

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

<b>Well Name:</b> POKER LAKE UNIT 30-19 BS	<b>Well Location:</b> T25S / R31E / SEC 30 / NENW /	<b>County or Parish/State:</b>
<b>Well Number:</b> 102H	<b>Type of Well:</b> CONVENTIONAL GAS WELL	<b>Allottee or Tribe Name:</b>
<b>Lease Number:</b> NMLC061634B	<b>Unit or CA Name:</b>	<b>Unit or CA Number:</b> NMNM71016X
<b>US Well Number:</b> 3001553441	<b>Well Status:</b> Approved Application for Permit to Drill	<b>Operator:</b> XTO PERMIAN OPERATING LLC

**Notice of Intent**

**Sundry ID:** 2756628

**Type of Submission:** Notice of Intent

**Type of Action:** APD Change

**Date Sundry Submitted:** 10/17/2023

**Time Sundry Submitted:** 08:19

**Date proposed operation will begin:** 11/10/2023

**Procedure Description:** \*\* Surface hole Change, First and Last Take Point Changes, Bottomhole Location Change, Drilling Plan Change, Casing/Cement Change XTO Permian Operating, LCC. requests permission to make the following changes to the original APD: No Additional Surface Disturbance SHL: fr/877'FNL & 1544'FWL to 835'FNL & 1691'FWL, NMIC061634B FTP: fr/2310'FNL & 750'FWL to 2115'FNL & 990'FWL, NMIC061634B LTP: fr/100'FNL & 750'FWL to 1815'FSL & 990'FWL, NMLC063079A BHL: fr/50'FNL & 750'FWL to 1915'FSL & 990'FWL, Section 18-T25S-R31E NMLC063079A Additionally, XTO Permian Operating, LLC. respectfully requests permission to upsize the casing design. The surface, intermediate and production hole, casing, and cement based on the attached drilling program. Due to the design change in these strings, the wellhead configuration has also changed based on the attached drilling program. Casing/Cement design per the attached drilling program. Attachments: C102 Drilling Program MBS Directional Plan

**NOI Attachments**

**Procedure Description**

PLU\_30\_19\_BS\_102H\_Sundry\_Attachments\_20231017081842.pdf

**Well Name:** POKER LAKE UNIT 30-19 BS

**Well Location:** T25S / R31E / SEC 30 / NENW /

**County or Parish/State:**

**Well Number:** 102H

**Type of Well:** CONVENTIONAL GAS WELL

**Allottee or Tribe Name:**

**Lease Number:** NMLC061634B

**Unit or CA Name:**

**Unit or CA Number:** NMNM71016X

**US Well Number:** 3001553441

**Well Status:** Approved Application for Permit to Drill

**Operator:** XTO PERMIAN OPERATING LLC

### Conditions of Approval

#### Additional

PLU\_30\_19\_BS\_122H\_\_\_102H\_and\_121H\_COA\_20231122100537.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:** CASSIE EVANS

**Signed on:** OCT 19, 2023 07:29 AM

**Name:** XTO PERMIAN OPERATING LLC

**Title:** Regulatory Analyst

**Street Address:** 6401 Holiday Hill Road, Bldg 5

**City:** Midland

**State:** TX

**Phone:** (432) 218-3671

**Email address:** CASSIE.EVANS@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:** 11/22/2023

**Signature:** Chris Walls

Form 3160-5  
(June 2019)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

**SUNDRY NOTICES AND REPORTS ON WELLS**  
**Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.**

5. Lease Serial No. **NMLC061634B**

6. If Indian, Allottee or Tribe Name

**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well

Oil Well  Gas Well  Other

7. If Unit of CA/Agreement, Name and/or No.  
**NMNM71016X**

8. Well Name and No. **POKER LAKE UNIT 30-19 BS/102H**

2. Name of Operator **XTO PERMIAN OPERATING LLC**

9. API Well No. **3001553441**

3a. Address **6401 HOLIDAY HILL ROAD BLDG 5, MIDLAND,** 3b. Phone No. (include area code)  
**(432) 683-2277**

10. Field and Pool or Exploratory Area  
**PURPLE SAGE/BONE SPRING**

4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)  
**SEC 30/T25S/R31E/NMP**

11. Country or Parish, State  
**EDDY/NM**

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input checked="" type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

**\*\* Surface hole Change, First and Last Take Point Changes, Bottomhole Location Change, Drilling Plan Change, Casing/Cement Change**

XTO Permian Operating, LCC. requests permission to make the following changes to the original APD:

No Additional Surface Disturbance

SHL: fr/877FNL & 1544FWL to 835FNL & 1691FWL, NMIC061634B

FTP: fr/2310FNL & 750FWL to 2115FNL & 990FWL, NMIC061634B

LTP: fr/100FNL & 750FWL to 1815FSL & 990FWL, NMLC063079A

Continued on page 3 additional information

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)  
**CASSIE EVANS / Ph: (432) 218-3671**

Title **Regulatory Analyst**

Signature (Electronic Submission)

Date **10/19/2023**

**THE SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

**CHRISTOPHER WALLS / Ph: (575) 234-2234 / Approved**

Title **Petroleum Engineer**

Date **11/22/2023**

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office **CARLSBAD**

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

(Instructions on page 2)

## GENERAL INSTRUCTIONS

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

## SPECIFIC INSTRUCTIONS

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

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

## NOTICES

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

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

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

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

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

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

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

Response to this request is mandatory.

