

Sundry Print Reports

Allottee or Tribe Name:

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

Well Number: 312H

Well Name: RIGHT POPULAR 20 FED Well Location: T25S / R29E / SEC 20 / County or Parish/State: EDDY /

Type of Well: OIL WELL

NWNE / 32.121844 / -104.005804

Lease Number: NMNM96848 Unit or CA Name: Unit or CA Number:

US Well Number: Operator: XTO ENERGY

INCORPORATED

#### **Notice of Intent**

**Sundry ID: 2844163** 

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 03/28/2025 Time Sundry Submitted: 10:01

Date proposed operation will begin: 04/30/2025

**Procedure Description:** XTO Energy Inc. respectfully requests approval to make the following changes to the approved APD. Changes to include KOP, FTP, LTP, BHL, proposed total depth, Pool and dedicated acreage. APD ID 10400096476 FROM: TO: KOP: 358' FNL & 2409' FEL OF SECTION 20-T25S-R29E 616' FSL & 2178' FEL OF SECTION 17-T25S-R29E FTP: 101' FNL & 1980' FEL OF SECTION 20-T25S-R29E 100' FNL & 2178' FEL OF SECTION 20-T25S-R29E LTP: 100' FSL & 1980' FEL OF SECTION 32-T25S-R29E 100' FSL & 2178' FEL OF SECTION 32-T25S-R29E BHL: 50' FSL & 1980' FEL OF SECTION 32-T25S-R29E 50' FSL & 2178' FEL OF SECTION 32-T25S-R29E The proposed total depth is changing from 25279' MD; 9080' TVD to 25004' MD; 8613' TVD. The pool is changing from WILLOW LAKE, BONE SPRING, SOUTHEAST to WILLOW LAKE; BONE SPRING, SOUTHEAST & ROCK SPUR; BONE SPRING The dedicated acreage is changing from 480.00 to 480.00 & 480.00. There is no new surface disturbance.

#### **NOI Attachments**

### **Procedure Description**

Right\_Popular\_20\_Fed\_312H\_Sundry\_Change\_Attachments\_20250425072846.pdf

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eceived by OCD: 5/15/2025 6:11:03 PM. Well Name: RIGHT POPULAR 20 FED

Well Location: T25S / R29E / SEC 20 /

NWNE / 32.121844 / -104.005804

County or Parish/State: Page 2 of

NM

Well Number: 312H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM96848

**Unit or CA Name:** 

**Unit or CA Number:** 

**US Well Number:** 

**Operator:** XTO ENERGY INCORPORATED

## **Conditions of Approval**

#### Additional

252920 Right Popular 20 Fed 312H 05 01 2025 JAM COAs 20250501140003.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: VISHAL RAJAN Signed on: APR 25, 2025 07:28 AM

Name: XTO ENERGY INCORPORATED

Title: Regulatory Clerk

Street Address: 6401 HOLIDAY HILL ROAD BLDG 5

City: MIDLAND State: TX

Phone: (432) 620-6704

Email address: VISHAL.RAJAN@EXXONMOBIL.COM

#### **Field**

**Representative Name:** 

**Street Address:** 

City: State: Zip:

Phone:

**Email address:** 

#### **BLM Point of Contact**

BLM POC Name: CHRISTOPHER WALLS

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752342234 BLM POC Email Address: cwalls@blm.gov

**Disposition:** Approved **Disposition Date:** 05/14/2025

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

BURI	5. Lease Serial No.					
Do not use this f	OTICES AND REPORTS ON form for proposals to drill of Use Form 3160-3 (APD) for s	6. If Indian, Allottee or Tribe !	Name			
SUBMIT IN 1	FRIPLICATE - Other instructions on	7. If Unit of CA/Agreement, N	lame a	nd/or No.		
1. Type of Well Gas W	/ell Other			8. Well Name and No.		
2. Name of Operator				9. API Well No.		
3a. Address	3b. Phone	No. (includ	le area code)	10. Field and Pool or Explorat	ory Ar	ea
4. Location of Well (Footage, Sec., T.,R	.,M., or Survey Description)			11. Country or Parish, State		
12. CHE	CK THE APPROPRIATE BOX(ES) TO	INDICAT	E NATURE O	F NOTICE, REPORT OR OTH	HER D	ATA
TYPE OF SUBMISSION			TYPE	OF ACTION		
Notice of Intent	= =	Deepen Hydraulic F	racturing [	Production (Start/Resume) Reclamation		Water Shut-Off Well Integrity
Subsequent Report	Casing Repair	New Constr	uction	Recomplete		Other
Subsequent Report	Change Plans	lug and Ab	andon	Temporarily Abandon		
Final Abandonment Notice	Convert to Injection	Plug Back		Water Disposal		
completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has be completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)						
4. I hereby certify that the foregoing is	true and correct. Name (Printed/Typed)					
		Title				
Signature		Date				
	THE SPACE FOR FE	EDERAL	OR STAT	TE OFICE USE		
Approved by						
		+	Title	]1	Date	
	ned. Approval of this notice does not wa equitable title to those rights in the subje- duct operations thereon.		Office			
Fitle 18 U.S.C Section 1001 and Title 43	3 U.S.C Section 1212, make it a crime for	or any perso	on knowingly	and willfully to make to any de	partme	ent or agency of the United States

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 State any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

#### **GENERAL INSTRUCTIONS**

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

#### SPECIFIC INSTRUCTIONS

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

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

#### **NOTICES**

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

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

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

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

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

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

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

Response to this request is mandatory.

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

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

#### **Additional Information**

#### **Additional Remarks**

WILLOW LAKE; BONE SPRING, SOUTHEAST & ROCK SPUR; BONE SPRING

The dedicated acreage is changing from 480.00 to 480.00 & 480.00.

There is no new surface disturbance.

#### **Location of Well**

0. SHL: NWNE / 358 FNL / 2409 FEL / TWSP: 25S / RANGE: 29E / SECTION: 20 / LAT: 32.121844 / LONG: -104.005804 ( TVD: 0 feet, MD: 0 feet ) PPP: NWSE / 2663 FNL / 1989 FEL / TWSP: 25S / RANGE: 29E / SECTION: 29 / LAT: 32.100903 / LONG: -104.004368 ( TVD: 9080 feet, MD: 17400 feet ) PPP: NWNE / 0 FSL / 1966 FEL / TWSP: 25S / RANGE: 29E / SECTION: 29 / LAT: 32.108217 / LONG: -104.004385 ( TVD: 9080 feet, MD: 14700 feet ) PPP: NWNE / 101 FNL / 1980 FEL / TWSP: 25S / RANGE: 29E / SECTION: 20 / LAT: 32.122533 / LONG: -104.004418 ( TVD: 9080 feet, MD: 9500 feet ) PPP: SWSE / 1331 FSL / 2000 FEL / TWSP: 25S / RANGE: 29E / SECTION: 29 / LAT: 32.097242 / LONG: -104.004359 ( TVD: 9080 feet, MD: 18700 feet ) BHL: SWSE / 50 FSL / 1980 FEL / TWSP: 25S / RANGE: 29E / SECTION: 32 / LAT: 32.079084 / LONG: -104.004318 ( TVD: 9080 feet, MD: 25279 feet )

# PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: XTO Energy, Inc.
WELL NAME & NO.: Right Popular 20 Fed 312H
LOCATION: Section 20, T.25S., R.29E.
COUNTY: Eddy County

COA

H2S	Yes	C No	
Potash	None	Secretary	© R-111-P
Cave/Karst Potential	C Low	• Medium	C High
Cave/Karst Potential	Critical		
Variance	O None	© Flex Hose	Other
Wellhead	Conventional	• Multibowl	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	□ СОМ	□ Unit
Special Requirements	☐ Batch Sundry		
Special Requirements	✓ Break Testing	✓ Offline	□ Casing
Variance	_	Cementing	Clearance

**Medium Cave/Karst** 

Possibility of water flows in the Salado Possibility of lost circulation in the Rustler 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 **498** 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.
     Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst.
  - ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

Operator has proposed to pump down 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. Excess cement calculates to 22% additional 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 10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 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)

#### **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 5/1/2025

Phone: (505) 476-3441 General Information Phone: (505) 629-6116

Online Phone Directory Visit:

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

#### State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION

Revised July 9, 2024
Submit Electronically
via OCD Permitting
☐ Initial Submittal

	☐ Initial Submitta
ubmittal	

XIYes □No

Submittal Type:	<b>▼</b> Amended Report
	☐ As Drilled

<b>VELL</b>	LO	CATI	ON I	NFO	RMA	ATIO	V
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API Number	Pool Code	Pool Name	
30-015-	52775	ROCK SPUR; BONE S	SPRING
Property Code	Property Name		Well Number
	RIGHT	POPULAR 20 FED	312H
OGRID No.	Operator Name		Ground Level Elevation
005380	хто	2980'	
Surface Owner: □ State □ Fee □	Tribal 🗷 Federal	Mineral Owner: XI State ☐ Fee ☐ Tribal XI F	ederal

	Surface Location									
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		Longitude	County
В	20	25S	29E		358 FNL	2,409 FEL	32.121	1844	-104.005804	EDDY
Bottom Hole Location										
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		Longitude	County
0	32	25S	29E		50 FSL	2,178 FEL	32.079	9084	-104.004957	EDDY
Dedicate	ed Acres	Infill or Defi	ning Well	Defining	Well API	Overlapping Spacing	Unit (Y/N)	Consolid	lation Code	
48	30.00	DEFI	NING			Y			С	

	Kick Off Point (KOP)								
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
О	17	25S	29E		616 FSL	2,178 FEL	32.124511	-104.005064	EDDY
	First Take Point (FTP)								
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
В	20	25S	29E		100 FNL	2,178 FEL	32.122543	-104.005059	EDDY
	Last Take Point (LTP)								
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
0	32	<b>25</b> S	29E		100 FSL	2,178 FEL	32.079221	-104.004957	EDDY

Unitized Area or Area of Uniform Interest		Mar. 1 - 1 - 1 - 1	Ground Floor Elevation:
		■ Horizontal □ Vertical	2980'

#### OPERATOR CERTIFICATIONS

Order Numbers:

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 a 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 well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

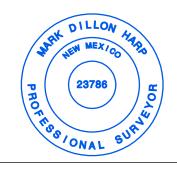
If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.

Vishal Rajan Signature	4/24/2025
Signature 0	Date
Vishal Rajan	
Printed Name	
vishal.rajan@exxonmobil.com	
Email Address	

#### SURVEYOR CERTIFICATIONS

Well setbacks are under Common Ownership:

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.



