

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

Well Name: POKER LAKE UNIT 16 TWR	Well Location: T24S / R31E / SEC 21 / NENW / 32.208675 / -103.78389	County or Parish/State: EDDY / NM
Well Number: 124H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMNM0506A	Unit or CA Name: POKER LAKE	Unit or CA Number: NMNM071016Z, NMNM71016X
US Well Number: 3001549440	Well Status: Producing Gas Well	Operator: XTO PERMIAN OPERATING LLC

Subsequent Report

Sundry ID: 2726469

Type of Submission: Subsequent Report

Type of Action: Other

Date Sundry Submitted: 04/19/2023

Time Sundry Submitted: 06:01

Date Operation Actually Began: 04/25/2022

Actual Procedure: XTO Energy (XTO) received verbal approval of Sundry ID 2668429, submitted on 4/25/2022. Due to AFMSS issues Sundry ID 2668429 was returned on 3/5/2023 and the sundry was not completed. Per BLM request XTO is submitting this sundry to update the well record. **Pool Change, Spacing, Casing/Cement, Drilling Variance Changes XTO Permian Operating, LLC requests permission to make the following changes to the original APD: No Additional Surface Disturbance Change formation from Wolfcamp to Bone Spring. Change pool from Purple Sage; Wolfcamp (98220) to Cotton Draw; Bone Spring, South (96546). Change BHL fr/200'FSL & 2178'FWL to 50'FSL & 920'FWL, Section 28-T24S-R31E Casing/Cement design per the attached drilling program. Attachments: BLM Verbal Approval Email C102 Drilling Program Directional Plan Multibowl Diagram

SR Attachments

Actual Procedure

PLU_16_TWR_124H_Verbal_Approval_w.Attachments_20230419055821.pdf

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TWR

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Unit or CA Number:
NMNM071016Z, NMNM71016X

US Well Number: 3001549440

Well Status: Producing Gas Well

Operator: XTO PERMIAN
OPERATING LLC

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: JESSICA DOOLING

Signed on: APR 19, 2023 05:58 AM

Name: XTO PERMIAN OPERATING LLC

Title: Lead Regulatory Coordinator

Street Address: 6401 HOLIDAY HILL ROAD BLDG 5

City: MIDLAND

State: TX

Phone: (970) 769-6048

Email address: JESSICA.DOOLING@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: 05/26/2023

Signature: Chris Walls

Rabadue, Stephanie

To: Morency, Allison E; Walls, Christopher; Ajibola E-I-T, Olabode T; Kirsch, Zane C
Subject: RE: [EXTERNAL] FW: Request: Sundry Approvals (XTO Energy)

From: Morency, Allison E [mailto:amorency@blm.gov]

Sent: Tuesday, June 7, 2022 4:25 PM

To: Rabadue, Stephanie <stephanie.rabadue@exxonmobil.com>; Walls, Christopher <cwalls@blm.gov>; Ajibola E-I-T, Olabode T <oajibolaeit@blm.gov>; Kirsch, Zane C <zkirsch@blm.gov>

Subject: RE: [EXTERNAL] FW: Request: Sundry Approvals (XTO Energy)

External Email - Think Before You Click

Verbal approval granted.

Chris is out today, but should approve them when they're back and send back the outrider and the PLU.

Sincerely,

Allison Morency
Petroleum Engineer
Carlsbad Field Office
Bureau of Land Management
575-234-5709

From: Rabadue, Stephanie <stephanie.rabadue@exxonmobil.com>

Sent: Tuesday, June 7, 2022 8:16 AM

To: Morency, Allison E <amorency@blm.gov>; Walls, Christopher <cwalls@blm.gov>; Ajibola E-I-T, Olabode T <oajibolaeit@blm.gov>; Kirsch, Zane C <zkirsch@blm.gov>

Subject: [EXTERNAL] FW: Request: Sundry Approvals (XTO Energy)

This email has been received from outside of DOI - Use caution before clicking on links, opening attachments, or responding.

Good morning, BLM Team,

Our PLU 16 TWR wells are imminent. We have 3 rigs headed that direction beginning tomorrow, beginning with the: 167H, 127H, 107H, 106H, 126H, 156H, 154H, 124H, 104H.

Any help you can provide in getting these approvals would be greatly appreciated.

Thank you for everything!

Take care and happy Tuesday!

