

Well Name: POKER LAKE 23 DTD FEDERAL COM	Well Location: T24S / R30E / SEC 23 / NENW /	County or Parish/State:
Well Number: 176H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMNM030452	Unit or CA Name: POKER LAKE	Unit or CA Number: NMNM071016X
US Well Number: 3001549652	Well Status: Approved Application for Permit to Drill	Operator: XTO PERMIAN OPERATING LLC

Notice of Intent

Sundry ID: 2682438

Type of Submission: Notice of Intent

Date Sundry Submitted: 07/15/2022

Date proposed operation will begin: 08/14/2022

Type of Action: Other

Time Sundry Submitted: 06:22

Procedure Description: **Well name 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 well name from Poker Lake Unit 23 DTD to Poker Lake 23 DTD Federal Com No Additional Surface Disturbance. Change BHL from 200'FNL & 2530'FEL to 200'FNL & 2530'FWL, Section 2-T24S-R30E for drilling efficiencies and operational safety. Change FTP fr/100'FSL & 2530'FEL to 100'FSL & 2530'FWL Change LTP fr/330'FNL & 2530'FEL to 330'FNL & 2530'FWL 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_176H_Attachments_20220715182157.pdf

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Conditions of Approval

Additional

Sec_23_24S_30E_NMP_2682438_Poker_Lake_Unit_23_DTD_Federal_Com_176H_Eddy_NMNM068905_XTO_13_22_44787_AM_20220814124009.pdf

Sec_23_24S_30E_NMP_2682438_Poker_Lake_Unit_23_DTD_Federal_Com_176H_Eddy_NMNM030452_COAs_20220814124009.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: JESSICA DOOLING	Signed on: JUL 15, 2022 06:22 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: 08/22/2022
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 30-015-49652	² Pool Code 98220	³ Pool Name Purple Sage; Wolfcamp
⁴ Property Code 325598	⁵ Property Name POKER LAKE 23 DTD FEDERAL COM	⁶ Well Number 176H
⁷ OGRID No. 373075	⁸ Operator Name XTO PERMIAN OPERATING, LLC	⁹ Elevation 3,426'

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	23	24 S	30 E		337	NORTH	2,312	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
3	2	24 S	30 E		200	NORTH	2,530	WEST	EDDY

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
960.6			

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 = 440,356.5 X = 689,956.9 LAT. = 32.209704 °N LONG. = 103.852803 °W</p> <p>FTP (NAD83 NME) Y = 440,794.7 X = 690,173.5 LAT. = 32.210906 °N LONG. = 103.852096 °W</p> <p>CORNER COORDINATES (NAD83 NME) A - Y = 440,695.8 N B - Y = 443,332.7 N C - Y = 445,969.1 N D - Y = 448,606.1 N E - Y = 451,241.1 N F - Y = 453,878.5 N G - Y = 456,518.6 N H - Y = 440,685.6 N I - Y = 443,323.9 N J - Y = 445,958.8 N K - Y = 448,594.8 N L - Y = 451,229.1 N M - Y = 453,865.0 N N - Y = 456,509.0 N</p> <p>SHL (NAD27 NME) Y = 440,297.5 X = 648,773.1 LAT. = 32.209580 °N LONG. = 103.852317 °W</p> <p>FTP (NAD27 NME) Y = 440,735.7 X = 648,989.8 LAT. = 32.210782 °N LONG. = 103.851610 °W</p> <p>CORNER COORDINATES (NAD27 NME) A - Y = 440,636.8 N B - Y = 443,273.6 N C - Y = 445,909.9 N D - Y = 448,546.9 N E - Y = 451,181.8 N F - Y = 453,819.1 N G - Y = 456,459.1 N H - Y = 440,626.6 N I - Y = 443,264.7 N J - Y = 445,899.6 N K - Y = 448,535.6 N L - Y = 451,169.8 N M - Y = 453,805.6 N N - Y = 456,449.5 N</p>	<p>LTP (NAD83 NME) Y = 456,187.5 X = 690,114.6 LAT. = 32.253218 °N LONG. = 103.852064 °W</p> <p>BHL (NAD83 NME) Y = 456,317.5 X = 690,113.9 LAT. = 32.253576 °N LONG. = 103.852064 °W</p> <p>GRID AZ. = 359°46'48" HORIZ. DIST. = 15,522.96'</p> <p>GRID AZ. = 26°18'31" HORIZ. DIST. = 488.82'</p> <p>LOT ACREAGE TABLE SECTION 2 LOT 3 - 40.23 ACRES</p> <p>SEC. 34 SEC. 35 SEC. 36 SEC. 3 SEC. 11 SEC. 12 SEC. 10 SEC. 14 SEC. 13 SEC. 15 SEC. 23 SEC. 24</p> <p>LOT 34 LOT 35 LOT 36 LOT 37 LOT 38 LOT 39 LOT 40</p> <p>SEC. 3 SEC. 11 SEC. 12 SEC. 10 SEC. 14 SEC. 13 SEC. 15 SEC. 23 SEC. 24</p> <p>SEC. 3 SEC. 11 SEC. 12 SEC. 10 SEC. 14 SEC. 13 SEC. 15 SEC. 23 SEC. 24</p>	<p>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.</p> <p>Jessica Dooling 7/11/2022 Signature Date Printed Name jessica.dooling@exxonmobil.com E-mail Address</p> <p>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.</p> <p>06-30-2022 Date of Survey Signature and Seal of Professional Surveyor: MARK DILLON HARP 23786 Certificate Number AW 2021060769</p> <p>MARK DILLON HARP NEW MEXICO 23786 PROFESSIONAL SURVEYOR</p>
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DRILLING PLAN: BLM COMPLIANCE
(Supplement to BLM 3160-3)