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

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

## Additional Information

### Additional Remarks

BHL: fr/50FNL & 750FWL to 1915FSL & 990FWL, Section 18-T25S-R31E NMLC063079A

Additionally, XTO Permian Operating, LLC. respectfully requests permission to upsize the casing design. The surface, intermediate and production hole, casing, and cement based on the attached drilling program. Due to the design change in these strings, the wellhead configuration has also changed based on the attached drilling program.

Casing/Cement design per the attached drilling program.

Attachments:

C102

Drilling Program

MBS

Directional Plan

### Location of Well

0. SHL: NENW / 877 FNL / 1544 FWL / TWSP: 25S / RANGE: 31E / SECTION: 30 / LAT: 32.106117 / LONG: -103.823598 ( TVD: 0 feet, MD: 0 feet )

PPP: SWNW / 2310 FNL / 750 FWL / TWSP: 25S / RANGE: 31E / SECTION: 30 / LAT: 32.102174 / LONG: -103.823598 ( TVD: 10839 feet, MD: 11100 feet )

BHL: LOT 1 / 50 FNL / 750 FWL / TWSP: 25S / RANGE: 31E / SECTION: 19 / LAT: 32.123001 / LONG: -103.823533 ( TVD: 11483 feet, MD: 19649 feet )

## PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

<b>OPERATOR'S NAME:</b>	XTO
<b>LEASE NO.:</b>	NMLC061634B
<b>LOCATION:</b>	Section 30, T.25 S, R.31 E., NMPM
<b>COUNTY:</b>	Eddy County, New Mexico
<b>WELL NAME &amp; NO.:</b>	Poker Lake Unit 30-19 BS 122H
<b>SURFACE HOLE FOOTAGE:</b>	808'/N & 1677'/W
<b>BOTTOM HOLE FOOTAGE:</b>	2592'/S & 660'/W

<b>WELL NAME &amp; NO.:</b>	Poker Lake Unit 30-19 BS 102H
<b>SURFACE HOLE FOOTAGE:</b>	835'/N & 1691'/W
<b>BOTTOM HOLE FOOTAGE:</b>	1915'/S & 990'/W

<b>WELL NAME &amp; NO.:</b>	Poker Lake Unit 30-19 BS 121H
<b>SURFACE HOLE FOOTAGE:</b>	781'/N & 1663'/W
<b>BOTTOM HOLE FOOTAGE:</b>	2588'/S & 330'/W

Changes approved through engineering via **Sundry 2756627,2756690, 2756628**, on **11-21-2023**. Any previous COAs not addressed within the updated COAs still apply.

COA

<b>H<sub>2</sub>S</b>	<input type="radio"/> Yes	<input checked="" type="radio"/> No		
<b>Potash / WIPP</b>	<input checked="" type="radio"/> None	<input type="radio"/> Secretary	<input type="radio"/> R-111-P	<input type="checkbox"/> WIPP
<b>Cave / Karst</b>	<input type="radio"/> Low	<input checked="" type="radio"/> Medium	<input type="radio"/> High	<input type="radio"/> Critical
<b>Wellhead</b>	<input type="radio"/> Conventional	<input checked="" type="radio"/> Multibowl	<input type="radio"/> Both	<input type="radio"/> Diverter
<b>Cementing</b>	<input checked="" type="checkbox"/> Primary Squeeze	<input type="checkbox"/> Cont. Squeeze	<input checked="" type="checkbox"/> EchoMeter	<input type="checkbox"/> DV Tool
<b>Special Req</b>	<input checked="" type="checkbox"/> Break Testing	<input type="checkbox"/> Water Disposal	<input checked="" type="checkbox"/> COM	<input type="checkbox"/> Unit
<b>Variance</b>	<input checked="" type="checkbox"/> Flex Hose	<input type="checkbox"/> Casing Clearance	<input type="checkbox"/> Pilot Hole	<input type="checkbox"/> Capitan Reef
<b>Variance</b>	<input type="checkbox"/> Four-String	<input checked="" type="checkbox"/> Offline Cementing	<input type="checkbox"/> Fluid-Filled	<input type="checkbox"/> Open Annulus
<input type="checkbox"/> <b>Batch APD / Sundry</b>				

**A. HYDROGEN SULFIDE**

Hydrogen Sulfide (H<sub>2</sub>S) monitors shall be installed prior to drilling out the surface shoe. If H<sub>2</sub>S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area must meet all requirements from **43 CFR 3176**, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

**B. CASING**

1. The **9-5/8** inch surface casing shall be set at approximately **1221** feet (a minimum of **70 feet (Eddy County)** into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.

- a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
  - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
  - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
  - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The minimum required fill of cement behind the **7-5/8** inch intermediate casing is: Operator has proposed to cement in two stages by conventionally cementing the first stage and performing a bradenhead squeeze on the second stage, contingent upon no returns to surface.
- a. First stage: Operator will cement with intent to reach the top of the **Brushy Canyon at (PLU 30-19 BS 122H-6722')**, **(PLU 30-19 BS 121H- 6719')**, **(PLU 30-19 BS 102H-6725')**.
  - b. Second stage:
    - Operator will perform bradenhead squeeze and top-out. Cement to surface. If cement does not reach surface, the appropriate BLM office shall be notified. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst.**
    - ❖ 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.**

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

**Operator must use a limited flush fluid volume of 5 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.

### 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 surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 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 must be followed.

### D. SPECIAL REQUIREMENT (S)

#### Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in 43 CFR 3171 and 3172.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.

- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

### Offline Cementing

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

**(Note: For a minimum 5M BOPE or less (Utilizing a 10M BOPE system))**

### **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 must meet all requirements from **43 CFR 3172**.

## 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](mailto: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
    - Notify the BLM when moving in and removing the Spudder Rig.
    - 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.
    - BOP/BOPE test to be conducted per **43 CFR part 3170 Subpart 3172** as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

#### 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, 2) until cement has been in place at least 24 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-P 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 part 3170 Subpart 3172 and API STD 53 Sec. 5.3**.
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:
  - 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. Whenever any seal subject to test pressure is broken, all the tests in **43 CFR part 3170 Subpart 3172** must be followed.
  - e. 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.
  - a. 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).
  - b. 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.)

- c. 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 part 3170 Subpart 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 water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. 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.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. 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.
- g. 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.
- h. 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 part 3170 Subpart 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.

**ZS 11/22/2023**

District I  
1625 N. French Dr., Hobbs, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-0720  
District II  
811 S. First St., Artesia, NM 88210  
Phone: (575) 748-1283 Fax: (575) 748-9720  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
Phone: (505) 334-6178 Fax: (505) 334-6170  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico  
Energy, Minerals & Natural Resources Department  
OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-015- 53441	<sup>2</sup> Pool Code 98220	<sup>3</sup> Pool Name Purple Sage; Wolfcamp
<sup>4</sup> Property Code	<sup>5</sup> Property Name POKER LAKE UNIT 30-19 BS	<sup>6</sup> Well Number 102H
<sup>7</sup> OGRID No. 373075	<sup>8</sup> Operator Name XTO PERMIAN OPERATING, LLC.	<sup>9</sup> Elevation 3,388'

<sup>10</sup> Surface Location

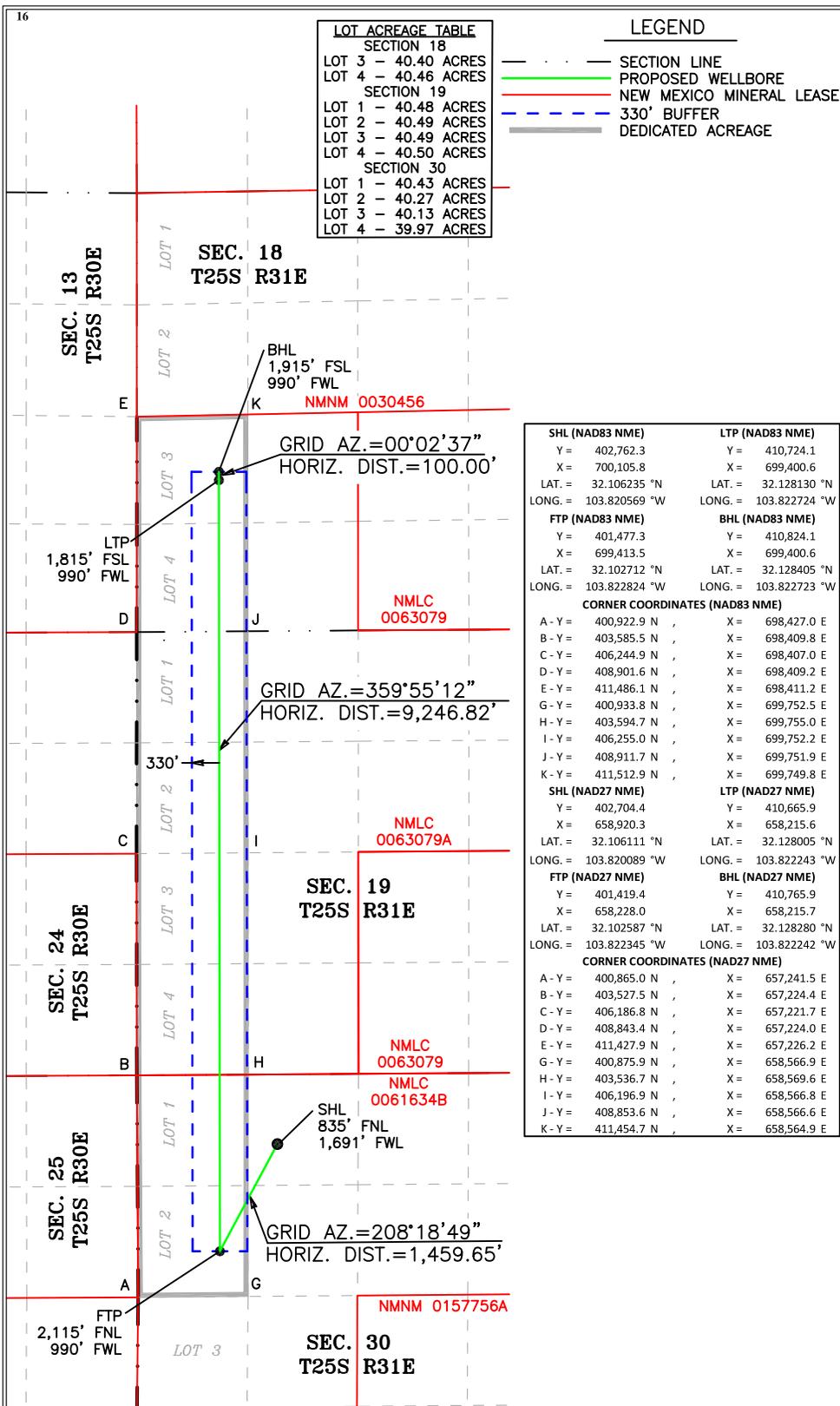
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	30	25 S	31 E		835	NORTH	1,691	WEST	EDDY

<sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
3	18	25 S	31 E		1,915	SOUTH	990	WEST	EDDY

<sup>12</sup> Dedicated Acres 323.52	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
---	-------------------------------	----------------------------------	-------------------------

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.