Stephanie Rabadue

ExxonMobil UOG Unconventional
Permian Business Unit, Regulatory Manager
Phone: 432-620-6714
stephanie.rabadue@exxonmobil.com

*** Please Note My New Email Address: stephanie.rabadue@exxonmobil.com

From: Rabadue, Stephanie
Sent: Tuesday, May 31, 2022 6:32 AM
To: 'Morency, Allison E' <amorency@blm.gov>; 'cwalls@blm.gov' <cwalls@blm.gov>; 'Ajibola E-I-T, Olabode T' <oajibolaet@blm.gov>; 'zkirsch@blm.gov' <zkirsch@blm.gov>
Cc: Evans, Cassie L <cassie.evans@exxonmobil.com>; Dooling, Jessica <jessica.dooling@exxonmobil.com>
Subject: FW: Request: Sundry Approvals (XTO Energy)

Good morning, BLM Team,

SOS. We're in dire need of the Outrider sundry approvals immediately followed by the Poker Lake Unit 16 TWR sundry approvals for rig spuds anticipated this week and next week.

If there is anything I can do to help, please don't hesitate to let me know!

Thank you, take care, and happy day after a holiday!

Outrider 28 Federal: June 3 Spud Date (No Additional Surface Disturbance, No Well Location Change)

Sundry ID	BLM Office	Operator	Well Name	Well Number
<input type="text"/>	<input type="text"/>	<input type="text"/>	Outrider <input type="text"/>	<input type="text"/>
2672444	Carlsbad	XTO ENERGY INCORP...	OUTRIDER 28 FED	123H
2672445	Carlsbad	XTO ENERGY INCORP...	OUTRIDER 28 FED	121H
2672447	Carlsbad	XTO ENERGY INCORP...	OUTRIDER 28 FED	101H
2672446	Carlsbad	XTO ENERGY INCORP...	OUTRIDER 28 FED	112H

Poker Lake Unit 16 TWR: June 8 Spud Date (No Additional Surface Disturbance, A Few On Pad Surface Hole Location Changes)

Sundry ID	BLM Office	Operator	Well Name	Well Number
<input type="text"/>	<input type="text"/>	<input type="text"/>	poker Lake Unit 16] x	<input type="text"/>
2668424	Carlsbad	XTO PERMIAN OPERAT...	POKER LAKE UNIT 16 TWR	104H
2668425	Carlsbad	XTO PERMIAN OPERAT...	POKER LAKE UNIT 16 TWR	106H
2668427	Carlsbad	XTO PERMIAN OPERAT...	POKER LAKE UNIT 16 TWR	107H
2668431	Carlsbad	XTO PERMIAN OPERAT...	POKER LAKE UNIT 16 TWR	126H
2668432	Carlsbad	XTO PERMIAN OPERAT...	POKER LAKE UNIT 16 TWR	127H
2668433	Carlsbad	XTO PERMIAN OPERAT...	POKER LAKE UNIT 16 TWR	154H
2668436	Carlsbad	XTO PERMIAN OPERAT...	POKER LAKE UNIT 16 TWR	156H
2668437	Carlsbad	XTO PERMIAN OPERAT...	POKER LAKE UNIT 16 TWR	167H
2668429	Carlsbad	XTO PERMIAN OPERAT...	POKER LAKE UNIT 16 TWR	124H
2668441	Carlsbad	XTO PERMIAN OPERAT...	POKER LAKE UNIT 16 TWR	167H
2672045	Carlsbad	XTO PERMIAN OPERAT...	POKER LAKE UNIT 16 TWR	152H
2672046	Carlsbad	XTO PERMIAN OPERAT...	POKER LAKE UNIT 16 TWR	161H

Stephanie Rabadue
 ExxonMobil UOG Unconventional
 Permian Business Unit, Regulatory Manager
 Phone: 432-620-6714
stephanie.rabadue@exxonmobil.com

*** Please Note My New Email Address: stephanie.rabadue@exxonmobil.com

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

¹ API Number 30-015-49440		² Pool Code 96546		³ Pool Name Cotton Draw; Bone Spring, South	
⁴ Property Code		⁵ Property Name POKER LAKE UNIT 16 TWR			⁶ Well Number 124H
⁷ OGRID No. 373075		⁸ Operator Name XTO PERMIAN OPERATING, LLC.			⁹ Elevation 3,511'

¹⁰ 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	21	24 S	31 E		515	NORTH	2,290	WEST	EDDY

¹¹ 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
M	28	24 S	31 E		50	SOUTH	920	WEST	EDDY

¹² Dedicated Acres 320	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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.

