

Well Name: POKER LAKE 23 DTD FEDERAL COM	Well Location: T24S / R30E / SEC 23 / NENW /	County or Parish/State:
Well Number: 105H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMNM30452	Unit or CA Name: POKER LAKE	Unit or CA Number: NMNM071016X
US Well Number: 3001550129	Well Status: Approved Application for Permit to Drill	Operator: XTO PERMIAN OPERATING LLC

Notice of Intent

Sundry ID: 2699955

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 10/27/2022

Time Sundry Submitted: 10:14

Date proposed operation will begin: 11/15/2022

Procedure Description: **Well name change, 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 well name from Poker Lake Unit 23 DTD to Poker Lake 23 DTD Federal Com Change SHL from 337'FNL & 1852'FWL to 262'FNL & 1852'FWL, Section 23-T24S-R30E for drilling efficiencies and operational safety. No Additional Surface Disturbance. Change BHL from 200'FNL & 2310'FEL to 200'FNL & 1210'FWL, Section 2-T24S-R30E Change FTP fr/100'FSL & 2310'FEL to 100'FSL & 1210'FWL Change LTP fr/330'FNL & 2310'FEL to 330'FNL & 1210'FWL Attachments: C102 Drilling Program Directional Plan

NOI Attachments

Procedure Description

Poker_Lake_23_DTD_Federal_Com_105H_Attachments_20221027101104.pdf

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Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: JESSICA DOOLING

Signed on: OCT 27, 2022 10:11 AM

Name: XTO PERMIAN OPERATING LLC

Title: Lead Regulatory Coordinator

Street Address: 6401 HOLIDAY HILL ROAD BLDG 5

City: MIDLAND**State:** TX

Phone: (970) 769-6048

Email address: JESSICA.DOOLING@EXXONMOBIL.COM

Field

Representative Name:

Street Address:

City:**State:****Zip:**

Phone:

Email address:

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752342234

BLM POC Email Address: cwalls@blm.gov

Disposition: Approved

Disposition Date: 11/15/2022

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- 50129		² Pool Code 98220	³ Pool Name Purple Sage, Wolfcamp
⁴ Property Code	⁵ Property Name POKER LAKE 23 DTD FEDERAL COM		⁶ Well Number 105H
⁷ OGRID No. 373075	⁸ Operator Name XTO PERMIAN OPERATING, LLC		⁹ Elevation 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		262	NORTH	1,852	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	1,210	WEST	EDDY

¹² Dedicated Acres 960.6	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

¹⁶ SHL (NAD83 NME) Y = 440,428.0 X = 689,496.3 LAT. = 32.209906 "N LONG. = 103.854291 "W FTP (NAD83 NME) Y = 440,784.7 X = 688,853.5 LAT. = 32.210894 "N LONG. = 103.856364 "W CORNER COORDINATES (NAD83 NME) <table> <tr><td>A - Y = 440,675.5 N</td><td>X = 687,643.7 E</td></tr> <tr><td>B - Y = 443,315.0 N</td><td>X = 687,640.1 E</td></tr> <tr><td>C - Y = 445,948.5 N</td><td>X = 687,638.0 E</td></tr> <tr><td>D - Y = 448,583.6 N</td><td>X = 687,624.1 E</td></tr> <tr><td>E - Y = 451,217.2 N</td><td>X = 687,609.8 E</td></tr> <tr><td>F - Y = 453,851.5 N</td><td>X = 687,596.7 E</td></tr> <tr><td>G - Y = 456,499.4 N</td><td>X = 687,582.9 E</td></tr> <tr><td>H - Y = 440,685.6 N</td><td>X = 688,981.2 E</td></tr> <tr><td>I - Y = 443,323.9 N</td><td>X = 688,978.3 E</td></tr> <tr><td>J - Y = 445,958.8 N</td><td>X = 688,976.1 E</td></tr> <tr><td>K - Y = 448,594.8 N</td><td>X = 688,960.2 E</td></tr> <tr><td>L - Y = 451,229.1 N</td><td>X = 688,944.0 E</td></tr> <tr><td>M - Y = 453,865.0 N</td><td>X = 688,932.1 E</td></tr> <tr><td>N - Y = 456,509.0 N</td><td>X = 688,919.8 E</td></tr> </table> SHL (NAD27 NME) Y = 440,368.9 X = 648,312.5 LAT. = 32.209782 "N LONG. = 103.853805 "W FTP (NAD27 NME) Y = 440,725.6 X = 647,669.7 LAT. = 32.210770 "N LONG. = 103.855878 "W CORNER COORDINATES (NAD27 NME) <table> <tr><td>A - Y = 440,616.4 N</td><td>X = 646,459.9 E</td></tr> <tr><td>B - Y = 443,255.9 N</td><td>X = 646,456.5 E</td></tr> <tr><td>C - Y = 445,889.3 N</td><td>X = 646,454.4 E</td></tr> <tr><td>D - Y = 448,524.3 N</td><td>X = 646,440.6 E</td></tr> <tr><td>E - Y = 451,157.9 N</td><td>X = 646,426.4 E</td></tr> <tr><td>F - Y = 453,792.1 N</td><td>X = 646,413.4 E</td></tr> <tr><td>G - Y = 456,439.9 N</td><td>X = 646,399.8 E</td></tr> <tr><td>H - Y = 440,626.6 N</td><td>X = 647,797.5 E</td></tr> <tr><td>I - Y = 443,264.7 N</td><td>X = 647,794.7 E</td></tr> <tr><td>J - Y = 445,899.6 N</td><td>X = 647,792.6 E</td></tr> <tr><td>K - Y = 448,535.6 N</td><td>X = 647,776.7 E</td></tr> <tr><td>L - Y = 451,169.8 N</td><td>X = 647,760.7 E</td></tr> <tr><td>M - Y = 453,805.6 N</td><td>X = 647,748.8 E</td></tr> <tr><td>N - Y = 456,449.5 N</td><td>X = 647,736.6 E</td></tr> </table>	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	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	LOT ACREAGE TABLE SECTION 2 LOT 4 - 40.37 ACRES GRID AZ. = 359°46'49" HORIZ. DIST. = 15,523.50' GRID AZ. = 299°01'21" HORIZ. DIST. = 735.09'	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 7/12/2022 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 MARK DILLON HARP 23786 Signature and Seal of Professional Surveyor: MARK DILLON HARP 23786 Certificate Number AW 2019051500
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DRILLING PLAN: BLM COMPLIANCE
(Supplement to BLM 3160-3)

XTO Energy Inc.

PLU 23 Dog Town Draw 105H

Projected TD: 27483' MD / 11502' TVD

SHL: 262' FNL & 1852' FWL , Section 23, T24S, R30E

BHL: 200' FNL & 1210' 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
Wolfcamp B	11779'	Water/Oil/Gas
Target/Land Curve	11502'	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 10639' and cemented to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 27483 MD/TD and 5.5 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 10339 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	1.31	8.90	24.69
8.75	0' – 4000'	7.625	29.7	RY P-110	Flush Joint	New	2.18	2.65	1.77
8.75	4000' – 10639'	7.625	29.7	HC L-80	Flush Joint	New	1.58	1.88	2.06
6.75	0' – 10539'	5.5	23	RY P-110	Semi-Premium	New	1.21	2.31	1.69
6.75	10539' - 27483'	5.5	23	RY P-110	Semi-Flush	New	1.21	2.11	1.82

· 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 +/- 10639'

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: 400 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 +/- 27483'

Lead: 20 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft³/sx, 15.00 gal/sx water) Top of Cement: 10339 feet

Tail: 1190 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft³/sx, 8.38 gal/sx water) Top of Cement: 10839 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 4348 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' - 10639'	8.75	FW / Cut Brine / Direct Emulsion	9.7-10.2	30-32	NC
10639' - 27483'	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 180 to 200 F is anticipated. No H2S is expected but monitors will be in place to detect any H2S occurrences. Should these circumstances be encountered the operator and drilling contractor are prepared to take all necessary steps to ensure safety of all personnel and environment. Lost circulation could occur but is not expected to be a serious problem in this area and hole seepage will be compensated for by additions of small amounts of LCM in the drilling fluid. The maximum anticipated bottom hole pressure for this well is 6878 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 105H