Signature and Seal of Professional Surveyor

23786 04-22-2025 Date of Survey

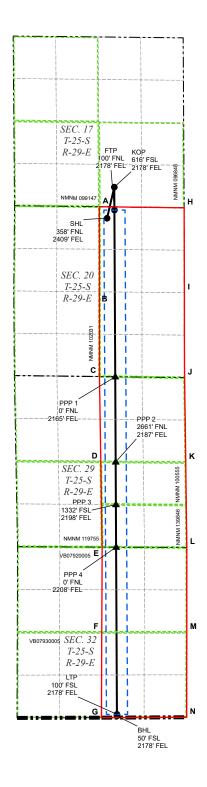
DB 618.013013.02-27

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

#### ACREAGE DEDICATION PLATS

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

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### LEGEND



			WELL	COORDINAT	E 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 LON
SHL	642,733.4	408,217.0	32.121844	-104.005804	601,549.4	408,158.6	32.121719	-104.005316
KOP	642,959.4	409,188.0	32.124511	-104.005064	601,775.4	409,129.6	32.124387	-104.004576
FTP	642,963.3	408,472.2	32.122543	-104.005059	601,779.3	408,413.7	32.122419	-104.004571
LTP	643,043.0	392,712.7	32.079221	-104.004957	601,858.5	392,654.7	32.079097	-104.004470
BHL	643,042.9	392,662.7	32.079084	-104.004957	601,858.5	392,604.7	32.078959	-104.004471
PPP 1	642,989.7	403,263.9	32.108226	-104.005025	601,805.5	403,205.6	32.108102	-104.004537
PPP 2	643,003.1	400,602.4	32.100910	-104.005008	601,818.9	400,544.1	32.100785	-104.004520
PPP 3	643,009.8	399,270.3	32.097248	-104.004999	601,825.6	399,212.1	32.097123	-104.004512
PPP 4	643,016.6	397,938.2	32.093586	-104.004991	601,832.3	397,880.0	32.093461	-104.004503

CORNER COORDINATE TABLE								
CORNER NAD 83 NME X		NAD 83 NME Y	NAD 27 NME X	NAD 27 NME Y				
Α	642,492.6	408,577.9	601,308.6	408,519.5				
В	642,494.3	405,917.9	601,310.2	405,859.6				
С	642,495.9	403,270.2	601,311.8	403,211.9				
D	642,538.1	400,606.2	601,353.9	400,547.9				
Е	642,580.3	397,940.2	601,396.0	397,882.0				
F	642,568.1	395,277.1	601,383.8	395,219.0				
G	642,556.0	392,610.7	601,371.6	392,552.7				
Н	645,141.2	408,545.6	603,957.1	408,487.2				
I	645,148.4	405,891.0	603,964.2	405,832.6				
J	645,154.2	403,236.5	603,970.0	403,178.1				
K	645,190.7	400,584.5	604,006.4	400,526.2				
L	645,225.2	397,927.8	604,040.9	397,869.6				
М	645,222.7	395,276.3	604,038.3	395,218.2				
N	645,220.9	392,621.7	604,036.4	392,563.7				

If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.

Vishal Rajan 4/24/2025 Vishal Rajan

vishal.rajan@exxonmobil.com Email Address



04-22-2025

Signature and Seal of Professional Surveyor

23786

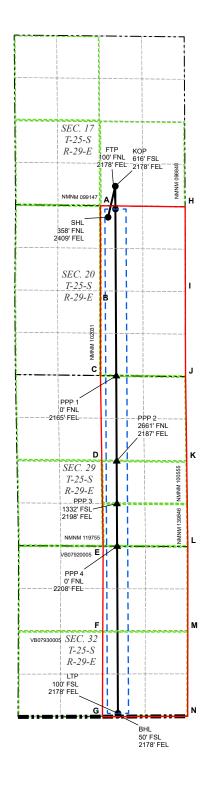
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М	645,222.7	395,276.3	604,038.3	395,218.2				
N	N 645,220.9 392,621		604,036.4	392,563.7				

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

ExxonMobil

Right Popular 20 Fed 312H

Projected TD: 25004' MD / 8613' TVD

SHL: 358' FNL & 2409' FEL , Section 20, T25S, R29E

BHL: 50' FSL & 2178' FEL , Section 32, T25S, R29E Eddy County, NM

# 1. Geologic Name of Surface Formation A. Quaternary

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

Formation	Well Depth	Water/Oil/Gas	Section View
Salado	568'	Water	0 SHL
Base of Salt	2741'	Water	1000
Delaware	2936'	Water	⊋ 2000
Cherry Canyon	3811'	Water/Oil/Gas	£ 3000
Brushy Canyon	5416'	Water/Oil/Gas	g 4000
Basal Brushy Canyon	6414'	Water/Oil/Gas	□ 5000
Bone Spring Lm.	6666'	Water/Oil/Gas	H 6000
Avalon Shale	6833'	Water/Oil/Gas	(#) 2000 ## 3000 ## 4000 ## 6000 NOTE: 1000   100
Avalon Lower	7253'	Water/Oil/Gas	9 7000 BHL FTP
1st Bone Spring Lime	7421'	Water/Oil/Gas	
1st Bone Spring Sand	7617'	Water/Oil/Gas	9000 LTP
2nd Bone Spring Lime	8004'	Water/Oil/Gas	10000
2nd Bone Spring Sand	8428'	Water/Oil/Gas	-20000 -15000 -10000 -5000 0 5000
Landing	8613'	Water/Oil/Gas	Vertical Section (ft)
2nd Bone Spring Sand_Base B	8663'	Water/Oil/Gas	DI V
			Plan View
			-16000 BHL LTP
			€14000
			€12000
			된10000
			2 -8000
			-6000
			<u>-4000</u>
			# -2000 FTP KOP
			0 0 SHL
			14000 9000 4000 -1000 -6000 -11000 -16000
			West(-)/East(+) (ft)
			vvest(-)/East(+) (π)

	Inclinat ion (°)	Azimuth (°)	True Vertical Depth (ft)	Y Offset (ft)	X Offset (ft)
SHL	0	0	0	0	0
КОР	0	0	7897	971	226
LP	90	180	8613	255	230
FTP	90	180	8613	256	230
LTP	90	180	8613	-15503	309
BHL	90	180	8613	-15554	309

#### 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 543' 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' – 543'	543'	9-5/8"	40	J55	втс	New	23.71	21.85	6.00
8.75"	0' – 4000'	3965'	7-5/8"	29.7	P110-ICY	Tenaris Wedge 511	New	6.00	8.57	3.66
8.75"	4000' – 7920'	7747'	7-5/8"	29.7	L80-IC	Tenaris Wedge 511	New	3.43	7.27	2.66
6.75"	0' – 7820'	7647'	5-1/2"	20	P110-CY	TPN	New	1.18	3.35	2.65
6.75"	7820' – 25004'	8613'	5-1/2"	20	P110-CY	Tenaris Wedge 441	New	1.18	2.98	2.86
		·								
		·								

#### Section 3 Summary:

XTO will keep casing fluid filled to meet BLM's collapse requirement. The planned kick off point is located at: 8070' MD / 7897' 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

тгу Туре	72 141 234		Yield (ft3/sack) 2.11 1.33		Casing Setting Depth (MD) 543 543	100% 100%	Surface 1 Class C Lead Cement Surface 1 Class C Tail Cement
	234	14.8	1.33	243	543	100%	Surface 1 Class C Tail Cement
	234						
	-	14.8	1.45	5416	7,020	250/	
	-	14.8	1.45	5416	7.020	0.507	
					1,920	35%	Intermediate 1 Class C Tail Cement
	1246	13.2	1.44	7420	25,004	25%	Production 1 Class C Tail Cement
l.		Re	medial Cement	ing:	· ·		
у Туре	No. Sacks	Density (ppg)	Yield (ft3/sack)	Cement	ed Interval	Excess (%)	, · · · · · · · · · · · · · · · · · · ·
denhead							Intermediate Class C Bradenhead
queeze	507	14.8	1.45	0 -	5416'	35%	Squeeze Cement
d	enhead	enhead	Type No. Sacks Density (ppg) enhead	Type No. Sacks Density (ppg) Yield (ft3/sack) enhead	enhead	Type No. Sacks Density (ppg) Yield (ft3/sack) Cemented Interval	Type No. Sacks Density (ppg) Yield (ft3/sack) Cemented Interval Excess (%) enhead

#### 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.

#### 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' – 543'	12.25"	FW/Native	8.3 - 8.7	35-40	NC	Fresh Water or Native Water
543' – 7920'	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.
7920' – 25004'	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	•	Summarv:

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

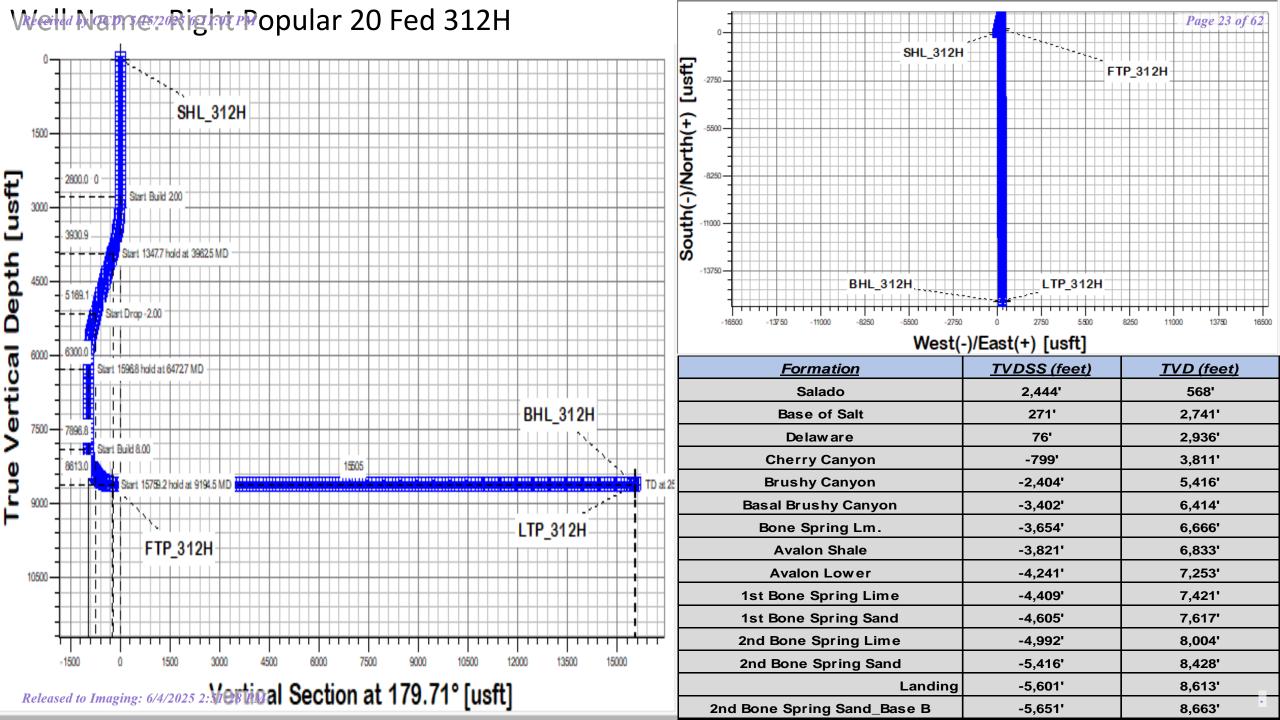
#### Section 9 Summary:

The estimated bottom hole temperature of 153F to 173F. 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.



