

Well Name: POKER LAKE 23 DTD FEDERAL COM	Well Location: T24S / R30E / SEC 23 / NENW /	County or Parish/State:
Well Number: 175H	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: 3001549651	Well Status: Approved Application for Permit to Drill	Operator: XTO PERMIAN OPERATING LLC

Notice of Intent

Sundry ID: 2682437

Type of Submission: Notice of Intent	Type of Action: Other
Date Sundry Submitted: 07/15/2022	Time Sundry Submitted: 06:19
Date proposed operation will begin: 08/14/2022	

Procedure Description: **Well name change, bottom hole location change, first and last take point changes XTO Permian Operating, LLC requests permission to make the following changes to the original APD: Change well name from Poker Lake Unit 23 DTD to Poker Lake 23 DTD Federal Com No Additional Surface Disturbance. Change BHL from 200'FNL & 1650'FEL to 200'FNL & 1870'FEL, Section 2-T24S-R30E for drilling efficiencies and operational safety. Change FTP fr/100'FSL & 1650'FEL to 100'FSL & 1870'FEL Change LTP fr/330'FNL & 1650'FEL to 330'FNL & 1870'FEL Attachments: C102 Drilling Program Directional Plan

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

Poker_Lake_23_DTD_Federal_Com_175H_Attachments_20220715181836.pdf

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Conditions of Approval

Additional

Sec_23_24S_30E_NMP_2682437_Poker_Lake_Unit_23_DTD_Federal_Com_175H_Eddy_NMNM068905_XTO_13_22_44787_AM_20220814123719.pdf

Sec_23_24S_30E_NMP_2682437_Poker_Lake_Unit_23_DTD_Federal_Com_175H_Eddy_NMNM030452_COAs_20220814123719.pdf

Operator

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

Operator Electronic Signature: JESSICA DOOLING	Signed on: JUL 15, 2022 06:18 PM
Name: XTO PERMIAN OPERATING LLC	
Title: Lead Regulatory Coordinator	
Street Address: 6401 HOLIDAY HILL ROAD BLDG 5	
City: MIDLAND	State: TX
Phone: (970) 796-6048	
Email address: JESSICA.DOOLING@EXXONMOBIL.COM	

Field

Representative Name:		
Street Address:		
City:	State:	Zip:
Phone:		
Email address:		

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS	BLM POC Title: Petroleum Engineer
BLM POC Phone: 5752342234	BLM POC Email Address: cwalls@blm.gov
Disposition: Approved	Disposition Date: 08/22/2022
Signature: Chris Walls	

District I

1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

District III

1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015- 49651	² Pool Code 98220	³ Pool Name Purple Sage; Wolfcamp
⁴ Property Code 325598	⁵ Property Name POKER LAKE 23 DTD FEDERAL COM	⁶ Well Number 175H
⁷ OGRID No. 373075	⁸ Operator Name XTO PERMIAN OPERATING, LLC	⁹ Elevation 3,427'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	23	24 S	30 E		337	NORTH	2,372	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
2	2	24 S	30 E		200	NORTH	1,870	EAST	EDDY

¹² Dedicated Acres 960.49	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 = 440,357.0 X = 690,016.9 LAT. = 32.209704 "N LONG. = 103.852609 "W FTP (NAD83 NME) Y = 440,800.5 X = 691,127.0 LAT. = 32.210910 "N LONG. = 103.849013 "W CORNER COORDINATES (NAD83 NME) A - Y = 440,695.8 N , X = 690,318.7 E B - Y = 443,332.7 N , X = 690,316.5 E C - Y = 445,969.1 N , X = 690,314.3 E D - Y = 448,606.1 N , X = 690,296.3 E E - Y = 451,241.1 N , X = 690,278.3 E F - Y = 453,878.5 N , X = 690,267.5 E G - Y = 456,518.6 N , X = 690,256.7 E H - Y = 440,703.6 N , X = 691,657.9 E I - Y = 443,341.5 N , X = 691,655.2 E J - Y = 445,982.8 N , X = 691,652.3 E K - Y = 448,617.4 N , X = 691,633.4 E L - Y = 451,254.5 N , X = 691,614.2 E M - Y = 453,892.0 N , X = 691,604.4 E N - Y = 456,529.5 N , X = 691,594.5 E SHL (NAD27 NME) Y = 440,298.0 X = 648,833.1 LAT. = 32.209580 "N LONG. = 103.852123 "W FTP (NAD27 NME) Y = 440,741.5 X = 649,943.2 LAT. = 32.210786 "N LONG. = 103.848527 "W CORNER COORDINATES (NAD27 NME) A - Y = 440,636.8 N , X = 649,135.0 E B - Y = 443,273.6 N , X = 649,132.9 E C - Y = 445,909.9 N , X = 649,130.8 E D - Y = 448,546.9 N , X = 649,112.8 E E - Y = 451,181.8 N , X = 649,094.9 E F - Y = 453,819.1 N , X = 649,084.2 E G - Y = 456,459.1 N , X = 649,073.5 E H - Y = 440,644.6 N , X = 650,474.1 E I - Y = 443,282.4 N , X = 650,471.5 E J - Y = 445,923.7 N , X = 650,468.7 E K - Y = 448,558.1 N , X = 650,449.9 E L - Y = 451,195.2 N , X = 650,430.8 E M - Y = 453,832.6 N , X = 650,421.1 E N - Y = 456,470.0 N , X = 650,411.3 E		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

