

Well Name: POKER LAKE 23 DTD FEDERAL COM	Well Location: T24S / R30E / SEC 23 / SWNE /	County or Parish/State:
Well Number: 128H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMNM068905	Unit or CA Name:	Unit or CA Number:
US Well Number: 3001549645	Well Status: Approved Application for Permit to Drill	Operator: XTO PERMIAN OPERATING LLC

Notice of Intent

Sundry ID: 2682434

Type of Submission: Notice of Intent

Type of Action: Other

Date Sundry Submitted: 07/15/2022

Time Sundry Submitted: 06:09

Date proposed operation will begin: 08/14/2022

Procedure Description: **Surface hole location change, bottom hole location change, first and last take point changes XTO Permian Operating, LLC requests permission to make the following changes to the original APD: Change SHL from 1342’FNL & 1740’FEL Section 23-T24S-R30E to 837’FNL & 1713’FEL Section 2-T24S-R30E for drilling efficiencies and operational safety. No Additional Surface Disturbance. Change BHL from 200’FNL & 770’FEL to 200’FNL & 1430’FEL, Section 2-T24S-R30E Change FTP fr/100’FSL & 770’FEL to 100’FSL & 1430’FEL Change LTP fr/330’FNL & 770’FEL to 330’FNL & 1430’FEL Attachments: C102 Drilling Program Directional Plan

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

Poker_Lake_23_DTD_Federal_Com_128H_Attachments_20220715180837.pdf

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Conditions of Approval

Additional

Sec_23_24S_30E_NMP_2682434_Poker_Lake_Unit_23_DTD_Federal_Com_128H_Eddy_NMNM030452_COAs_2022
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Sec_23_24S_30E_NMP_2682434_Poker_Lake_Unit_23_DTD_Federal_Com_128H_Eddy_NMNM030452_XTO_13_22
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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: JUL 15, 2022 06:08 PM
Name: XTO PERMIAN OPERATING LLC
Title: Lead Regulatory Coordinator
Street Address: 6401 HOLIDAY HILL ROAD BLDG 5
City: MIDLAND **State:** TX
Phone: (970) 796-6048
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: 08/12/2022
Signature: Chris Walls

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 30-015-49645	² Pool Code 98220	³ Pool Name Purple Sage, Wolfcamp
⁴ Property Code 332954	⁵ Property Name POKER LAKE 23 DTD FEDERAL COM	⁶ Well Number 128H
⁷ OGRID No. 373075	⁸ Operator Name XTO PERMIAN OPERATING, LLC	⁹ Elevation 3,427'

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
B	23	24 S	30 E		837	NORTH	1,713	EAST	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
2	2	24 S	30 E		200	NORTH	1,430	EAST	EDDY

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
960.49			

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.