# Long Lead\_Well Planning

Right Popular 20 Fed Right Popular 20 Fed 312H Right Popular 20 Fed 312H

OH

Plan: Plan 1

# **Standard Planning Report - Geographic**

24 February, 2025

EDM 5000.18 Single User Db Database: Company: Long Lead\_Well Planning Project: Right Popular 20 Fed Site: Right Popular 20 Fed 312H Well: Right Popular 20 Fed 312H

**Local Co-ordinate Reference:** TVD Reference: MD Reference: North Reference: **Survey Calculation Method:** 

Well Right Popular 20 Fed 312H RKB (+32) @ 3012.0usft RKB (+32) @ 3012.0usft Grid

ОН

Wellbore: Plan 1 Design:

Minimum Curvature

Project Right Popular 20 Fed

Map System: US State Plane 1927 (Exact solution) NAD 1927 (NADCON CONUS) Geo Datum:

System Datum:

Mean Sea Level

Map Zone: New Mexico East 3001

Right Popular 20 Fed 312H Site 408,158.60 usft Northing: Site Position: Latitude: 32° 7' 18.190 N 601,549.40 usft 104° 0' 19.137 W Мар Easting: From: Longitude: Position Uncertainty: Slot Radius: 13-3/16 " 3.0 usft

Well Right Popular 20 Fed 312H **Well Position** +N/-S 0.0 usft Northing: 408,158.60 usft Latitude: 32° 7' 18.190 N +E/-W 0.0 usft Easting: 601,549.40 usft Longitude: 104° 0' 19.137 W Wellhead Elevation: **Position Uncertainty** 0.0 usft usft Ground Level: 2,980.0 usft **Grid Convergence:** 0.17°

ОН Wellbore Declination Magnetics **Model Name** Sample Date **Dip Angle** Field Strength (°) (°) (nT) 47.008.46824955 IGRF2020 2/24/2025 6.30 59.62

Design Plan 1 **Audit Notes:** Version: Phase: **PLAN** Tie On Depth: 0.0 +N/-S Vertical Section: Depth From (TVD) +E/-W Direction (usft) (usft) (usft) (°) 0.0 0.0 0.0 179.71

Plan Survey Tool Program 2/24/2025 **Depth From** Depth To (usft) Survey (Wellbore) **Tool Name** (usft) Remarks 1 0.0 25,003.7 Plan 1 (OH) XOM\_R2OWSG MWD+IFR1+ OWSG MWD + IFR1 + Multi-S

Database: EDM 5000.18 Single User Db Company: Long Lead\_Well Planning Project: Right Popular 20 Fed Site: Right Popular 20 Fed 312H Well: Right Popular 20 Fed 312H

Wellbore: OH
Design: Plan 1

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,962.5	23.25	13.12	3,930.9	226.6	52.8	2.00	2.00	0.00	13.12	
5,310.2	23.25	13.12	5,169.1	744.7	173.5	0.00	0.00	0.00	0.00	
6,472.7	0.00	0.00	6,300.0	971.3	226.3	2.00	-2.00	0.00	180.00	
8,069.5	0.00	0.00	7,896.8	971.3	226.3	0.00	0.00	0.00	0.00	
9,194.5	90.00	179.71	8,613.0	255.1	229.9	8.00	8.00	0.00	179.71 F	ΓP_312H
24,953.7	90.00	179.71	8,613.0	-15,503.9	309.1	0.00	0.00	0.00	0.00 LT	P_312H
25,003.7	90.00	179.71	8,613.0	-15,553.9	309.4	0.00	0.00	0.00	0.00 BI	HL_312H

Database: EDM 5000.18 Single User Db Company: Long Lead\_Well Planning Project: Right Popular 20 Fed Site: Right Popular 20 Fed 312H Well: Right Popular 20 Fed 312H

Wellbore: OH
Design: Plan 1

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Planned Survey	,								
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.0	0.00	0.00	0.0	0.0	0.0	408,158.60	601,549.40	32° 7' 18.190 N	104° 0' 19.137 W
SHL_312	2Η								
568.0	0.00	0.00	568.0	0.0	0.0	408,158.60	601,549.40	32° 7' 18.190 N	104° 0' 19.137 W
Salado									
2,741.0	0.00	0.00	2,741.0	0.0	0.0	408,158.60	601,549.40	32° 7′ 18.190 N	104° 0' 19.137 W
Base of	Salt								
2,800.0	0.00	0.00	2,800.0	0.0	0.0	408,158.60	601,549.40	32° 7′ 18.190 N	104° 0' 19.137 W
2,900.0	2.00	13.12	2,900.0	1.7	0.4	408,160.30	601,549.80	32° 7' 18.207 N	104° 0' 19.132 W
2,936.1	2.72	13.12	2,936.0	3.1	0.7	408,161.74	601,550.14	32° 7' 18.221 N	104° 0' 19.128 W
Delawar									
3,000.0	4.00	13.12	2,999.8	6.8	1.6	408,165.40	601,550.99	32° 7' 18.257 N	104° 0' 19.118 W
3,100.0	6.00	13.12	3,099.5	15.3	3.6	408,173.88	601,552.96	32° 7' 18.341 N	104° 0' 19.095 W
3,200.0	8.00	13.12	3,198.7	27.2 42.4	6.3 9.9	408,185.75	601,555.73	32° 7' 18.459 N	104° 0' 19.062 W
3,300.0 3,400.0	10.00 12.00	13.12 13.12	3,297.5 3,395.6	42.4 61.0	9.9 14.2	408,200.99 408,219.57	601,559.28 601,563.61	32° 7' 18.609 N 32° 7' 18.793 N	104° 0' 19.020 W 104° 0' 18.969 W
3,500.0	14.00	13.12	3,493.1	82.9	19.3	408,241.48	601,568.71	32° 7' 19.010 N	104° 0' 18.909 W
3,600.0	16.00	13.12	3,589.6	108.1	25.2	408,266.68	601,574.59	32° 7' 19.259 N	104° 0' 18.840 W
3,700.0	18.00	13.12	3,685.3	136.6	31.8	408,295.15	601,581.22	32° 7' 19.541 N	104° 0' 18.762 W
3,800.0	20.00	13.12	3,779.8	168.3	39.2	408,326.86	601,588.61	32° 7' 19.854 N	104° 0' 18.675 W
3,833.3	20.67	13.12	3,811.0	179.5	41.8	408,338.11	601,591.23	32° 7' 19.966 N	104° 0' 18.644 W
Cherry C	Canyon								
3,900.0	22.00	13.12	3,873.2	203.2	47.3	408,361.76	601,596.74	32° 7' 20.199 N	104° 0' 18.579 W
3,962.5	23.25	13.12	3,930.9	226.6	52.8	408,385.18	601,602.19	32° 7' 20.431 N	104° 0' 18.515 W
4,000.0	23.25	13.12	3,965.3	241.0	56.1	408,399.59	601,605.55	32° 7' 20.574 N	104° 0' 18.475 W
4,100.0	23.25	13.12	4,057.2	279.4	65.1	408,438.04	601,614.51	32° 7' 20.954 N	104° 0' 18.370 W
4,200.0	23.25	13.12	4,149.1	317.9	74.1	408,476.48	601,623.47	32° 7' 21.334 N	104° 0' 18.264 W
4,300.0	23.25	13.12	4,240.9	356.3	83.0	408,514.93	601,632.42	32° 7' 21.714 N	104° 0' 18.159 W
4,400.0	23.25	13.12	4,332.8	394.8	92.0	408,553.37	601,641.38	32° 7' 22.094 N	104° 0' 18.053 W
4,500.0	23.25	13.12	4,424.7	433.2	100.9	408,591.82	601,650.34	32° 7' 22.475 N	104° 0' 17.948 W
4,600.0	23.25	13.12	4,516.6	471.7 510.1	109.9	408,630.26	601,659.30	32° 7' 22.855 N	104° 0' 17.842 W
4,700.0 4,800.0	23.25 23.25	13.12 13.12	4,608.5 4,700.3	510.1 548.6	118.9 127.8	408,668.71 408,707.15	601,668.25 601,677.21	32° 7' 23.235 N 32° 7' 23.615 N	104° 0' 17.737 W 104° 0' 17.631 W
4,900.0	23.25	13.12	4,700.3	587.0	136.8	408,745.60	601,686.17	32° 7' 23.995 N	104° 0' 17.525 W
5,000.0	23.25	13.12	4,792.2	625.4	145.7	408,784.04	601,695.13	32° 7' 24.375 N	104° 0' 17.323 W
5,100.0	23.25	13.12	4,976.0	663.9	154.7	408,822.49	601,704.08	32° 7' 24.756 N	104° 0' 17.314 W
5,200.0	23.25	13.12	5,067.9	702.3	163.6	408,860.93	601,713.04	32° 7' 25.136 N	104° 0' 17.209 W
5,300.0	23.25	13.12	5,159.7	740.8	172.6	408,899.38	601,722.00	32° 7' 25.516 N	104° 0' 17.103 W
5,310.2	23.25	13.12	5,169.1	744.7	173.5	408,903.31	601,722.91	32° 7' 25.555 N	104° 0' 17.093 W
5,400.0	21.45	13.12	5,252.2	778.0	181.3	408,936.56	601,730.66	32° 7' 25.884 N	104° 0' 17.001 W
5,500.0	19.45	13.12	5,345.9	812.0	189.2	408,970.59	601,738.59	32° 7' 26.220 N	104° 0' 16.908 W
5,574.1	17.97	13.12	5,416.0	835.1	194.6	408,993.73	601,743.98	32° 7' 26.449 N	104° 0' 16.844 W
Brushy (									
5,600.0	17.45	13.12	5,440.7	842.8	196.4	409,001.42	601,745.77	32° 7' 26.525 N	104° 0' 16.823 W
5,700.0	15.45	13.12	5,536.6	870.4	202.8	409,029.00	601,752.20	32° 7' 26.798 N	104° 0' 16.748 W
5,800.0	13.45	13.12	5,633.4	894.7	208.5	409,053.31	601,757.86	32° 7' 27.038 N	104° 0' 16.681 W
5,900.0	11.45	13.12	5,731.1	915.7	213.4	409,074.32	601,762.76	32° 7' 27.246 N	104° 0' 16.623 W
6,000.0	9.45	13.12	5,829.4	933.4	217.5	409,091.99	601,766.87	32° 7' 27.421 N	104° 0' 16.575 W
6,100.0	7.45 5.45	13.12	5,928.3 6,027.7	947.7	220.8 223.4	409,106.31	601,770.21	32° 7' 27.562 N	104° 0' 16.535 W 104° 0' 16.505 W
6,200.0 6,300.0	5.45 3.45	13.12 13.12	6,027.7 6,127.4	958.7 966.2	223.4 225.1	409,117.25 409,124.82	601,772.76 601,774.52	32° 7' 27.671 N 32° 7' 27.746 N	104 0 16.505 W
6,400.0	1.45	13.12	6,227.3	970.4	226.1	409,128.99	601,775.49	32° 7' 27.787 N	104° 0' 16.473 W
6,472.7	0.00	0.00	6,300.0	971.3	226.3	409,129.89	601,775.70	32° 7' 27.796 N	104° 0' 16.471 W
6,586.7		0.00	6,414.0	971.3	226.3	409,129.89	601,775.70	32° 7' 27.796 N	104° 0' 16.471 W
	ushy Canyon								
	,								

Database: EDM 5000.18 Single User Db Company: Long Lead\_Well Planning Project: Right Popular 20 Fed Site: Right Popular 20 Fed 312H Well: Right Popular 20 Fed 312H