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

XTO Energy Inc.

PLU 23 Dog Town Draw 175H

Projected TD: 27541' MD / 11270' TVD

SHL: 337' FNL & 2372' FWL , Section 23, T24S, R30E

BHL: 200' FNL & 1870' FEL , Section 2, T24S, R30E

Eddy County, NM

1. Geologic Name of Surface Formation

A. Quaternary

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

Formation	Well Depth (TVD)	Water/Oil/Gas
Rustler	538'	Water
Top of Salt	900'	Water
Base of Salt	3841'	Water
Delaware	4067'	Water
Brushy Canyon	6268'	Water/Oil/Gas
Bone Spring	7878'	Water
1st Bone Spring Ss	8879'	Water/Oil/Gas
2nd Bone Spring Ss	9635'	Water/Oil/Gas
3rd Bone Spring Ss	10807'	Water/Oil/Gas
Wolfcamp	11179'	Water/Oil/Gas
Wolfcamp X	11207'	Water/Oil/Gas
Wolfcamp Y	11285'	Water/Oil/Gas
Wolfcamp A	11338'	Water/Oil/Gas
Target/Land Curve	11270'	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 10494' and cemented to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 27541 MD/TD and 5.5 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 10194 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	1.32	8.90	24.69
8.75	0' – 4000'	7.625	29.7	RY P-110	Flush Joint	New	2.22	2.65	1.79
8.75	4000' – 10494'	7.625	29.7	HC L-80	Flush Joint	New	1.62	1.91	2.11
6.75	0' – 10394'	5.5	20	RY P-110	Semi-Premium	New	1.05	1.79	1.85
6.75	10394' - 27541'	5.5	20	RY P-110	Semi-Flush	New	1.05	1.65	1.85

- XTO requests the option to utilize a spudger 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 +/- 10494'

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

TOC: Brushy Canyon @ 6268

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

2nd Stage

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

Tail: 710 sxs Class C (mixed at 14.8 ppg, 1.33 ft³/sx, 6.39 gal/sx water)

Top of Cement: 0

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

XTO requests to pump a two stage cement job on the 7-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brush Canyon (6268') and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If cement is not visually confirmed to circulate to surface, the final cement top after the second stage job will be verified by Echo-meter. If necessary, a top out consisting of 1,500 sack of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. If cement is still unable to circulate to surface, another Echo-meter run will be performed for cement top verification.

XTO will include the Echo-meter verified fluid top and the volume of displacement fluid above the cement slurry in the annulus in all post-drill sundries on wells utilizing this cement program.

XTO will report to the BLM the volume of fluid (limited to 5 bbls) used to flush intermediate casing valves following backside cementing procedures.

XTO requests to pump an Optional Lead if well conditions dictate in an attempt to bring cement inside the first intermediate casing. If cement reaches the desired height, the BLM will be notified and the second stage bradenhead squeeze and subsequent TOC verification will be negated.

XTO requests the option to conduct the bradenhead squeeze and TOC verification offline as per standard approval from BLM when unplanned remediation is needed and batch drilling is approved. In the event the bradenhead is conducted, we will ensure the first stage cement job is cemented properly and the well is static with floats holding and no pressure on the csg annulus as with all other casing strings where batch drilling operations occur before moving off the rig. The TA cap will also be installed per Cactus procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops.

