Received by OCD: 8/16/2022 6:40:23 AM

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

Sundry Print Report

08/14/2022

Well Name: POKER LAKE 23 DTD FEDERAL COM

Well Location: T24S / R30E / SEC 23 / NENW /

County or Parish/State:

Well Number: 123H

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: 3001549641

Well Status: Approved Application for Permit to Drill

Operator: XTO PERMIAN OPERATING LLC

Notice of Intent

Sundry ID: 2682432

Type of Submission: Notice of Intent

Type of Action: Other

Date Sundry Submitted: 07/15/2022

Time Sundry Submitted: 05:36

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 337’FNL & 1822’FWL to 261”FNL & 1822’FWL, Section 23-T24S-R30E for drilling efficiencies and operational safety. No Additional Surface Disturbance. Change BHL from 200’FNL & 2310’FWL to 200’FNL & 770’FWL, Section 2-T24S-R30E Change FTP fr/337’FSL & 1822’FWL to 100’FSL & 770’FWL Change LTP fr/330’FNL & 2310’FWL to 330’FNL & 770’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_123H_Attachments_20220715173450.pdf

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Well Name: POKER LAKE 23 DTD FEDERAL COM

Well Location: T24S / R30E / SEC 23 / NENW /

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Well Status: Approved Application for Permit to Drill

Operator: XTO PERMIAN OPERATING LLC

Conditions of Approval

Additional

Sec_23_24S_30E_NMP_2682432_Poker_Lake_Unit_23_DTD_Federal_Com_123H_Eddy_NMNM030452_COAs_20220810095434.pdf

Sec_23_24S_30E_NMP_2682432_Poker_Lake_Unit_23_DTD_Federal_Com_123H_Eddy_NMNM030452_XTO_13_22_44783_AM_20220810095425.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 05:34 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

Released to Imaging: 8/18/2022 10:45:01 AM

CONFIDENTIAL

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	[2] Pool Code	[3] Pool Name
30-015- 49641	98220	Purple Sage, Wolfcamp

[4] Property Code	[5] Property Name	[6] Well Number
332954	POKER LAKE 23 DTD FEDERAL COM	123H

[7] OGRID No.	[8] Operator Name	[9] Elevation
373075	XTO PERMIAN OPERATING, LLC	3,431'

[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		261	NORTH	1,822	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
4	2	24 S	30 E		200	NORTH	770	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.

[16]

SHL (NAD83 NME)		LTP (NAD83 NME)	
Y =	440,427.9	Y =	456,174.9
X =	689,466.3	X =	688,354.6
LAT. =	32.209906 °N	LAT. =	32.253205 °N
LONG. =	103.854388 °W	LONG. =	103.857757 °W
FTP (NAD83 NME)		**BHL (NAD83 NME)**	
Y =	440,781.3	Y =	456,304.9
X =	688,413.5	X =	688,354.0
LAT. =	32.210890 °N	LAT. =	32.253562 °N
LONG. =	103.857787 °W	LONG. =	103.857757 °W

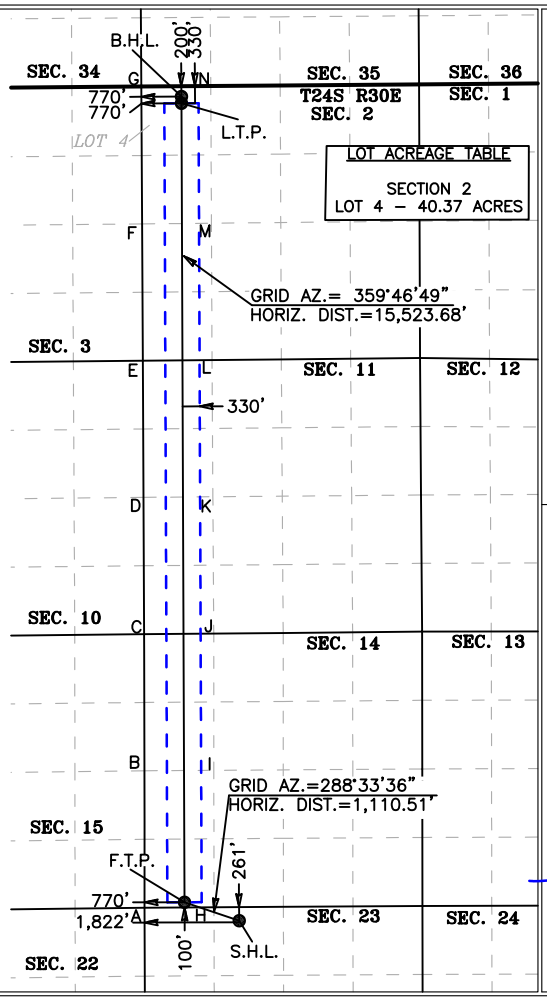
CORNER COORDINATES (NAD83 NME)