**17 OPERATOR CERTIFICATION**  
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Cassie Evans 10/10/23  
Signature Date

Cassie Evans  
Printed Name

cassie.evans@exxonmobil.com  
E-mail Address

**18 SURVEYOR CERTIFICATION**  
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.

10-7-2023  
Date of Survey

KC 2019082901

Signature and Seal of Professional Surveyor:

I, TIM C. PAPPAS, NEW MEXICO PROFESSIONAL SURVEYOR NO. 21209, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO, AND THAT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

9 OCT 2023

TIM C. PAPPAS  
REGISTERED PROFESSIONAL LAND SURVEYOR  
STATE OF NEW MEXICO NO. 21209

TIM C. PAPPAS 21209  
Certificate Number

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

XTO Energy Inc.  
PLU 30-19 BS 102H  
Projected TD: 21932.48' MD / 11715' TVD  
SHL: 835' FNL & 1691' FWL , Section 30, T25S, R31E  
BHL: 1915' FSL & 990' FWL , Section 18, T25S, R31E  
Eddy County, NM

1. Geologic Name of Surface Formation

A. Quaternary

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

Formation	Well Depth (TVD)	Water/Oil/Gas
Rustler	1111'	Water
Top of Salt	1429'	Water
Base of Salt	3956'	Water
Delaware	4154'	Water
Brushy Canyon	6725'	Water/Oil/Gas
Bone Spring	8070'	Water
1st Bone Spring	8995'	Water/Oil/Gas
2nd Bone Spring	9662'	Water/Oil/Gas
3rd Bone Spring	10968'	Water/Oil/Gas
Wolfcamp	11397'	Water/Oil/Gas
Wolfcamp X	11422'	Water/Oil/Gas
Wolfcamp Y	11494'	Water/Oil/Gas
Wolfcamp A	11519'	Water/Oil/Gas
<b>Target/Land Curve</b>	<b>11715'</b>	<b>Water/Oil/Gas</b>

\*\*\* Hydrocarbons @ Brushy Canyon  
\*\*\* Groundwater depth 40' (per NM State Engineers Office).

No other formations are expected to yield oil, gas or fresh water in measurable volumes. The surface fresh water sands will be protected by setting 9.625 inch casing @ 1211' (218' above the salt) and circulating cement back to surface. The intermediate will isolate from the top of salt down to the next casing seat by setting 7.625 inch casing at 11261.87' and cemented to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 21932.48 MD/TD and 5.5 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 10961.87 feet).

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0' – 1211'	9.625	40	J-55	BTC	New	1.13	5.20	13.01
8.75	0' – 4000'	7.625	29.7	RY P-110	Flush Joint	New	1.88	2.52	1.67
8.75	4000' – 11261.87'	7.625	29.7	HC L-80	Flush Joint	New	1.37	1.63	1.88
6.75	0' – 11161.87'	5.5	23	RY P-110	Semi-Premium	New	1.45	2.00	1.83
6.75	11161.87' - 21932.48'	5.5	23	RY P-110	Semi-Flush	New	1.45	1.91	1.94

- XTO requests the option to utilize a spudder rig (Atlas Copco RD20 or Equivalent) to set and cement surface casing per this Sundry
- XTO requests to not utilize centralizers in the curve and lateral
- 7.625 Collapse analyzed using 50% evacuation based on regional experience.
- 5.5 Tension calculated using vertical hanging weight plus the lateral weight multiplied by a friction factor of 0.35
- Test on Casing will be limited to 70% burst of the casing or 1500 psi, whichever is less
- XTO requests the option to use 5" BTC Float equipment for the the production casing

**Wellhead:**

*Permanent Wellhead – Multibowl System*

A. Starting Head: 11" 10M top flange x 9-5/8" bottom

B. Tubing Head: 11" 10M bottom flange x 7-1/16" 15M top flange

- Wellhead will be installed by manufacturer's representatives.
- Manufacturer will monitor welding process to ensure appropriate temperature of seal.
- Operator will test the 7-5/8" casing per BLM Onshore Order 2
- Wellhead Manufacturer representative will not be present for BOP test plug installation

#### 4. Cement Program

##### **Surface Casing: 9.625, 40 New BTC, J-55 casing to be set at +/- 1211'**

Lead: 300 sxs EconoCem-HLTRRC (mixed at 10.5 ppg, 1.87 ft<sup>3</sup>/sx, 10.13 gal/sx water)

Tail: 130 sxs Class C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft<sup>3</sup>/sx, 6.39 gal/sx water)

Top of Cement: Surface

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

##### **2nd Intermediate Casing: 7.625, 29.7 New casing to be set at +/- 11261.87'**

###### 1st Stage

Optional Lead: 360 sxs Class C (mixed at 10.5 ppg, 2.77 ft<sup>3</sup>/sx, 15.59 gal/sx water)

TOC: Surface

Tail: 420 sxs Class C (mixed at 14.8 ppg, 1.35 ft<sup>3</sup>/sx, 6.39 gal/sx water)

TOC: Brushy Canyon @ 6725

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

###### 2nd Stage

Lead: 0 sxs Class C (mixed at 12.9 ppg, 2.16 ft<sup>3</sup>/sx, 9.61 gal/sx water)

Tail: 760 sxs Class C (mixed at 14.8 ppg, 1.33 ft<sup>3</sup>/sx, 6.39 gal/sx water)

Top of Cement: 0

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

XTO requests to pump a two stage cement job on the 7-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brush Canyon (6725') and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If cement is not visually confirmed to circulate to surface, the final cement top after the second stage job will be verified by Echo-meter. If necessary, a top out consisting of 1,500 sack of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. If cement is still unable to circulate to surface, another Echo-meter run will be performed for cement top verification.