Production Casing: 5.5, 20 New Semi-Flush, RY P-110 casing to be set at +/- 27541'

Lead: 20 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft³/sx, 15.00 gal/sx water) Top of Cement: 10194 feet

Tail: 1210 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft³/sx, 8.38 gal/sx water) Top of Cement: 10694 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 4260 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' - 10494'	8.75	FW / Cut Brine / Direct Emulsion	9.7-10.2	30-32	NC
10494' - 27541'	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 6739 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 175H

Measured Depth: 27541.39 ft Site: PLU 23 DTD PAD B
TVD RKB: 11270.00 ft
Location
Cartographic Reference System: New Mexico East - NAD 27
Northing: 440296.07 ft
Easting: 648847.95 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 175H									
Measured	TVD					Build	Turn	Dogleg	
Depth	Inclination	Azimuth	RKB	Y Offset	X Offset	Rate	Rate	Rate	Target
(ft)	(Deg)	(Deg)	(ft)	(ft)	(ft)	(Deg/100ft)	(Deg/100ft)	(Deg/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2500.00	0.00	0.00	2500.00	0.00	0.00	0.00	0.00	0.00	
3336.58	16.73	114.56	3324.74	-50.41	110.31	2.00	0.00	2.00	
6313.11	16.73	114.56	6175.26	-406.58	889.69	0.00	0.00	0.00	
7149.69	0.00	0.00	7000.00	-457.00	1000.00	-2.00	0.00	2.00	
10693.69	0.00	0.00	10544.00	-457.00	1000.00	0.00	0.00	0.00	
11281.19	47.00	15.00	11067.79	-237.01	1058.95	8.00	0.00	8.00	
11845.18	90.00	359.76	11270.71	270.70	1114.03	7.62	-2.70	8.00	PLU 23 DTD BHL 9
27541.39	90.00	359.76	11270.00	15966.78	1048.83	0.00	0.00	0.00	PLU 23 DTD BHL 9