Wellbore: OH
Design: Plan 1

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
6,838.7	0.00	0.00	6,666.0	971.3	226.3	409,129.89	601,775.70	32° 7' 27.796 N	104° 0' 16.471 W
Bone Sp									
7,005.7	0.00	0.00	6,833.0	971.3	226.3	409,129.89	601,775.70	32° 7' 27.796 N	104° 0' 16.471 W
Avalon S 7,425.7	0.00	0.00	7,253.0	971.3	226.3	409,129.89	601,775.70	32° 7' 27.796 N	104° 0' 16.471 W
Avalon L		0.00	7,200.0	011.0	220.0	400,120.00	001,770.70	02 7 27.700 N	104 0 10.471 W
7,593.7	0.00	0.00	7,421.0	971.3	226.3	409,129.89	601,775.70	32° 7' 27.796 N	104° 0' 16.471 W
1st Bone	Spring Lime								
7,789.7	0.00	0.00	7,617.0	971.3	226.3	409,129.89	601,775.70	32° 7' 27.796 N	104° 0' 16.471 W
	Spring Sand								
8,069.5	0.00	0.00 179.71	7,896.8	971.3 970.6	226.3 226.3	409,129.89	601,775.70	32° 7' 27.796 N	104° 0' 16.471 W
8,100.0 8,177.1	2.44 8.61	179.71	7,927.3 8,004.0	963.2	226.3	409,129.24 409,121.82	601,775.71 601,775.74	32° 7' 27.789 N 32° 7' 27.716 N	104° 0' 16.471 W 104° 0' 16.470 W
	e Spring Lime		3,004.0	300.2	220.0	100,121.02	001,110.14	02 / 2/./10 N	10. 0 10.470 W
8,200.0	10.44	179.71	8,026.5	959.4	226.4	409,118.04	601,775.76	32° 7' 27.678 N	104° 0' 16.470 W
8,300.0	18.44	179.71	8,123.3	934.5	226.5	409,093.13	601,775.89	32° 7' 27.432 N	104° 0' 16.470 W
8,400.0	26.44	179.71	8,215.7	896.4	226.7	409,054.99	601,776.08	32° 7' 27.054 N	104° 0' 16.469 W
8,500.0	34.44	179.71	8,301.8	845.8	226.9	409,004.37	601,776.33	32° 7' 26.554 N	104° 0' 16.468 W
8,600.0 8,668.0	42.44 47.88	179.71 179.71	8,380.1 8,428.0	783.7 735.5	227.2 227.5	408,942.26 408,894.08	601,776.65 601,776.89	32° 7' 25.939 N 32° 7' 25.462 N	104° 0' 16.466 W 104° 0' 16.465 W
	e Spring Sand		0,420.0	733.3	221.5	400,094.00	001,770.09	32 / 23.402 N	104 0 10.403 W
8,700.0	50.44	179.71	8,448.9	711.3	227.6	408,869.86	601,777.01	32° 7' 25.222 N	104° 0' 16.465 W
8,800.0	58.44	179.71	8,507.1	630.0	228.0	408,788.58	601,777.42	32° 7' 24.418 N	104° 0' 16.463 W
8,900.0	66.44	179.71	8,553.3	541.4	228.5	408,700.00	601,777.86	32° 7' 23.541 N	104° 0' 16.461 W
9,000.0	74.44	179.71	8,586.7	447.2	228.9	408,605.85	601,778.34	32° 7' 22.610 N	104° 0' 16.459 W
9,100.0	82.44	179.71	8,606.8	349.4	229.4	408,507.96	601,778.83	32° 7' 21.641 N	104° 0' 16.456 W
9,194.5	90.00	179.71	8,613.0	255.1	229.9	408,413.70	601,779.30	32° 7' 20.708 N	104° 0' 16.454 W
9,200.0	- <b>FTP_312H</b> 90.00	179.71	8,613.0	249.6	229.9	408,408.23	601,779.33	32° 7' 20.654 N	104° 0' 16.454 W
9,300.0	90.00	179.71	8,613.0	149.6	230.4	408,308.24	601,779.83	32° 7' 19.664 N	104° 0' 16.452 W
9,400.0	90.00	179.71	8,613.0	49.6	230.9	408,208.24	601,780.34	32° 7' 18.675 N	104° 0' 16.450 W
9,500.0	90.00	179.71	8,613.0	-50.4	231.4	408,108.24	601,780.84	32° 7' 17.685 N	104° 0' 16.447 W
9,600.0	90.00	179.71	8,613.0	-150.4	231.9	408,008.24	601,781.34	32° 7' 16.695 N	104° 0' 16.445 W
9,700.0	90.00	179.71	8,613.0	-250.4	232.4 232.9	407,908.24	601,781.84	32° 7' 15.706 N	104° 0' 16.443 W
9,800.0 9,900.0	90.00 90.00	179.71 179.71	8,613.0 8,613.0	-350.4 -450.4	232.9	407,808.24 407,708.24	601,782.35 601,782.85	32° 7' 14.716 N 32° 7' 13.726 N	104° 0' 16.440 W 104° 0' 16.438 W
10,000.0	90.00	179.71	8,613.0	-550.4	233.9	407,608.24	601,783.35	32° 7' 12.737 N	104° 0' 16.436 W
10,100.0	90.00	179.71	8,613.0	-650.4	234.5	407,508.25	601,783.85	32° 7' 11.747 N	104° 0' 16.433 W
10,200.0	90.00	179.71	8,613.0	-750.4	235.0	407,408.25	601,784.36	32° 7' 10.757 N	104° 0' 16.431 W
10,300.0	90.00	179.71	8,613.0	-850.4	235.5	407,308.25	601,784.86	32° 7' 9.768 N	104° 0' 16.429 W
10,400.0	90.00	179.71	8,613.0	-950.3	236.0	407,208.25	601,785.36	32° 7' 8.778 N	104° 0' 16.427 W
10,500.0 10,600.0	90.00 90.00	179.71 179.71	8,613.0 8,613.0	-1,050.3 -1,150.3	236.5 237.0	407,108.25 407,008.25	601,785.86 601,786.37	32° 7' 7.788 N 32° 7' 6.799 N	104° 0' 16.424 W 104° 0' 16.422 W
10,700.0	90.00	179.71	8,613.0	-1,250.3	237.5	406,908.25	601,786.87	32° 7' 5.809 N	104° 0' 16.420 W
10,800.0	90.00	179.71	8,613.0	-1,350.3	238.0	406,808.25	601,787.37	32° 7' 4.820 N	104° 0' 16.417 W
10,900.0	90.00	179.71	8,613.0	-1,450.3	238.5	406,708.26	601,787.87	32° 7' 3.830 N	104° 0' 16.415 W
11,000.0	90.00	179.71	8,613.0	-1,550.3	239.0	406,608.26	601,788.38	32° 7' 2.840 N	104° 0' 16.413 W
11,100.0	90.00	179.71	8,613.0	-1,650.3	239.5	406,508.26	601,788.88	32° 7' 1.851 N	104° 0' 16.410 W
11,200.0 11,300.0	90.00 90.00	179.71 179.71	8,613.0 8,613.0	-1,750.3 -1,850.3	240.0 240.5	406,408.26 406,308.26	601,789.38 601,789.88	32° 7' 0.861 N 32° 6' 59.871 N	104° 0' 16.408 W 104° 0' 16.406 W
11,400.0	90.00	179.71	8,613.0	-1,950.3	241.0	406,208.26	601,790.39	32° 6' 58.882 N	104° 0' 16.404 W
11,500.0	90.00	179.71	8,613.0	-2,050.3	241.5	406,108.26	601,790.89	32° 6' 57.892 N	104° 0' 16.401 W
11,600.0	90.00	179.71	8,613.0	-2,150.3	242.0	406,008.26	601,791.39	32° 6′ 56.902 N	104° 0' 16.399 W
11,700.0	90.00	179.71	8,613.0	-2,250.3	242.5	405,908.27	601,791.90	32° 6' 55.913 N	104° 0' 16.397 W

Database: EDM 5000.18 Single User Db Company: Long Lead\_Well Planning Project: Right Popular 20 Fed Site: Right Popular 20 Fed 312H Well: Right Popular 20 Fed 312H