Measured Depth:	27482.53 ft	Site:	PLU 23 DTD PAD B
TVD RKB:	11502.00 ft	Slot:	PLU 23 Dog Town Draw 105H
Location			
Cartographic Reference System:	New Mexico East - NAD 27		
Northing:	440367.96 ft		
Easting:	648328.63 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 105H	
Measured		TVD				Build		Turn		Dogleg	
Depth	Inclination	Azimuth	RKB	Y Offset	X Offset	Rate	Rate	Rate	Rate	Target	
(ft)	(Deg)	(Deg)	(ft)	(ft)	(ft)	(Deg/100ft)	(Deg/100ft)	(Deg/100ft)	(Deg/100ft)		
0.00	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	0.00		
1520.29	8.41	240.88	1518.78	-14.97	-26.89	2.00	0.00	2.00	0.00		
6132.27	8.41	240.88	6081.22	-343.03	-615.88	0.00	0.00	0.00	0.00		
6552.56	0.00	0.00	6500.00	-358.00	-642.76	-2.00	0.00	2.00	0.00		
10838.56	0.00	0.00	10786.00	-358.00	-642.76	0.00	0.00	0.00	0.00		
11963.56	90.00	359.79	11502.20	358.19	-645.41	8.00	0.00	8.00	0.00	PLU 23 DTD BHL 2	
27482.53	90.00	359.79	11502.00	15877.06	-702.78	0.00	0.00	0.00	0.00	PLU 23 DTD BHL 2	

Position Uncertainty			PLU 23 Dog Town Draw 105H															
Measured			TVD			Highside			Lateral		Vertical		Magnitude		Semi-major	Semi-minor	Semi-minor	Tool
Depth	Inclination	Azimuth	RKB	Error	Bias	Error	Bias	Error	Bias	Error	Bias	of Bias	Error	Error	Azimuth	Used		
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)			
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.297	0.000			0.000	0.000	0.000	0.000	XOM_R2OWSG MWD+IFR1+MS		
100.000	0.000	0.000	100.000	0.358	0.000	0.358	0.000	2.299	0.000			0.000	0.358	0.358	0.000	XOM_R2OWSG MWD+IFR1+MS		
200.000	0.000	0.000	200.000	0.717	0.000	0.717	0.000	2.307	0.000			0.000	0.717	0.717	0.000	XOM_R2OWSG MWD+IFR1+MS		
300.000	0.000	0.000	300.000	1.075	0.000	1.075	0.000	2.321	0.000			0.000	1.075	1.075	0.000	XOM_R2OWSG MWD+IFR1+MS		
400.000	0.000	0.000	400.000	1.434	0.000	1.434	0.000	2.340	0.000			0.000	1.434	1.434	0.000	XOM_R2OWSG MWD+IFR1+MS		
500.000	0.000	0.000	500.000	1.792	0.000	1.792	0.000	2.364	0.000			0.000	1.792	1.792	0.000	XOM_R2OWSG MWD+IFR1+MS		
600.000	0.000	0.000	600.000	2.151	0.000	2.151	0.000	2.394	0.000			0.000	2.151	2.151	0.000	XOM_R2OWSG MWD+IFR1+MS		
700.000	0.000	0.000	700.000	2.509	0.000	2.509	0.000	2.428	0.000			0.000	2.509	2.509	0.000	XOM_R2OWSG MWD+IFR1+MS		
800.000	0.000	0.000	800.000	2.868	0.000	2.868	0.000	2.467	0.000			0.000	2.868	2.868	0.000	XOM_R2OWSG MWD+IFR1+MS		
900.000	0.000	0.000	900.000	3.226	0.000	3.226	0.000	2.511	0.000			0.000	3.226	3.226	0.000	XOM_R2OWSG MWD+IFR1+MS		
1000.000	0.000	0.000	1000.000	3.585	0.000	3.585	0.000	2.560	0.000			0.000	3.585	3.585	0.000	XOM_R2OWSG MWD+IFR1+MS		

1100.000	0.000	0.000	1100.000	3.943	0.000	3.943	0.000	2.613	0.000	0.000	3.943	3.943	0.000	XOM_R2OWSG MWD+IFR1+MS
1200.000	2.000	240.884	1199.980	4.286	-0.000	4.288	0.000	2.669	0.000	0.000	4.289	4.288	-18.076	XOM_R2OWSG MWD+IFR1+MS
1300.000	4.000	240.884	1299.838	4.615	-0.000	4.623	0.000	2.728	0.000	0.000	4.625	4.623	-22.847	XOM_R2OWSG MWD+IFR1+MS
1400.000	6.000	240.884	1399.452	4.942	-0.000	4.960	0.000	2.790	0.000	0.000	4.965	4.960	-23.637	XOM_R2OWSG MWD+IFR1+MS
1500.000	8.000	240.884	1498.702	5.266	-0.000	5.300	0.000	2.853	0.000	0.000	5.307	5.300	-24.172	XOM_R2OWSG MWD+IFR1+MS
1520.287	8.406	240.884	1518.781	5.331	-0.000	5.369	0.000	2.863	0.000	0.000	5.379	5.369	-25.232	XOM_R2OWSG MWD+IFR1+MS
1600.000	8.406	240.884	1597.638	5.606	-0.000	5.643	0.000	2.922	0.000	0.000	5.651	5.643	-24.180	XOM_R2OWSG MWD+IFR1+MS
1700.000	8.406	240.884	1696.563	5.954	-0.000	5.988	0.000	3.001	0.000	0.000	5.995	5.988	-22.930	XOM_R2OWSG MWD+IFR1+MS
1800.000	8.406	240.884	1795.489	6.305	-0.000	6.336	0.000	3.085	0.000	0.000	6.342	6.336	-22.383	XOM_R2OWSG MWD+IFR1+MS
1900.000	8.406	240.884	1894.415	6.658	-0.000	6.686	0.000	3.172	0.000	0.000	6.691	6.686	-22.972	XOM_R2OWSG MWD+IFR1+MS
2000.000	8.406	240.884	1993.341	7.014	-0.000	7.038	0.000	3.264	0.000	0.000	7.043	7.038	-25.061	XOM_R2OWSG MWD+IFR1+MS
2100.000	8.406	240.884	2092.267	7.371	-0.000	7.392	0.000	3.358	0.000	0.000	7.396	7.392	-28.651	XOM_R2OWSG MWD+IFR1+MS
2200.000	8.406	240.884	2191.192	7.730	-0.000	7.746	0.000	3.457	0.000	0.000	7.750	7.746	-33.108	XOM_R2OWSG MWD+IFR1+MS
2300.000	8.406	240.884	2290.118	8.090	-0.000	8.102	0.000	3.559	0.000	0.000	8.106	8.102	-37.424	XOM_R2OWSG MWD+IFR1+MS
2400.000	8.406	240.884	2389.044	8.451	-0.000	8.459	0.000	3.664	0.000	0.000	8.464	8.458	-40.899	XOM_R2OWSG MWD+IFR1+MS
2500.000	8.406	240.884	2487.970	8.813	-0.000	8.816	0.000	3.772	0.000	0.000	8.822	8.816	-43.394	XOM_R2OWSG MWD+IFR1+MS
2600.000	8.406	240.884	2586.895	9.176	-0.000	9.175	0.000	3.884	0.000	0.000	9.181	9.174	135.000	XOM_R2OWSG MWD+IFR1+MS
2700.000	8.406	240.884	2685.821	9.540	-0.000	9.534	0.000	3.998	0.000	0.000	9.542	9.533	133.825	XOM_R2OWSG MWD+IFR1+MS
2800.000	8.406	240.884	2784.747	9.904	-0.000	9.893	0.000	4.115	0.000	0.000	9.902	9.892	133.126	XOM_R2OWSG MWD+IFR1+MS
2900.000	8.406	240.884	2883.673	10.269	-0.000	10.254	0.000	4.235	0.000	0.000	10.264	10.252	132.694	XOM_R2OWSG MWD+IFR1+MS
3000.000	8.406	240.884	2982.598	10.635	-0.000	10.614	0.000	4.358	0.000	0.000	10.626	10.613	132.442	XOM_R2OWSG MWD+IFR1+MS
3100.000	8.406	240.884	3081.524	11.001	-0.000	10.975	0.000	4.484	0.000	0.000	10.989	10.974	132.309	XOM_R2OWSG MWD+IFR1+MS
3200.000	8.406	240.884	3180.450	11.368	-0.000	11.337	0.000	4.612	0.000	0.000	11.352	11.335	132.258	XOM_R2OWSG MWD+IFR1+MS
3300.000	8.406	240.884	3279.376	11.735	-0.000	11.699	0.000	4.743	0.000	0.000	11.715	11.697	132.261	XOM_R2OWSG MWD+IFR1+MS
3400.000	8.406	240.884	3378.302	12.102	-0.000	12.061	0.000	4.877	0.000	0.000	12.079	12.059	132.302	XOM_R2OWSG MWD+IFR1+MS
3500.000	8.406	240.884	3477.227	12.470	-0.000	12.423	0.000	5.013	0.000	0.000	12.444	12.421	132.368	XOM_R2OWSG MWD+IFR1+MS
3600.000	8.406	240.884	3576.153	12.838	-0.000	12.786	0.000	5.151	0.000	0.000	12.808	12.783	132.452	XOM_R2OWSG MWD+IFR1+MS
3700.000	8.406	240.884	3675.079	13.206	-0.000	13.149	0.000	5.293	0.000	0.000	13.173	13.146	132.546	XOM_R2OWSG MWD+IFR1+MS
3800.000	8.406	240.884	3774.005	13.575	-0.000	13.512	0.000	5.436	0.000	0.000	13.539	13.509	132.648	XOM_R2OWSG MWD+IFR1+MS
3900.000	8.406	240.884	3872.930	13.944	-0.000	13.876	0.000	5.583	0.000	0.000	13.904	13.873	132.755	XOM_R2OWSG MWD+IFR1+MS
4000.000	8.406	240.884	3971.856	14.313	-0.000	14.239	0.000	5.731	0.000	0.000	14.270	14.236	132.864	XOM_R2OWSG MWD+IFR1+MS
4100.000	8.406	240.884	4070.782	14.682	-0.000	14.603	0.000	5.883	0.000	0.000	14.636	14.600	132.975	XOM_R2OWSG MWD+IFR1+MS
4200.000	8.406	240.884	4169.708	15.052	-0.000	14.967	0.000	6.036	0.000	0.000	15.002	14.963	133.085	XOM_R2OWSG MWD+IFR1+MS