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

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

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

##### **Production Casing: 5.5, 23 New Semi-Flush, RY P-110 casing to be set at +/- 21932.48'**

Lead: 20 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft<sup>3</sup>/sx, 15.00 gal/sx water) Top of Cement: 10961.87 feet

Tail: 750 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft<sup>3</sup>/sx, 8.38 gal/sx water) Top of Cement: 11461.87 feet

Compressives: 12-hr = 800 psi 24 hr = 1500 psi

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

## 5. Pressure Control Equipment

Once the permanent WH is installed on the 9.625 casing, the blow out preventer equipment (BOP) will consist of a 13-5/8" minimum 10M Hydril and a 13-5/8" minimum 10M Double Ram BOP. MASP should not exceed 5037 psi. In any instance where 10M BOP is required by BLM, XTO requests a variance to utilize 5M annular with 10M ram preventers (a common BOP configuration, which allows use of 10M rams in unlikely event that pressures exceed 5M).

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

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

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

hole on each of the wells.

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. Based on discussions with the BLM on February 27th 2020, we will request permission to **ONLY** retest broken pressure seals if the following conditions are met: 1. After a full BOP test is conducted on the first well on the pad 2. When skidding to drill an intermediate section that does not penetrate into the Wolfcamp.

## 6. Proposed Mud Circulation System

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)
0' - 1211'	12.25	FW/Native	8.4-8.9	35-40	NC
1211' - 11261.87'	8.75	FW / Cut Brine / Direct Emulsion	10.2-10.7	30-32	NC
11261.87' - 21932.48'	6.75	OBM	12.5-13	50-60	NC - 20

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

Spud with fresh water/native mud. Drill out from under 9-5/8" surface casing with brine solution. A 9.7 ppg - 10.2 ppg cut brine mud will be used while drilling through the salt formation. Use fibrous materials as needed to control seepage and lost circulation. Pump viscous sweeps as needed for hole cleaning. Pump speed will be recorded on a daily drilling report after mudding up. A Pason or Totco will be used to detect changes in loss or gain of mud volume. A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system.

## 7. Auxiliary Well Control and Monitoring Equipment

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

## 8. Logging, Coring and Testing Program

Mud Logger: Mud Logging Unit (2 man) below intermediate casing.

Open hole logging will not be done on this well.

## 9. Abnormal Pressures and Temperatures / Potential Hazards

None Anticipated. BHT of 180 to 200 F is anticipated. No H2S is expected but monitors will be in place to detect any H2S occurrences. Should these circumstances be encountered the operator and drilling contractor are prepared to take all necessary steps to ensure safety of all personnel and environment. Lost circulation could occur but is not expected to be a serious problem in this area and hole seepage will be compensated for by additions of small amounts of LCM in the drilling fluid. The maximum anticipated bottom hole pressure for this well is 7615 psi.

## 10. Anticipated Starting Date and Duration of Operations

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



# Well Plan Report - POKER LAKE UNIT 30-19 BS 102H

**Measured Depth:** 21932.00 ft

**TVD RKB:** 11715.00 ft

**Location**

**Cartographic Reference System:** New Mexico East - NAD 27

**Northing:** 402704.40 ft

**Easting:** 658920.30 ft

**RKB:** 3421.00 ft

**Ground Level:** 3421.00 ft

**North Reference:** Grid

**Convergence Angle:** 0.27 Deg

**Plan Sections** POKER LAKE UNIT 30-19 BS 102H

Measured Depth (ft)	Inclination (Deg)	Azimuth (Deg)	TVD			Build Rate (Deg/100ft)	Turn Rate (Deg/100ft)	Dogleg Rate (Deg/100ft)	Target
			RKB	Y Offset (ft)	X Offset (ft)				
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	0.00	
2445.67	26.91	199.79	2396.73	-291.96	-105.04	2.00	0.00	2.00	
5817.40	26.91	199.79	5403.27	-1728.04	-621.70	0.00	0.00	0.00	
7163.07	0.00	0.00	6700.00	-2020.00	-726.74	-2.00	0.00	2.00	
11461.87	0.00	0.00	10998.80	-2020.00	-726.74	0.00	0.00	0.00	
12586.87	90.00	359.92	11715.00	-1303.80	-727.70	8.00	0.00	8.00	FTP 1
21833.38	90.00	359.92	11715.00	7942.70	-740.10	0.00	0.00	0.00	LTP 1
21932.48	90.00	359.92	11715.00	8041.80	-740.23	0.00	0.00	0.00	BHL 1