<p>¹⁶</p> <p>SHL (NAD83 NME) Y = 439,864.9 X = 691,285.9 LAT. = 32.208336 °N LONG. = 103.848513 °W</p> <p>FTP (NAD83 NME) Y = 440,803.1 X = 691,567.0 LAT. = 32.210911 °N LONG. = 103.847591 °W</p> <p>CORNER COORDINATES (NAD83 NME)</p> <p>A - Y = 440,695.8 N , X = 690,318.7 E B - Y = 443,332.7 N , X = 690,316.5 E C - Y = 445,969.1 N , X = 690,314.3 E D - Y = 448,606.1 N , X = 690,296.3 E E - Y = 451,241.1 N , X = 690,278.3 E F - Y = 453,878.5 N , X = 690,267.5 E G - Y = 456,518.6 N , X = 690,256.7 E H - Y = 440,703.6 N , X = 691,657.9 E I - Y = 443,341.5 N , X = 691,655.2 E J - Y = 445,982.8 N , X = 691,652.3 E K - Y = 448,617.4 N , X = 691,633.4 E L - Y = 451,254.5 N , X = 691,614.2 E M - Y = 453,892.0 N , X = 691,604.4 E N - Y = 456,529.5 N , X = 691,594.5 E</p> <p>SHL (NAD27 NME) Y = 439,805.9 X = 650,102.1 LAT. = 32.208212 °N LONG. = 103.848027 °W</p> <p>FTP (NAD27 NME) Y = 440,744.0 X = 650,383.2 LAT. = 32.210787 °N LONG. = 103.847105 °W</p> <p>CORNER COORDINATES (NAD27 NME)</p> <p>A - Y = 440,636.8 N , X = 649,135.0 E B - Y = 443,273.6 N , X = 649,132.9 E C - Y = 445,909.9 N , X = 649,130.8 E D - Y = 448,546.9 N , X = 649,112.8 E E - Y = 451,181.8 N , X = 649,094.9 E F - Y = 453,819.1 N , X = 649,084.2 E G - Y = 456,459.1 N , X = 649,073.5 E H - Y = 440,644.6 N , X = 650,474.1 E I - Y = 443,282.4 N , X = 650,471.5 E J - Y = 445,923.7 N , X = 650,468.7 E K - Y = 448,558.1 N , X = 650,449.9 E L - Y = 451,195.2 N , X = 650,430.8 E M - Y = 453,832.6 N , X = 650,421.1 E N - Y = 456,470.0 N , X = 650,411.3 E</p>	<p>SECTION 2 LOT 2 - 40.10 ACRES</p> <p>GRID AZ. = 359°45'50" HORIZ. DIST. = 15,525.80'</p> <p>GRID AZ. = 16°40'47" HORIZ. DIST. = 979.40'</p>	<p>¹⁷ OPERATOR CERTIFICATION</p> <p>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.</p> <p><i>Jessica Dooling</i> 7/11/2022 Signature Date</p> <p>Jessica Dooling Printed Name</p> <p>jessica.dooling@exxonmobil.com E-mail Address</p> <p>¹⁸ SURVEYOR CERTIFICATION</p> <p>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.</p> <p>7-7-2022 Date of Survey</p> <p>Signature and Seal of Professional Surveyor:</p> <p>MARK DILLON HARP 23786 Certificate Number</p> <p>AW 2021060773</p>
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DRILLING PLAN: BLM COMPLIANCE
(Supplement to BLM 3160-3)

XTO Energy Inc.

PLU 23 Dog Town Draw 128H

Projected TD: 27760' MD / 11632' TVD

SHL: 837' FNL & 1713' FEL , Section 23, T24S, R30E

BHL: 200' FNL & 1430' FEL , Section 2, T24S, R30E

Eddy County, NM

1. Geologic Name of Surface Formation

A. Quaternary

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

Formation	Well Depth (TVD)	Water/Oil/Gas
Rustler	513'	Water
Top of Salt	871'	Water
Base of Salt	3856'	Water
Delaware	4084'	Water
Brushy Canyon	6299'	Water/Oil/Gas
Bone Spring	7907'	Water
1st Bone Spring Ss	8912'	Water/Oil/Gas
2nd Bone Spring Ss	9667'	Water/Oil/Gas
3rd Bone Spring Ss	10854'	Water/Oil/Gas
Wolfcamp	11224'	Water/Oil/Gas
Wolfcamp X	11251'	Water/Oil/Gas
Wolfcamp Y	11322'	Water/Oil/Gas
Wolfcamp A	11386'	Water/Oil/Gas
Wolfcamp B	11822'	Water/Oil/Gas
Target/Land Curve	11632'	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 13.375 inch casing @ 613' (258' 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 9.625 inch casing at 10726' and cemented to surface. A 8.75 inch curve and 8.75 inch lateral hole will be drilled to 27760 MD/TD and 5.5 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 10426 feet).

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
17.5	0' – 613'	13.375	54.5	J-55	BTC	New	0.90	4.07	25.53
12.25	0' – 713'	9.625	40	HC P-110	BTC	New	1.80	11.76	2.94
12.25	713' – 10726'	9.625	40	HC L-80	BTC	New	1.31	1.25	2.29
8.75	0' – 10626'	5.5	23	RY P-110	Semi-Premium	New	1.21	2.29	1.67
8.75	10626' - 27760'	5.5	23	RY P-110	Semi-Premium	New	1.21	2.09	1.81

· 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

· 9.625 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: 13-5/8" 10M top flange x 13-3/8" SOW bottom

B. Tubing Head: 13-5/8" 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 9-5/8" casing per BLM Onshore Order 2
- Wellhead Manufacturer representative will not be present for BOP test plug installation

4. Cement Program

Surface Casing: 13.375, 54.5 New BTC, J-55 casing to be set at +/- 613'

Lead: 230 sxs EconoCem-HLTRRC (mixed at 12.9 ppg, 1.87 ft3/sx, 10.13 gal/sx water)

Tail: 300 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: 9.625, 40 New casing to be set at +/- 10726'

1st Stage

Optional Lead: 1060 sxs Class C (mixed at 10.5 ppg, 2.77 ft3/sx, 15.59 gal/sx water)

TOC: Surface

Tail: 1280 sxs Class C (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)

TOC: Brushy Canyon @ 6299

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: 2220 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 9-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brush Canyon (6299') 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.