4300.000	8.406	240.884	4268.633	15.422	-0.000	15.331	0.000	6.192	0.000	0.000	15.369	15.327	133.196	XOM_R2OWSG MWD+IFR1+MS
4400.000	8.406	240.884	4367.559	15.791	-0.000	15.695	0.000	6.351	0.000	0.000	15.735	15.691	133.305	XOM_R2OWSG MWD+IFR1+MS
4500.000	8.406	240.884	4466.485	16.161	-0.000	16.060	0.000	6.512	0.000	0.000	16.102	16.056	133.412	XOM_R2OWSG MWD+IFR1+MS
4600.000	8.406	240.884	4565.411	16.532	-0.000	16.424	0.000	6.676	0.000	0.000	16.469	16.420	133.519	XOM_R2OWSG MWD+IFR1+MS
4700.000	8.406	240.884	4664.337	16.902	-0.000	16.789	0.000	6.842	0.000	0.000	16.836	16.784	133.624	XOM_R2OWSG MWD+IFR1+MS
4800.000	8.406	240.884	4763.262	17.272	-0.000	17.154	0.000	7.010	0.000	0.000	17.203	17.149	133.727	XOM_R2OWSG MWD+IFR1+MS
4900.000	8.406	240.884	4862.188	17.643	-0.000	17.519	0.000	7.181	0.000	0.000	17.571	17.514	133.828	XOM_R2OWSG MWD+IFR1+MS
5000.000	8.406	240.884	4961.114	18.013	-0.000	17.884	0.000	7.354	0.000	0.000	17.938	17.878	133.928	XOM_R2OWSG MWD+IFR1+MS
5100.000	8.406	240.884	5060.040	18.384	-0.000	18.249	0.000	7.530	0.000	0.000	18.306	18.243	134.025	XOM_R2OWSG MWD+IFR1+MS
5200.000	8.406	240.884	5158.965	18.755	-0.000	18.614	0.000	7.709	0.000	0.000	18.674	18.608	134.122	XOM_R2OWSG MWD+IFR1+MS
5300.000	8.406	240.884	5257.891	19.126	-0.000	18.979	0.000	7.889	0.000	0.000	19.042	18.973	134.217	XOM_R2OWSG MWD+IFR1+MS
5400.000	8.406	240.884	5356.817	19.497	-0.000	19.344	0.000	8.073	0.000	0.000	19.410	19.338	134.310	XOM_R2OWSG MWD+IFR1+MS
5500.000	8.406	240.884	5455.743	19.868	-0.000	19.710	0.000	8.259	0.000	0.000	19.778	19.704	134.402	XOM_R2OWSG MWD+IFR1+MS
5600.000	8.406	240.884	5554.668	20.239	-0.000	20.075	0.000	8.447	0.000	0.000	20.146	20.069	134.492	XOM_R2OWSG MWD+IFR1+MS
5700.000	8.406	240.884	5653.594	20.610	-0.000	20.441	0.000	8.638	0.000	0.000	20.514	20.434	134.581	XOM_R2OWSG MWD+IFR1+MS
5800.000	8.406	240.884	5752.520	20.982	-0.000	20.806	0.000	8.831	0.000	0.000	20.883	20.800	134.669	XOM_R2OWSG MWD+IFR1+MS
5900.000	8.406	240.884	5851.446	21.353	-0.000	21.172	0.000	9.027	0.000	0.000	21.251	21.165	134.755	XOM_R2OWSG MWD+IFR1+MS
6000.000	8.406	240.884	5950.372	21.725	-0.000	21.537	0.000	9.226	0.000	0.000	21.620	21.531	134.841	XOM_R2OWSG MWD+IFR1+MS
6100.000	8.406	240.884	6049.297	22.096	-0.000	21.903	0.000	9.427	0.000	0.000	21.988	21.896	134.925	XOM_R2OWSG MWD+IFR1+MS
6132.269	8.406	240.884	6081.219	22.216	-0.000	22.021	0.000	9.492	0.000	0.000	22.107	22.014	134.955	XOM_R2OWSG MWD+IFR1+MS
6200.000	7.051	240.884	6148.334	22.475	-0.000	22.268	0.000	9.631	0.000	0.000	22.356	22.261	134.948	XOM_R2OWSG MWD+IFR1+MS
6300.000	5.051	240.884	6247.772	22.832	-0.000	22.630	0.000	9.835	0.000	0.000	22.719	22.622	134.850	XOM_R2OWSG MWD+IFR1+MS
6400.000	3.051	240.884	6347.517	23.161	-0.000	22.988	0.000	10.040	0.000	0.000	23.077	22.980	134.641	XOM_R2OWSG MWD+IFR1+MS
6500.000	1.051	240.884	6447.448	23.460	-0.000	23.342	0.000	10.243	0.000	0.000	23.430	23.334	134.257	XOM_R2OWSG MWD+IFR1+MS
6552.555	0.000	0.000	6500.000	23.563	0.000	23.560	0.000	10.350	0.000	0.000	23.608	23.514	134.103	XOM_R2OWSG MWD+IFR1+MS
6600.000	0.000	0.000	6547.445	23.719	0.000	23.716	0.000	10.446	0.000	0.000	23.764	23.671	134.066	XOM_R2OWSG MWD+IFR1+MS
6700.000	0.000	0.000	6647.445	24.051	0.000	24.048	0.000	10.652	0.000	0.000	24.094	24.004	133.984	XOM_R2OWSG MWD+IFR1+MS
6800.000	0.000	0.000	6747.445	24.383	0.000	24.380	0.000	10.860	0.000	0.000	24.424	24.338	133.898	XOM_R2OWSG MWD+IFR1+MS
6900.000	0.000	0.000	6847.445	24.716	0.000	24.712	0.000	11.071	0.000	0.000	24.756	24.672	133.809	XOM_R2OWSG MWD+IFR1+MS
7000.000	0.000	0.000	6947.445	25.049	0.000	25.046	0.000	11.285	0.000	0.000	25.088	25.008	133.714	XOM_R2OWSG MWD+IFR1+MS
7100.000	0.000	0.000	7047.445	25.384	0.000	25.380	0.000	11.503	0.000	0.000	25.420	25.343	133.615	XOM_R2OWSG MWD+IFR1+MS
7200.000	0.000	0.000	7147.445	25.719	0.000	25.715	0.000	11.723	0.000	0.000	25.754	25.680	133.510	XOM_R2OWSG MWD+IFR1+MS
7300.000	0.000	0.000	7247.445	26.054	0.000	26.050	0.000	11.946	0.000	0.000	26.088	26.016	133.400	