Wellbore: OH
Design: Plan 1

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Planned Survey									
	ination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
11,800.0	90.00	179.71	8,613.0	-2,350.3	243.0	405,808.27	601,792.40	32° 6′ 54.923 N	104° 0' 16.394 W
11,900.0	90.00	179.71	8,613.0	-2,450.3	243.5	405,708.27	601,792.90	32° 6′ 53.934 N	104° 0' 16.392 W
12,000.0	90.00	179.71	8,613.0	-2,550.3	244.0	405,608.27	601,793.40	32° 6′ 52.944 N	104° 0' 16.390 W
12,100.0	90.00	179.71	8,613.0	-2,650.3	244.5	405,508.27	601,793.91	32° 6′ 51.954 N	104° 0' 16.388 W
12,200.0	90.00	179.71	8,613.0	-2,750.3	245.0	405,408.27	601,794.41	32° 6′ 50.965 N	104° 0' 16.385 W
12,300.0	90.00	179.71	8,613.0	-2,850.3	245.5	405,308.27	601,794.91	32° 6′ 49.975 N	104° 0' 16.383 W
12,400.0	90.00	179.71	8,613.0	-2,950.3	246.0	405,208.28	601,795.41	32° 6′ 48.985 N	104° 0' 16.381 W
12,500.0	90.00	179.71	8,613.0	-3,050.3	246.5	405,108.28	601,795.92	32° 6′ 47.996 N	104° 0' 16.378 W
12,600.0	90.00	179.71	8,613.0	-3,150.3	247.0	405,008.28	601,796.42	32° 6' 47.006 N	104° 0' 16.376 W
12,700.0	90.00	179.71	8,613.0	-3,250.3	247.5	404,908.28	601,796.92	32° 6' 46.016 N	104° 0' 16.374 W
12,800.0	90.00	179.71	8,613.0	-3,350.3	248.0	404,808.28	601,797.42	32° 6' 45.027 N	104° 0' 16.371 W
12,900.0	90.00	179.71	8,613.0	-3,450.3	248.5	404,708.28	601,797.93	32° 6' 44.037 N	104° 0' 16.369 W
13,000.0 13,100.0	90.00 90.00	179.71 179.71	8,613.0 8,613.0	-3,550.3 -3,650.3	249.0 249.5	404,608.28 404,508.28	601,798.43 601,798.93	32° 6' 43.047 N 32° 6' 42.058 N	104° 0' 16.367 W 104° 0' 16.365 W
13,100.0	90.00	179.71	8,613.0	-3,750.3	249.5 250.0	404,408.29	601,798.93	32° 6' 41.068 N	104° 0' 16.362 W
13,300.0	90.00	179.71	8,613.0	-3,750.3 -3,850.3	250.5	404,308.29	601,799.94	32° 6' 40.079 N	104° 0' 16.360 W
13,400.0	90.00	179.71	8,613.0	-3,950.3	251.0	404,208.29	601,800.44	32° 6' 39.089 N	104° 0' 16.358 W
13,500.0	90.00	179.71	8,613.0	-4,050.3	251.5	404,108.29	601,800.94	32° 6' 38.099 N	104° 0' 16.355 W
13,600.0	90.00	179.71	8,613.0	-4,150.3	252.0	404,008.29	601,801.44	32° 6' 37.110 N	104° 0' 16.353 W
13,700.0	90.00	179.71	8,613.0	-4,250.3	252.5	403,908.29	601,801.95	32° 6' 36.120 N	104° 0' 16.351 W
13,800.0	90.00	179.71	8,613.0	-4,350.3	253.0	403,808.29	601,802.45	32° 6' 35.130 N	104° 0' 16.348 W
13,900.0	90.00	179.71	8,613.0	-4,450.3	253.5	403,708.29	601,802.95	32° 6' 34.141 N	104° 0' 16.346 W
14,000.0	90.00	179.71	8,613.0	-4,550.3	254.1	403,608.30	601.803.45	32° 6' 33.151 N	104° 0' 16.344 W
14,100.0	90.00	179.71	8,613.0	-4,650.3	254.6	403,508.30	601,803.96	32° 6' 32.161 N	104° 0' 16.342 W
14,200.0	90.00	179.71	8,613.0	-4,750.3	255.1	403,408.30	601,804.46	32° 6' 31.172 N	104° 0' 16.339 W
14,300.0	90.00	179.71	8,613.0	-4,850.3	255.6	403,308.30	601,804.96	32° 6' 30.182 N	104° 0' 16.337 W
14,400.0	90.00	179.71	8,613.0	-4,950.3	256.1	403,208.30	601,805.46	32° 6' 29.192 N	104° 0' 16.335 W
14,500.0	90.00	179.71	8,613.0	-5,050.3	256.6	403,108.30	601,805.97	32° 6' 28.203 N	104° 0' 16.332 W
14,600.0	90.00	179.71	8,613.0	-5,150.3	257.1	403,008.30	601,806.47	32° 6' 27.213 N	104° 0' 16.330 W
14,700.0	90.00	179.71	8,613.0	-5,250.3	257.6	402,908.30	601,806.97	32° 6′ 26.224 N	104° 0' 16.328 W
14,800.0	90.00	179.71	8,613.0	-5,350.3	258.1	402,808.31	601,807.47	32° 6' 25.234 N	104° 0' 16.326 W
14,900.0	90.00	179.71	8,613.0	-5,450.3	258.6	402,708.31	601,807.98	32° 6′ 24.244 N	104° 0' 16.323 W
15,000.0	90.00	179.71	8,613.0	-5,550.3	259.1	402,608.31	601,808.48	32° 6' 23.255 N	104° 0' 16.321 W
15,100.0	90.00	179.71	8,613.0	-5,650.3	259.6	402,508.31	601,808.98	32° 6' 22.265 N	104° 0' 16.319 W
15,200.0	90.00	179.71	8,613.0	-5,750.3	260.1	402,408.31	601,809.48	32° 6' 21.275 N	104° 0' 16.316 W
15,300.0	90.00	179.71	8,613.0	-5,850.3	260.6	402,308.31	601,809.99	32° 6′ 20.286 N	104° 0' 16.314 W
15,400.0	90.00	179.71	8,613.0	-5,950.3	261.1	402,208.31	601,810.49	32° 6′ 19.296 N	104° 0' 16.312 W
15,500.0	90.00	179.71	8,613.0	-6,050.3	261.6	402,108.31	601,810.99	32° 6' 18.306 N	104° 0' 16.309 W
15,600.0	90.00	179.71	8,613.0	-6,150.3	262.1	402,008.32	601,811.49	32° 6' 17.317 N	104° 0' 16.307 W
15,700.0	90.00	179.71	8,613.0	-6,250.3	262.6	401,908.32	601,812.00	32° 6' 16.327 N	104° 0' 16.305 W
15,800.0	90.00	179.71 170.71	8,613.0 8,613.0	-6,350.3	263.1 263.6	401,808.32	601,812.50	32° 6' 15.337 N 32° 6' 14.348 N	104° 0' 16.303 W
15,900.0 16,000.0	90.00 90.00	179.71 179.71	8,613.0 8,613.0	-6,450.3 -6,550.3	263.6 264.1	401,708.32 401,608.32	601,813.00 601,813.51	32° 6′ 13.358 N	104° 0' 16.300 W 104° 0' 16.298 W
16,100.0	90.00	179.71	8,613.0	-6,650.3 -6,650.3	264.1 264.6	401,508.32	601,813.51	32° 6' 12.369 N	104° 0' 16.296 W
16,200.0	90.00	179.71	8,613.0	-6,750.3	265.1	401,408.32	601,814.51	32° 6′ 11.379 N	104° 0' 16.293 W
16,300.0	90.00	179.71	8,613.0	-6,850.3	265.6	401,308.32	601,815.01	32° 6' 10.389 N	104° 0' 16.291 W
16,400.0	90.00	179.71	8,613.0	-6,950.3	266.1	401,208.33	601,815.52	32° 6' 9.400 N	104° 0' 16.289 W
16,500.0	90.00	179.71	8,613.0	-7,050.3	266.6	401,108.33	601,816.02	32° 6' 8.410 N	104° 0' 16.286 W
16,600.0	90.00	179.71	8,613.0	-7,150.3	267.1	401,008.33	601,816.52	32° 6' 7.420 N	104° 0' 16.284 W
16,700.0	90.00	179.71	8,613.0	-7,250.3	267.6	400,908.33	601,817.02	32° 6' 6.431 N	104° 0' 16.282 W
16,800.0	90.00	179.71	8,613.0	-7,350.3	268.1	400,808.33	601,817.53	32° 6' 5.441 N	104° 0' 16.280 W
16,900.0	90.00	179.71	8,613.0	-7,450.3	268.6	400,708.33	601,818.03	32° 6' 4.451 N	104° 0' 16.277 W
17,000.0	90.00	179.71	8,613.0	-7,550.3	269.1	400,608.33	601,818.53	32° 6' 3.462 N	104° 0' 16.275 W
17,100.0	90.00	179.71	8,613.0	-7,650.3	269.6	400,508.33	601,819.03	32° 6' 2.472 N	104° 0' 16.273 W
17,200.0	90.00	179.71	8,613.0	-7,750.3	270.1	400,408.34	601,819.54	32° 6′ 1.482 N	104° 0' 16.270 W

Database: EDM 5000.18 Single User Db Company: Long Lead\_Well Planning Project: Right Popular 20 Fed Site: Right Popular 20 Fed 312H Well: Right Popular 20 Fed 312H

Wellbore: OH
Design: Plan 1

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Well Right Popular 20 Fed 312H

RKB (+32) @ 3012.0usft RKB (+32) @ 3012.0usft

Grid

Minimum Curvature

resign:	Fiaii	-							
Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
17,300.0	90.00	179.71	8,613.0	-7,850.3	270.6	400,308.34	601,820.04	32° 6' 0.493 N	104° 0' 16.268 W
17,400.0	90.00	179.71	8,613.0	-7,950.3	271.1	400,208.34	601,820.54	32° 5′ 59.503 N	104° 0' 16.266 W
17,500.0	90.00	179.71	8,613.0	-8,050.3	271.6	400,108.34	601,821.04	32° 5′ 58.513 N	104° 0' 16.263 W
17,600.0	90.00	179.71	8,613.0	-8,150.3	272.1	400,008.34	601,821.55	32° 5′ 57.524 N	104° 0' 16.261 W
17,700.0	90.00	179.71	8,613.0	-8,250.3	272.6	399,908.34	601,822.05	32° 5′ 56.534 N	104° 0' 16.259 W
17,800.0	90.00	179.71	8,613.0	-8,350.3	273.1	399,808.34	601,822.55	32° 5' 55.545 N	104° 0' 16.257 W
17,900.0	90.00	179.71	8,613.0	-8,450.3	273.7	399,708.34	601,823.05	32° 5' 54.555 N	104° 0' 16.254 W
18,000.0	90.00	179.71	8,613.0	-8,550.3	274.2	399,608.35	601,823.56	32° 5' 53.565 N	104° 0' 16.252 W
18,100.0	90.00	179.71	8,613.0	-8,650.3	274.7	399,508.35	601,824.06	32° 5' 52.576 N	104° 0' 16.250 W
18,200.0	90.00	179.71	8,613.0	-8,750.3	275.2	399,408.35	601,824.56	32° 5' 51.586 N	104° 0' 16.247 W
18,300.0	90.00	179.71	8,613.0	-8,850.2	275.7	399,308.35	601,825.06	32° 5′ 50.596 N	104° 0' 16.245 W
18,400.0	90.00	179.71	8,613.0	-8,950.2	276.2	399,208.35	601,825.57	32° 5' 49.607 N	104° 0' 16.243 W
18,500.0	90.00	179.71	8,613.0	-9,050.2	276.7	399,108.35	601,826.07	32° 5' 48.617 N	104° 0' 16.241 W
18,600.0	90.00	179.71	8,613.0	-9,150.2	277.2	399,008.35	601,826.57	32° 5′ 47.627 N	104° 0' 16.238 W
18,700.0	90.00	179.71	8,613.0	-9,250.2	277.7	398,908.35	601,827.07	32° 5' 46.638 N	104° 0' 16.236 W
18,800.0	90.00	179.71	8,613.0	-9,350.2	278.2	398,808.36	601,827.58	32° 5' 45.648 N	104° 0' 16.234 W
18,900.0	90.00	179.71	8,613.0	-9,450.2	278.7	398,708.36	601,828.08	32° 5' 44.658 N	104° 0' 16.231 W
19,000.0	90.00	179.71	8,613.0	-9,550.2	279.2	398,608.36	601,828.58	32° 5' 43.669 N	104° 0' 16.229 W
19,100.0	90.00	179.71	8,613.0	-9,650.2	279.7	398,508.36	601,829.08	32° 5′ 42.679 N	104° 0' 16.227 W
19,200.0	90.00	179.71	8,613.0	-9,750.2	280.2	398,408.36	601,829.59	32° 5' 41.690 N	104° 0' 16.224 W
19,300.0	90.00	179.71	8,613.0	-9,850.2	280.7	398,308.36	601,830.09	32° 5′ 40.700 N	104° 0' 16.222 W
19,400.0	90.00	179.71	8,613.0	-9,950.2	281.2	398,208.36	601,830.59	32° 5′ 39.710 N	104° 0' 16.220 W
19,500.0	90.00	179.71	8,613.0	-10,050.2	281.7	398,108.36	601,831.09	32° 5′ 38.721 N	104° 0' 16.218 W
19,600.0	90.00	179.71	8,613.0	-10,150.2	282.2	398,008.37	601,831.60	32° 5′ 37.731 N	104° 0' 16.215 W
19,700.0	90.00	179.71	8,613.0	-10,250.2	282.7	397,908.37	601,832.10	32° 5′ 36.741 N	104° 0' 16.213 W
19,800.0	90.00	179.71	8,613.0	-10,350.2	283.2	397,808.37	601,832.60	32° 5′ 35.752 N	104° 0' 16.211 W
19,900.0	90.00	179.71	8,613.0	-10,450.2	283.7	397,708.37	601,833.11	32° 5′ 34.762 N	104° 0' 16.208 W
20,000.0	90.00	179.71	8,613.0	-10,550.2	284.2	397,608.37	601,833.61	32° 5′ 33.772 N	104° 0' 16.206 W
20,100.0	90.00	179.71	8,613.0	-10,650.2	284.7	397,508.37	601,834.11	32° 5′ 32.783 N	104° 0' 16.204 W
20,200.0	90.00	179.71	8,613.0	-10,750.2	285.2	397,408.37	601,834.61	32° 5′ 31.793 N	104° 0' 16.201 W
20,300.0	90.00	179.71	8,613.0	-10,850.2	285.7	397,308.37	601,835.12	32° 5′ 30.803 N	104° 0' 16.199 W
20,400.0	90.00	179.71	8,613.0	-10,950.2	286.2	397,208.38	601,835.62	32° 5′ 29.814 N	104° 0' 16.197 W
20,500.0	90.00	179.71	8,613.0	-11,050.2	286.7	397,108.38	601,836.12	32° 5′ 28.824 N	104° 0' 16.195 W
20,600.0	90.00	179.71	8,613.0	-11,150.2	287.2	397,008.38	601,836.62	32° 5′ 27.834 N	104° 0' 16.192 W
20,700.0	90.00	179.71	8,613.0	-11,250.2	287.7	396,908.38	601,837.13	32° 5′ 26.845 N	104° 0' 16.190 W
20,800.0	90.00	179.71	8,613.0	-11,350.2	288.2	396,808.38	601,837.63	32° 5′ 25.855 N	104° 0' 16.188 W
20,900.0	90.00	179.71	8,613.0	-11,450.2	288.7	396,708.38	601,838.13	32° 5′ 24.866 N	104° 0' 16.185 W
21,000.0	90.00	179.71	8,613.0	-11,550.2	289.2	396,608.38	601,838.63	32° 5′ 23.876 N	104° 0' 16.183 W
21,100.0	90.00	179.71	8,613.0	-11,650.2	289.7	396,508.38	601,839.14	32° 5′ 22.886 N	104° 0' 16.181 W
21,200.0	90.00	179.71	8,613.0	-11,750.2	290.2	396,408.39	601,839.64	32° 5′ 21.897 N	104° 0' 16.178 W
21,300.0	90.00	179.71	8,613.0	-11,850.2	290.7	396,308.39	601,840.14	32° 5′ 20.907 N	104° 0' 16.176 W
21,400.0	90.00	179.71	8,613.0	-11,950.2	291.2	396,208.39	601,840.64	32° 5′ 19.917 N	104° 0' 16.174 W
21,500.0	90.00	179.71	8,613.0	-12,050.2	291.7	396,108.39	601,841.15	32° 5′ 18.928 N	104° 0' 16.172 W
21,600.0	90.00	179.71	8,613.0	-12,150.2	292.2	396,008.39	601,841.65	32° 5′ 17.938 N	104° 0' 16.169 W
21,700.0	90.00	179.71	8,613.0	-12,250.2	292.7	395,908.39	601,842.15	32° 5′ 16.948 N	104° 0' 16.167 W
21,800.0	90.00	179.71	8,613.0	-12,350.2	293.3	395,808.39	601,842.65	32° 5′ 15.959 N	104° 0' 16.165 W
21,900.0	90.00	179.71	8,613.0	-12,450.2	293.8	395,708.39	601,843.16	32° 5′ 14.969 N	104° 0' 16.162 W
22,000.0	90.00	179.71	8,613.0	-12,550.2	294.3	395,608.40	601,843.66	32° 5′ 13.979 N	104° 0' 16.160 W
22,100.0	90.00	179.71	8,613.0	-12,650.2	294.8	395,508.40	601,844.16	32° 5′ 12.990 N	104° 0' 16.158 W
22,200.0	90.00	179.71	8,613.0	-12,750.2	295.3	395,408.40	601,844.66	32° 5′ 12.000 N	104° 0' 16.156 W
22,300.0	90.00	179.71	8,613.0	-12,850.2	295.8	395,308.40	601,845.17	32° 5′ 11.011 N	104° 0' 16.153 W
22,400.0	90.00	179.71	8,613.0	-12,950.2	296.3	395,208.40	601,845.67	32° 5′ 10.021 N	104° 0' 16.151 W
22,500.0	90.00	179.71	8,613.0	-13,050.2	296.8	395,108.40	601,846.17	32° 5′ 9.031 N	104° 0' 16.149 W
22,600.0	90.00	179.71	8,613.0	-13,150.2	297.3	395,008.40	601,846.67	32° 5′ 8.042 N	104° 0' 16.146 W
22,700.0	90.00	179.71	8,613.0	-13,250.2	297.8	394,908.40	601,847.18	32° 5′ 7.052 N	104° 0' 16.144 W