Position Uncertainty PLU 23 Dog Town Draw 175H														
Measured	TVD			Highside		Lateral		Vertical		Magnitude		Semi-major	Semi-minor	Semi-minor
Depth	Inclination	Azimuth	RKB	Error	Bias	Error	Bias	Error	Bias	of Bias	Error	Error	Azimuth	Tool
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	Used
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	0.000	0.000	1200.000	4.302	0.000	4.302	0.000	2.670	0.000	0.000	4.302	4.302	0.000	XOM_R2OWSG MWD+IFR1+MS
1300.000	0.000	0.000	1300.000	4.660	0.000	4.660	0.000	2.731	0.000	0.000	4.660	4.660	0.000	XOM_R2OWSG MWD+IFR1+MS
1400.000	0.000	0.000	1400.000	5.019	0.000	5.019	0.000	2.797	0.000	0.000	5.019	5.019	0.000	XOM_R2OWSG MWD+IFR1+MS
1500.000	0.000	0.000	1500.000	5.377	0.000	5.377	0.000	2.866	0.000	0.000	5.377	5.377	0.000	XOM_R2OWSG MWD+IFR1+MS
1600.000	0.000	0.000	1600.000	5.736	0.000	5.736	0.000	2.939	0.000	0.000	5.736	5.736	0.000	XOM_R2OWSG MWD+IFR1+MS
1700.000	0.000	0.000	1700.000	6.094	0.000	6.094	0.000	3.016	0.000	0.000	6.094	6.094	0.000	XOM_R2OWSG MWD+IFR1+MS
1800.000	0.000	0.000	1800.000	6.452	0.000	6.452	0.000	3.096	0.000	0.000	6.452	6.452	0.000	XOM_R2OWSG MWD+IFR1+MS
1900.000	0.000	0.000	1900.000	6.811	0.000	6.811	0.000	3.179	0.000	0.000	6.811	6.811	0.000	XOM_R2OWSG MWD+IFR1+MS
2000.000	0.000	0.000	2000.000	7.169	0.000	7.169	0.000	3.266	0.000	0.000	7.169	7.169	0.000	XOM_R2OWSG MWD+IFR1+MS
2100.000	0.000	0.000	2100.000	7.528	0.000	7.528	0.000	3.355	0.000	0.000	7.528	7.528	0.000	XOM_R2OWSG MWD+IFR1+MS
2200.000	0.000	0.000	2200.000	7.886	0.000	7.886	0.000	3.448	0.000	0.000	7.886	7.886	0.000	XOM_R2OWSG MWD+IFR1+MS
2300.000	0.000	0.000	2300.000	8.245	0.000	8.245	0.000	3.544	0.000	0.000	8.245	8.245	0.000	XOM_R2OWSG MWD+IFR1+MS
2400.000	0.000	0.000	2400.000	8.603	0.000	8.603	0.000	3.643	0.000	0.000	8.603	8.603	0.000	XOM_R2OWSG MWD+IFR1+MS
2500.000	0.000	0.000	2500.000	8.962	0.000	8.962	0.000	3.745	0.000	0.000	8.962	8.962	0.000	XOM_R2OWSG MWD+IFR1+MS
2600.000	2.000	114.560	2599.980	9.302	0.000	9.307	-0.000	3.849	0.000	0.000	9.307	9.307	7.067	XOM_R2OWSG MWD+IFR1+MS
2700.000	4.000	114.560	2699.838	9.621	0.000	9.640	-0.000	3.954	0.000	0.000	9.642	9.640	12.043	XOM_R2OWSG MWD+IFR1+MS
2800.000	6.000	114.560	2799.452	9.931	0.000	9.975	-0.000	4.061	0.000	0.000	9.977	9.975	11.518	XOM_R2OWSG MWD+IFR1+MS
2900.000	8.000	114.560	2898.702	10.232	0.000	10.310	-0.000	4.169	0.000	0.000	10.313	10.310	9.838	XOM_R2OWSG MWD+IFR1+MS
3000.000	10.000	114.560	2997.465	10.522	0.000	10.646	-0.000	4.279	0.000	0.000	10.649	10.645	6.707	XOM_R2OWSG MWD+IFR1+MS
3100.000	12.000	114.560	3095.623	10.803	0.000	10.982	-0.000	4.391	0.000	0.000	10.985	10.982	0.396	XOM_R2OWSG MWD+IFR1+MS
3200.000	14.000	114.560	3193.055	11.074	0.000	11.320	-0.000	4.506	0.000	0.000	11.322	11.319	-14.257	XOM_R2OWSG MWD+IFR1+MS
3300.000	16.000	114.560	3289.643	11.336	0.000	11.658	-0.000	4.624	0.000	0.000	11.659	11.655	-38.251	XOM_R2OWSG MWD+IFR1+MS
3336.578	16.732	114.560	3324.739	11.429	0.000	11.783	-0.000	4.665	0.000	0.000	11.783	11.779	-38.384	XOM_R2OWSG MWD+IFR1+MS
3400.000	16.732	114.560	3385.476	11.649	0.000	11.999	-0.000	4.747	0.000	0.000	11.999	11.991	127.599	XOM_R2OWSG MWD+IFR1+MS
3500.000	16.732	114.560	3481.242	11.999	0.000	12.342	-0.000	4.884	0.000	0.000	12.342	12.327	120.708	XOM_R2OWSG MWD+IFR1+MS
3600.000	16.732	114.560	3577.009	12.353	0.000	12.689	-0.000	5.025	0.000	0.000	12.689	12.666	118.295	XOM_R2OWSG MWD+IFR1+MS
3700.000	16.732	114.560	3672.775	12.711	0.000	13.038	-0.000	5.170	0.000	0.000	13.038	13.008	116.937	XOM_R2OWSG MWD+IFR1+MS
3800.000	16.732	114.560	3768.542	13.071	0.000	13.390	-0.000	5.320	0.000	0.000	13.390	13.354	115.981	XOM_R2OWSG MWD+IFR1+MS
3900.000	16.732	114.560	3864.308	13.435	0.000	13.744	-0.000	5.473	0.000	0.000	13.744	13.702	115.216	XOM_R2OWSG MWD+IFR1+MS
4000.000	16.732	114.560	3960.075	13.801	0.000	14.100	-0.000	5.630	0.000	0.000	14.100	14.053	114.552	XOM_R2OWSG MWD+IFR1+MS
4100.000	16.732	114.560	4055.841	14.170	0.000	14.458	-0.000	5.790	0.000	0.000	14.458	14.406	113.947	XOM_R2OWSG MWD+IFR1+MS