XTO Energy Inc.

PLU 23 Dog Town Draw 176H

Projected TD: 27394' MD / 11248' TVD

SHL: 337' FNL & 2312' FWL , Section 23, T24S, R30E

BHL: 200' FNL & 2530' FWL , 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	538'	Water
Top of Salt	900'	Water
Base of Salt	3841'	Water
Delaware	4067'	Water
Brushy Canyon	6268'	Water/Oil/Gas
Bone Spring	7878'	Water
1st Bone Spring Ss	8879'	Water/Oil/Gas
2nd Bone Spring Ss	9635'	Water/Oil/Gas
3rd Bone Spring Ss	10807'	Water/Oil/Gas
Wolfcamp	11179'	Water/Oil/Gas
Wolfcamp X	11207'	Water/Oil/Gas
Wolfcamp Y	11285'	Water/Oil/Gas
Wolfcamp A	11338'	Water/Oil/Gas
Target/Land Curve	11248'	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 @ 638' (262' 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 10363' and cemented to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 27394 MD/TD and 5.5 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 10063 feet).

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0' – 638'	9.625	40	J-55	BTC	New	1.34	8.90	24.69
8.75	0' – 4000'	7.625	29.7	RY P-110	Flush Joint	New	2.22	2.65	1.81
8.75	4000' – 10363'	7.625	29.7	HC L-80	Flush Joint	New	1.62	1.93	2.15
6.75	0' – 10263'	5.5	20	RY P-110	Semi-Premium	New	1.05	1.81	1.86
6.75	10263' - 27394'	5.5	20	RY P-110	Semi-Flush	New	1.05	1.65	1.86

- 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 +/- 638'

Lead: 110 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 +/- 10363'

1st Stage

Optional Lead: 340 sxs Class C (mixed at 10.5 ppg, 2.77 ft³/sx, 15.59 gal/sx water)

TOC: Surface

Tail: 380 sxs Class C (mixed at 14.8 ppg, 1.35 ft³/sx, 6.39 gal/sx water)

TOC: Brushy Canyon @ 6268

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: 710 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 (6268') 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, 20 New Semi-Flush, RY P-110 casing to be set at +/- 27394'

Lead: 20 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft³/sx, 15.00 gal/sx water) Top of Cement: 10063 feet

Tail: 1210 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft³/sx, 8.38 gal/sx water) Top of Cement: 10563 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 Hydral and a 13-5/8" minimum 5M Double Ram BOP. MASP should not exceed 4252 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' - 638'	12.25	FW/Native	8.7-9.2	35-40	NC
638' - 10363'	8.75	FW / Cut Brine / Direct Emulsion	9.7-10.2	30-32	NC
10363' - 27394'	6.75	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 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 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 6726 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 176H