SHL (NAD83 NME)
Y = 440,084.3
X = 711,272.7
LAT. = 32.208675 °N
LONG. = 103.783890 °W

FTP (NAD83 NME)
Y = 440,261.4
X = 709,901.7
LAT. = 32.209181 °N
LONG. = 103.788319 °W

LTP (NAD83 NME)
Y = 430,127.9
X = 709,964.9
LAT. = 32.181325 °N
LONG. = 103.788281 °W

BHL (NAD83 NME)
Y = 430,077.9
X = 709,965.2
LAT. = 32.181188 °N
LONG. = 103.788281 °W

CORNER COORDINATES (NAD83 NME)
A - Y = 440,586.4 N , X = 708,979.7 E
B - Y = 440,593.6 N , X = 710,299.6 E
C - Y = 437,947.7 N , X = 708,996.2 E
D - Y = 437,954.7 N , X = 710,316.0 E
E - Y = 435,304.7 N , X = 709,012.3 E
F - Y = 435,312.5 N , X = 710,332.2 E
G - Y = 432,663.6 N , X = 709,028.9 E
H - Y = 432,671.3 N , X = 710,349.1 E
I - Y = 430,022.4 N , X = 709,045.5 E
J - Y = 430,030.3 N , X = 710,366.1 E

SHL (NAD27 NME)
Y = 440,025.4
X = 670,088.7
LAT. = 32.208551 °N
LONG. = 103.783406 °W

FTP (NAD27 NME)
Y = 440,202.5
X = 668,717.8
LAT. = 32.209057 °N
LONG. = 103.787835 °W

LTP (NAD27 NME)
Y = 430,069.3
X = 668,780.5
LAT. = 32.181201 °N
LONG. = 103.787799 °W

BHL (NAD27 NME)
Y = 430,019.3
X = 668,780.8
LAT. = 32.181064 °N
LONG. = 103.787798 °W

CORNER COORDINATES (NAD27 NME)
A - Y = 440,527.5 N , X = 667,795.7 E
B - Y = 440,534.7 N , X = 669,115.6 E
C - Y = 437,888.9 N , X = 667,812.2 E
D - Y = 437,895.9 N , X = 669,132.0 E
E - Y = 435,246.0 N , X = 667,828.1 E
F - Y = 435,253.7 N , X = 669,148.1 E
G - Y = 432,604.9 N , X = 667,844.7 E
H - Y = 432,612.7 N , X = 669,164.9 E
I - Y = 429,963.8 N , X = 667,861.2 E
J - Y = 429,971.7 N , X = 669,181.7 E

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.

Stephanie Rabadue 01/22/2022
Signature Date

Stephanie Rabadue
Printed Name

stephanie.rabadue@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.

01-20-2022
Date of Survey

Signature and Seal of Professional Surveyor:
[Signature]

MARK DILLON HARP 23786
Certificate Number

LM/AW 2018010224

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

XTO Energy Inc.
PLU 16 Twin Wells Ranch 124H
Projected TD: 21006' MD / 10865' TVD
SHL: 515' FNL & 2290' FWL , Section 21, T24S, R31E
BHL: 50' FSL & 920' FWL , Section 28, T24S, 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	668'	Water
Top of Salt	958'	Water
Base of Salt	4174'	Water
Delaware	4410'	Water
Brushy Canyon	6523'	Water/Oil/Gas
Bone Spring	8243'	Water
1st Bone Spring Ss	9272'	Water/Oil/Gas
2nd Bone Spring Ss	10010'	Water/Oil/Gas
3rd Bone Spring Sh	10714'	Water/Oil/Gas
Target/Land Curve	10865'	Water/Oil/Gas
Wolfcamp	11605'	Water/Oil/Gas
Wolfcamp X	11655'	Water/Oil/Gas
Wolfcamp Y	11705'	Water/Oil/Gas
Wolfcamp A	11773'	Water/Oil/Gas
Wolfcamp B	12158'	Water/Oil/Gas
Pilot Hole TD	12166'	Water/Oil/Gas

*** 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 @ 768' (190' 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 9880' and cemented to surface. A 6.75 inch Pilot Hole will be drilled into the Wolfcamp B. The Pilot Hole will then be plugged back per cement below. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 21006 MD/TD and 5.5 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 9580 feet).