4200.000	16.732	114.560	4151.607	14.541	0.000	14.818	-0.000	5.954	0.000	0.000	14.818	14.762	113.375	XOM_R2OWSG MWD+IFR1+MS
4300.000	16.732	114.560	4247.374	14.915	0.000	15.180	-0.000	6.121	0.000	0.000	15.180	15.120	112.822	XOM_R2OWSG MWD+IFR1+MS
4400.000	16.732	114.560	4343.140	15.290	0.000	15.543	-0.000	6.292	0.000	0.000	15.543	15.479	112.278	XOM_R2OWSG MWD+IFR1+MS
4500.000	16.732	114.560	4438.907	15.668	0.000	15.908	-0.000	6.465	0.000	0.000	15.908	15.841	111.736	XOM_R2OWSG MWD+IFR1+MS
4600.000	16.732	114.560	4534.673	16.047	0.000	16.274	-0.000	6.642	0.000	0.000	16.274	16.204	111.191	XOM_R2OWSG MWD+IFR1+MS
4700.000	16.732	114.560	4630.440	16.427	0.000	16.641	-0.000	6.821	0.000	0.000	16.641	16.569	110.640	XOM_R2OWSG MWD+IFR1+MS
4800.000	16.732	114.560	4726.206	16.810	0.000	17.010	-0.000	7.004	0.000	0.000	17.010	16.936	110.078	XOM_R2OWSG MWD+IFR1+MS
4900.000	16.732	114.560	4821.973	17.193	0.000	17.379	-0.000	7.189	0.000	0.000	17.380	17.303	109.504	XOM_R2OWSG MWD+IFR1+MS
5000.000	16.732	114.560	4917.739	17.578	0.000	17.750	-0.000	7.377	0.000	0.000	17.751	17.673	108.915	XOM_R2OWSG MWD+IFR1+MS
5100.000	16.732	114.560	5013.505	17.964	0.000	18.122	-0.000	7.568	0.000	0.000	18.123	18.043	108.309	XOM_R2OWSG MWD+IFR1+MS
5200.000	16.732	114.560	5109.272	18.352	0.000	18.495	-0.000	7.761	0.000	0.000	18.496	18.415	107.682	XOM_R2OWSG MWD+IFR1+MS
5300.000	16.732	114.560	5205.038	18.740	0.000	18.868	-0.000	7.957	0.000	0.000	18.870	18.788	107.034	XOM_R2OWSG MWD+IFR1+MS
5400.000	16.732	114.560	5300.805	19.129	0.000	19.243	-0.000	8.155	0.000	0.000	19.245	19.161	106.362	XOM_R2OWSG MWD+IFR1+MS
5500.000	16.732	114.560	5396.571	19.520	0.000	19.618	-0.000	8.357	0.000	0.000	19.620	19.536	105.663	XOM_R2OWSG MWD+IFR1+MS
5600.000	16.732	114.560	5492.338	19.911	0.000	19.994	-0.000	8.560	0.000	0.000	19.996	19.912	104.937	XOM_R2OWSG MWD+IFR1+MS
5700.000	16.732	114.560	5588.104	20.303	0.000	20.371	-0.000	8.766	0.000	0.000	20.373	20.289	104.179	XOM_R2OWSG MWD+IFR1+MS