Database: EDM 5000.18 Single User Db Company: Long Lead\_Well Planning Project: Right Popular 20 Fed Site: Right Popular 20 Fed 312H Well: Right Popular 20 Fed 312H

Wellbore: Design: Right Popular 20 Fed 312H OH Plan 1 Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:

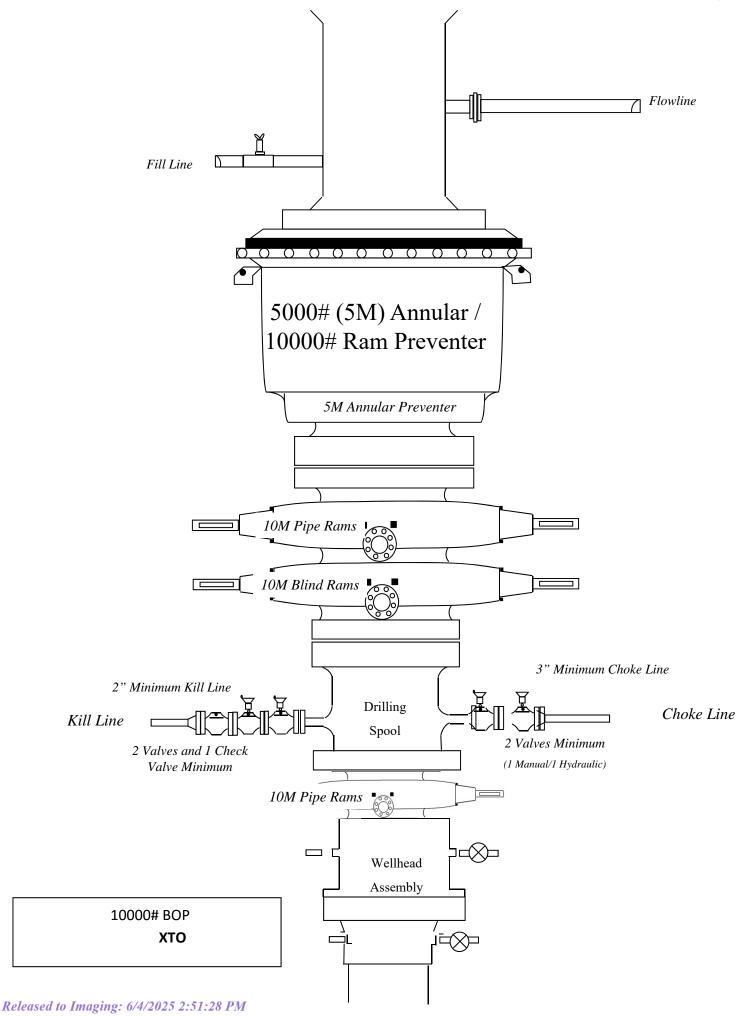
Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
22,800.0	90.00	179.71	8,613.0	-13,350.2	298.3	394,808.41	601,847.68	32° 5′ 6.062 N	104° 0' 16.142 W
22,900.0	90.00	179.71	8,613.0	-13,450.2	298.8	394,708.41	601,848.18	32° 5' 5.073 N	104° 0' 16.139 W
23,000.0	90.00	179.71	8,613.0	-13,550.2	299.3	394,608.41	601,848.68	32° 5' 4.083 N	104° 0' 16.137 W
23,100.0	90.00	179.71	8,613.0	-13,650.2	299.8	394,508.41	601,849.19	32° 5′ 3.093 N	104° 0' 16.135 W
23,200.0	90.00	179.71	8,613.0	-13,750.2	300.3	394,408.41	601,849.69	32° 5' 2.104 N	104° 0' 16.133 W
23,300.0	90.00	179.71	8,613.0	-13,850.2	300.8	394,308.41	601,850.19	32° 5′ 1.114 N	104° 0' 16.130 W
23,400.0	90.00	179.71	8,613.0	-13,950.2	301.3	394,208.41	601,850.69	32° 5' 0.124 N	104° 0' 16.128 W
23,500.0	90.00	179.71	8,613.0	-14,050.2	301.8	394,108.41	601,851.20	32° 4' 59.135 N	104° 0' 16.126 W
23,600.0	90.00	179.71	8,613.0	-14,150.2	302.3	394,008.42	601,851.70	32° 4' 58.145 N	104° 0' 16.123 W
23,700.0	90.00	179.71	8,613.0	-14,250.2	302.8	393,908.42	601,852.20	32° 4' 57.155 N	104° 0' 16.121 W
23,800.0	90.00	179.71	8,613.0	-14,350.2	303.3	393,808.42	601,852.71	32° 4' 56.166 N	104° 0' 16.119 W
23,900.0	90.00	179.71	8,613.0	-14,450.2	303.8	393,708.42	601,853.21	32° 4' 55.176 N	104° 0' 16.116 W
24,000.0	90.00	179.71	8,613.0	-14,550.2	304.3	393,608.42	601,853.71	32° 4' 54.187 N	104° 0' 16.114 W
24,100.0	90.00	179.71	8,613.0	-14,650.2	304.8	393,508.42	601,854.21	32° 4' 53.197 N	104° 0' 16.112 W
24,200.0	90.00	179.71	8,613.0	-14,750.2	305.3	393,408.42	601,854.72	32° 4' 52.207 N	104° 0' 16.110 W
24,300.0	90.00	179.71	8,613.0	-14,850.2	305.8	393,308.43	601,855.22	32° 4' 51.218 N	104° 0' 16.107 W
24,400.0	90.00	179.71	8,613.0	-14,950.2	306.3	393,208.43	601,855.72	32° 4' 50.228 N	104° 0' 16.105 W
24,500.0	90.00	179.71	8,613.0	-15,050.2	306.8	393,108.43	601,856.22	32° 4' 49.238 N	104° 0' 16.103 W
24,600.0	90.00	179.71	8,613.0	-15,150.2	307.3	393,008.43	601,856.73	32° 4' 48.249 N	104° 0' 16.100 W
24,700.0	90.00	179.71	8,613.0	-15,250.2	307.8	392,908.43	601,857.23	32° 4' 47.259 N	104° 0' 16.098 W
24,800.0	90.00	179.71	8,613.0	-15,350.2	308.3	392,808.43	601,857.73	32° 4' 46.269 N	104° 0' 16.096 W
24,900.0	90.00	179.71	8,613.0	-15,450.2	308.8	392,708.43	601,858.23	32° 4' 45.280 N	104° 0' 16.093 W
24,953.7	90.00	179.71	8,613.0	-15,503.9	309.1	392,654.70	601,858.50	32° 4' 44.748 N	104° 0' 16.092 W
LTP_312H	Н								
25,000.0	90.00	179.71	8,613.0	-15,550.2	309.3	392,608.43	601,858.74	32° 4' 44.290 N	104° 0' 16.091 W
25,003.7	90.00	179.71	8,613.0	-15,553.9	309.4	392,604.70	601,858.75	32° 4' 44.253 N	104° 0' 16.091 W
BHL_312	Н								

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SHL_312H - plan hits target cen - Point	0.00 ter	0.00	0.0	0.0	0.0	408,158.60	601,549.40	32° 7′ 18.190 N	104° 0' 19.137 W
FTP_312H - plan hits target cen - Point	0.00 ter	0.00	8,613.0	255.1	229.9	408,413.70	601,779.30	32° 7' 20.708 N	104° 0' 16.454 W
BHL_312H - plan misses target - Point	0.00 center by 0.3u	0.00 sft at 25003.	8,613.0 7usft MD (8	-15,553.9 613.0 TVD, -1	309.1 5553.9 N, 309	392,604.70 .4 E)	601,858.50	32° 4' 44.253 N	104° 0' 16.094 W
LTP_312H - plan hits target cen - Point	0.00 ter	0.00	8,613.0	-15,503.9	309.1	392,654.70	601,858.50	32° 4' 44.748 N	104° 0' 16.092 W

Database: EDM 5000.18 Single User Db
Company: Long Lead\_Well Planning
Project: Right Popular 20 Fed
Site: Right Popular 20 Fed 312H
Well: Right Popular 20 Fed 312H

Wellbore: Design: Right Popular 20 Fed 312H OH Plan 1 Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:

Formations						
	Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
	568.0	568.0	Salado			
	2,741.0	2,741.0	Base of Salt			
	2,936.1	2,936.0	Delaware			
	3,833.3	3,811.0	Cherry Canyon			
	5,574.1	5,416.0	Brushy Canyon			
	6,586.7	6,414.0	Basal Brushy Canyon			
	6,838.7	6,666.0	Bone Spring Lm.			
	7,005.7	6,833.0	Avalon Shale			
	7,425.7	7,253.0	Avalon Lower			
	7,593.7	7,421.0	1st Bone Spring Lime			
	7,789.7	7,617.0	1st Bone Spring Sand			
	8,177.1	8,004.0	2nd Bone Spring Lime			
	8,668.0	8,428.0	2nd Bone Spring Sand			
	9,194.5	8,613.0	Landing			



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.