A - Y =	440,675.5 N ,	X =	687,643.7 E
B - Y =	443,315.0 N ,	X =	687,640.1 E
C - Y =	445,948.5 N ,	X =	687,638.0 E
D - Y =	448,583.6 N ,	X =	687,624.1 E
E - Y =	451,217.2 N ,	X =	687,609.8 E
F - Y =	453,851.5 N ,	X =	687,596.7 E
G - Y =	456,499.4 N ,	X =	687,582.9 E
H - Y =	440,685.6 N ,	X =	688,981.2 E
I - Y =	443,323.9 N ,	X =	688,978.3 E
J - Y =	445,958.8 N ,	X =	688,976.1 E
K - Y =	448,594.8 N ,	X =	688,960.2 E
L - Y =	451,229.1 N ,	X =	688,944.0 E
M - Y =	453,865.0 N ,	X =	688,932.1 E
N - Y =	456,509.0 N ,	X =	688,919.8 E

SHL (NAD27 NME)		LTP (NAD27 NME)	
Y =	440,368.7	Y =	456,115.4
X =	648,282.5	X =	647,171.5
LAT. =	32.209782 °N	LAT. =	32.253081 °N
LONG. =	103.853902 °W	LONG. =	103.857269 °W
FTP (NAD27 NME)		**BHL (NAD27 NME)**	
Y =	440,722.3	Y =	456,245.4
X =	647,229.8	X =	647,170.8
LAT. =	32.210766 °N	LAT. =	32.253439 °N
LONG. =	103.857301 °W	LONG. =	103.857269 °W

CORNER COORDINATES (NAD27 NME)

A - Y =	440,616.4 N ,	X =	646,459.9 E
B - Y =	443,255.9 N ,	X =	646,456.5 E
C - Y =	445,889.3 N ,	X =	646,454.4 E
D - Y =	448,524.3 N ,	X =	646,440.6 E
E - Y =	451,157.9 N ,	X =	646,426.4 E
F - Y =	453,792.1 N ,	X =	646,413.4 E
G - Y =	456,439.9 N ,	X =	646,399.8 E
H - Y =	440,626.6 N ,	X =	647,797.5 E
I - Y =	443,264.7 N ,	X =	647,794.7 E
J - Y =	445,899.6 N ,	X =	647,792.6 E
K - Y =	448,535.6 N ,	X =	647,776.7 E
L - Y =	451,169.8 N ,	X =	647,760.7 E
M - Y =	453,805.6 N ,	X =	647,748.8 E
N - Y =	456,449.5 N ,	X =	647,736.6 E



[17] OPERATOR CERTIFICATION

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

Jessica Dooling — 7/11/2022
Signature — Date

Jessica Dooling
Printed Name

jessica.dooling@exxonmobil.com
E-mail Address

[18] SURVEYOR CERTIFICATION

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

06-30-2022
Date of Survey

Signature and Seal of Professional Surveyor:

MARK DILLON HARP NEW MEXICO 23786 PROFESSIONAL SURVEYOR

MARK DILLON HARP 23786
Certificate Number — AW — 2019051496

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

XTO Energy Inc.
PLU 23 Dog Town Draw 123H
Projected TD: 27314' MD / 11206' TVD
SHL: 261' FNL & 1822' FWL , Section 23, T24S, R30E
BHL: 200' FNL & 770' 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	11158'	Water/Oil/Gas
Wolfcamp X	11186'	Water/Oil/Gas
Wolfcamp Y	11285'	Water/Oil/Gas
Wolfcamp A	11338'	Water/Oil/Gas
Target/Land Curve	11206'	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 10396' and cemented to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 27314 MD/TD and 5.5 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 10096 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	2.23	2.65	1.81
8.75	4000' – 10396'	7.625	29.7	HC L-80	Flush Joint	New	1.62	1.93	2.14
6.75	0’ – 10296'	5.5	23	RY P-110	Semi-Premium	New	1.21	2.36	1.71
6.75	10296' - 27314'	5.5	23	RY P-110	Semi-Flush	New	1.21	2.17	1.85