Production Casing: 5.5, 23 New Semi-Premium, RY P-110 casing to be set at +/- 27760'

Lead: 60 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft3/sx, 15.00 gal/sx water) Top of Cement: 10426 feet

Tail: 3660 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft3/sx, 8.38 gal/sx water) Top of Cement: 10926 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 13.375 casing, the blow out preventer equipment (BOP) will consist of a 13-5/8" minimum 5M Hydral and a 13-5/8" minimum 5M Double Ram BOP. MASP should not exceed 4397 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 13.375, 5M bradenhead and flange, the BOP test will be limited to 5000 psi. When nipping up on the 9.625, 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' - 613'	17.5	FW/Native	8.7-9.2	35-40	NC
613' - 10726'	12.25	FW / Cut Brine / Direct Emulsion	9.7-10.2	30-32	NC
10726' - 27760'	8.75	OBM	11.5-12	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 13-3/8" 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 13.375 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 6956 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 23 Dog Town Draw 128H

Measured Depth: 27759.00 ft **Site:** PLU 23 DTD
PAD C

TVD RKB: 11632.00 ft

Location

Cartographic Reference System: New Mexico
East - NAD 27

Northing: 439803.78 ft

Easting: 650119.85 ft

RKB: 3462.00 ft

Ground Level: 3432.00 ft

North Reference: Grid

Convergence Angle: 0.26 Deg

Plan Sections PLU 23 Dog Town Draw 128H									
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)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2500.00	0.00	0.00	2500.00	0.00	0.00	0.00	0.00	0.00	
2714.61	4.29	82.31	2714.41	1.07	7.96	2.00	0.00	2.00	
6295.83	4.29	82.31	6285.59	36.92	273.58	0.00	0.00	0.00	
6510.44	0.00	0.00	6500.00	38.00	281.55	-2.00	0.00	2.00	
10926.44	0.00	0.00	10916.00	38.00	281.55	0.00	0.00	0.00	
12051.44	90.00	359.77	11632.20	754.19	278.74	8.00	0.00	8.00	PLU 23 DTD BHL 5
27759.89	90.00	359.77	11632.00	16462.51	217.15	0.00	0.00	0.00	PLU 23 DTD BHL 5

Planned Survey PLU 23 Dog Town Draw 128H						
Measured			TVD			
Depth	Inclination	Azimuth	RKB	Y Offset	X Offset	
(ft)	(Deg)	(Deg)	(ft)	(ft)	(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	0.000	0.000	1200.000	0.000	0.000
1300.000	0.000	0.000	1300.000	0.000	0.000
1400.000	0.000	0.000	1400.000	0.000	0.000
1500.000	0.000	0.000	1500.000	0.000	0.000
1600.000	0.000	0.000	1600.000	0.000	0.000
1700.000	0.000	0.000	1700.000	0.000	0.000
1800.000	0.000	0.000	1800.000	0.000	0.000
1900.000	0.000	0.000	1900.000	0.000	0.000
2000.000	0.000	0.000	2000.000	0.000	0.000
2100.000	0.000	0.000	2100.000	0.000	0.000
2200.000	0.000	0.000	2200.000	0.000	0.000
2300.000	0.000	0.000	2300.000	0.000	0.000
2400.000	0.000	0.000	2400.000	0.000	0.000
2500.000	0.000	0.000	2500.000	0.000	0.000
2600.000	1.999	82.310	2599.980	0.230	1.730
2700.000	4.000	82.310	2699.838	0.930	6.910
2714.600	4.292	82.310	2714.413	1.070	7.960
2800.000	4.292	82.310	2799.560	1.920	14.290
2900.000	4.292	82.310	2899.279	2.930	21.710
3000.000	4.292	82.310	2998.999	3.930	29.130
3100.000	4.292	82.310	3098.718	4.930	36.540
3200.000	4.292	82.310	3198.438	5.930	43.960
3300.000	4.292	82.310	3298.157	6.930	51.380
3400.000	4.292	82.310	3397.877	7.930	58.800
3500.000	4.292	82.310	3497.596	8.930	66.210
3600.000	4.292	82.310	3597.316	9.930	73.630
3700.000	4.292	82.310	3697.036	10.930	81.050
3800.000	4.292	82.310	3796.755	11.940	88.460
3900.000	4.292	82.310	3896.475	12.940	95.880
4000.000	4.292	82.310	3996.194	13.940	103.300
4100.000	4.292	82.310	4095.914	14.940	110.720
4200.000	4.292	82.310	4195.633	15.940	118.130
4300.000	4.292	82.310	4295.353	16.940	125.550