Measured Depth: 27393.00 ft **Site:** PLU 23 DTD
PAD B

TVD RKB: 11248.00 ft

Location

Cartographic Reference System: New Mexico
East - NAD 27

Northing: 440295.81 ft

Easting: 648788.57 ft

RKB: 3458.00 ft

Ground Level: 3428.00 ft

North Reference: Grid

Convergence Angle: 0.26 Deg

Plan Sections PLU 23 Dog Town Draw 176H									
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	
2851.46	7.03	154.85	2850.58	-19.49	9.15	2.00	0.00	2.00	
6679.07	7.03	154.85	6649.42	-443.51	208.18	0.00	0.00	0.00	
7030.53	0.00	0.00	7000.00	-463.00	217.33	-2.00	0.00	2.00	
10562.53	0.00	0.00	10532.00	-463.00	217.33	0.00	0.00	0.00	
11687.53	90.00	359.79	11248.20	253.19	214.72	8.00	0.00	8.00	PLU 23 DTD BHL 8
27393.92	90.00	359.79	11248.00	15959.48	157.61	0.00	0.00	0.00	PLU 23 DTD BHL 8

Planned Survey PLU 23 Dog Town Draw 176H						
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	154.800	2599.980	-1.580	0.740
2700.000	4.000	154.800	2699.838	-6.320	2.960
2800.000	6.000	154.800	2799.452	-14.210	6.670
2851.400	7.029	154.800	2850.580	-19.490	9.150
2900.000	7.029	154.800	2898.754	-24.870	11.670
3000.000	7.029	154.800	2998.003	-35.950	16.870
3100.000	7.029	154.800	3097.251	-47.030	22.070
3200.000	7.029	154.800	3196.499	-58.100	27.270
3300.000	7.029	154.800	3295.748	-69.180	32.470
3400.000	7.029	154.800	3394.996	-80.260	37.670
3500.000	7.029	154.800	3494.245	-91.340	42.870
3600.000	7.029	154.800	3593.493	-102.420	48.070
3700.000	7.029	154.800	3692.741	-113.490	53.270
3800.000	7.029	154.800	3791.990	-124.570	58.470
3900.000	7.029	154.800	3891.238	-135.650	63.670
4000.000	7.029	154.800	3990.486	-146.730	68.870
4100.000	7.029	154.800	4089.735	-157.810	74.070
4200.000	7.029	154.800	4188.983	-168.880	79.270
4300.000	7.029	154.800	4288.232	-179.960	84.470

4400.000	7.029	154.800	4387.480	-191.040	89.670
4500.000	7.029	154.800	4486.728	-202.120	94.870
4600.000	7.029	154.800	4585.977	-213.190	100.070
4700.000	7.029	154.800	4685.225	-224.270	105.270
4800.000	7.029	154.800	4784.474	-235.350	110.470
4900.000	7.029	154.800	4883.722	-246.430	115.670
5000.000	7.029	154.800	4982.970	-257.510	120.870
5100.000	7.029	154.800	5082.219	-268.580	126.070
5200.000	7.029	154.800	5181.467	-279.660	131.270
5300.000	7.029	154.800	5280.715	-290.740	136.470
5400.000	7.029	154.800	5379.964	-301.820	141.670
5500.000	7.029	154.800	5479.212	-312.900	146.870
5600.000	7.029	154.800	5578.461	-323.970	152.070
5700.000	7.029	154.800	5677.709	-335.050	157.270
5800.000	7.029	154.800	5776.957	-346.130	162.470
5900.000	7.029	154.800	5876.206	-357.210	167.670
6000.000	7.029	154.800	5975.454	-368.280	172.870
6100.000	7.029	154.800	6074.703	-379.360	178.070
6200.000	7.029	154.800	6173.951	-390.440	183.270
6300.000	7.029	154.800	6273.199	-401.520	188.470
6400.000	7.029	154.800	6372.448	-412.600	193.670
6500.000	7.029	154.800	6471.696	-423.670	198.870
6600.000	7.029	154.800	6570.945	-434.750	204.070
6679.000	7.029	154.800	6649.420	-443.510	208.180
6700.000	6.610	154.800	6670.202	-445.760	209.240
6800.000	4.610	154.800	6769.718	-454.610	213.390
6900.000	2.610	154.800	6869.514	-460.310	216.060
7000.000	0.611	154.800	6969.470	-462.860	217.260
7030.500	0.000	0.000	7000.000	-463.000	217.330
7100.000	0.000	0.000	7069.469	-463.000	217.330
7200.000	0.000	0.000	7169.469	-463.000	217.330
7300.000	0.000	0.000	7269.469	-463.000	217.330
7400.000	0.000	0.000	7369.469	-463.000	217.330
7500.000	0.000	0.000	7469.469	-463.000	217.330
7600.000	0.000	0.000	7569.469	-463.000	217.330
7700.000	0.000	0.000	7669.469	-463.000	217.330
7800.000	0.000	0.000	7769.469	-463.000	217.330
7900.000	0.000	0.000	7869.469	-463.000	217.330
8000.000	0.000	0.000	7969.469	-463.000	217.330
8100.000	0.000	0.000	8069.469	-463.000	217.330
8200.000	0.000	0.000	8169.469	-463.000	217.330
8300.000	0.000	0.000	8269.469	-463.000	217.330