**Planned Survey** POKER LAKE UNIT 30-19 BS 102H

**Measured**

**TVD**

Depth (ft)	Inclination (Deg)	Azimuth (Deg)	RKB (ft)	Y Offset (ft)	X Offset (ft)
0.000	0.000	0.000	0.000	0.000	0.000
100.000	0.000	0.000	100.000	0.000	0.000
200.000	0.000	0.000	200.000	0.000	0.000
300.000	0.000	0.000	300.000	0.000	0.000
400.000	0.000	0.000	400.000	0.000	0.000
500.000	0.000	0.000	500.000	0.000	0.000
600.000	0.000	0.000	600.000	0.000	0.000
700.000	0.000	0.000	700.000	0.000	0.000
800.000	0.000	0.000	800.000	0.000	0.000
900.000	0.000	0.000	900.000	0.000	0.000
1000.000	0.000	0.000	1000.000	0.000	0.000
1100.000	0.000	0.000	1100.000	0.000	0.000
1200.000	1.999	199.700	1199.980	-1.640	-0.590
1300.000	4.000	199.700	1299.838	-6.570	-2.360
1400.000	6.000	199.700	1399.452	-14.770	-5.310
1500.000	7.999	199.700	1498.702	-26.230	-9.440
1600.000	10.000	199.700	1597.465	-40.950	-14.730
1700.000	11.990	199.700	1695.623	-58.910	-21.190
1800.000	14.000	199.700	1793.055	-80.070	-28.810
1900.000	15.990	199.700	1889.643	-104.420	-37.570
2000.000	18.000	199.700	1985.268	-131.930	-47.470
2100.000	19.990	199.700	2079.816	-162.570	-58.490
2200.000	22.000	199.700	2173.169	-196.290	-70.620
2300.000	24.000	199.700	2265.215	-233.050	-83.850
2400.000	26.000	199.700	2355.841	-272.810	-98.150
2445.600	26.910	199.700	2396.726	-291.960	-105.040
2500.000	26.910	199.700	2445.173	-315.100	-113.360
2600.000	26.910	199.700	2534.342	-357.690	-128.690
2700.000	26.910	199.700	2623.511	-400.280	-144.010
2800.000	26.910	199.700	2712.681	-442.880	-159.330
2900.000	26.910	199.700	2801.850	-485.470	-174.660

3000.000	26.910	199.700	2891.019	-528.060	-189.980
3100.000	26.910	199.700	2980.188	-570.650	-205.300
3200.000	26.910	199.700	3069.357	-613.240	-220.630
3300.000	26.910	199.700	3158.527	-655.830	-235.950
3400.000	26.910	199.700	3247.696	-698.430	-251.270
3500.000	26.910	199.700	3336.865	-741.020	-266.600
3600.000	26.910	199.700	3426.034	-783.610	-281.920
3700.000	26.910	199.700	3515.203	-826.200	-297.240
3800.000	26.910	199.700	3604.373	-868.790	-312.570
3900.000	26.910	199.700	3693.542	-911.380	-327.890
4000.000	26.910	199.700	3782.711	-953.980	-343.210
4100.000	26.910	199.700	3871.880	-996.570	-358.540
4200.000	26.910	199.700	3961.049	-1039.160	-373.860
4300.000	26.910	199.700	4050.219	-1081.750	-389.180
4400.000	26.910	199.700	4139.388	-1124.340	-404.510
4500.000	26.910	199.700	4228.557	-1166.930	-419.830
4600.000	26.910	199.700	4317.726	-1209.530	-435.150
4700.000	26.910	199.700	4406.895	-1252.120	-450.480
4800.000	26.910	199.700	4496.065	-1294.710	-465.800
4900.000	26.910	199.700	4585.234	-1337.300	-481.120
5000.000	26.910	199.700	4674.403	-1379.890	-496.450
5100.000	26.910	199.700	4763.572	-1422.480	-511.770
5200.000	26.910	199.700	4852.741	-1465.080	-527.090
5300.000	26.910	199.700	4941.911	-1507.670	-542.420
5400.000	26.910	199.700	5031.080	-1550.260	-557.740
5500.000	26.910	199.700	5120.249	-1592.850	-573.060
5600.000	26.910	199.700	5209.418	-1635.440	-588.390
5700.000	26.910	199.700	5298.587	-1678.030	-603.710
5800.000	26.910	199.700	5387.757	-1720.630	-619.030
5817.400	26.910	199.700	5403.274	-1728.040	-621.700
5900.000	25.260	199.700	5477.454	-1762.210	-634.000
6000.000	23.260	199.700	5568.618	-1800.870	-647.910
6100.000	21.260	199.700	5661.160	-1836.520	-660.730

6200.000	19.260	199.700	5754.967	-1869.100	-672.450
6300.000	17.260	199.700	5849.926	-1898.590	-683.060
6400.000	15.260	199.700	5945.920	-1924.930	-692.540
6500.000	13.260	199.700	6042.834	-1948.110	-700.880
6600.000	11.260	199.700	6140.548	-1968.100	-708.070
6700.000	9.260	199.700	6238.943	-1984.860	-714.100
6800.000	7.261	199.700	6337.900	-1998.380	-718.960
6900.000	5.261	199.700	6437.299	-2008.640	-722.650
7000.000	3.261	199.700	6537.017	-2015.630	-725.170
7100.000	1.261	199.700	6636.934	-2019.340	-726.500
7163.000	0.000	0.000	6700.000	-2020.000	-726.740
7200.000	0.000	0.000	6736.929	-2020.000	-726.740
7300.000	0.000	0.000	6836.929	-2020.000	-726.740
7400.000	0.000	0.000	6936.929	-2020.000	-726.740
7500.000	0.000	0.000	7036.929	-2020.000	-726.740
7600.000	0.000	0.000	7136.929	-2020.000	-726.740
7700.000	0.000	0.000	7236.929	-2020.000	-726.740
7800.000	0.000	0.000	7336.929	-2020.000	-726.740
7900.000	0.000	0.000	7436.929	-2020.000	-726.740
8000.000	0.000	0.000	7536.929	-2020.000	-726.740
8100.000	0.000	0.000	7636.929	-2020.000	-726.740
8200.000	0.000	0.000	7736.929	-2020.000	-726.740
8300.000	0.000	0.000	7836.929	-2020.000	-726.740
8400.000	0.000	0.000	7936.929	-2020.000	-726.740
8500.000	0.000	0.000	8036.929	-2020.000	-726.740
8600.000	0.000	0.000	8136.929	-2020.000	-726.740
8700.000	0.000	0.000	8236.929	-2020.000	-726.740
8800.000	0.000	0.000	8336.929	-2020.000	-726.740
8900.000	0.000	0.000	8436.929	-2020.000	-726.740
9000.000	0.000	0.000	8536.929	-2020.000	-726.740
9100.000	0.000	0.000	8636.929	-2020.000	-726.740
9200.000	0.000	0.000	8736.929	-2020.000	-726.740
9300.000	0.000	0.000	8836.929	-2020.000	-726.740