· 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 +/- 10396'
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, 23 New Semi-Flush, RY P-110 casing to be set at +/- 27314'

Lead: 20 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft3/sx, 15.00 gal/sx water) Top of Cement: 10096 feet
Tail: 1200 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft3/sx, 8.38 gal/sx water) Top of Cement: 10596 feet
Compressives: 12-hr = 800 psi 24 hr = 1500 psi

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

5. Pressure Control Equipment

Once the permanent WH is installed on the 9.625 casing, the blow out preventer equipment (BOP) will consist of a 13-5/8" minimum 5M Hydril and a 13-5/8" minimum 5M Double Ram BOP. MASP should not exceed 4236 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 nippling up on the 9.625, 5M bradenhead and flange, the BOP test will be limited to 5000 psi. When nippling 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' - 10396'	8.75	FW / Cut Brine / Direct Emulsion	9.7-10.2	30-32	NC
10396' - 27314'	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 6701 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.

Received by OCD: 8/16/2022 6:40:23 AM

Well Plan Report - PLU 23 Dog Town Draw 123H

Measured Depth:	27314.00 ft	**Site:**	PLU 23 DTD PAD B
TVD RKB:	11206.00 ft		
Location			
Cartographic Reference System:	New Mexico East - NAD 27		
Northing:	440367.83 ft		
Easting:	648298.01 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 123H

Measured Depth (ft)	Inclination (Deg)	Azimuth (Deg)	TVD RKB (ft)	Y Offset (ft)	X Offset (ft)	Build Rate (Deg/100ft)	Turn Rate (Deg/100ft)	Dogleg Rate (Deg/100ft)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	0.00	
1650.95	11.02	247.54	1647.56	-20.18	-48.81	2.00	0.00	2.00	
7055.47	11.02	247.54	6952.44	-414.83	-1003.45	0.00	0.00	0.00	
7606.42	0.00	0.00	7500.00	-435.00	-1052.26	-2.00	0.00	2.00	
10596.41	0.00	0.00	10490.00	-435.00	-1052.26	0.00	0.00	0.00	
11721.41	90.00	359.79	11206.20	281.19	-1054.89	8.00	0.00	8.00	PLU 23 DTD BHL 6
27314.12	90.00	359.79	11206.00	15873.79	-1112.07	0.00	0.00	0.00	PLU 23 DTD BHL 6

Planned Survey PLU 23 Dog Town Draw 123H

Measured Depth (ft)	Inclination (Deg)	Azimuth (Deg)	TVD RKB (ft)	Y Offset (ft)	X Offset (ft)
0.000	0.000	0.000	0.000	0.000	0.000
100.000	0.000	0.000	100.000	0.000	0.000
200.000	0.000	0.000	200.000	0.000	0.000