8400.000	0.000	0.000	8369.469	-463.000	217.330
8500.000	0.000	0.000	8469.469	-463.000	217.330
8600.000	0.000	0.000	8569.469	-463.000	217.330
8700.000	0.000	0.000	8669.469	-463.000	217.330
8800.000	0.000	0.000	8769.469	-463.000	217.330
8900.000	0.000	0.000	8869.469	-463.000	217.330
9000.000	0.000	0.000	8969.469	-463.000	217.330
9100.000	0.000	0.000	9069.469	-463.000	217.330
9200.000	0.000	0.000	9169.469	-463.000	217.330
9300.000	0.000	0.000	9269.469	-463.000	217.330
9400.000	0.000	0.000	9369.469	-463.000	217.330
9500.000	0.000	0.000	9469.469	-463.000	217.330
9600.000	0.000	0.000	9569.469	-463.000	217.330
9700.000	0.000	0.000	9669.469	-463.000	217.330
9800.000	0.000	0.000	9769.469	-463.000	217.330
9900.000	0.000	0.000	9869.469	-463.000	217.330
10000.000	0.000	0.000	9969.469	-463.000	217.330
10100.000	0.000	0.000	10069.469	-463.000	217.330
10200.000	0.000	0.000	10169.469	-463.000	217.330
10300.000	0.000	0.000	10269.469	-463.000	217.330
10400.000	0.000	0.000	10369.469	-463.000	217.330
10500.000	0.000	0.000	10469.469	-463.000	217.330
10562.000	0.000	0.000	10532.000	-463.000	217.330
10600.000	2.997	359.700	10569.452	-462.020	217.320
10700.000	10.990	359.700	10668.627	-449.850	217.280
10800.000	18.990	359.700	10765.142	-423.990	217.190
10900.000	26.990	359.700	10857.119	-384.960	217.040
11000.000	34.990	359.700	10942.769	-333.500	216.860
11100.000	42.990	359.700	11020.423	-270.620	216.630
11200.000	50.990	359.700	11088.570	-197.550	216.360
11300.000	58.990	359.700	11145.885	-115.700	216.070
11400.000	66.990	359.700	11191.251	-26.680	215.740
11500.000	74.990	359.700	11223.785	67.800	215.400
11600.000	82.990	359.700	11242.855	165.880	215.040
11687.000	90.000	359.700	11248.197	253.190	214.720
11700.000	90.000	359.700	11248.197	265.660	214.680
11800.000	90.000	359.700	11248.197	365.660	214.320
11900.000	90.000	359.700	11248.197	465.660	213.950
12000.000	90.000	359.700	11248.197	565.660	213.590
12100.000	90.000	359.700	11248.197	665.660	213.220
12200.000	90.000	359.700	11248.197	765.660	212.860
12300.000	90.000	359.700	11248.197	865.660	212.500