														XOM_R2OWSG MWD+IFR1+MS
7400.000	0.000	0.000	7347.445	26.390	0.000	26.386	0.000	12.172	0.000	0.000	26.422	26.354	133.283	XOM_R2OWSG MWD+IFR1+MS
7500.000	0.000	0.000	7447.445	26.727	0.000	26.723	0.000	12.401	0.000	0.000	26.758	26.692	133.160	XOM_R2OWSG MWD+IFR1+MS
7600.000	0.000	0.000	7547.445	27.064	0.000	27.060	0.000	12.633	0.000	0.000	27.093	27.031	133.029	XOM_R2OWSG MWD+IFR1+MS
7700.000	0.000	0.000	7647.445	27.402	0.000	27.398	0.000	12.868	0.000	0.000	27.430	27.370	132.891	XOM_R2OWSG MWD+IFR1+MS
7800.000	0.000	0.000	7747.445	27.740	0.000	27.736	0.000	13.106	0.000	0.000	27.767	27.709	132.743	XOM_R2OWSG MWD+IFR1+MS
7900.000	0.000	0.000	7847.445	28.079	0.000	28.074	0.000	13.347	0.000	0.000	28.104	28.049	132.586	XOM_R2OWSG MWD+IFR1+MS
8000.000	0.000	0.000	7947.445	28.418	0.000	28.414	0.000	13.591	0.000	0.000	28.442	28.390	132.418	XOM_R2OWSG MWD+IFR1+MS
8100.000	0.000	0.000	8047.445	28.758	0.000	28.753	0.000	13.838	0.000	0.000	28.781	28.731	132.239	XOM_R2OWSG MWD+IFR1+MS
8200.000	0.000	0.000	8147.445	29.098	0.000	29.093	0.000	14.088	0.000	0.000	29.120	29.072	132.047	XOM_R2OWSG MWD+IFR1+MS
8300.000	0.000	0.000	8247.445	29.439	0.000	29.434	0.000	14.341	0.000	0.000	29.459	29.414	131.840	XOM_R2OWSG MWD+IFR1+MS
8400.000	0.000	0.000	8347.445	29.780	0.000	29.775	0.000	14.597	0.000	0.000	29.799	29.756	131.617	XOM_R2OWSG MWD+IFR1+MS
8500.000	0.000	0.000	8447.445	30.122	0.000	30.116	0.000	14.856	0.000	0.000	30.140	30.098	131.377	XOM_R2OWSG MWD+IFR1+MS
8600.000	0.000	0.000	8547.445	30.463	0.000	30.458	0.000	15.118	0.000	0.000	30.480	30.441	131.116	XOM_R2OWSG MWD+IFR1+MS
8700.000	0.000	0.000	8647.445	30.806	0.000	30.800	0.000	15.383	0.000	0.000	30.822	30.784	130.833	XOM_R2OWSG MWD+IFR1+MS
8800.000	0.000	0.000	8747.445	31.148	0.000	31.143	0.000	15.651	0.000	0.000	31.163	31.128	130.524	XOM_R2OWSG MWD+IFR1+MS
8900.000	0.000	0.000	8847.445	31.491	0.000	31.486	0.000	15.922	0.000	0.000	31.505	31.472	130.185	XOM_R2OWSG MWD+IFR1+MS
9000.000	0.000	0.000	8947.445	31.835	0.000	31.829	0.000	16.196	0.000	0.000	31.847	31.816	129.813	XOM_R2OWSG MWD+IFR1+MS
9100.000	0.000	0.000	9047.445	32.178	0.000	32.172	0.000	16.473	0.000	0.000	32.190	32.161	129.403	XOM_R2OWSG MWD+IFR1+MS
9200.000	0.000	0.000	9147.445	32.522	0.000	32.516	0.000	16.753	0.000	0.000	32.533	32.505	128.947	XOM_R2OWSG MWD+IFR1+MS
9300.000	0.000	0.000	9247.445	32.866	0.000	32.861	0.000	17.036	0.000	0.000	32.876	32.851	128.439	XOM_R2OWSG MWD+IFR1+MS
9400.000	0.000	0.000	9347.445	33.211	0.000	33.205	0.000	17.323	0.000	0.000	33.220	33.196	127.869	XOM_R2OWSG MWD+IFR1+MS
9500.000	0.000	0.000	9447.445	33.556	0.000	33.550	0.000	17.612	0.000	0.000	33.564	33.542	127.226	XOM_R2OWSG MWD+IFR1+MS
9600.000	0.000	0.000	9547.445	33.901	0.000	33.895	0.000	17.904	0.000	0.000	33.908	33.888	126.496	XOM_R2OWSG MWD+IFR1+MS
9700.000	0.000	0.000	9647.445	34.246	0.000	34.240	0.000	18.199	0.000	0.000	34.253	34.234	125.661	XOM_R2OWSG MWD+IFR1+MS
9800.000	0.000	0.000	9747.445	34.592	0.000	34.586	0.000	18.497	0.000	0.000	34.598	34.580	124.698	XOM_R2OWSG MWD+IFR1+MS
9900.000	0.000	0.000	9847.445	34.938	0.000	34.932	0.000	18.798	0.000	0.000	34.943	34.927	123.578	XOM_R2OWSG MWD+IFR1+MS
10000.000	0.000	0.000	9947.445	35.284	0.000	35.278	0.000	19.102	0.000	0.000	35.288	35.274	122.264	XOM_R2OWSG MWD+IFR1+MS
10100.000	0.000	0.000	10047.445	35.631	0.000	35.624	0.000	19.409	0.000	0.000	35.634	35.621	120.708	XOM_R2OWSG MWD+IFR1+MS
10200.000	0.000	0.000	10147.445	35.977	0.000	35.971	0.000	19.719	0.000	0.000	35.980	35.968	118.848	XOM_R2OWSG MWD+IFR1+MS
10300.000	0.000	0.000	10247.445	36.324	0.000	36.318	0.000	20.032	0.000	0.000	36.326	36.315	116.607	XOM_R2OWSG MWD+IFR1+MS
10400.000	0.000	0.000	10347.445	36.671	0.000	36.665	0.000	20.349	0.000	0.000	36.673	36.663	113.893	XOM_R2OWSG MWD+IFR1+MS
10500.000	0.000	0.000	10447.445	37.019	0.000	37.012	0.000	20.668	0.000	0.000	37.020	37.011	110.605	XOM_R2OWSG MWD+IFR1+MS