4400.000	4.292	82.310	4395.072	17.940	132.970
4500.000	4.292	82.310	4494.792	18.940	140.380
4600.000	4.292	82.310	4594.511	19.940	147.800
4700.000	4.292	82.310	4694.231	20.950	155.220
4800.000	4.292	82.310	4793.950	21.950	162.640
4900.000	4.292	82.310	4893.670	22.950	170.050
5000.000	4.292	82.310	4993.389	23.950	177.470
5100.000	4.292	82.310	5093.109	24.950	184.890
5200.000	4.292	82.310	5192.828	25.950	192.300
5300.000	4.292	82.310	5292.548	26.950	199.720
5400.000	4.292	82.310	5392.267	27.950	207.140
5500.000	4.292	82.310	5491.987	28.950	214.560
5600.000	4.292	82.310	5591.706	29.950	221.970
5700.000	4.292	82.310	5691.426	30.960	229.390
5800.000	4.292	82.310	5791.146	31.960	236.810
5900.000	4.292	82.310	5890.865	32.960	244.220
6000.000	4.292	82.310	5990.585	33.960	251.640
6100.000	4.292	82.310	6090.304	34.960	259.060
6200.000	4.292	82.310	6190.024	35.960	266.480
6295.800	4.292	82.310	6285.587	36.920	273.580
6300.000	4.208	82.310	6289.743	36.960	273.890
6400.000	2.208	82.310	6389.581	37.710	279.440
6500.000	0.209	82.310	6489.554	37.990	281.530
6510.400	0.000	0.000	6500.000	38.000	281.550
6600.000	0.000	0.000	6589.554	38.000	281.550
6700.000	0.000	0.000	6689.554	38.000	281.550
6800.000	0.000	0.000	6789.554	38.000	281.550
6900.000	0.000	0.000	6889.554	38.000	281.550
7000.000	0.000	0.000	6989.554	38.000	281.550
7100.000	0.000	0.000	7089.554	38.000	281.550
7200.000	0.000	0.000	7189.554	38.000	281.550
7300.000	0.000	0.000	7289.554	38.000	281.550
7400.000	0.000	0.000	7389.554	38.000	281.550
7500.000	0.000	0.000	7489.554	38.000	281.550
7600.000	0.000	0.000	7589.554	38.000	281.550
7700.000	0.000	0.000	7689.554	38.000	281.550
7800.000	0.000	0.000	7789.554	38.000	281.550
7900.000	0.000	0.000	7889.554	38.000	281.550
8000.000	0.000	0.000	7989.554	38.000	281.550
8100.000	0.000	0.000	8089.554	38.000	281.550
8200.000	0.000	0.000	8189.554	38.000	281.550
8300.000	0.000	0.000	8289.554	38.000	281.550