Table C.4—Initial Pressure Testing, Surface BOP Stacks  Pressure Test—High Pressure™  Pressure Test—High Pressure™									
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 M whichever is lower	ASP for the well program,							
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

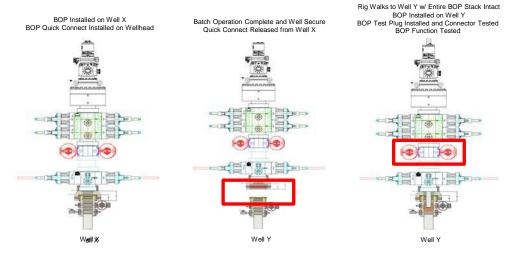
each BOP nipple up, XTO Energy performs a choke drill with the rig crew prior to drilling out every casing shoe. This is additional training for the rig crew that exceeds the requirements of the CFR Title 43 Part 3170.

#### **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



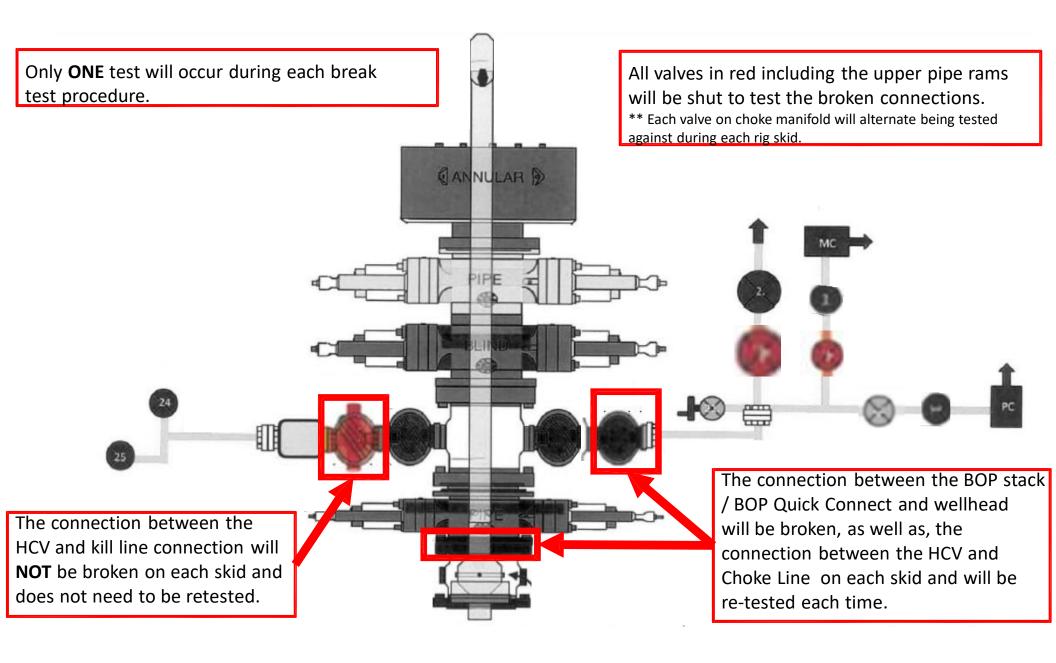
#### **Summary**

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.



#### **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

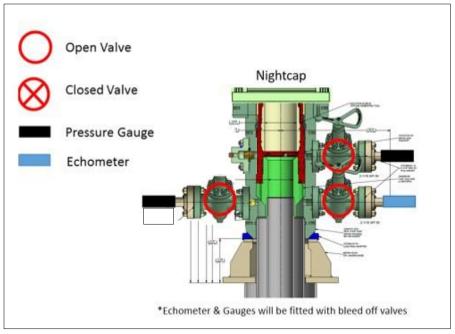
The operational sequence will be as follows. If a well control event occurs, the BLM will be contacted for approval prior to conducting offline cementing operations.

- 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

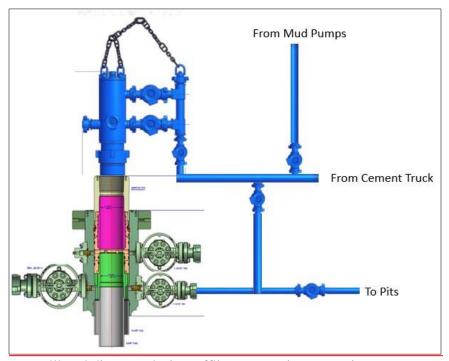
#### **XTO Permian Operating, LLC Offline Cementing Variance Request**



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.

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.



**GATES ENGINEERING & SERVICES NORTH AMERICA** 

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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	AF	D.	
C	,31	OI	AIL	n.	

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 #:

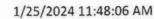
74621 H3-012524-1

SIGNATURE: 7. OJSNOS

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

Hose ID:

3" 16C CK

FG1213

Part number:

TEST INFORMATION

Test procedure:

GTS-04-053

Fitting 1:

Test pressure:

15000.00 psi sec Part number:

3.0 x 4-1/16 10K

Test pressure hold: Work pressure:

3600.00 psi

Description:

Work pressure hold:

10000.00

Fitting 2:

3.0 x 4-1/16 10K

Length difference: Length difference: 900.00 0.00 0.00

sec % inch

Part number: Description:

Visual check:

PASS

Length:

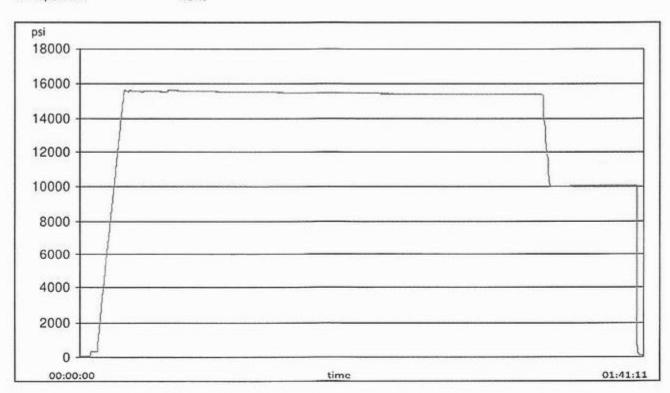
feet 45

n . . . . /n

Pressure test result: Length measurement result:

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			

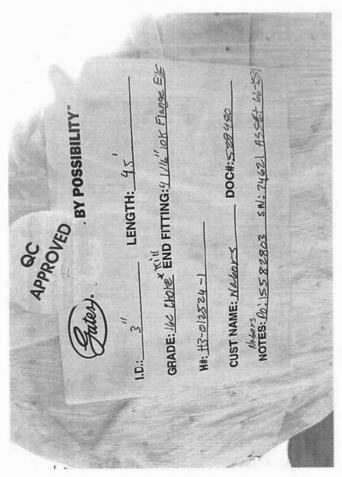


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# TenarisHydril Wedge 441®



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	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	522 x1000 lb
Internal Pressure Capacity	12,640 psi
Compression Efficiency	81.50 %
Compression Strength	522 x1000 lb
Max. Allowable Bending	72.59 °/100 ft
External Pressure Capacity	11,100 psi

Make-Up Torques	
Minimum	15,000 ft-lb
Optimum	16,000 ft-lb
Maximum	19,200 ft-lb
Operation Limit Torques	
Operating Torque	32,000 ft-lb
Yield Torque	38,000 ft-lb
Buck-On	
Minimum	19,200 ft-lb

#### Notes

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

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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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## 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	
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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**Tenaris** 

 $\mathsf{TPN}^{^{\mathsf{TM}}}$ 



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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PI/CII



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

Well Number: 312H

Sundry Print Reports
05/15/2025

Well Name: RIGHT POPULAR 20 FED Well Location: T25S / R29E / SEC 20 / County or Parish/State: EDDY /

NWNE / 32.121844 / -104.005804

Type of Well: OIL WELL Allottee or Tribe Name:

Lease Number: NMNM96848 Unit or CA Name: Unit or CA Number:

INCORPORATED

#### **Notice of Intent**

**Sundry ID: 2852922** 

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 05/14/2025 Time Sundry Submitted: 04:05

Date proposed operation will begin: 05/15/2025

**Procedure Description:** XTO ENERGY INCORPORATED respectfully requests approval to make the following changes to the approved APD. Changes to include well name. The proposed well name is changing from RIGHT POPULAR 20 FED 312H to Corral 20-32 Fed State Com 311H The API number for this well is 30-015-56351.

#### **NOI Attachments**

#### **Procedure Description**

CORRAL\_20\_32\_FED\_STATE\_COM\_311H\_96217\_C102\_FINAL\_04\_24\_2025\_signed\_20250514160439.pdf

CORRAL\_20\_32\_FED\_STATE\_COM\_311H\_52775\_C102\_FINAL\_04\_25\_2025\_signed\_20250514160439.pdf

Page 1 of 2

eceived by OCD: 5/15/2025 6:11:03 PM Well Name: RIGHT POPULAR 20 FED

Well Location: T25S / R29E / SEC 20 /

NWNE / 32.121844 / -104.005804

County or Parish/State: Page 54, of

Well Number: 312H

Type of Well: OIL WELL

**Allottee or Tribe Name:** 

Lease Number: NMNM96848

**Unit or CA Name:** 

**Unit or CA Number:** 

**US Well Number: 3001556351** 

**Operator: XTO ENERGY** 

**INCORPORATED** 

#### **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

Signed on: MAY 14, 2025 04:05 PM **Operator Electronic Signature: JENA AUSTIN** 

Name: XTO ENERGY INCORPORATED

Title: Regulatory Analyst

Street Address: 22777 SPRINGWOODS VILLAGE PARKWAY

City: SPRING State: TX

Phone: (346) 335-5295

Email address: JENA.N.AUSTIN@EXXONMOBIL.COM

#### **Field**

**Representative Name:** 

**Street Address:** 

City:

State:

Zip:

Phone:

**Email address:** 

#### **BLM Point of Contact**

**BLM POC Name: MARIAH HUGHES BLM POC Title:** Land Law Examiner

**BLM POC Phone:** 5752345972 BLM POC Email Address: mhughes@blm.gov

**Disposition:** Approved **Disposition Date:** 05/15/2025

Signature: Cody Layton Assistant Field Manager

Page 2 of 2

## UNITED STATES

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

une 2019) DEPARTMENT OF THE INTERIOR					Expires: October 31, 2021			
	BUR	EAU OF LAND MAN	AGEMENT		5. Lease Serial No.	5. Lease Serial No. NMNM96848		
Do not u	ise this f	IOTICES AND REPO form for proposals t Use Form 3160-3 (A	o drill or to	re-enter ar		Name		
s	UBMIT IN	TRIPLICATE - Other instru	uctions on page	2	7. If Unit of CA/Agreement,	Name and/or No.		
1. Type of Well  Oil Well	Gas W	Well Other			8. Well Name and No. RIGHT POPULAR 20 FED/312H			
2. Name of Operator XTO	ENERGY I	NCORPORATED			9. API Well No. 300155635	51		
3a. Address 15948 US H	WY 77, AR	DMORE, OK 73401	3b. Phone No. (i			atory Area		
4. Location of Well (Footag	_	R.,M., or Survey Description)			11. Country or Parish, State EDDY/NM			
	12. CHE	CK THE APPROPRIATE B	OX(ES) TO IND	ICATE NATUR	E OF NOTICE, REPORT OR OT	THER DATA		
TYPE OF SUBMISS	SION			TY	PE OF ACTION			
V Notice of Intent		Acidize Alter Casing	= 1	ulic Fracturing	Production (Start/Resume) Reclamation	Well Integrity		
Subsequent Report		Casing Repair Change Plans	Plug a	Construction nd Abandon	Recomplete Temporarily Abandon	Other		
Final Abandonment	Notice	Convert to Injection	Plug E	Back	Water Disposal			
completed. Final Abancis ready for final inspect  XTO ENERGY INC name.  The proposed well The API number for	donment No stion.) CORPORAT	TED respectfully requests anging from RIGHT POPUS 30-015-56351.	all requirements,	including recla		3160-4 must be filed once testing has been the operator has detennined that the site.  D. Changes to include well.		
4. I hereby certify that the JENA AUSTIN / Ph: (34		true and correct. Name (Pri		Regulato	ry Analyst			
Signature (Electronic Submission)				Date	05/14/	2025		
		THE SPACE	FOR FEDE	RAL OR S	TATE OFICE USE			
Approved by					= :	05/1-/222-		
MARIAH HUGHES / Ph				Title	d Law Examiner	05/15/2025 Date		
	lds legal or e	hed. Approval of this notice of equitable title to those rights aduct operations thereon.		or office C	ARLSBAD			

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, 3162.3-4.