10600.000	0.000	0.000	10547.445	37.366	0.000	37.359	0.000	20.990	0.000	0.000	37.367	37.359	106.657	XOM_R2OWSG MWD+IFR1+MS
10700.000	0.000	0.000	10647.445	37.714	0.000	37.707	0.000	21.315	0.000	0.000	37.714	37.707	102.028	XOM_R2OWSG MWD+IFR1+MS
10800.000	0.000	0.000	10747.445	38.062	0.000	38.055	0.000	21.643	0.000	0.000	38.062	38.055	96.825	XOM_R2OWSG MWD+IFR1+MS
10838.555	0.000	0.000	10786.000	38.196	0.000	38.189	0.000	21.771	0.000	0.000	38.196	38.189	94.719	XOM_R2OWSG MWD+IFR1+MS
10900.000	4.916	359.788	10847.369	38.234	0.000	38.402	0.000	21.973	0.000	0.000	38.408	38.402	86.383	XOM_R2OWSG MWD+IFR1+MS
11000.000	12.916	359.788	10946.081	37.886	0.000	38.740	0.000	22.297	0.000	0.000	38.744	38.736	41.738	XOM_R2OWSG MWD+IFR1+MS
11100.000	20.916	359.788	11041.677	37.049	0.000	39.065	0.000	22.604	0.000	0.000	39.069	39.043	23.470	XOM_R2OWSG MWD+IFR1+MS
11200.000	28.916	359.788	11132.296	35.768	0.000	39.370	0.000	22.891	0.000	0.000	39.375	39.317	16.553	XOM_R2OWSG MWD+IFR1+MS
11300.000	36.916	359.788	11216.175	34.113	0.000	39.653	0.000	23.154	0.000	0.000	39.658	39.552	12.270	XOM_R2OWSG MWD+IFR1+MS
11400.000	44.916	359.788	11291.681	32.184	0.000	39.910	0.000	23.392	0.000	0.000	39.914	39.746	9.045	XOM_R2OWSG MWD+IFR1+MS
11500.000	52.916	359.788	11357.345	30.115	0.000	40.138	0.000	23.606	0.000	0.000	40.141	39.899	6.357	XOM_R2OWSG MWD+IFR1+MS
11600.000	60.916	359.788	11411.888	28.079	0.000	40.334	0.000	23.801	0.000	0.000	40.336	40.010	3.961	XOM_R2OWSG MWD+IFR1+MS
11700.000	68.916	359.788	11454.249	26.291	0.000	40.498	0.000	23.982	0.000	0.000	40.498	40.084	1.712	XOM_R2OWSG MWD+IFR1+MS
11800.000	76.916	359.788	11483.603	24.986	0.000	40.626	0.000	24.154	0.000	0.000	40.626	40.127	-0.505	XOM_R2OWSG MWD+IFR1+MS
11900.000	84.916	359.788	11499.379	24.383	0.000	40.718	0.000	24.323	0.000	0.000	40.720	40.147	-2.818	XOM_R2OWSG MWD+IFR1+MS
11963.555	90.000	359.788	11502.197	24.430	0.000	40.757	0.000	24.430	0.000	0.000	40.761	40.152	-4.421	XOM_R2OWSG MWD+IFR1+MS
12000.000	90.000	359.788	11502.197	24.493	0.000	40.776	0.000	24.493	0.000	0.000	40.781	40.153	-5.348	XOM_R2OWSG MWD+IFR1+MS
12100.000	90.000	359.788	11502.197	24.682	0.000	40.835	0.000	24.682	0.000	0.000	40.846	40.155	-7.525	XOM_R2OWSG MWD+IFR1+MS
12200.000	90.000	359.788	11502.197	24.894	0.000	40.905	0.000	24.894	0.000	0.000	40.923	40.157	-9.209	XOM_R2OWSG MWD+IFR1+MS
12300.000	90.000	359.788	11502.197	25.128	0.000	40.985	0.000	25.128	0.000	0.000	41.012	40.159	-10.467	XOM_R2OWSG MWD+IFR1+MS
12400.000	90.000	359.788	11502.197	25.385	0.000	41.077	0.000	25.385	0.000	0.000	41.112	40.162	-11.375	XOM_R2OWSG MWD+IFR1+MS
12500.000	90.000	359.788	11502.197	25.664	0.000	41.179	0.000	25.664	0.000	0.000	41.222	40.166	-12.004	XOM_R2OWSG MWD+IFR1+MS
12600.000	90.000	359.788	11502.197	25.963	0.000	41.291	0.000	25.963	0.000	0.000	41.343	40.172	-12.417	XOM_R2OWSG MWD+IFR1+MS
12700.000	90.000	359.788	11502.197	26.282	0.000	41.414	0.000	26.282	0.000	0.000	41.474	40.178	-12.662	XOM_R2OWSG MWD+IFR1+MS
12800.000	90.000	359.788	11502.197	26.620	0.000	41.548	0.000	26.620	0.000	0.000	41.614	40.187	-12.779	XOM_R2OWSG MWD+IFR1+MS
12900.000	90.000	359.788	11502.197	26.978	0.000	41.691	0.000	26.978	0.000	0.000	41.764	40.196	-12.800	XOM_R2OWSG MWD+IFR1+MS
13000.000	90.000	359.788	11502.197	27.352	0.000	41.845	0.000	27.352	0.000	0.000	41.924	40.208	-12.748	XOM_R2OWSG MWD+IFR1+MS
13100.000	90.000	359.788	11502.197	27.745	0.000	42.009	0.000	27.745	0.000	0.000	42.093	40.221	-12.641	XOM_R2OWSG MWD+IFR1+MS
13200.000	90.000	359.788	11502.197	28.153	0.000	42.182	0.000	28.153	0.000	0.000	42.272	40.235	-12.494	XOM_R2OWSG MWD+IFR1+MS
13300.000	90.000	359.788	11502.197	28.577	0.000	42.366	0.000	28.577	0.000	0.000	42.460	40.251	-12.317	XOM_R2OWSG MWD+IFR1+MS
13400.000	90.000	359.788	11502.197	29.016	0.000	42.559	0.000	29.016	0.000	0.000	42.658	40.268	-12.120	XOM_R2OWSG MWD+IFR1+MS
13500.000	90.000	359.788	11502.197	29.470	0.000	42.761	0.000	29.470	0.000	0.000	42.864	40.287	-11.908	XOM_R2OWSG MWD+IFR1+MS
13600.000	90.000	359.788	11502.197	29.937	0.000	42.973	0.000	29.937	0.000	0.000	43.080	40.307	-11.687	

														XOM_R2OWSG MWD+IFR1+MS
13700.000	90.000	359.788	11502.197	30.418	0.000	43.194	0.000	30.418	0.000	0.000	43.304	40.329	-11.461	XOM_R2OWSG MWD+IFR1+MS
13800.000	90.000	359.788	11502.197	30.910	0.000	43.425	0.000	30.910	0.000	0.000	43.537	40.352	-11.232	XOM_R2OWSG MWD+IFR1+MS
13900.000	90.000	359.788	11502.197	31.415	0.000	43.664	0.000	31.415	0.000	0.000	43.779	40.376	-11.003	XOM_R2OWSG MWD+IFR1+MS
14000.000	90.000	359.788	11502.197	31.931	0.000	43.912	0.000	31.931	0.000	0.000	44.029	40.402	-10.776	XOM_R2OWSG MWD+IFR1+MS
14100.000	90.000	359.788	11502.197	32.458	0.000	44.169	0.000	32.458	0.000	0.000	44.288	40.428	-10.551	XOM_R2OWSG MWD+IFR1+MS
14200.000	90.000	359.788	11502.197	32.995	0.000	44.435	0.000	32.995	0.000	0.000	44.556	40.456	-10.331	XOM_R2OWSG MWD+IFR1+MS
14300.000	90.000	359.788	11502.197	33.542	0.000	44.708	0.000	33.542	0.000	0.000	44.831	40.486	-10.115	XOM_R2OWSG MWD+IFR1+MS
14400.000	90.000	359.788	11502.197	34.098	0.000	44.990	0.000	34.098	0.000	0.000	45.114	40.516	-9.904	XOM_R2OWSG MWD+IFR1+MS
14500.000	90.000	359.788	11502.197	34.663	0.000	45.280	0.000	34.663	0.000	0.000	45.406	40.548	-9.698	XOM_R2OWSG MWD+IFR1+MS
14600.000	90.000	359.788	11502.197	35.236	0.000	45.578	0.000	35.236	0.000	0.000	45.705	40.581	-9.498	XOM_R2OWSG MWD+IFR1+MS
14700.000	90.000	359.788	11502.197	35.818	0.000	45.884	0.000	35.818	0.000	0.000	46.011	40.615	-9.304	XOM_R2OWSG MWD+IFR1+MS
14800.000	90.000	359.788	11502.197	36.407	0.000	46.198	0.000	36.407	0.000	0.000	46.325	40.650	-9.115	XOM_R2OWSG MWD+IFR1+MS
14900.000	90.000	359.788	11502.197	37.003	0.000	46.518	0.000	37.003	0.000	0.000	46.647	40.686	-8.932	XOM_R2OWSG MWD+IFR1+MS
15000.000	90.000	359.788	11502.197	37.606	0.000	46.846	0.000	37.606	0.000	0.000	46.975	40.724	-8.755	XOM_R2OWSG MWD+IFR1+MS
15100.000	90.000	359.788	11502.197	38.216	0.000	47.182	0.000	38.216	0.000	0.000	47.311	40.762	-8.583	XOM_R2OWSG MWD+IFR1+MS
15200.000	90.000	359.788	11502.197	38.832	0.000	47.524	0.000	38.832	0.000	0.000	47.654	40.802	-8.417	XOM_R2OWSG MWD+IFR1+MS
15300.000	90.000	359.788	11502.197	39.454	0.000	47.873	0.000	39.454	0.000	0.000	48.003	40.843	-8.256	XOM_R2OWSG MWD+IFR1+MS
15400.000	90.000	359.788	11502.197	40.082	0.000	48.229	0.000	40.082	0.000	0.000	48.359	40.885	-8.100	XOM_R2OWSG MWD+IFR1+MS
15500.000	90.000	359.788	11502.197	40.715	0.000	48.591	0.000	40.715	0.000	0.000	48.721	40.927	-7.949	XOM_R2OWSG MWD+IFR1+MS
15600.000	90.000	359.788	11502.197	41.354	0.000	48.960	0.000	41.354	0.000	0.000	49.090	40.971	-7.803	XOM_R2OWSG MWD+IFR1+MS
15700.000	90.000	359.788	11502.197	41.997	0.000	49.335	0.000	41.997	0.000	0.000	49.465	41.017	-7.662	XOM_R2OWSG MWD+IFR1+MS
15800.000	90.000	359.788	11502.197	42.645	0.000	49.716	0.000	42.645	0.000	0.000	49.846	41.063	-7.525	XOM_R2OWSG MWD+IFR1+MS
15900.000	90.000	359.788	11502.197	43.298	0.000	50.103	0.000	43.298	0.000	0.000	50.233	41.110	-7.393	XOM_R2OWSG MWD+IFR1+MS
16000.000	90.000	359.788	11502.197	43.955	0.000	50.496	0.000	43.955	0.000	0.000	50.626	41.158	-7.264	XOM_R2OWSG MWD+IFR1+MS
16100.000	90.000	359.788	11502.197	44.616	0.000	50.895	0.000	44.616	0.000	0.000	51.024	41.207	-7.140	XOM_R2OWSG MWD+IFR1+MS
16200.000	90.000	359.788	11502.197	45.281	0.000	51.299	0.000	45.281	0.000	0.000	51.428	41.258	-7.020	XOM_R2OWSG MWD+IFR1+MS
16300.000	90.000	359.788	11502.197	45.950	0.000	51.709	0.000	45.950	0.000	0.000	51.837	41.309	-6.903	XOM_R2OWSG MWD+IFR1+MS
16400.000	90.000	359.788	11502.197	46.622	0.000	52.124	0.000	46.622	0.000	0.000	52.252	41.361	-6.790	XOM_R2OWSG MWD+IFR1+MS
16500.000	90.000	359.788	11502.197	47.298	0.000	52.544	0.000	47.298	0.000	0.000	52.671	41.415	-6.680	XOM_R2OWSG MWD+IFR1+MS
16600.000	90.000	359.788	11502.197	47.977	0.000	52.969	0.000	47.977	0.000	0.000	53.096	41.469	-6.574	XOM_R2OWSG MWD+IFR1+MS
16700.000	90.000	359.788	11502.197	48.660	0.000	53.399	0.000	48.660	0.000	0.000	53.526	41.525	-6.470	XOM_R2OWSG MWD+IFR1+MS
16800.000	90.000	359.788	11502.197	49.345	0.000	53.834	0.000	49.345	0.000	0.000	53.960	41.581	-6.370	XOM_R2OWSG MWD+IFR1+MS

