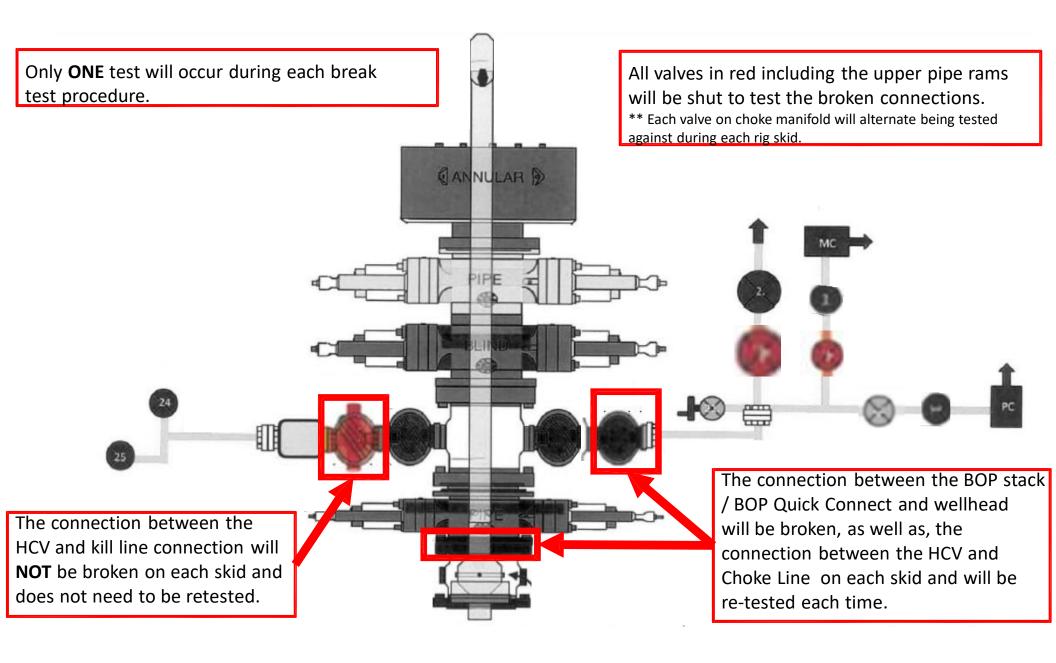
#### **Summary**

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.





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NEW CHOKE HOSE

INSTAUED 02-10-2024

## CERTIFICATE OF CONFORMANCE

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

CI	ICT	ON	IER:	
C	,,,	OIA	LIL.	

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 #:

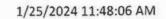
74621 H3-012524-1

SIGNATURE: 7. CUSTUS G

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

Fitting 1:

3.0 x 4-1/16 10K

Test pressure: Test pressure hold: 15000.00 3600.00

Part number:

Work pressure:

10000.00

sec psi

psi

Description:

Work pressure hold:

900.00 sec

Fitting 2:

3.0 x 4-1/16 10K

Length difference: Length difference: 0.00 0.00 % inch Part number:

Description:

Visual check:

Pressure test result:

PASS

Length measurement result:

Length:

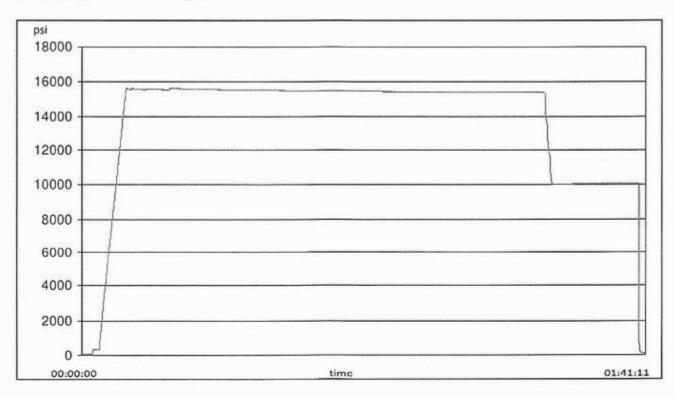
45

feet

n . . . . /n

Test operator:

Travis





H3-15/16

1/25/2024 11:48:06 AM

# **TEST REPORT**

#### **GAUGE TRACEABILITY**

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

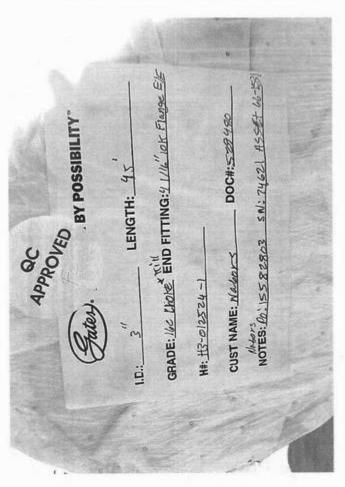


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#### **XTO Permian Operating, LLC Offline Cementing Variance Request**

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

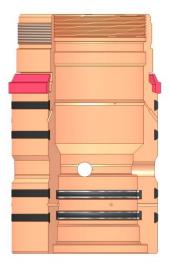
#### 1. Cement Program

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

#### 2. Offline Cementing Procedure

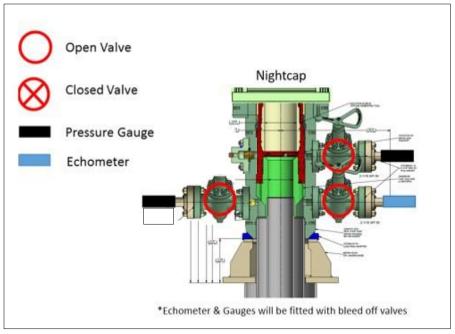
The operational sequence will be as follows. If a well control event occurs, the BLM will be contacted for approval prior to conducting offline cementing operations.

- 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

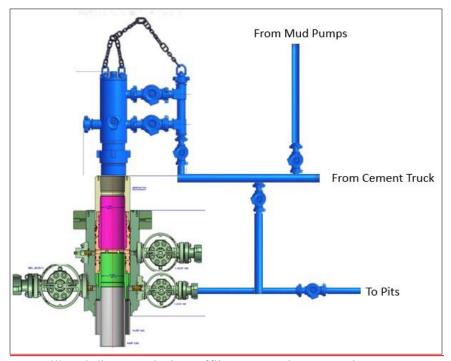
#### **XTO Permian Operating, LLC Offline Cementing Variance Request**



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.

Sante Fe Main Office Phone: (505) 476-3441

General Information Phone: (505) 629-6116

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

CONDITIONS

Action 474008

#### **CONDITIONS**

Operator:	OGRID:
XTO PERMIAN OPERATING LLC.	373075
6401 HOLIDAY HILL ROAD	Action Number:
MIDLAND, TX 79707	474008
	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.	6/17/2025