3. Casing Design

Hole Size	MD	TVD	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0' – 768'	768'	9.625	40	J-55	BTC	New	1.41	7.40	20.51
8.75	0' – 4000'	3961'	7.625	29.7	RY P-110	Flush Joint	New	2.81	2.65	1.90
8.75	4000' – 9880'	9776'	7.625	29.7	HC L-80	Flush Joint	New	2.04	2.03	2.32
6.75	0' – 9780'	9676'	5.5	20	RY P-110	Semi-Premium	New	1.05	2.14	2.18
6.75	9780' - 21006'	10865'	5.5	20	RY P-110	Semi-Flush	New	1.05	1.93	2.18

- Production casing meets the clearance requirements as tapered string crosses over before encountering the intermediate shoe, per Onshore Order 2.3.B.1
- 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 +/- 768

Lead: 150 sxs EconoCem-HLTRRC (mixed at 12.9 ppg, 1.87 ft³/sx, 10.13 gal/sx water)

Tail: 130 sxs Class C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft³/sx, 6.39 gal/sx water)

Top of Cement: Surface

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

2nd Intermediate Casing: 7.625, 29.7 New casing to be set at +/- 9880

1st Stage

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

TOC: Surface

Tail: 310 sxs Class C (mixed at 14.8 ppg, 1.35 ft³/sx, 6.39 gal/sx water)

TOC: Brushy Canyon @ 6523

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

2nd Stage

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

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

Top of Cement: 0

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

XTO requests to pump a two stage cement job on the 7-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brush Canyon (6523') 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 include the Echo-meter verified fluid top and the volume of displacement fluid above the cement slurry in the annulus in all post-drill sundries on wells utilizing this cement program.

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.

Pilot Hole: 6-3/4" Open Hole

Plug 1: 12,166' TVD - 11,500' TVD (isolating Wolfcamp from the Bonespring)

153 sxs Class H (mixed at 16.4 ppg, 1.08 ft³/sx, 4.52 gal/sx water)

Plug 2: 10,800' - 10,500' (Kick-Off Plug)

78 sxs Class H (mixed at 17.5 ppg, 0.95 ft³/sx, 3.52 gal/sx water)

Production Casing: 5.5, 20 New Semi-Flush, RY P-110 casing to be set at +/- 21006

Lead: 30 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft³/sx, 15.00 gal/sx water) Top of Cement: 9580 feet

Tail: 760 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft³/sx, 8.38 gal/sx water) Top of Cement: 10406 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 5M Hydril and a 13-5/8" minimum 5M Double Ram BOP. MASP should not exceed 3372 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, 5M bradenhead and flange, the BOP test will be limited to 5000 psi. When nipping up on the 7.625, the BOP will be tested to a minimum of 5000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 5M 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' - 768'	12.25		FW/Native	8.7-9.2	35-40	NC
768' - 9880'	8.75		FW / Cut Brine / Direct Emulsion	9.7-10.2	30-32	NC
8350' - 12251'	6.75 Pilot Hole		FW / Cut Brine	9.7-10.2	30-32	NC
9880' - 21006'	6.75 Curve and Lateral		OBM	10.2-10.7	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 include quad-combo, LithoScanner, and FMI in the pilot hole section.

9. Abnormal Pressures and Temperatures / Potential Hazards

None Anticipated. BHT of 175 to 195 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 5763 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 - PLU 124H Pilot Hole

Measured Depth: 12289.73 ft
 TVD RKB: 12166.00 ft
Location
Cartographic Reference System: New Mexico East - NAD 27
Northing: 440417.97 ft
Easting: 669016.24 ft
RKB: -6533.27 ft
Ground Level: 3513.00 ft
North Reference: Grid
Convergence Angle: 0.29 Deg

Plan Sections		PLU 124H Pilot Hole							
Measured	TVD			Build	Turn	Dogleg			
Depth	Inclination	Azimuth	RKB	Y Offset	X Offset	Rate	Rate	Rate	Target
(ft)	(Deg)	(Deg)	(ft)	(ft)	(ft)	(Deg/100ft)	(Deg/100ft)	(Deg/100ft)	
10200.00	0.00	0.00	10076.27	400.00	-1090.01	0.00	0.00	0.00	
12289.73	0.00	0.00	12166.00	400.00	-1090.01	0.00	0.00	0.00	