8400.000	0.000	0.000	8389.554	38.000	281.550
8500.000	0.000	0.000	8489.554	38.000	281.550
8600.000	0.000	0.000	8589.554	38.000	281.550
8700.000	0.000	0.000	8689.554	38.000	281.550
8800.000	0.000	0.000	8789.554	38.000	281.550
8900.000	0.000	0.000	8889.554	38.000	281.550
9000.000	0.000	0.000	8989.554	38.000	281.550
9100.000	0.000	0.000	9089.554	38.000	281.550
9200.000	0.000	0.000	9189.554	38.000	281.550
9300.000	0.000	0.000	9289.554	38.000	281.550
9400.000	0.000	0.000	9389.554	38.000	281.550
9500.000	0.000	0.000	9489.554	38.000	281.550
9600.000	0.000	0.000	9589.554	38.000	281.550
9700.000	0.000	0.000	9689.554	38.000	281.550
9800.000	0.000	0.000	9789.554	38.000	281.550
9900.000	0.000	0.000	9889.554	38.000	281.550
10000.000	0.000	0.000	9989.554	38.000	281.550
10100.000	0.000	0.000	10089.554	38.000	281.550
10200.000	0.000	0.000	10189.554	38.000	281.550
10300.000	0.000	0.000	10289.554	38.000	281.550
10400.000	0.000	0.000	10389.554	38.000	281.550
10500.000	0.000	0.000	10489.554	38.000	281.550
10600.000	0.000	0.000	10589.554	38.000	281.550
10700.000	0.000	0.000	10689.554	38.000	281.550
10800.000	0.000	0.000	10789.554	38.000	281.550
10900.000	0.000	0.000	10889.554	38.000	281.550
10926.000	0.000	0.000	10916.000	38.000	281.550
11000.000	5.884	359.700	10989.425	41.770	281.530
11100.000	13.880	359.700	11087.861	58.920	281.470
11200.000	21.880	359.700	11182.951	89.610	281.340
11300.000	29.880	359.700	11272.846	133.230	281.170
11400.000	37.880	359.700	11355.795	188.930	280.960
11500.000	45.880	359.700	11430.184	255.640	280.690
11600.000	53.880	359.700	11494.565	332.050	280.390
11700.000	61.880	359.700	11547.685	416.680	280.060
11800.000	69.880	359.700	11588.509	507.880	279.700
11900.000	77.880	359.700	11616.245	603.870	279.330
12000.000	85.880	359.700	11630.350	702.790	278.940
12051.000	90.000	359.700	11632.197	754.190	278.740
12100.000	90.000	359.700	11632.197	802.740	278.550
12200.000	90.000	359.700	11632.197	902.740	278.160
12300.000	90.000	359.700	11632.197	1002.740	277.760

12400.000	90.000	359.700	11632.197	1102.740	277.370
12500.000	90.000	359.700	11632.197	1202.740	276.980
12600.000	90.000	359.700	11632.197	1302.740	276.590
12700.000	90.000	359.700	11632.197	1402.740	276.200
12800.000	90.000	359.700	11632.197	1502.740	275.800
12900.000	90.000	359.700	11632.197	1602.730	275.410
13000.000	90.000	359.700	11632.197	1702.730	275.020
13100.000	90.000	359.700	11632.197	1802.730	274.630
13200.000	90.000	359.700	11632.197	1902.730	274.240
13300.000	90.000	359.700	11632.197	2002.730	273.840
13400.000	90.000	359.700	11632.197	2102.730	273.450
13500.000	90.000	359.700	11632.197	2202.730	273.060
13600.000	90.000	359.700	11632.197	2302.730	272.670
13700.000	90.000	359.700	11632.197	2402.730	272.270
13800.000	90.000	359.700	11632.197	2502.730	271.880
13900.000	90.000	359.700	11632.197	2602.730	271.490
14000.000	90.000	359.700	11632.197	2702.730	271.100
14100.000	90.000	359.700	11632.197	2802.730	270.710
14200.000	90.000	359.700	11632.197	2902.720	270.310
14300.000	90.000	359.700	11632.197	3002.720	269.920
14400.000	90.000	359.700	11632.197	3102.720	269.530
14500.000	90.000	359.700	11632.197	3202.720	269.140
14600.000	90.000	359.700	11632.197	3302.720	268.750
14700.000	90.000	359.700	11632.197	3402.720	268.350
14800.000	90.000	359.700	11632.197	3502.720	267.960
14900.000	90.000	359.700	11632.197	3602.720	267.570
15000.000	90.000	359.700	11632.197	3702.720	267.180
15100.000	90.000	359.700	11632.197	3802.720	266.790
15200.000	90.000	359.700	11632.197	3902.720	266.390
15300.000	90.000	359.700	11632.197	4002.720	266.000
15400.000	90.000	359.700	11632.197	4102.720	265.610
15500.000	90.000	359.700	11632.197	4202.710	265.220
15600.000	90.000	359.700	11632.197	4302.710	264.830
15700.000	90.000	359.700	11632.197	4402.710	264.430
15800.000	90.000	359.700	11632.197	4502.710	264.040
15900.000	90.000	359.700	11632.197	4602.710	263.650
16000.000	90.000	359.700	11632.197	4702.710	263.260
16100.000	90.000	359.700	11632.197	4802.710	262.860
16200.000	90.000	359.700	11632.197	4902.710	262.470
16300.000	90.000	359.700	11632.197	5002.710	262.080
16400.000	90.000	359.700	11632.197	5102.710	261.690
16500.000	90.000	359.700	11632.197	5202.710	261.300