9400.000	0.000	0.000	8936.929	-2020.000	-726.740
9500.000	0.000	0.000	9036.929	-2020.000	-726.740
9600.000	0.000	0.000	9136.929	-2020.000	-726.740
9700.000	0.000	0.000	9236.929	-2020.000	-726.740
9800.000	0.000	0.000	9336.929	-2020.000	-726.740
9900.000	0.000	0.000	9436.929	-2020.000	-726.740
10000.000	0.000	0.000	9536.929	-2020.000	-726.740
10100.000	0.000	0.000	9636.929	-2020.000	-726.740
10200.000	0.000	0.000	9736.929	-2020.000	-726.740
10300.000	0.000	0.000	9836.929	-2020.000	-726.740
10400.000	0.000	0.000	9936.929	-2020.000	-726.740
10500.000	0.000	0.000	10036.929	-2020.000	-726.740
10600.000	0.000	0.000	10136.929	-2020.000	-726.740
10700.000	0.000	0.000	10236.929	-2020.000	-726.740
10800.000	0.000	0.000	10336.929	-2020.000	-726.740
10900.000	0.000	0.000	10436.929	-2020.000	-726.740
11000.000	0.000	0.000	10536.929	-2020.000	-726.740
11100.000	0.000	0.000	10636.929	-2020.000	-726.740
11200.000	0.000	0.000	10736.929	-2020.000	-726.740
11300.000	0.000	0.000	10836.929	-2020.000	-726.740
11400.000	0.000	0.000	10936.929	-2020.000	-726.740
11461.000	0.000	0.000	10998.803	-2020.000	-726.740
11500.000	3.050	359.900	11036.911	-2018.980	-726.740
11600.000	11.050	359.900	11136.075	-2006.720	-726.760
11700.000	19.050	359.900	11232.566	-1980.770	-726.790
11800.000	27.050	359.900	11324.508	-1941.650	-726.840
11900.000	35.050	359.900	11410.110	-1890.110	-726.910
12000.000	43.050	359.900	11487.706	-1827.170	-727.000
12100.000	51.050	359.900	11555.787	-1754.030	-727.100
12200.000	59.050	359.900	11613.026	-1672.130	-727.210
12300.000	67.050	359.900	11658.310	-1583.060	-727.330
12400.000	75.050	359.900	11690.758	-1488.560	-727.450
12500.000	83.050	359.900	11709.738	-1390.460	-727.580

12586.000	90.000	359.900	11715.000	-1303.800	-727.700
12600.000	90.000	359.900	11715.000	-1290.670	-727.720
12700.000	90.000	359.900	11715.000	-1190.670	-727.850
12800.000	90.000	359.900	11715.000	-1090.670	-727.990
12900.000	90.000	359.900	11715.000	-990.670	-728.120
13000.000	90.000	359.900	11715.000	-890.670	-728.250
13100.000	90.000	359.900	11715.000	-790.670	-728.390
13200.000	90.000	359.900	11715.000	-690.670	-728.520
13300.000	90.000	359.900	11715.000	-590.670	-728.660
13400.000	90.000	359.900	11715.000	-490.670	-728.790
13500.000	90.000	359.900	11715.000	-390.670	-728.920
13600.000	90.000	359.900	11715.000	-290.670	-729.060
13700.000	90.000	359.900	11715.000	-190.670	-729.190
13800.000	90.000	359.900	11715.000	-90.670	-729.330
13900.000	90.000	359.900	11715.000	9.330	-729.460
14000.000	90.000	359.900	11715.000	109.330	-729.600
14100.000	90.000	359.900	11715.000	209.330	-729.730
14200.000	90.000	359.900	11715.000	309.330	-729.860
14300.000	90.000	359.900	11715.000	409.320	-730.000
14400.000	90.000	359.900	11715.000	509.320	-730.130
14500.000	90.000	359.900	11715.000	609.320	-730.270
14600.000	90.000	359.900	11715.000	709.320	-730.400
14700.000	90.000	359.900	11715.000	809.320	-730.530
14800.000	90.000	359.900	11715.000	909.320	-730.670
14900.000	90.000	359.900	11715.000	1009.320	-730.800
15000.000	90.000	359.900	11715.000	1109.320	-730.940
15100.000	90.000	359.900	11715.000	1209.320	-731.070
15200.000	90.000	359.900	11715.000	1309.320	-731.200
15300.000	90.000	359.900	11715.000	1409.320	-731.340
15400.000	90.000	359.900	11715.000	1509.320	-731.470
15500.000	90.000	359.900	11715.000	1609.320	-731.610
15600.000	90.000	359.900	11715.000	1709.320	-731.740
15700.000	90.000	359.900	11715.000	1809.320	-731.870