5800.000	16.732	114.560	5683.870	20.696	0.000	20.748	-0.000	8.975	0.000	0.000	20.751	20.666	103.389	XOM_R2OWSG MWD+IFR1+MS
5900.000	16.732	114.560	5779.637	21.089	0.000	21.126	-0.000	9.186	0.000	0.000	21.130	21.044	102.564	XOM_R2OWSG MWD+IFR1+MS
6000.000	16.732	114.560	5875.403	21.484	0.000	21.504	-0.000	9.400	0.000	0.000	21.509	21.423	101.701	XOM_R2OWSG MWD+IFR1+MS
6100.000	16.732	114.560	5971.170	21.879	0.000	21.883	-0.000	9.616	0.000	0.000	21.888	21.803	100.798	XOM_R2OWSG MWD+IFR1+MS
6200.000	16.732	114.560	6066.936	22.274	0.000	22.263	-0.000	9.834	0.000	0.000	22.269	22.183	99.853	XOM_R2OWSG MWD+IFR1+MS
6300.000	16.732	114.560	6162.703	22.671	0.000	22.643	-0.000	10.055	0.000	0.000	22.649	22.564	98.864	XOM_R2OWSG MWD+IFR1+MS
6313.115	16.732	114.560	6175.261	22.723	0.000	22.693	-0.000	10.084	0.000	0.000	22.699	22.614	98.724	XOM_R2OWSG MWD+IFR1+MS
6400.000	14.994	114.560	6258.834	23.129	0.000	23.022	-0.000	10.279	0.000	0.000	23.029	22.944	97.913	XOM_R2OWSG MWD+IFR1+MS
6500.000	12.994	114.560	6355.861	23.570	0.000	23.398	-0.000	10.502	0.000	0.000	23.406	23.321	96.954	XOM_R2OWSG MWD+IFR1+MS
6600.000	10.994	114.560	6453.673	23.980	0.000	23.770	-0.000	10.723	0.000	0.000	23.778	23.694	95.903	XOM_R2OWSG MWD+IFR1+MS
6700.000	8.994	114.560	6552.151	24.358	0.000	24.137	-0.000	10.942	0.000	0.000	24.146	24.063	94.860	XOM_R2OWSG MWD+IFR1+MS
6800.000	6.994	114.560	6651.174	24.705	0.000	24.499	-0.000	11.157	0.000	0.000	24.509	24.427	93.971	XOM_R2OWSG MWD+IFR1+MS
6900.000	4.994	114.560	6750.623	25.018	0.000	24.856	-0.000	11.371	0.000	0.000	24.866	24.784	93.394	XOM_R2OWSG MWD+IFR1+MS
7000.000	2.994	114.560	6850.375	25.298	0.000	25.207	-0.000	11.583	0.000	0.000	25.218	25.134	93.271	XOM_R2OWSG MWD+IFR1+MS
7100.000	0.994	114.560	6950.309	25.545	0.000	25.552	-0.000	11.793	0.000	0.000	25.563	25.477	93.695	XOM_R2OWSG MWD+IFR1+MS
7149.693	0.000	0.000	7000.000	25.730	0.000	25.643	0.000	11.897	0.000	0.000	25.731	25.642	94.227	XOM_R2OWSG MWD+IFR1+MS
7200.000	0.000	0.000	7050.307	25.897	0.000	25.809	0.000	12.002	0.000	0.000	25.897	25.808	94.926	