Released to Imaging: 8/18/2022 10:45:01 AM

Received by OCD: 8/16/2022 6:40:23 AM

300.000	0.000	0.000	300.000	0.000	0.000
400.000	0.000	0.000	400.000	0.000	0.000
500.000	0.000	0.000	500.000	0.000	0.000
600.000	0.000	0.000	600.000	0.000	0.000
700.000	0.000	0.000	700.000	0.000	0.000
800.000	0.000	0.000	800.000	0.000	0.000
900.000	0.000	0.000	900.000	0.000	0.000
1000.000	0.000	0.000	1000.000	0.000	0.000
1100.000	0.000	0.000	1100.000	0.000	0.000
1200.000	1.999	247.500	1199.980	-0.670	-1.610
1300.000	4.000	247.500	1299.838	-2.670	-6.450
1400.000	6.000	247.500	1399.452	-6.000	-14.500
1500.000	7.999	247.500	1498.702	-10.650	-25.770
1600.000	10.000	247.500	1597.465	-16.630	-40.220
1650.900	11.010	247.500	1647.563	-20.180	-48.810
1700.000	11.010	247.500	1695.706	-23.760	-57.470
1800.000	11.010	247.500	1793.862	-31.060	-75.140
1900.000	11.010	247.500	1892.018	-38.370	-92.800
2000.000	11.010	247.500	1990.175	-45.670	-110.470
2100.000	11.010	247.500	2088.331	-52.970	-128.130
2200.000	11.010	247.500	2186.488	-60.270	-145.790
2300.000	11.010	247.500	2284.644	-67.570	-163.460
2400.000	11.010	247.500	2382.800	-74.880	-181.120
2500.000	11.010	247.500	2480.957	-82.180	-198.780
2600.000	11.010	247.500	2579.113	-89.480	-216.450
2700.000	11.010	247.500	2677.269	-96.780	-234.110
2800.000	11.010	247.500	2775.426	-104.090	-251.780
2900.000	11.010	247.500	2873.582	-111.390	-269.440
3000.000	11.010	247.500	2971.738	-118.690	-287.100
3100.000	11.010	247.500	3069.895	-125.990	-304.770
3200.000	11.010	247.500	3168.051	-133.290	-322.430
3300.000	11.010	247.500	3266.208	-140.600	-340.090
3400.000	11.010	247.500	3364.364	-147.900	-357.760
3500.000	11.010	247.500	3462.520	-155.200	-375.420
3600.000	11.010	247.500	3560.677	-162.500	-393.090
3700.000	11.010	247.500	3658.833	-169.800	-410.750
3800.000	11.010	247.500	3756.989	-177.110	-428.410
3900.000	11.010	247.500	3855.146	-184.410	-446.080
4000.000	11.010	247.500	3953.302	-191.710	-463.740
4100.000	11.010	247.500	4051.458	-199.010	-481.400
4200.000	11.010	247.500	4149.615	-206.320	-499.070
4300.000	11.010	247.500	4247.771	-213.620	-516.730

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4400.000	11.010	247.500	4345.928	-220.920	-534.400
4500.000	11.010	247.500	4444.084	-228.220	-552.060
4600.000	11.010	247.500	4542.240	-235.520	-569.720
4700.000	11.010	247.500	4640.397	-242.830	-587.390
4800.000	11.010	247.500	4738.553	-250.130	-605.050
4900.000	11.010	247.500	4836.709	-257.430	-622.710
5000.000	11.010	247.500	4934.866	-264.730	-640.380
5100.000	11.010	247.500	5033.022	-272.030	-658.040
5200.000	11.010	247.500	5131.178	-279.340	-675.700
5300.000	11.010	247.500	5229.335	-286.640	-693.370
5400.000	11.010	247.500	5327.491	-293.940	-711.030
5500.000	11.010	247.500	5425.648	-301.240	-728.700
5600.000	11.010	247.500	5523.804	-308.550	-746.360
5700.000	11.010	247.500	5621.960	-315.850	-764.020
5800.000	11.010	247.500	5720.117	-323.150	-781.690
5900.000	11.010	247.500	5818.273	-330.450	-799.350
6000.000	11.010	247.500	5916.429	-337.750	-817.010
6100.000	11.010	247.500	6014.586	-345.060	-834.680
6200.000	11.010	247.500	6112.742	-352.360	-852.340
6300.000	11.010	247.500	6210.898	-359.660	-870.010
6400.000	11.010	247.500	6309.055	-366.960	-887.670
6500.000	11.010	247.500	6407.211	-374.260	-905.330
6600.000	11.010	247.500	6505.368	-381.570	-923.000
6700.000	11.010	247.500	6603.524	-388.870	-940.660
6800.000	11.010	247.500	6701.680	-396.170	-958.320
6900.000	11.010	247.500	6799.837	-403.470	-975.990
7000.000	11.010	247.500	6897.993	-410.770	-993.650
7055.400	11.010	247.500	6952.437	-414.830	-1003.450
7100.000	10.120	247.500	6996.214	-417.950	-1011.000
7200.000	8.128	247.500	7094.942	-424.010	-1025.660
7300.000	6.128	247.500	7194.164	-428.750	-1037.130
7400.000	4.128	247.500	7293.759	-432.160	-1045.390
7500.000	2.128	247.500	7393.605	-434.250	-1050.430
7606.400	0.000	0.000	7500.000	-435.000	-1052.260
7700.000	0.000	0.000	7593.580	-435.000	-1052.260
7800.000	0.000	0.000	7693.580	-435.000	-1052.260
7900.000	0.000	0.000	7793.580	-435.000	-1052.260
8000.000	0.000	0.000	7893.580	-435.000	-1052.260
8100.000	0.000	0.000	7993.580	-435.000	-1052.260
8200.000	0.000	0.000	8093.580	-435.000	-1052.260
8300.000	0.000	0.000	8193.580	-435.000	-1052.260
8400.000	0.000	0.000	8293.580	-435.000	-1052.260