12400.000	90.000	359.700	11248.197	965.650	212.130
12500.000	90.000	359.700	11248.197	1065.650	211.770
12600.000	90.000	359.700	11248.197	1165.650	211.410
12700.000	90.000	359.700	11248.197	1265.650	211.040
12800.000	90.000	359.700	11248.197	1365.650	210.680
12900.000	90.000	359.700	11248.197	1465.650	210.310
13000.000	90.000	359.700	11248.197	1565.650	209.950
13100.000	90.000	359.700	11248.197	1665.650	209.590
13200.000	90.000	359.700	11248.197	1765.650	209.220
13300.000	90.000	359.700	11248.197	1865.650	208.860
13400.000	90.000	359.700	11248.197	1965.650	208.500
13500.000	90.000	359.700	11248.197	2065.650	208.130
13600.000	90.000	359.700	11248.197	2165.650	207.770
13700.000	90.000	359.700	11248.197	2265.650	207.410
13800.000	90.000	359.700	11248.197	2365.650	207.040
13900.000	90.000	359.700	11248.197	2465.640	206.680
14000.000	90.000	359.700	11248.197	2565.640	206.310
14100.000	90.000	359.700	11248.197	2665.640	205.950
14200.000	90.000	359.700	11248.197	2765.640	205.590
14300.000	90.000	359.700	11248.197	2865.640	205.220
14400.000	90.000	359.700	11248.197	2965.640	204.860
14500.000	90.000	359.700	11248.197	3065.640	204.500
14600.000	90.000	359.700	11248.197	3165.640	204.130
14700.000	90.000	359.700	11248.197	3265.640	203.770
14800.000	90.000	359.700	11248.197	3365.640	203.410
14900.000	90.000	359.700	11248.197	3465.640	203.040
15000.000	90.000	359.700	11248.197	3565.640	202.680
15100.000	90.000	359.700	11248.197	3665.640	202.310
15200.000	90.000	359.700	11248.197	3765.640	201.950
15300.000	90.000	359.700	11248.197	3865.640	201.590
15400.000	90.000	359.700	11248.197	3965.630	201.220
15500.000	90.000	359.700	11248.197	4065.630	200.860
15600.000	90.000	359.700	11248.197	4165.630	200.500
15700.000	90.000	359.700	11248.197	4265.630	200.130
15800.000	90.000	359.700	11248.197	4365.630	199.770
15900.000	90.000	359.700	11248.197	4465.630	199.410
16000.000	90.000	359.700	11248.197	4565.630	199.040
16100.000	90.000	359.700	11248.197	4665.630	198.680
16200.000	90.000	359.700	11248.197	4765.630	198.310
16300.000	90.000	359.700	11248.197	4865.630	197.950
16400.000	90.000	359.700	11248.197	4965.630	197.590
16500.000	90.000	359.700	11248.197	5065.630	197.220

16600.000	90.000	359.700	11248.197	5165.630	196.860
16700.000	90.000	359.700	11248.197	5265.630	196.500
16800.000	90.000	359.700	11248.197	5365.630	196.130
16900.000	90.000	359.700	11248.197	5465.620	195.770
17000.000	90.000	359.700	11248.197	5565.620	195.410
17100.000	90.000	359.700	11248.197	5665.620	195.040
17200.000	90.000	359.700	11248.197	5765.620	194.680
17300.000	90.000	359.700	11248.197	5865.620	194.310
17400.000	90.000	359.700	11248.197	5965.620	193.950
17500.000	90.000	359.700	11248.197	6065.620	193.590
17600.000	90.000	359.700	11248.197	6165.620	193.220
17700.000	90.000	359.700	11248.197	6265.620	192.860
17800.000	90.000	359.700	11248.197	6365.620	192.500
17900.000	90.000	359.700	11248.197	6465.620	192.130
18000.000	90.000	359.700	11248.197	6565.620	191.770
18100.000	90.000	359.700	11248.197	6665.620	191.410
18200.000	90.000	359.700	11248.197	6765.620	191.040
18300.000	90.000	359.700	11248.197	6865.620	190.680
18400.000	90.000	359.700	11248.197	6965.610	190.310
18500.000	90.000	359.700	11248.197	7065.610	189.950
18600.000	90.000	359.700	11248.197	7165.610	189.590
18700.000	90.000	359.700	11248.197	7265.610	189.220
18800.000	90.000	359.700	11248.197	7365.610	188.860
18900.000	90.000	359.700	11248.197	7465.610	188.500
19000.000	90.000	359.700	11248.197	7565.610	188.130
19100.000	90.000	359.700	11248.197	7665.610	187.770
19200.000	90.000	359.700	11248.197	7765.610	187.410
19300.000	90.000	359.700	11248.197	7865.610	187.040
19400.000	90.000	359.700	11248.197	7965.610	186.680
19500.000	90.000	359.700	11248.197	8065.610	186.310
19600.000	90.000	359.700	11248.197	8165.610	185.950
19700.000	90.000	359.700	11248.197	8265.610	185.590
19800.000	90.000	359.700	11248.197	8365.610	185.220
19900.000	90.000	359.700	11248.197	8465.600	184.860
20000.000	90.000	359.700	11248.197	8565.600	184.500
20100.000	90.000	359.700	11248.197	8665.600	184.130
20200.000	90.000	359.700	11248.197	8765.600	183.770
20300.000	90.000	359.700	11248.197	8865.600	183.410
20400.000	90.000	359.700	11248.197	8965.600	183.040
20500.000	90.000	359.700	11248.197	9065.600	182.680
20600.000	90.000	359.700	11248.197	9165.600	182.310
20700.000	90.000	359.700	11248.197	9265.600	181.950