15800.000	90.000	359.900	11715.000	1909.320	-732.010
15900.000	90.000	359.900	11715.000	2009.320	-732.140
16000.000	90.000	359.900	11715.000	2109.320	-732.280
16100.000	90.000	359.900	11715.000	2209.320	-732.410
16200.000	90.000	359.900	11715.000	2309.320	-732.550
16300.000	90.000	359.900	11715.000	2409.320	-732.680
16400.000	90.000	359.900	11715.000	2509.320	-732.810
16500.000	90.000	359.900	11715.000	2609.320	-732.950
16600.000	90.000	359.900	11715.000	2709.320	-733.080
16700.000	90.000	359.900	11715.000	2809.320	-733.220
16800.000	90.000	359.900	11715.000	2909.320	-733.350
16900.000	90.000	359.900	11715.000	3009.320	-733.480
17000.000	90.000	359.900	11715.000	3109.320	-733.620
17100.000	90.000	359.900	11715.000	3209.320	-733.750
17200.000	90.000	359.900	11715.000	3309.320	-733.890
17300.000	90.000	359.900	11715.000	3409.320	-734.020
17400.000	90.000	359.900	11715.000	3509.320	-734.150
17500.000	90.000	359.900	11715.000	3609.320	-734.290
17600.000	90.000	359.900	11715.000	3709.320	-734.420
17700.000	90.000	359.900	11715.000	3809.320	-734.560
17800.000	90.000	359.900	11715.000	3909.320	-734.690
17900.000	90.000	359.900	11715.000	4009.320	-734.830
18000.000	90.000	359.900	11715.000	4109.320	-734.960
18100.000	90.000	359.900	11715.000	4209.320	-735.090
18200.000	90.000	359.900	11715.000	4309.320	-735.230
18300.000	90.000	359.900	11715.000	4409.320	-735.360
18400.000	90.000	359.900	11715.000	4509.320	-735.500
18500.000	90.000	359.900	11715.000	4609.320	-735.630
18600.000	90.000	359.900	11715.000	4709.320	-735.760
18700.000	90.000	359.900	11715.000	4809.320	-735.900
18800.000	90.000	359.900	11715.000	4909.320	-736.030
18900.000	90.000	359.900	11715.000	5009.320	-736.170
19000.000	90.000	359.900	11715.000	5109.320	-736.300

19100.000	90.000	359.900	11715.000	5209.320	-736.430
19200.000	90.000	359.900	11715.000	5309.320	-736.570
19300.000	90.000	359.900	11715.000	5409.320	-736.700
19400.000	90.000	359.900	11715.000	5509.320	-736.840
19500.000	90.000	359.900	11715.000	5609.320	-736.970
19600.000	90.000	359.900	11715.000	5709.320	-737.100
19700.000	90.000	359.900	11715.000	5809.320	-737.240
19800.000	90.000	359.900	11715.000	5909.320	-737.370
19900.000	90.000	359.900	11715.000	6009.320	-737.510
20000.000	90.000	359.900	11715.000	6109.320	-737.640
20100.000	90.000	359.900	11715.000	6209.320	-737.780
20200.000	90.000	359.900	11715.000	6309.320	-737.910
20300.000	90.000	359.900	11715.000	6409.320	-738.040
20400.000	90.000	359.900	11715.000	6509.320	-738.180
20500.000	90.000	359.900	11715.000	6609.320	-738.310
20600.000	90.000	359.900	11715.000	6709.320	-738.450
20700.000	90.000	359.900	11715.000	6809.320	-738.580
20800.000	90.000	359.900	11715.000	6909.320	-738.710
20900.000	90.000	359.900	11715.000	7009.320	-738.850
21000.000	90.000	359.900	11715.000	7109.320	-738.980
21100.000	90.000	359.900	11715.000	7209.320	-739.120
21200.000	90.000	359.900	11715.000	7309.320	-739.250
21300.000	90.000	359.900	11715.000	7409.320	-739.380
21400.000	90.000	359.900	11715.000	7509.320	-739.520
21500.000	90.000	359.900	11715.000	7609.320	-739.650
21600.000	90.000	359.900	11715.000	7709.320	-739.790
21700.000	90.000	359.900	11715.000	7809.320	-739.920
21800.000	90.000	359.900	11715.000	7909.320	-740.060
21833.000	90.000	359.900	11715.000	7942.700	-740.100
21900.000	90.000	359.900	11715.000	8009.320	-740.190
21932.000	90.000	359.900	11715.000	8041.800	-740.230

Plan Targets

POKER LAKE UNIT 30-19 BS 102H

Target Name	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape
FTP 1	12635.87	401419.40	658228.00	8294.00	RECTANGLE
LTP 1	21873.08	410665.90	658215.60	8294.00	RECTANGLE
BHL 1	21972.71	410765.90	658215.70	8294.00	RECTANGLE

**District I**  
 1625 N. French Dr., Hobbs, NM 88240  
 Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
 811 S. First St., Artesia, NM 88210  
 Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
 1000 Rio Brazos Rd., Aztec, NM 87410  
 Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
 1220 S. St Francis Dr., Santa Fe, NM 87505  
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS  
 Action 288008

**CONDITIONS**

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 288008
	Action Type: [C-103] NOI Change of Plans (C-103A)

**CONDITIONS**

Created By	Condition	Condition Date
ward.rikala	All original COA's still apply.	11/27/2023