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8500.000	0.000	0.000	8393.580	-435.000	-1052.260
8600.000	0.000	0.000	8493.580	-435.000	-1052.260
8700.000	0.000	0.000	8593.580	-435.000	-1052.260
8800.000	0.000	0.000	8693.580	-435.000	-1052.260
8900.000	0.000	0.000	8793.580	-435.000	-1052.260
9000.000	0.000	0.000	8893.580	-435.000	-1052.260
9100.000	0.000	0.000	8993.580	-435.000	-1052.260
9200.000	0.000	0.000	9093.580	-435.000	-1052.260
9300.000	0.000	0.000	9193.580	-435.000	-1052.260
9400.000	0.000	0.000	9293.580	-435.000	-1052.260
9500.000	0.000	0.000	9393.580	-435.000	-1052.260
9600.000	0.000	0.000	9493.580	-435.000	-1052.260
9700.000	0.000	0.000	9593.580	-435.000	-1052.260
9800.000	0.000	0.000	9693.580	-435.000	-1052.260
9900.000	0.000	0.000	9793.580	-435.000	-1052.260
10000.000	0.000	0.000	9893.580	-435.000	-1052.260
10100.000	0.000	0.000	9993.580	-435.000	-1052.260
10200.000	0.000	0.000	10093.580	-435.000	-1052.260
10300.000	0.000	0.000	10193.580	-435.000	-1052.260
10400.000	0.000	0.000	10293.580	-435.000	-1052.260
10500.000	0.000	0.000	10393.580	-435.000	-1052.260
10596.000	0.000	0.000	10490.000	-435.000	-1052.260
10600.000	0.286	359.700	10493.580	-434.990	-1052.260
10700.000	8.286	359.700	10593.220	-427.530	-1052.290
10800.000	16.280	359.700	10690.850	-406.260	-1052.360
10900.000	24.280	359.700	10784.571	-371.620	-1052.490
11000.000	32.280	359.700	10872.558	-324.270	-1052.670
11100.000	40.280	359.700	10953.100	-265.140	-1052.880
11200.000	48.280	359.700	11024.627	-195.370	-1053.140
11300.000	56.280	359.700	11085.749	-116.330	-1053.430
11400.000	64.280	359.700	11135.275	-29.550	-1053.750
11500.000	72.280	359.700	11172.242	63.280	-1054.090
11600.000	80.280	359.700	11195.930	160.350	-1054.440
11700.000	88.280	359.700	11205.877	259.770	-1054.810
11721.000	90.000	359.700	11206.197	281.190	-1054.890
11800.000	90.000	359.700	11206.197	359.770	-1055.170
11900.000	90.000	359.700	11206.197	459.770	-1055.540
12000.000	90.000	359.700	11206.197	559.770	-1055.910
12100.000	90.000	359.700	11206.197	659.770	-1056.270
12200.000	90.000	359.700	11206.197	759.770	-1056.640
12300.000	90.000	359.700	11206.197	859.770	-1057.010
12400.000	90.000	359.700	11206.197	959.770	-1057.370