16600.000	90.000	359.700	11632.197	5302.710	260.900
16700.000	90.000	359.700	11632.197	5402.710	260.510
16800.000	90.000	359.700	11632.197	5502.700	260.120
16900.000	90.000	359.700	11632.197	5602.700	259.730
17000.000	90.000	359.700	11632.197	5702.700	259.340
17100.000	90.000	359.700	11632.197	5802.700	258.940
17200.000	90.000	359.700	11632.197	5902.700	258.550
17300.000	90.000	359.700	11632.197	6002.700	258.160
17400.000	90.000	359.700	11632.197	6102.700	257.770
17500.000	90.000	359.700	11632.197	6202.700	257.380
17600.000	90.000	359.700	11632.197	6302.700	256.980
17700.000	90.000	359.700	11632.197	6402.700	256.590
17800.000	90.000	359.700	11632.197	6502.700	256.200
17900.000	90.000	359.700	11632.197	6602.700	255.810
18000.000	90.000	359.700	11632.197	6702.700	255.410
18100.000	90.000	359.700	11632.197	6802.690	255.020
18200.000	90.000	359.700	11632.197	6902.690	254.630
18300.000	90.000	359.700	11632.197	7002.690	254.240
18400.000	90.000	359.700	11632.197	7102.690	253.850
18500.000	90.000	359.700	11632.197	7202.690	253.450
18600.000	90.000	359.700	11632.197	7302.690	253.060
18700.000	90.000	359.700	11632.197	7402.690	252.670
18800.000	90.000	359.700	11632.197	7502.690	252.280
18900.000	90.000	359.700	11632.197	7602.690	251.890
19000.000	90.000	359.700	11632.197	7702.690	251.490
19100.000	90.000	359.700	11632.197	7802.690	251.100
19200.000	90.000	359.700	11632.197	7902.690	250.710
19300.000	90.000	359.700	11632.197	8002.690	250.320
19400.000	90.000	359.700	11632.197	8102.680	249.930
19500.000	90.000	359.700	11632.197	8202.680	249.530
19600.000	90.000	359.700	11632.197	8302.680	249.140
19700.000	90.000	359.700	11632.197	8402.680	248.750
19800.000	90.000	359.700	11632.197	8502.680	248.360
19900.000	90.000	359.700	11632.197	8602.680	247.960
20000.000	90.000	359.700	11632.197	8702.680	247.570
20100.000	90.000	359.700	11632.197	8802.680	247.180
20200.000	90.000	359.700	11632.197	8902.680	246.790
20300.000	90.000	359.700	11632.197	9002.680	246.400
20400.000	90.000	359.700	11632.197	9102.680	246.000
20500.000	90.000	359.700	11632.197	9202.680	245.610
20600.000	90.000	359.700	11632.197	9302.680	245.220
20700.000	90.000	359.700	11632.197	9402.670	244.830

20800.000	90.000	359.700	11632.197	9502.670	244.440
20900.000	90.000	359.700	11632.197	9602.670	244.040
21000.000	90.000	359.700	11632.197	9702.670	243.650
21100.000	90.000	359.700	11632.197	9802.670	243.260
21200.000	90.000	359.700	11632.197	9902.670	242.870
21300.000	90.000	359.700	11632.197	10002.670	242.480
21400.000	90.000	359.700	11632.197	10102.670	242.080
21500.000	90.000	359.700	11632.197	10202.670	241.690
21600.000	90.000	359.700	11632.197	10302.670	241.300
21700.000	90.000	359.700	11632.197	10402.670	240.910
21800.000	90.000	359.700	11632.197	10502.670	240.510
21900.000	90.000	359.700	11632.197	10602.670	240.120
22000.000	90.000	359.700	11632.197	10702.660	239.730
22100.000	90.000	359.700	11632.197	10802.660	239.340
22200.000	90.000	359.700	11632.197	10902.660	238.950
22300.000	90.000	359.700	11632.197	11002.660	238.550
22400.000	90.000	359.700	11632.197	11102.660	238.160
22500.000	90.000	359.700	11632.197	11202.660	237.770
22600.000	90.000	359.700	11632.197	11302.660	237.380
22700.000	90.000	359.700	11632.197	11402.660	236.990
22800.000	90.000	359.700	11632.197	11502.660	236.590
22900.000	90.000	359.700	11632.197	11602.660	236.200
23000.000	90.000	359.700	11632.197	11702.660	235.810
23100.000	90.000	359.700	11632.197	11802.660	235.420
23200.000	90.000	359.700	11632.197	11902.660	235.030
23300.000	90.000	359.700	11632.197	12002.650	234.630
23400.000	90.000	359.700	11632.197	12102.650	234.240
23500.000	90.000	359.700	11632.197	12202.650	233.850
23600.000	90.000	359.700	11632.197	12302.650	233.460
23700.000	90.000	359.700	11632.197	12402.650	233.060
23800.000	90.000	359.700	11632.197	12502.650	232.670
23900.000	90.000	359.700	11632.197	12602.650	232.280
24000.000	90.000	359.700	11632.197	12702.650	231.890
24100.000	90.000	359.700	11632.197	12802.650	231.500
24200.000	90.000	359.700	11632.197	12902.650	231.100
24300.000	90.000	359.700	11632.197	13002.650	230.710
24400.000	90.000	359.700	11632.197	13102.650	230.320
24500.000	90.000	359.700	11632.197	13202.650	229.930
24600.000	90.000	359.700	11632.197	13302.640	229.540
24700.000	90.000	359.700	11632.197	13402.640	229.140
24800.000	90.000	359.700	11632.197	13502.640	228.750
24900.000	90.000	359.700	11632.197	13602.640	228.360