20800.000	90.000	359.700	11248.197	9365.600	181.590
20900.000	90.000	359.700	11248.197	9465.600	181.220
21000.000	90.000	359.700	11248.197	9565.600	180.860
21100.000	90.000	359.700	11248.197	9665.600	180.500
21200.000	90.000	359.700	11248.197	9765.600	180.130
21300.000	90.000	359.700	11248.197	9865.600	179.770
21400.000	90.000	359.700	11248.197	9965.600	179.410
21500.000	90.000	359.700	11248.197	10065.590	179.040
21600.000	90.000	359.700	11248.197	10165.590	178.680
21700.000	90.000	359.700	11248.197	10265.590	178.310
21800.000	90.000	359.700	11248.197	10365.590	177.950
21900.000	90.000	359.700	11248.197	10465.590	177.590
22000.000	90.000	359.700	11248.197	10565.590	177.220
22100.000	90.000	359.700	11248.197	10665.590	176.860
22200.000	90.000	359.700	11248.197	10765.590	176.500
22300.000	90.000	359.700	11248.197	10865.590	176.130
22400.000	90.000	359.700	11248.197	10965.590	175.770
22500.000	90.000	359.700	11248.197	11065.590	175.410
22600.000	90.000	359.700	11248.197	11165.590	175.040
22700.000	90.000	359.700	11248.197	11265.590	174.680
22800.000	90.000	359.700	11248.197	11365.590	174.310
22900.000	90.000	359.700	11248.197	11465.590	173.950
23000.000	90.000	359.700	11248.197	11565.580	173.590
23100.000	90.000	359.700	11248.197	11665.580	173.220
23200.000	90.000	359.700	11248.197	11765.580	172.860
23300.000	90.000	359.700	11248.197	11865.580	172.500
23400.000	90.000	359.700	11248.197	11965.580	172.130
23500.000	90.000	359.700	11248.197	12065.580	171.770
23600.000	90.000	359.700	11248.197	12165.580	171.410
23700.000	90.000	359.700	11248.197	12265.580	171.040
23800.000	90.000	359.700	11248.197	12365.580	170.680
23900.000	90.000	359.700	11248.197	12465.580	170.310
24000.000	90.000	359.700	11248.197	12565.580	169.950
24100.000	90.000	359.700	11248.197	12665.580	169.590
24200.000	90.000	359.700	11248.197	12765.580	169.220
24300.000	90.000	359.700	11248.197	12865.580	168.860
24400.000	90.000	359.700	11248.197	12965.580	168.500
24500.000	90.000	359.700	11248.197	13065.570	168.130
24600.000	90.000	359.700	11248.197	13165.570	167.770
24700.000	90.000	359.700	11248.197	13265.570	167.410
24800.000	90.000	359.700	11248.197	13365.570	167.040
24900.000	90.000	359.700	11248.197	13465.570	166.680