16900.000	90.000	359.788	11502.197	50.033	0.000	54.274	0.000	50.033	0.000	0.000	54.400	41.638	-6.273	XOM_R2OWSG MWD+IFR1+MS
17000.000	90.000	359.788	11502.197	50.725	0.000	54.718	0.000	50.725	0.000	0.000	54.843	41.697	-6.179	XOM_R2OWSG MWD+IFR1+MS
17100.000	90.000	359.788	11502.197	51.419	0.000	55.167	0.000	51.419	0.000	0.000	55.292	41.756	-6.087	XOM_R2OWSG MWD+IFR1+MS
17200.000	90.000	359.788	11502.197	52.115	0.000	55.620	0.000	52.115	0.000	0.000	55.744	41.816	-5.998	XOM_R2OWSG MWD+IFR1+MS
17300.000	90.000	359.788	11502.197	52.814	0.000	56.078	0.000	52.814	0.000	0.000	56.201	41.878	-5.911	XOM_R2OWSG MWD+IFR1+MS
17400.000	90.000	359.788	11502.197	53.515	0.000	56.539	0.000	53.515	0.000	0.000	56.662	41.940	-5.827	XOM_R2OWSG MWD+IFR1+MS
17500.000	90.000	359.788	11502.197	54.219	0.000	57.005	0.000	54.219	0.000	0.000	57.127	42.003	-5.745	XOM_R2OWSG MWD+IFR1+MS
17600.000	90.000	359.788	11502.197	54.925	0.000	57.475	0.000	54.925	0.000	0.000	57.596	42.067	-5.665	XOM_R2OWSG MWD+IFR1+MS
17700.000	90.000	359.788	11502.197	55.632	0.000	57.948	0.000	55.632	0.000	0.000	58.069	42.132	-5.588	XOM_R2OWSG MWD+IFR1+MS
17800.000	90.000	359.788	11502.197	56.342	0.000	58.425	0.000	56.342	0.000	0.000	58.546	42.198	-5.512	XOM_R2OWSG MWD+IFR1+MS
17900.000	90.000	359.788	11502.197	57.054	0.000	58.906	0.000	57.054	0.000	0.000	59.026	42.265	-5.439	XOM_R2OWSG MWD+IFR1+MS
18000.000	90.000	359.788	11502.197	57.768	0.000	59.391	0.000	57.768	0.000	0.000	59.510	42.333	-5.367	XOM_R2OWSG MWD+IFR1+MS
18100.000	90.000	359.788	11502.197	58.484	0.000	59.879	0.000	58.484	0.000	0.000	59.997	42.402	-5.298	XOM_R2OWSG MWD+IFR1+MS
18200.000	90.000	359.788	11502.197	59.201	0.000	60.371	0.000	59.201	0.000	0.000	60.488	42.472	-5.230	XOM_R2OWSG MWD+IFR1+MS
18300.000	90.000	359.788	11502.197	59.920	0.000	60.866	0.000	59.920	0.000	0.000	60.982	42.542	-5.163	XOM_R2OWSG MWD+IFR1+MS
18400.000	90.000	359.788	11502.197	60.641	0.000	61.364	0.000	60.641	0.000	0.000	61.480	42.614	-5.099	XOM_R2OWSG MWD+IFR1+MS
18500.000	90.000	359.788	11502.197	61.363	0.000	61.865	0.000	61.363	0.000	0.000	61.980	42.686	-5.036	XOM_R2OWSG MWD+IFR1+MS
18600.000	90.000	359.788	11502.197	62.087	0.000	62.369	0.000	62.087	0.000	0.000	62.484	42.760	-4.975	XOM_R2OWSG MWD+IFR1+MS
18700.000	90.000	359.788	11502.197	62.812	0.000	62.877	0.000	62.812	0.000	0.000	62.991	42.834	-4.915	XOM_R2OWSG MWD+IFR1+MS
18800.000	90.000	359.788	11502.197	63.539	0.000	63.387	0.000	63.539	0.000	0.000	63.500	42.909	-4.856	XOM_R2OWSG MWD+IFR1+MS
18900.000	90.000	359.788	11502.197	64.267	0.000	63.900	0.000	64.267	0.000	0.000	64.013	42.985	-4.799	XOM_R2OWSG MWD+IFR1+MS
19000.000	90.000	359.788	11502.197	64.996	0.000	64.417	0.000	64.996	0.000	0.000	64.528	43.062	-4.743	XOM_R2OWSG MWD+IFR1+MS
19100.000	90.000	359.788	11502.197	65.727	0.000	64.935	0.000	65.727	0.000	0.000	65.046	43.140	-4.689	XOM_R2OWSG MWD+IFR1+MS
19200.000	90.000	359.788	11502.197	66.458	0.000	65.457	0.000	66.458	0.000	0.000	65.567	43.219	-4.635	XOM_R2OWSG MWD+IFR1+MS
19300.000	90.000	359.788	11502.197	67.191	0.000	65.981	0.000	67.191	0.000	0.000	66.091	43.298	-4.583	XOM_R2OWSG MWD+IFR1+MS
19400.000	90.000	359.788	11502.197	67.926	0.000	66.508	0.000	67.926	0.000	0.000	66.617	43.379	-4.533	XOM_R2OWSG MWD+IFR1+MS
19500.000	90.000	359.788	11502.197	68.661	0.000	67.037	0.000	68.661	0.000	0.000	67.145	43.460	-4.483	XOM_R2OWSG MWD+IFR1+MS
19600.000	90.000	359.788	11502.197	69.397	0.000	67.569	0.000	69.397	0.000	0.000	67.676	43.542	-4.434	XOM_R2OWSG MWD+IFR1+MS
19700.000	90.000	359.788	11502.197	70.135	0.000	68.103	0.000	70.135	0.000	0.000	68.209	43.625	-4.387	XOM_R2OWSG MWD+IFR1+MS
19800.000	90.000	359.788	11502.197	70.873	0.000	68.639	0.000	70.873	0.000	0.000	68.745	43.709	-4.340	XOM_R2OWSG MWD+IFR1+MS
19900.000	90.000	359.788	11502.197	71.613	0.000	69.178	0.000	71.613	0.000	0.000	69.283	43.793	-4.295	XOM_R2OWSG MWD+IFR1+MS
20000.000	90.000	359.788	11502.197	72.353	0.000	69.718	0.000	72.353	0.000	0.000	69.823	43.879	-4.250	XOM_R2OWSG MWD+IFR1+MS
20100.000	90.000	359.788	11502.197	73.095	0.000	70.261	0.000	73.095	0.000	0.000	70.366	43.965	-4.207	