25000.000	90.000	359.700	11632.197	13702.640	227.970
25100.000	90.000	359.700	11632.197	13802.640	227.580
25200.000	90.000	359.700	11632.197	13902.640	227.180
25300.000	90.000	359.700	11632.197	14002.640	226.790
25400.000	90.000	359.700	11632.197	14102.640	226.400
25500.000	90.000	359.700	11632.197	14202.640	226.010
25600.000	90.000	359.700	11632.197	14302.640	225.610
25700.000	90.000	359.700	11632.197	14402.640	225.220
25800.000	90.000	359.700	11632.197	14502.640	224.830
25900.000	90.000	359.700	11632.197	14602.630	224.440
26000.000	90.000	359.700	11632.197	14702.630	224.050
26100.000	90.000	359.700	11632.197	14802.630	223.650
26200.000	90.000	359.700	11632.197	14902.630	223.260
26300.000	90.000	359.700	11632.197	15002.630	222.870
26400.000	90.000	359.700	11632.197	15102.630	222.480
26500.000	90.000	359.700	11632.197	15202.630	222.090
26600.000	90.000	359.700	11632.197	15302.630	221.690
26700.000	90.000	359.700	11632.197	15402.630	221.300
26800.000	90.000	359.700	11632.197	15502.630	220.910
26900.000	90.000	359.700	11632.197	15602.630	220.520
27000.000	90.000	359.700	11632.197	15702.630	220.130
27100.000	90.000	359.700	11632.197	15802.630	219.730
27200.000	90.000	359.700	11632.197	15902.620	219.340
27300.000	90.000	359.700	11632.197	16002.620	218.950
27400.000	90.000	359.700	11632.197	16102.620	218.560
27500.000	90.000	359.700	11632.197	16202.620	218.160
27600.000	90.000	359.700	11632.197	16302.620	217.770
27700.000	90.000	359.700	11632.197	16402.620	217.380
27759.000	90.000	359.700	11632.000	16462.510	217.150

Plan Targets		PLU 23 Dog Town Draw 128H			
Target Name	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape
PLU 23 DTD FTP 5	12235.79	440742.15	650401.40	8170.00	CIRCLE
PLU 23 DTD LTP 5	27630.02	456136.42	650337.28	8170.00	CIRCLE
PLU 23 DTD BHL 5	27759.89	456266.29	650337.00	8170.00	CIRCLE

Sec 23-24S-30E-NMP 2682434 Poker Lake Unit 23 DTD Federal Com 128H Eddy NMNM030452 XTO 13-22 44783 AM

Poker Lake Unit 23 DTD Federal Com 128H

9 5/8	surface csg in a	12 1/4	inch hole.	Design Factors					Surface		
Segment	#/ft	Grade	Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	40.00	J 55	BTC	25.69	8.77	10.46	613	14	17.88	16.25	24,520
"B"			BTC				0				0
w/8.4#/g mud, 30min Sfc Csg Test psig: 1,500				Tail Cmt	does not	circ to sfc.	Totals:	613			24,520
Comparison of Proposed to Minimum Required Cement Volumes											
Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE			Min Dist Hole-Cplg
12 1/4	0.3132	530	835	192	335	9.20	221	2M			0.81
Site plat (pipe racks S or E) as per O.O.D.I.I.D.4.1. not found.											