25000.000	90.000	359.700	11248.197	13565.570	166.310
25100.000	90.000	359.700	11248.197	13665.570	165.950
25200.000	90.000	359.700	11248.197	13765.570	165.590
25300.000	90.000	359.700	11248.197	13865.570	165.220
25400.000	90.000	359.700	11248.197	13965.570	164.860
25500.000	90.000	359.700	11248.197	14065.570	164.500
25600.000	90.000	359.700	11248.197	14165.570	164.130
25700.000	90.000	359.700	11248.197	14265.570	163.770
25800.000	90.000	359.700	11248.197	14365.570	163.410
25900.000	90.000	359.700	11248.197	14465.570	163.040
26000.000	90.000	359.700	11248.197	14565.560	162.680
26100.000	90.000	359.700	11248.197	14665.560	162.310
26200.000	90.000	359.700	11248.197	14765.560	161.950
26300.000	90.000	359.700	11248.197	14865.560	161.590
26400.000	90.000	359.700	11248.197	14965.560	161.220
26500.000	90.000	359.700	11248.197	15065.560	160.860
26600.000	90.000	359.700	11248.197	15165.560	160.500
26700.000	90.000	359.700	11248.197	15265.560	160.130
26800.000	90.000	359.700	11248.197	15365.560	159.770
26900.000	90.000	359.700	11248.197	15465.560	159.410
27000.000	90.000	359.700	11248.197	15565.560	159.040
27100.000	90.000	359.700	11248.197	15665.560	158.680
27200.000	90.000	359.700	11248.197	15765.560	158.310
27300.000	90.000	359.700	11248.197	15865.560	157.950
27393.000	90.000	359.700	11248.000	15959.480	157.610

Plan Targets		PLU 23 Dog Town Draw 176H			
Target Name	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape
PLU 23 DTD FTP 8	11872.27	440733.68	649005.90	7790.00	CIRCLE
PLU 23 DTD LTP 8	27264.05	456125.42	648946.76	7790.00	CIRCLE
PLU 23 DTD BHL 8	27393.92	456255.29	648946.18	7790.00	CIRCLE

Sec 23-24S-30E-NMP 2682438 Poker Lake Unit 23 DTD Federal Com 176H Eddy NMNM068905 XTO 13-22 44787 AM

Poker Lake Unit 23 DTD Federal Com 176H

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	24.68	8.43	10.46	638	14	17.88	15.62	25,520
"B"			BTC				0				0
w/8.4#/g mud, 30min Sfc Csg Test psig: 1,500				Tail Cmt	does not	circ to sfc.	Totals:	638			25,520
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	240	381	200	91	9.20	221	2M			0.81
Site plat (pipe racks S or E) as per O.O.D.I.III D 4.1. not found.											

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	1.71	4,000	25	2.64	24.22	118,800
"B"	29.70	HCL 80	Flush Joint	∞	15.30	1.24	6,363	18	1.92	26.16	188,981
w/8.4#/g mud, 30min Sfc Csg Test psig:							Totals:	10,363	307,781		
The cement volume(s) are intended to achieve a top of					0	ft from surface or a		638	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	720	1455	1046	39	10.20	3584	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	3.61	2	2.28	10,263	2	3.53	3.10	205,260
"B"	20.00	RY P 110	Semi-Flush	∞	2.00	2.28	17,131	2	3.53	3.10	342,620
w/8.4#/g mud, 30min Sfc Csg Test psig: 1,955							Totals:	27,394	547,880		
The cement volume(s) are intended to achieve a top of				8600	ft from surface or a		1763		overlap.		
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd	Min Dist		
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE	Hole-Cplg		
6 3/4	0.0835	1230	1881	1587	19	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 176H
LOCATION:	Sec 23-24S-30E-NMP
COUNTY:	Eddy County, New Mexico

Updated COAs per Sundry 2682438; 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.

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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

COMMENTS

Action 136513

COMMENTS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 136513
	Action Type: [C-103] NOI Change of Plans (C-103A)

COMMENTS

Created By	Comment	Comment Date
jagarcia	Accepted, John Garcia, Petroleum Engineer	9/30/2022

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CONDITIONS

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CONDITIONS

Created By	Condition	Condition Date
jagarcia	None	9/30/2022