															XOM_R2OWSG MWD+IFR1+MS
20200.000	90.000	359.788	11502.197	73.837	0.000	70.807	0.000	73.837	0.000	0.000	70.910	44.052	-4.164	XOM_R2OWSG MWD+IFR1+MS	
20300.000	90.000	359.788	11502.197	74.580	0.000	71.354	0.000	74.580	0.000	0.000	71.457	44.140	-4.122	XOM_R2OWSG MWD+IFR1+MS	
20400.000	90.000	359.788	11502.197	75.324	0.000	71.903	0.000	75.324	0.000	0.000	72.005	44.229	-4.081	XOM_R2OWSG MWD+IFR1+MS	
20500.000	90.000	359.788	11502.197	76.069	0.000	72.454	0.000	76.069	0.000	0.000	72.556	44.318	-4.041	XOM_R2OWSG MWD+IFR1+MS	
20600.000	90.000	359.788	11502.197	76.814	0.000	73.007	0.000	76.814	0.000	0.000	73.108	44.408	-4.002	XOM_R2OWSG MWD+IFR1+MS	
20700.000	90.000	359.788	11502.197	77.560	0.000	73.562	0.000	77.560	0.000	0.000	73.662	44.500	-3.963	XOM_R2OWSG MWD+IFR1+MS	
20800.000	90.000	359.788	11502.197	78.308	0.000	74.119	0.000	78.308	0.000	0.000	74.219	44.591	-3.925	XOM_R2OWSG MWD+IFR1+MS	
20900.000	90.000	359.788	11502.197	79.055	0.000	74.678	0.000	79.055	0.000	0.000	74.777	44.684	-3.888	XOM_R2OWSG MWD+IFR1+MS	
21000.000	90.000	359.788	11502.197	79.804	0.000	75.238	0.000	79.804	0.000	0.000	75.336	44.778	-3.852	XOM_R2OWSG MWD+IFR1+MS	
21100.000	90.000	359.788	11502.197	80.553	0.000	75.800	0.000	80.553	0.000	0.000	75.898	44.872	-3.816	XOM_R2OWSG MWD+IFR1+MS	
21200.000	90.000	359.788	11502.197	81.303	0.000	76.364	0.000	81.303	0.000	0.000	76.461	44.967	-3.781	XOM_R2OWSG MWD+IFR1+MS	
21300.000	90.000	359.788	11502.197	82.054	0.000	76.930	0.000	82.054	0.000	0.000	77.026	45.063	-3.747	XOM_R2OWSG MWD+IFR1+MS	
21400.000	90.000	359.788	11502.197	82.805	0.000	77.497	0.000	82.805	0.000	0.000	77.593	45.159	-3.713	XOM_R2OWSG MWD+IFR1+MS	
21500.000	90.000	359.788	11502.197	83.557	0.000	78.066	0.000	83.557	0.000	0.000	78.161	45.256	-3.680	XOM_R2OWSG MWD+IFR1+MS	
21600.000	90.000	359.788	11502.197	84.309	0.000	78.636	0.000	84.309	0.000	0.000	78.730	45.354	-3.648	XOM_R2OWSG MWD+IFR1+MS	
21700.000	90.000	359.788	11502.197	85.062	0.000	79.207	0.000	85.062	0.000	0.000	79.301	45.453	-3.616	XOM_R2OWSG MWD+IFR1+MS	
21800.000	90.000	359.788	11502.197	85.816	0.000	79.781	0.000	85.816	0.000	0.000	79.874	45.553	-3.585	XOM_R2OWSG MWD+IFR1+MS	
21900.000	90.000	359.788	11502.197	86.570	0.000	80.355	0.000	86.570	0.000	0.000	80.448	45.653	-3.554	XOM_R2OWSG MWD+IFR1+MS	
22000.000	90.000	359.788	11502.197	87.324	0.000	80.931	0.000	87.324	0.000	0.000	81.024	45.754	-3.524	XOM_R2OWSG MWD+IFR1+MS	
22100.000	90.000	359.788	11502.197	88.079	0.000	81.509	0.000	88.079	0.000	0.000	81.601	45.855	-3.494	XOM_R2OWSG MWD+IFR1+MS	
22200.000	90.000	359.788	11502.197	88.835	0.000	82.088	0.000	88.835	0.000	0.000	82.179	45.958	-3.465	XOM_R2OWSG MWD+IFR1+MS	
22300.000	90.000	359.788	11502.197	89.591	0.000	82.668	0.000	89.591	0.000	0.000	82.758	46.061	-3.437	XOM_R2OWSG MWD+IFR1+MS	
22400.000	90.000	359.788	11502.197	90.348	0.000	83.249	0.000	90.348	0.000	0.000	83.339	46.165	-3.409	XOM_R2OWSG MWD+IFR1+MS	
22500.000	90.000	359.788	11502.197	91.105	0.000	83.832	0.000	91.105	0.000	0.000	83.921	46.269	-3.381	XOM_R2OWSG MWD+IFR1+MS	
22600.000	90.000	359.788	11502.197	91.863	0.000	84.416	0.000	91.863	0.000	0.000	84.505	46.375	-3.354	XOM_R2OWSG MWD+IFR1+MS	
22700.000	90.000	359.788	11502.197	92.621	0.000	85.001	0.000	92.621	0.000	0.000	85.090	46.480	-3.327	XOM_R2OWSG MWD+IFR1+MS	
22800.000	90.000	359.788	11502.197	93.379	0.000	85.588	0.000	93.379	0.000	0.000	85.675	46.587	-3.301	XOM_R2OWSG MWD+IFR1+MS	
22900.000	90.000	359.788	11502.197	94.138	0.000	86.175	0.000	94.138	0.000	0.000	86.262	46.694	-3.275	XOM_R2OWSG MWD+IFR1+MS	
23000.000	90.000	359.788	11502.197	94.898	0.000	86.764	0.000	94.898	0.000	0.000	86.851	46.802	-3.250	XOM_R2OWSG MWD+IFR1+MS	
23100.000	90.000	359.788	11502.197	95.657	0.000	87.354	0.000	95.657	0.000	0.000	87.440	46.911	-3.225	XOM_R2OWSG MWD+IFR1+MS	
23200.000	90.000	359.788	11502.197	96.418	0.000	87.945	0.000	96.418	0.000	0.000	88.030	47.020	-3.200	XOM_R2OWSG MWD+IFR1+MS	
23300.000	90.000	359.788	11502.197	97.178	0.000	88.537	0.000	97.178	0.000	0.000	88.622	47.130	-3.176	XOM_R2OWSG MWD+IFR1+MS	