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

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

Response to this request is mandatory.

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

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

#### **Additional Information**

#### **Location of Well**

0. SHL: NWNE / 358 FNL / 2409 FEL / TWSP: 25S / RANGE: 29E / SECTION: 20 / LAT: 32.121844 / LONG: -104.005804 (TVD: 0 feet, MD: 0 feet )
PPP: NWSE / 2663 FNL / 1989 FEL / TWSP: 25S / RANGE: 29E / SECTION: 29 / LAT: 32.100903 / LONG: -104.004368 (TVD: 9080 feet, MD: 17400 feet )
PPP: NWNE / 0 FSL / 1966 FEL / TWSP: 25S / RANGE: 29E / SECTION: 29 / LAT: 32.108217 / LONG: -104.004385 (TVD: 9080 feet, MD: 14700 feet )
PPP: NWNE / 101 FNL / 1980 FEL / TWSP: 25S / RANGE: 29E / SECTION: 20 / LAT: 32.122533 / LONG: -104.004418 (TVD: 9080 feet, MD: 9500 feet )
PPP: SWSE / 1331 FSL / 2000 FEL / TWSP: 25S / RANGE: 29E / SECTION: 29 / LAT: 32.097242 / LONG: -104.004359 (TVD: 9080 feet, MD: 18700 feet )
BHL: SWSE / 50 FSL / 1980 FEL / TWSP: 25S / RANGE: 29E / SECTION: 32 / LAT: 32.079084 / LONG: -104.004318 (TVD: 9080 feet, MD: 25279 feet )

Phone: (505) 476-3441 General Information Phone: (505) 629-6116

Online Phone Directory Visit:

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

#### State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION

Revised July 9, 2024
Submit Electronically
via OCD Permitting
☐ Initial Submittal

	☐ Initial Submittal
ubmittal ype:	<b>☒</b> Amended Report
	☐ As Drilled

T

#### WELL LOCATION INFORMATION

API Number	Pool Code	Pool	Name	
30-015-	96217	WILLOW LAKE; BONE SPRING, SOUTHEAST		
Property Code	Property Name			Well Number
	CORRAL 20-32 FED STATE COM			311H
OGRID No.	Operator Name			Ground Level Elevation
005380	XTO ENERGY, INC.			2980'
Surface Owner: □ State □ Fee □ Tribal 🗷 Federal			Mineral Owner: XI State ☐ Fee ☐ Tribal XI F	ederal

	Surface Location								
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
В	20	25S	29E		358 FNL	2,409 FEL	32.121844	-104.005804	EDDY
	Bottom Hole Location								
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
0	32	25S	29E		50 FSL	2,178 FEL	32.079084	-104.004957	EDDY

Dedicated Acres	Infill or Defining Well Defining Well API		Overlapping Spacing Unit (Y/N)	Consolidation Code
480.00	DEFINING		Y	С
Order Numbers:		Well setbacks are under Common Ownership: ■Yes □No		

#### Kick Off Point (KOP)

						10111 (1101)			
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
0	17	258	29E		616 FSL	2,178 FEL	32.124511	-104.005064	EDDY
					First Take	e Point (FTP)			
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
В	20	25S	29E		100 FNL	2,178 FEL	32.122543	-104.005059	EDDY
					Last Take	Point (LTP)			
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
0	32	25S	29E		100 FSL	2,178 FEL	32.079221	-104.004957	EDDY

Unitized Area or Area of Uniform Interest	Spacing Unit Type	<b>X</b> Horizontal □ Vertical	Ground Floor Elevation: 2980'
---	-------------------	--------------------------------	-------------------------------

#### OPERATOR CERTIFICATIONS

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 a 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 well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.

Jena Austin 5/14/2025

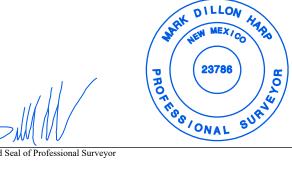
Jena Austin

Jena.N.Austin@ExxonMobil.com

Email Address

#### SURVEYOR CERTIFICATIONS

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.



Signature and Seal of Professional Surveyor

23786 04-24-2025 Certificate Number Date of Survey

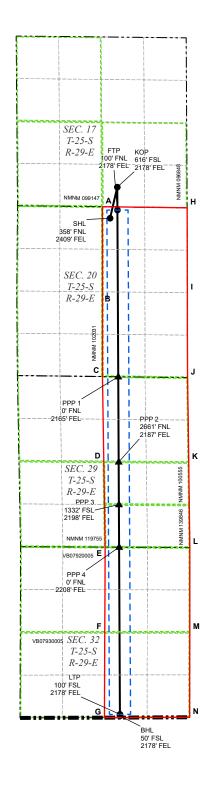
DB 618.013013.02-27

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

#### ACREAGE DEDICATION PLATS

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.



#### LEGEND



	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 LON					
SHL	642,733.4	408,217.0	32.121844	-104.005804	601,549.4	408,158.6	32.121719	-104.005316					
KOP	642,959.4	409,188.0	32.124511	-104.005064	601,775.4	409,129.6	32.124387	-104.004576					
FTP	642,963.3	408,472.2	32.122543	-104.005059	601,779.3	408,413.7	32.122419	-104.004571					
LTP	643,043.0	392,712.7	32.079221	-104.004957	601,858.5	392,654.7	32.079097	-104.004470					
BHL	643,042.9	392,662.7	32.079084	-104.004957	601,858.5	392,604.7	32.078959	-104.004471					
PPP 1	642,989.7	403,263.9	32.108226	-104.005025	601,805.5	403,205.6	32.108102	-104.004537					
PPP 2	643,003.1	400,602.4	32.100910	-104.005008	601,818.9	400,544.1	32.100785	-104.004520					
PPP 3	643,009.8	399,270.3	32.097248	-104.004999	601,825.6	399,212.1	32.097123	-104.004512					
PPP 4	643,016.6	397,938.2	32.093586	-104.004991	601,832.3	397,880.0	32.093461	-104.004503					

	CORNER COORDINATE TABLE										
CORNER	NAD 83 NME X	NAD 83 NME Y	NAD 27 NME X	NAD 27 NME Y							
Α	642,492.6	408,577.9	601,308.6	408,519.5							
В	642,494.3	405,917.9	601,310.2	405,859.6							
С	642,495.9	403,270.2	601,311.8	403,211.9							
D	642,538.1	400,606.2	601,353.9	400,547.9							
Е	642,580.3	397,940.2	601,396.0	397,882.0							
F	642,568.1	395,277.1	601,383.8	395,219.0							
G	642,556.0	392,610.7	601,371.6	392,552.7							
Н	645,141.2	408,545.6	603,957.1	408,487.2							
I	645,148.4	405,891.0	603,964.2	405,832.6							
J	645,154.2	403,236.5	603,970.0	403,178.1							
K	645,190.7	400,584.5	604,006.4	400,526.2							
L	645,225.2	397,927.8	604,040.9	397,869.6							
М	645,222.7	395,276.3	604,038.3	395,218.2							
N	645,220.9	392,621.7	604,036.4	392,563.7							

Santa Fe Main Office Phone: (505) 476-3441 General Information Phone: (505) 629-6116

Online Phone Directory Visit:

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

### State of New Mexico Energy, Minerals & Natural Resources

	Department
)II	CONSERVATION DIVISION

C-102 Revised July 9, 2024 Submit Electronically via OCD Permitting

	☐ Initial Submittal
Submittal Гуре:	<b>▼</b> Amended Report
	☐ As Drilled

XIYes □No

#### WELL LOCATION INFORMATION

API Number	Pool Code	Pool Name				
30-015-	52775	ROCK SPUR; BONE S	SPRING			
Property Code	Property Name		Well Number			
	CORRAL 2	CORRAL 20-32 FED STATE COM				
OGRID No.	Operator Name		Ground Level Elevation			
005380	хто	DENERGY, INC.	2980'			
Surface Owner: □ State □ Fee □	Tribal X Federal	Mineral Owner: XX State ☐ Fee ☐ Tribal XX F	ederal			

	Surface Location											
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		Longitude	County		
В	20	<b>25</b> S	29E		358 FNL	2,409 FEL	32.121844		-104.005804	EDDY		
					Bottom 1	Hole Location						
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		Longitude	County		
0	32	25S	29E		50 FSL	2,178 FEL	32.079	0084	-104.004957	EDDY		
Dedicat	ted Acres Infill or Defining Well Defining Well API		Overlapping Spacing	g Unit (Y/N)	Consolio	dation Code						
48	30.00	DEFI	NING			Y C						

					Kick Oii	Point (KOP)			
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
0	17	25S	29E		616 FSL	2,178 FEL	32.124511	-104.005064	EDDY
					F: (T)	D : (CEEE)			
					First Take	Point (FTP)			
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
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					Last Take	Point (LTP)			
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
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Unitized Area or Area of Uniform Interest	G . III.	M	Ground Floor Elevation:
	Spacing Unit Type	■ Horizontal □ Vertical	2980'

#### OPERATOR CERTIFICATIONS

Order Numbers:

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 a 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 well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

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5/14/2025

#### Jena Austin

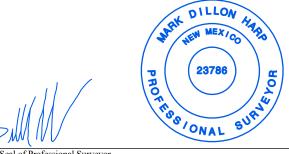
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23786 04-24-2025

Date of Survey

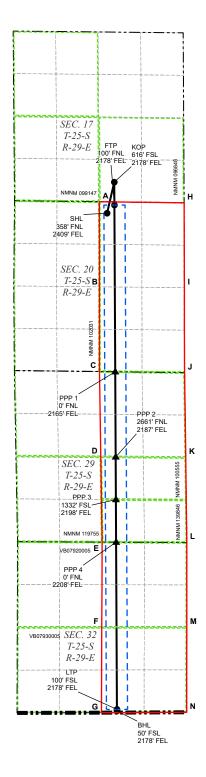
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PPP 4	643,016.6	397,938.2	32.093586	-104.004991	601,832.3	397,880.0	32.093461	-104.004503					

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С	642,495.9	403,270.2	601,311.8	403,211.9			
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E	642,580.3	397,940.2	601,396.0	397,882.0			
F	642,568.1	395,277.1	601,383.8	395,219.0			
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L	645,225.2	397,927.8	604,040.9	397,869.6			
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N	645,220.9	392,621.7	604,036.4	392,563.7			

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

General Information Phone: (505) 629-6116

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

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

CONDITIONS

Action 463977

#### **CONDITIONS**

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	463977
	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.	6/4/2025