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12500.000	90.000	359.700	11206.197	1059.760	-1057.740
12600.000	90.000	359.700	11206.197	1159.760	-1058.110
12700.000	90.000	359.700	11206.197	1259.760	-1058.470
12800.000	90.000	359.700	11206.197	1359.760	-1058.840
12900.000	90.000	359.700	11206.197	1459.760	-1059.210
13000.000	90.000	359.700	11206.197	1559.760	-1059.570
13100.000	90.000	359.700	11206.197	1659.760	-1059.940
13200.000	90.000	359.700	11206.197	1759.760	-1060.310
13300.000	90.000	359.700	11206.197	1859.760	-1060.670
13400.000	90.000	359.700	11206.197	1959.760	-1061.040
13500.000	90.000	359.700	11206.197	2059.760	-1061.410
13600.000	90.000	359.700	11206.197	2159.760	-1061.780
13700.000	90.000	359.700	11206.197	2259.760	-1062.140
13800.000	90.000	359.700	11206.197	2359.760	-1062.510
13900.000	90.000	359.700	11206.197	2459.760	-1062.880
14000.000	90.000	359.700	11206.197	2559.750	-1063.240
14100.000	90.000	359.700	11206.197	2659.750	-1063.610
14200.000	90.000	359.700	11206.197	2759.750	-1063.980
14300.000	90.000	359.700	11206.197	2859.750	-1064.340
14400.000	90.000	359.700	11206.197	2959.750	-1064.710
14500.000	90.000	359.700	11206.197	3059.750	-1065.080
14600.000	90.000	359.700	11206.197	3159.750	-1065.440
14700.000	90.000	359.700	11206.197	3259.750	-1065.810
14800.000	90.000	359.700	11206.197	3359.750	-1066.180
14900.000	90.000	359.700	11206.197	3459.750	-1066.540
15000.000	90.000	359.700	11206.197	3559.750	-1066.910
15100.000	90.000	359.700	11206.197	3659.750	-1067.280
15200.000	90.000	359.700	11206.197	3759.750	-1067.640
15300.000	90.000	359.700	11206.197	3859.750	-1068.010
15400.000	90.000	359.700	11206.197	3959.750	-1068.380
15500.000	90.000	359.700	11206.197	4059.740	-1068.740
15600.000	90.000	359.700	11206.197	4159.740	-1069.110
15700.000	90.000	359.700	11206.197	4259.740	-1069.480
15800.000	90.000	359.700	11206.197	4359.740	-1069.840
15900.000	90.000	359.700	11206.197	4459.740	-1070.210
16000.000	90.000	359.700	11206.197	4559.740	-1070.580
16100.000	90.000	359.700	11206.197	4659.740	-1070.940
16200.000	90.000	359.700	11206.197	4759.740	-1071.310
16300.000	90.000	359.700	11206.197	4859.740	-1071.680
16400.000	90.000	359.700	11206.197	4959.740	-1072.040
16500.000	90.000	359.700	11206.197	5059.740	-1072.410
16600.000	90.000	359.700	11206.197	5159.740	-1072.780

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16700.000	90.000	359.700	11206.197	5259.740	-1073.140
16800.000	90.000	359.700	11206.197	5359.740	-1073.510
16900.000	90.000	359.700	11206.197	5459.740	-1073.880
17000.000	90.000	359.700	11206.197	5559.730	-1074.240
17100.000	90.000	359.700	11206.197	5659.730	-1074.610
17200.000	90.000	359.700	11206.197	5759.730	-1074.980
17300.000	90.000	359.700	11206.197	5859.730	-1075.340
17400.000	90.000	359.700	11206.197	5959.730	-1075.710
17500.000	90.000	359.700	11206.197	6059.730	-1076.080
17600.000	90.000	359.700	11206.197	6159.730	-1076.440
17700.000	90.000	359.700	11206.197	6259.730	-1076.810
17800.000	90.000	359.700	11206.197	6359.730	-1077.180
17900.000	90.000	359.700	11206.197	6459.730	-1077.540
18000.000	90.000	359.700	11206.197	6559.730	-1077.910
18100.000	90.000	359.700	11206.197	6659.730	-1078.280
18200.000	90.000	359.700	11206.197	6759.730	-1078.640
18300.000	90.000	359.700	11206.197	6859.730	-1079.010
18400.000	90.000	359.700	11206.197	6959.720	-1079.380
18500.000	90.000	359.700	11206.197	7059.720	-1079.740
18600.000	90.000	359.700	11206.197	7159.720	-1080.110
18700.000	90.000	359.700	11206.197	7259.720	-1080.480
18800.000	90.000	359.700	11206.197	7359.720	-1080.840
18900.000	90.000	359.700	11206.197	7459.720	-1081.210
19000.000	90.000	359.700	11206.197	7559.720	-1081.580
19100.000	90.000	359.700	11206.197	7659.720	-1081.950
19200.000	90.000	359.700	11206.197	7759.720	-1082.310
19300.000	90.000	359.700	11206.197	7859.720	-1082.680
19400.000	90.000	359.700	11206.197	7959.720	-1083.050
19500.000	90.000	359.700	11206.197	8059.720	-1083.410
19600.000	90.000	359.700	11206.197	8159.720	-1083.780
19700.000	90.000	359.700	11206.197	8259.720	-1084.150
19800.000	90.000	359.700	11206.197	8359.720	-1084.510
19900.000	90.000	359.700	11206.197	8459.710	-1084.880
20000.000	90.000	359.700	11206.197	8559.710	-1085.250
20100.000	90.000	359.700	11206.197	8659.710	-1085.610
20200.000	90.000	359.700	11206.197	8759.710	-1085.980
20300.000	90.000	359.700	11206.197	8859.710	-1086.350
20400.000	90.000	359.700	11206.197	8959.710	-1086.710
20500.000	90.000	359.700	11206.197	9059.710	-1087.080
20600.000	90.000	359.700	11206.197	9159.710	-1087.450
20700.000	90.000	359.700	11206.197	9259.710	-1087.810
20800.000	90.000	359.700	11206.197	9359.710	-1088.180