															XOM_R2OWSG MWD+IFR1+MS
7300.000	0.000	0.000	7150.307	26.228	0.000	26.139	0.000	12.213	0.000	0.000	26.230	26.137	96.234	XOM_R2OWSG MWD+IFR1+MS	
7400.000	0.000	0.000	7250.307	26.561	0.000	26.469	0.000	12.428	0.000	0.000	26.562	26.468	97.438	XOM_R2OWSG MWD+IFR1+MS	
7500.000	0.000	0.000	7350.307	26.894	0.000	26.801	0.000	12.646	0.000	0.000	26.896	26.798	98.547	XOM_R2OWSG MWD+IFR1+MS	
7600.000	0.000	0.000	7450.307	27.227	0.000	27.133	0.000	12.867	0.000	0.000	27.230	27.130	99.569	XOM_R2OWSG MWD+IFR1+MS	
7700.000	0.000	0.000	7550.307	27.562	0.000	27.465	0.000	13.091	0.000	0.000	27.565	27.462	100.511	XOM_R2OWSG MWD+IFR1+MS	
7800.000	0.000	0.000	7650.307	27.897	0.000	27.799	0.000	13.318	0.000	0.000	27.901	27.795	101.381	XOM_R2OWSG MWD+IFR1+MS	
7900.000	0.000	0.000	7750.307	28.232	0.000	28.133	0.000	13.549	0.000	0.000	28.237	28.128	102.184	XOM_R2OWSG MWD+IFR1+MS	
8000.000	0.000	0.000	7850.307	28.568	0.000	28.467	0.000	13.783	0.000	0.000	28.574	28.462	102.928	XOM_R2OWSG MWD+IFR1+MS	
8100.000	0.000	0.000	7950.307	28.905	0.000	28.803	0.000	14.020	0.000	0.000	28.911	28.796	103.618	XOM_R2OWSG MWD+IFR1+MS	
8200.000	0.000	0.000	8050.307	29.242	0.000	29.138	0.000	14.260	0.000	0.000	29.249	29.131	104.258	XOM_R2OWSG MWD+IFR1+MS	
8300.000	0.000	0.000	8150.307	29.579	0.000	29.475	0.000	14.503	0.000	0.000	29.587	29.467	104.853	XOM_R2OWSG MWD+IFR1+MS	
8400.000	0.000	0.000	8250.307	29.918	0.000	29.811	0.000	14.750	0.000	0.000	29.926	29.803	105.408	XOM_R2OWSG MWD+IFR1+MS	
8500.000	0.000	0.000	8350.307	30.256	0.000	30.149	0.000	15.000	0.000	0.000	30.266	30.139	105.926	XOM_R2OWSG MWD+IFR1+MS	
8600.000	0.000	0.000	8450.307	30.595	0.000	30.486	0.000	15.253	0.000	0.000	30.605	30.476	106.410	XOM_R2OWSG MWD+IFR1+MS	
8700.000	0.000	0.000	8550.307	30.935	0.000	30.825	0.000	15.509	0.000	0.000	30.946	30.814	106.863	XOM_R2OWSG MWD+IFR1+MS	
8800.000	0.000	0.000	8650.307	31.274	0.000	31.163	0.000	15.768	0.000	0.000	31.286	31.151	107.288	XOM_R2OWSG MWD+IFR1+MS	
8900.000	0.000	0.000	8750.307	31.615	0.000	31.503	0.000	16.031	0.000	0.000	31.627	31.490	107.687	XOM_R2OWSG MWD+IFR1+MS	
9000.000	0.000	0.000	8850.307	31.955	0.000	31.842	0.000	16.296	0.000	0.000	31.969	31.829	108.063	XOM_R2OWSG MWD+IFR1+MS	
9100.000	0.000	0.000	8950.307	32.296	0.000	32.182	0.000	16.565	0.000	0.000	32.311	32.168	108.416	XOM_R2OWSG MWD+IFR1+MS	
9200.000	0.000	0.000	9050.307	32.638	0.000	32.522	0.000	16.837	0.000	0.000	32.653	32.507	108.750	XOM_R2OWSG MWD+IFR1+MS	
9300.000	0.000	0.000	9150.307	32.980	0.000	32.863	0.000	17.112	0.000	0.000	32.995	32.847	109.066	XOM_R2OWSG MWD+IFR1+MS	
9400.000	0.000	0.000	9250.307	33.322	0.000	33.204	0.000	17.390	0.000	0.000	33.338	33.188	109.364	XOM_R2OWSG MWD+IFR1+MS	
9500.000	0.000	0.000	9350.307	33.664	0.000	33.546	0.000	17.672	0.000	0.000	33.682	33.528	109.647	XOM_R2OWSG MWD+IFR1+MS	
9600.000	0.000	0.000	9450.307	34.007	0.000	33.888	0.000	17.956	0.000	0.000	34.025	33.869	109.915	XOM_R2OWSG MWD+IFR1+MS	
9700.000	0.000	0.000	9550.307	34.350	0.000	34.230	0.000	18.244	0.000	0.000	34.369	34.211	110.169	XOM_R2OWSG MWD+IFR1+MS	
9800.000	0.000	0.000	9650.307	34.694	0.000	34.572	0.000	18.535	0.000	0.000	34.713	34.553	110.412	XOM_R2OWSG MWD+IFR1+MS	
9900.000	0.000	0.000	9750.307	35.037	0.000	34.915	0.000	18.829	0.000	0.000	35.058	34.895	110.642	XOM_R2OWSG MWD+IFR1+MS	
10000.000	0.000	0.000	9850.307	35.381	0.000	35.258	0.000	19.126	0.000	0.000	35.402	35.237	110.861	XOM_R2OWSG MWD+IFR1+MS	
10100.000	0.000	0.000	9950.307	35.726	0.000	35.602	0.000	19.426	0.000	0.000	35.747	35.580	111.071	XOM_R2OWSG MWD+IFR1+MS	
10200.000	0.000	0.000	10050.307	36.070	0.000	35.945	0.000	19.729	0.000	0.000	36.093	35.923	111.270	XOM_R2OWSG MWD+IFR1+MS	
10300.000	0.000	0.000	10150.307	36.415	0.000	36.289	0.000	20.036	0.000	0.000	36.438	36.266	111.461	XOM_R2OWSG MWD+IFR1+MS	
10400.000	0.000	0.000	10250.307	36.760	0.000	36.634	0.000	20.345	0.000	0.000	36.784	36.610	111.644	XOM_R2OWSG MWD+IFR1+MS	