23400.000	90.000	359.788	11502.197	97.939	0.000	89.130	0.000	97.939	0.000	0.000	89.214	47.241	-3.152	XOM_R2OWSG MWD+IFR1+MS
23500.000	90.000	359.788	11502.197	98.701	0.000	89.724	0.000	98.701	0.000	0.000	89.808	47.352	-3.128	XOM_R2OWSG MWD+IFR1+MS
23600.000	90.000	359.788	11502.197	99.462	0.000	90.319	0.000	99.462	0.000	0.000	90.403	47.464	-3.105	XOM_R2OWSG MWD+IFR1+MS
23700.000	90.000	359.788	11502.197	100.224	0.000	90.915	0.000	100.224	0.000	0.000	90.998	47.577	-3.083	XOM_R2OWSG MWD+IFR1+MS
23800.000	90.000	359.788	11502.197	100.987	0.000	91.512	0.000	100.987	0.000	0.000	91.595	47.690	-3.060	XOM_R2OWSG MWD+IFR1+MS
23900.000	90.000	359.788	11502.197	101.749	0.000	92.111	0.000	101.749	0.000	0.000	92.192	47.804	-3.038	XOM_R2OWSG MWD+IFR1+MS
24000.000	90.000	359.788	11502.197	102.512	0.000	92.710	0.000	102.512	0.000	0.000	92.791	47.919	-3.017	XOM_R2OWSG MWD+IFR1+MS
24100.000	90.000	359.788	11502.197	103.276	0.000	93.309	0.000	103.276	0.000	0.000	93.390	48.034	-2.995	XOM_R2OWSG MWD+IFR1+MS
24200.000	90.000	359.788	11502.197	104.040	0.000	93.910	0.000	104.040	0.000	0.000	93.991	48.150	-2.974	XOM_R2OWSG MWD+IFR1+MS
24300.000	90.000	359.788	11502.197	104.804	0.000	94.512	0.000	104.804	0.000	0.000	94.592	48.266	-2.953	XOM_R2OWSG MWD+IFR1+MS
24400.000	90.000	359.788	11502.197	105.568	0.000	95.115	0.000	105.568	0.000	0.000	95.194	48.383	-2.933	XOM_R2OWSG MWD+IFR1+MS
24500.000	90.000	359.788	11502.197	106.333	0.000	95.718	0.000	106.333	0.000	0.000	95.797	48.501	-2.913	XOM_R2OWSG MWD+IFR1+MS
24600.000	90.000	359.788	11502.197	107.097	0.000	96.322	0.000	107.097	0.000	0.000	96.401	48.619	-2.893	XOM_R2OWSG MWD+IFR1+MS
24700.000	90.000	359.788	11502.197	107.863	0.000	96.928	0.000	107.863	0.000	0.000	97.006	48.738	-2.873	XOM_R2OWSG MWD+IFR1+MS
24800.000	90.000	359.788	11502.197	108.628	0.000	97.533	0.000	108.628	0.000	0.000	97.611	48.857	-2.854	XOM_R2OWSG MWD+IFR1+MS
24900.000	90.000	359.788	11502.197	109.394	0.000	98.140	0.000	109.394	0.000	0.000	98.217	48.977	-2.835	XOM_R2OWSG MWD+IFR1+MS
25000.000	90.000	359.788	11502.197	110.160	0.000	98.748	0.000	110.160	0.000	0.000	98.825	49.098	-2.816	XOM_R2OWSG MWD+IFR1+MS
25100.000	90.000	359.788	11502.197	110.926	0.000	99.356	0.000	110.926	0.000	0.000	99.432	49.219	-2.798	XOM_R2OWSG MWD+IFR1+MS
25200.000	90.000	359.788	11502.197	111.693	0.000	99.965	0.000	111.693	0.000	0.000	100.041	49.341	-2.780	XOM_R2OWSG MWD+IFR1+MS
25300.000	90.000	359.788	11502.197	112.459	0.000	100.575	0.000	112.459	0.000	0.000	100.650	49.463	-2.762	XOM_R2OWSG MWD+IFR1+MS
25400.000	90.000	359.788	11502.197	113.227	0.000	101.185	0.000	113.227	0.000	0.000	101.260	49.586	-2.744	XOM_R2OWSG MWD+IFR1+MS
25500.000	90.000	359.788	11502.197	113.994	0.000	101.796	0.000	113.994	0.000	0.000	101.871	49.710	-2.727	XOM_R2OWSG MWD+IFR1+MS
25600.000	90.000	359.788	11502.197	114.761	0.000	102.408	0.000	114.761	0.000	0.000	102.482	49.834	-2.709	XOM_R2OWSG MWD+IFR1+MS
25700.000	90.000	359.788	11502.197	115.529	0.000	103.021	0.000	115.529	0.000	0.000	103.095	49.958	-2.692	XOM_R2OWSG MWD+IFR1+MS
25800.000	90.000	359.788	11502.197	116.297	0.000	103.634	0.000	116.297	0.000	0.000	103.707	50.083	-2.676	XOM_R2OWSG MWD+IFR1+MS
25900.000	90.000	359.788	11502.197	117.065	0.000	104.248	0.000	117.065	0.000	0.000	104.321	50.209	-2.659	XOM_R2OWSG MWD+IFR1+MS
26000.000	90.000	359.788	11502.197	117.834	0.000	104.862	0.000	117.834	0.000	0.000	104.935	50.335	-2.643	XOM_R2OWSG MWD+IFR1+MS
26100.000	90.000	359.788	11502.197	118.602	0.000	105.478	0.000	118.602	0.000	0.000	105.550	50.462	-2.627	XOM_R2OWSG MWD+IFR1+MS
26200.000	90.000	359.788	11502.197	119.371	0.000	106.093	0.000	119.371	0.000	0.000	106.165	50.590	-2.611	XOM_R2OWSG MWD+IFR1+MS
26300.000	90.000	359.788	11502.197	120.140	0.000	106.710	0.000	120.140	0.000	0.000	106.781	50.718	-2.595	XOM_R2OWSG MWD+IFR1+MS
26400.000	90.000	359.788	11502.197	120.909	0.000	107.327	0.000	120.909	0.000	0.000	107.398	50.846	-2.580	XOM_R2OWSG MWD+IFR1+MS
26500.000	90.000	359.788	11502.197	121.679	0.000	107.944	0.000	121.679	0.000	0.000	108.015	50.975	-2.564	XOM_R2OWSG MWD+IFR1+MS
26600.000	90.000	359.788	11502.197	122.449	0.000	108.563	0.000	122.449	0.000	0.000	108.633	51.104	-2.549	

														XOM_R2OWSG MWD+IFR1+MS
26700.000	90.000	359.788	11502.197	123.218	0.000	109.181	0.000	123.218	0.000	0.000	109.251	51.234	-2.534	XOM_R2OWSG MWD+IFR1+MS
26800.000	90.000	359.788	11502.197	123.988	0.000	109.801	0.000	123.988	0.000	0.000	109.870	51.365	-2.520	XOM_R2OWSG MWD+IFR1+MS
26900.000	90.000	359.788	11502.197	124.759	0.000	110.421	0.000	124.759	0.000	0.000	110.490	51.496	-2.505	XOM_R2OWSG MWD+IFR1+MS
27000.000	90.000	359.788	11502.197	125.529	0.000	111.041	0.000	125.529	0.000	0.000	111.110	51.627	-2.491	XOM_R2OWSG MWD+IFR1+MS
27100.000	90.000	359.788	11502.197	126.300	0.000	111.662	0.000	126.300	0.000	0.000	111.731	51.759	-2.476	XOM_R2OWSG MWD+IFR1+MS
27200.000	90.000	359.788	11502.197	127.070	0.000	112.283	0.000	127.070	0.000	0.000	112.352	51.892	-2.462	XOM_R2OWSG MWD+IFR1+MS
27300.000	90.000	359.788	11502.197	127.841	0.000	112.905	0.000	127.841	0.000	0.000	112.973	52.025	-2.449	XOM_R2OWSG MWD+IFR1+MS
27400.000	90.000	359.788	11502.197	128.612	0.000	113.528	0.000	128.612	0.000	0.000	113.595	52.158	-2.435	XOM_R2OWSG MWD+IFR1+MS
27482.533	90.000	359.788	11502.000	129.249	0.000	114.042	0.000	129.249	0.000	0.000	114.109	52.269	-2.424	XOM_R2OWSG MWD+IFR1+MS

Plan Targets		PLU 23 Dog Town Draw 105H			
Target Name	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape
PLU 23 DTD FTP 2	11963.39	440725.97	647685.86	8044.00	CIRCLE
PLU 23 DTD LTP 2	27352.67	456115.16	647626.73	8044.00	CIRCLE
PLU 23 DTD BHL 2	27482.53	456245.03	647625.85	8044.00	CIRCLE

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO Permian Operating
WELL NAME & NO.:	Poker Lake Unit 23 DTD Federal Com 105H
LOCATION:	Sec 23-24S-30E-NMP
COUNTY:	Eddy County, New Mexico

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 850 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:
 - 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 **10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.**
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in 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.

Conditions of Approval
Poker Lake Unit 23 DTD 105H

BOP Break Testing Variance (Note: Shell testing is not approved for any portion of the hole with a MASP of 5000 psi or greater)

- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer prior to the commencement of any BOP Break Testing operations.

A full BOP test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOP test will be required.

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

CONDITIONS

Action 160154

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 160154
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Prior to the submission of this C-104, there was a C-103 NOI submitted for approval. The C-103 NOI was not approved or rejected; however, the work requested in the C-103 NOI was performed and completed without NMOCD approval. This action is currently under review from our legal department.	12/3/2024