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20900.000	90.000	359.700	11206.197	9459.710	-1088.550
21000.000	90.000	359.700	11206.197	9559.710	-1088.910
21100.000	90.000	359.700	11206.197	9659.710	-1089.280
21200.000	90.000	359.700	11206.197	9759.710	-1089.650
21300.000	90.000	359.700	11206.197	9859.710	-1090.010
21400.000	90.000	359.700	11206.197	9959.700	-1090.380
21500.000	90.000	359.700	11206.197	10059.700	-1090.750
21600.000	90.000	359.700	11206.197	10159.700	-1091.110
21700.000	90.000	359.700	11206.197	10259.700	-1091.480
21800.000	90.000	359.700	11206.197	10359.700	-1091.850
21900.000	90.000	359.700	11206.197	10459.700	-1092.210
22000.000	90.000	359.700	11206.197	10559.700	-1092.580
22100.000	90.000	359.700	11206.197	10659.700	-1092.950
22200.000	90.000	359.700	11206.197	10759.700	-1093.310
22300.000	90.000	359.700	11206.197	10859.700	-1093.680
22400.000	90.000	359.700	11206.197	10959.700	-1094.050
22500.000	90.000	359.700	11206.197	11059.700	-1094.410
22600.000	90.000	359.700	11206.197	11159.700	-1094.780
22700.000	90.000	359.700	11206.197	11259.700	-1095.150
22800.000	90.000	359.700	11206.197	11359.700	-1095.510
22900.000	90.000	359.700	11206.197	11459.690	-1095.880
23000.000	90.000	359.700	11206.197	11559.690	-1096.250
23100.000	90.000	359.700	11206.197	11659.690	-1096.610
23200.000	90.000	359.700	11206.197	11759.690	-1096.980
23300.000	90.000	359.700	11206.197	11859.690	-1097.350
23400.000	90.000	359.700	11206.197	11959.690	-1097.710
23500.000	90.000	359.700	11206.197	12059.690	-1098.080
23600.000	90.000	359.700	11206.197	12159.690	-1098.450
23700.000	90.000	359.700	11206.197	12259.690	-1098.810
23800.000	90.000	359.700	11206.197	12359.690	-1099.180
23900.000	90.000	359.700	11206.197	12459.690	-1099.550
24000.000	90.000	359.700	11206.197	12559.690	-1099.910
24100.000	90.000	359.700	11206.197	12659.690	-1100.280
24200.000	90.000	359.700	11206.197	12759.690	-1100.650
24300.000	90.000	359.700	11206.197	12859.690	-1101.020
24400.000	90.000	359.700	11206.197	12959.680	-1101.380
24500.000	90.000	359.700	11206.197	13059.680	-1101.750
24600.000	90.000	359.700	11206.197	13159.680	-1102.120
24700.000	90.000	359.700	11206.197	13259.680	-1102.480
24800.000	90.000	359.700	11206.197	13359.680	-1102.850
24900.000	90.000	359.700	11206.197	13459.680	-1103.220
25000.000	90.000	359.700	11206.197	13559.680	-1103.580