Proposed

7 5/8		casing inside the		9 5/8		Design Factors				Int 1		
Segment	#/ft	Grade		Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	29.70	RY P 110		Flush Joint	26.35	14.16	1.43	713	25	2.21	24.22	21,176
"B"	29.70	HCL 80		Flush Joint	∞	15.30	1.04	10,013	18	1.61	26.16	297,386
w/8.4#/g mud, 30min Sfc Csg Test psig:								Totals:	10,726	318,562		
The cement volume(s) are intended to achieve a top of						0	ft from surface or a		613	overlap.		
Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE			Min Dist Hole-Cplg	
8 3/4	0.1005	2340	4664	1083	331	10.20	4286	5M			0.56	

Tail cmt

5 1/2 casing inside the 7 5/8			Design Factors					Prod 1			
Segment	#/ft	Grade	Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	20.00	RY P 110	Semi-Premiur	3.02	1.68	1.91	10,626	2	2.95	2.59	212,520
"B"	20.00	RY P 110	Semi-Flush	∞	1.68	1.91	17,134	2	2.95	2.59	342,680
w/8.4#/g mud, 30min Sfc Csg Test psig: 2,338							Totals:	27,760			555,200
The cement volume(s) are intended to achieve a top of					10400	ft from surface or a		326			overlap.
Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE			Min Dist Hole-Cplg
6 3/4	0.0835	3720	5688	1453	291	12.00					0.23
Class 'C' tail cmt yld > 1.35											

#N/A

0		5 1/2			Design Factors				<Choose Casing>		
Segment	#/ft	Grade	Coupling	#N/A	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"			0.00				0				0
"B"			0.00				0				0
w/8.4#/g mud, 30min Sfc Csg Test psig:							Totals:	0			0
Cmt vol calc below includes this csg, TOC intended				#N/A	ft from surface or a		#N/A				overlap.
Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE			Min Dist Hole-Cplg
0		#N/A	#N/A	0	#N/A						
#N/A Capitan Reef est top XXXX.											

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO Permian Operating
WELL NAME & NO.:	Poker Lake Unit 23 DTD Federal Com 128H
LOCATION:	Sec 23-24S-30E-NMP
COUNTY:	Eddy County, New Mexico

Updated COAs per Sundry 2682434; approved through engineering on August 08, 2022.

COA

H2S	<input type="radio"/> Yes	<input checked="" type="radio"/> No	
Potash	<input checked="" type="radio"/> None	<input type="radio"/> Secretary	<input type="radio"/> R-111-P
Cave/Karst Potential	<input checked="" type="radio"/> Low	<input type="radio"/> Medium	<input type="radio"/> High
Cave/Karst Potential	<input type="radio"/> Critical		
Variance	<input type="radio"/> None	<input checked="" type="radio"/> Flex Hose	<input type="radio"/> Other
Wellhead	<input type="radio"/> Conventional	<input checked="" type="radio"/> Multibowl	<input type="radio"/> Both
Other	<input type="checkbox"/> 4 String Area	<input type="checkbox"/> Capitan Reef	<input type="checkbox"/> WIPP
Other	<input type="checkbox"/> Fluid Filled	<input type="checkbox"/> Cement Squeeze	<input type="checkbox"/> Pilot Hole
Special Requirements	<input type="checkbox"/> Water Disposal	<input checked="" type="checkbox"/> COM	<input type="checkbox"/> Unit

A. HYDROGEN SULFIDE

Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

1. The **9-5/8** inch surface casing shall be set at approximately 620 feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite and above the salt) 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 a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
 - b. Second stage above DV tool:
 - Cement to surface. If cement does not circulate, contact the appropriate BLM office.
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 surface casing shoe shall be **5000 (5M)** psi.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.

- e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i 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.
- 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.

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

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,
(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 2nd 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 Onshore Oil and Gas Order No. 2 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 Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
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 OOGO2.III.A.2.i 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 when specified), 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 plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
 - c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 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 Onshore Order No. 2.

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.

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 134399

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 134399
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
kpickford	Adhere to previous NMOCD Conditions of Approval	8/18/2022