Position Uncertainty		PLU 124H Pilot Hole												
Measured	TVD Highside			Lateral		Vertical		Magnitude	Semi-major	Semi-minor	Semi-minor	Tool		
Depth	Inclination	Azimuth	RKB	Error	Bias	Error	Bias	Error	Bias	of Bias	Error	Error	Azimuth	Used
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	
10200.000	0.000	0.000	10076.267	36.441	0.000	36.462	0.000	12.369	0.000	0.000	36.525	36.378	-40.840	OWSG MWD+IFR1+MS
10300.000	0.000	0.000	10176.267	36.786	0.000	36.805	0.000	12.470	0.000	0.000	36.870	36.721	-41.242	OWSG MWD+IFR1+MS
10400.000	0.000	0.000	10276.267	37.131	0.000	37.149	0.000	12.573	0.000	0.000	37.215	37.065	-41.629	OWSG MWD+IFR1+MS
10500.000	0.000	0.000	10376.267	37.477	0.000	37.493	0.000	12.678	0.000	0.000	37.560	37.409	-42.004	OWSG MWD+IFR1+MS
10600.000	0.000	0.000	10476.267	37.823	0.000	37.837	0.000	12.786	0.000	0.000	37.905	37.754	-42.366	OWSG MWD+IFR1+MS
10700.000	0.000	0.000	10576.267	38.169	0.000	38.181	0.000	12.896	0.000	0.000	38.251	38.098	-42.716	OWSG MWD+IFR1+MS
10800.000	0.000	0.000	10676.267	38.515	0.000	38.525	0.000	13.008	0.000	0.000	38.597	38.443	-43.054	OWSG MWD+IFR1+MS
10900.000	0.000	0.000	10776.267	38.862	0.000	38.870	0.000	13.123	0.000	0.000	38.943	38.788	-43.382	OWSG MWD+IFR1+MS
11000.000	0.000	0.000	10876.267	39.208	0.000	39.215	0.000	13.241	0.000	0.000	39.290	39.134	-43.699	OWSG MWD+IFR1+MS
11100.000	0.000	0.000	10976.267	39.555	0.000	39.561	0.000	13.361	0.000	0.000	39.637	39.479	-44.005	OWSG MWD+IFR1+MS
11200.000	0.000	0.000	11076.267	39.902	0.000	39.906	0.000	13.484	0.000	0.000	39.984	39.825	-44.302	OWSG MWD+IFR1+MS
11300.000	0.000	0.000	11176.267	40.250	0.000	40.252	0.000	13.609	0.000	0.000	40.331	40.171	-44.590	OWSG MWD+IFR1+MS
11400.000	0.000	0.000	11276.267	40.597	0.000	40.598	0.000	13.737	0.000	0.000	40.678	40.517	-44.868	OWSG MWD+IFR1+MS
11500.000	0.000	0.000	11376.267	40.945	0.000	40.944	0.000	13.868	0.000	0.000	41.026	40.863	134.862	OWSG MWD+IFR1+MS

11600.000	0.000	0.000	11476.267	41.293	0.000	41.291	0.000	14.002	0.000	0.000	41.373	41.210	134.600	OWSG MWD+IFR1+MS
11700.000	0.000	0.000	11576.267	41.641	0.000	41.637	0.000	14.139	0.000	0.000	41.721	41.557	134.347	OWSG MWD+IFR1+MS
11800.000	0.000	0.000	11676.267	41.989	0.000	41.984	0.000	14.278	0.000	0.000	42.069	41.904	134.101	OWSG MWD+IFR1+MS
11900.000	0.000	0.000	11776.267	42.338	0.000	42.331	0.000	14.421	0.000	0.000	42.418	42.251	133.862	OWSG MWD+IFR1+MS
12000.000	0.000	0.000	11876.267	42.686	0.000	42.678	0.000	14.566	0.000	0.000	42.766	42.598	133.630	OWSG MWD+IFR1+MS
12100.000	0.000	0.000	11976.267	43.035	0.000	43.026	0.000	14.715	0.000	0.000	43.115	42.946	133.405	OWSG MWD+IFR1+MS
12200.000	0.000	0.000	12076.267	43.384	0.000	43.373	0.000	14.867	0.000	0.000	43.464	43.294	133.187	OWSG MWD+IFR1+MS
12289.733	0.000	0.000	12166.000	43.697	0.000	43.685	0.000	15.006	0.000	0.000	43.777	43.606	132.996	OWSG MWD+IFR1+MS

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

CONDITIONS

Action 221722

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 221722
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
dmcclure	Approved together with Application ID: 465220	5/21/2025
dmcclure	Correct all past production for the well to the new pool.	5/21/2025
dmcclure	If cement is not circulated to surface during cementing operations, a Cement Bond Log (CBL) is required.	5/21/2025