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25100.000	90.000	359.700	11206.197	13659.680	-1103.950
25200.000	90.000	359.700	11206.197	13759.680	-1104.320
25300.000	90.000	359.700	11206.197	13859.680	-1104.680
25400.000	90.000	359.700	11206.197	13959.680	-1105.050
25500.000	90.000	359.700	11206.197	14059.680	-1105.420
25600.000	90.000	359.700	11206.197	14159.680	-1105.780
25700.000	90.000	359.700	11206.197	14259.680	-1106.150
25800.000	90.000	359.700	11206.197	14359.680	-1106.520
25900.000	90.000	359.700	11206.197	14459.670	-1106.880
26000.000	90.000	359.700	11206.197	14559.670	-1107.250
26100.000	90.000	359.700	11206.197	14659.670	-1107.620
26200.000	90.000	359.700	11206.197	14759.670	-1107.980
26300.000	90.000	359.700	11206.197	14859.670	-1108.350
26400.000	90.000	359.700	11206.197	14959.670	-1108.720
26500.000	90.000	359.700	11206.197	15059.670	-1109.080
26600.000	90.000	359.700	11206.197	15159.670	-1109.450
26700.000	90.000	359.700	11206.197	15259.670	-1109.820
26800.000	90.000	359.700	11206.197	15359.670	-1110.180
26900.000	90.000	359.700	11206.197	15459.670	-1110.550
27000.000	90.000	359.700	11206.197	15559.670	-1110.920
27100.000	90.000	359.700	11206.197	15659.670	-1111.280
27200.000	90.000	359.700	11206.197	15759.670	-1111.650
27300.000	90.000	359.700	11206.197	15859.670	-1112.020
27314.000	90.000	359.700	11206.000	15873.790	-1112.070

Plan Targets	PLU 23 Dog Town Draw 123H				
Target Name	**Measured Depth (ft)**	**Grid Northing (ft)**	**Grid Easting (ft)**	**TVD MSL (ft)**	**Target Shape**
PLU 23 DTD FTP 6	11795.32	440723.29	647245.75	7748.00	CIRCLE
PLU 23 DTD LTP 6	27184.25	456111.75	647186.52	7748.00	CIRCLE
PLU 23 DTD BHL 6	27314.12	456241.62	647185.94	7748.00	CIRCLE

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Sec 23-24S-30E-NMP 2682432 Poker Lake Unit 23 DTD Federal Com 123H Eddy NMNM030452 XTO 13-22 44783 AM

Poker Lake Unit 23 DTD Federal Com 123H

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	1.86	638	14	3.19	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	1239	2M	0.81

Site plat (pipe racks S or E) as per O.O.1.III.D.4.i 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	4.70	2.52	1.47	4,000	4	2.28	4.32	118,800
"B"	**29.70**	**HCL 80**	Flush Joint	∞	**2.73**	**1.07**	**6,396**	**3**	**1.66**	4.66	**189,961**
w/8.4#/g mud, 30min Sfc Csg Test psig:						Totals:	10,396				308,761
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	1050	39	10.20	4153	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	3.11	1.73	1.97	10,296	2	3.04	2.67	205,920
"B"	**20.00**	**RY P 110**	Semi-Flush	∞	**1.73**	**1.97**	**17,018**	**2**	**3.04**	2.67	**340,360**
w/8.4#/g mud, 30min Sfc Csg Test psig: 2,265						Totals:	27,314				546,280
The cement volume(s) are intended to achieve a top of				10100	ft from surface or a		296				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	1220	1866	1441	30	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 123H
LOCATION:	Sec 23-24S-30E-NMP
COUNTY:	Eddy County, New Mexico

*Updated COAs per Sundry **2682432**; approved through engineering on August 08, 2022.*

COA

H2S	○ Yes	◉ No	
Potash	◉ None	○ Secretary	○ R-111-P
Cave/Karst Potential	◉ Low	○ Medium	○ High
Cave/Karst Potential	○ Critical		
Variance	○ None	◉ Flex Hose	○ Other
Wellhead	○ Conventional	◉ Multibowl	○ Both
Other	☐ 4 String Area	☐ Capitan Reef	☐ WIPP
Other	☐ Fluid Filled	☐ Cement Squeeze	☐ Pilot Hole
Special Requirements	☐ Water Disposal	☑ COM	☐ 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 intergrity 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 intergrity 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 134393

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 134393
	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