10500.000	0.000	0.000	10350.307	37.106	0.000	36.978	0.000	20.658	0.000	0.000	37.130	36.954	111.819	XOM_R2OWSG MWD+IFR1+MS
10600.000	0.000	0.000	10450.307	37.451	0.000	37.323	0.000	20.974	0.000	0.000	37.476	37.298	111.986	XOM_R2OWSG MWD+IFR1+MS
10693.693	0.000	0.000	10544.000	37.775	0.000	37.646	0.000	21.273	0.000	0.000	37.801	37.621	112.137	XOM_R2OWSG MWD+IFR1+MS
10700.000	0.505	15.000	10550.307	37.816	0.000	37.645	0.000	21.293	0.000	0.000	37.823	37.643	112.149	XOM_R2OWSG MWD+IFR1+MS
10800.000	8.505	15.000	10649.917	37.819	0.000	37.989	0.000	21.612	0.000	0.000	38.166	37.985	113.220	XOM_R2OWSG MWD+IFR1+MS
10900.000	16.505	15.000	10747.466	37.321	0.000	38.324	0.000	21.924	0.000	0.000	38.497	38.318	115.896	XOM_R2OWSG MWD+IFR1+MS
11000.000	24.505	15.000	10841.054	36.352	0.000	38.646	0.000	22.224	0.000	0.000	38.806	38.634	120.352	XOM_R2OWSG MWD+IFR1+MS
11100.000	32.505	15.000	10928.861	34.963	0.000	38.950	0.000	22.508	0.000	0.000	39.086	38.927	127.115	XOM_R2OWSG MWD+IFR1+MS
11200.000	40.505	15.000	11009.176	33.233	0.000	39.232	0.000	22.775	0.000	0.000	39.335	39.190	-42.814	XOM_R2OWSG MWD+IFR1+MS
11281.193	47.000	15.000	11067.794	31.651	0.000	39.442	0.000	22.978	0.000	0.000	39.517	39.376	-31.971	XOM_R2OWSG MWD+IFR1+MS
11300.000	48.400	14.254	11080.451	31.273	0.000	39.490	0.000	23.020	0.000	0.000	39.558	39.416	-29.766	XOM_R2OWSG MWD+IFR1+MS
11400.000	55.911	10.759	11141.771	29.231	0.000	39.724	0.000	23.262	0.000	0.000	39.755	39.585	-14.479	XOM_R2OWSG MWD+IFR1+MS
11500.000	63.504	7.839	11192.184	27.272	0.000	39.923	0.000	23.490	0.000	0.000	39.932	39.701	-4.036	XOM_R2OWSG MWD+IFR1+MS
11600.000	71.150	5.284	11230.708	25.618	0.000	40.082	0.000	23.711	0.000	0.000	40.082	39.771	2.741	XOM_R2OWSG MWD+IFR1+MS
11700.000	78.827	2.953	11256.593	24.507	0.000	40.200	0.000	23.931	0.000	0.000	40.203	39.804	7.708	XOM_R2OWSG MWD+IFR1+MS
11800.000	86.522	0.744	11269.336	24.141	0.000	40.275	0.000	24.152	0.000	0.000	40.294	39.808	12.057	XOM_R2OWSG MWD+IFR1+MS
11845.176	90.000	359.762	11270.707	24.252	0.000	40.294	0.000	24.252	0.000	0.000	40.326	39.802	14.100	XOM_R2OWSG MWD+IFR1+MS
11900.000	90.000	359.762	11270.707	24.378	0.000	40.318	0.000	24.378	0.000	0.000	40.364	39.792	16.186	XOM_R2OWSG MWD+IFR1+MS
12000.000	90.000	359.762	11270.707	24.624	0.000	40.372	0.000	24.624	0.000	0.000	40.444	39.773	18.871	XOM_R2OWSG MWD+IFR1+MS
12100.000	90.000	359.762	11270.707	24.894	0.000	40.437	0.000	24.894	0.000	0.000	40.535	39.753	20.602	XOM_R2OWSG MWD+IFR1+MS
12200.000	90.000	359.762	11270.707	25.185	0.000	40.513	0.000	25.185	0.000	0.000	40.637	39.735	21.676	XOM_R2OWSG MWD+IFR1+MS
12300.000	90.000	359.762	11270.707	25.496	0.000	40.599	0.000	25.496	0.000	0.000	40.749	39.720	22.297	XOM_R2OWSG MWD+IFR1+MS
12400.000	90.000	359.762	11270.707	25.828	0.000	40.697	0.000	25.828	0.000	0.000	40.870	39.706	22.603	XOM_R2OWSG MWD+IFR1+MS
12500.000	90.000	359.762	11270.707	26.179	0.000	40.804	0.000	26.179	0.000	0.000	41.000	39.695	22.687	XOM_R2OWSG MWD+IFR1+MS
12600.000	90.000	359.762	11270.707	26.549	0.000	40.923	0.000	26.549	0.000	0.000	41.139	39.687	22.613	XOM_R2OWSG MWD+IFR1+MS
12700.000	90.000	359.762	11270.707	26.936	0.000	41.052	0.000	26.936	0.000	0.000	41.286	39.681	22.425	XOM_R2OWSG MWD+IFR1+MS
12800.000	90.000	359.762	11270.707	27.341	0.000	41.191	0.000	27.341	0.000	0.000	41.443	39.678	22.157	XOM_R2OWSG MWD+IFR1+MS
12900.000	90.000	359.762	11270.707	27.762	0.000	41.341	0.000	27.762	0.000	0.000	41.608	39.678	21.832	XOM_R2OWSG MWD+IFR1+MS
13000.000	90.000	359.762	11270.707	28.198	0.000	41.501	0.000	28.198	0.000	0.000	41.782	39.679	21.466	XOM_R2OWSG MWD+IFR1+MS
13100.000	90.000	359.762	11270.707	28.649	0.000	41.671	0.000	28.649	0.000	0.000	41.965	39.683	21.072	XOM_R2OWSG MWD+IFR1+MS
13200.000	90.000	359.762	11270.707	29.115	0.000	41.851	0.000	29.115	0.000	0.000	42.157	39.689	20.661	XOM_R2OWSG MWD+IFR1+MS
13300.000	90.000	359.762	11270.707	29.594	0.000	42.040	0.000	29.594	0.000	0.000	42.357	39.697	20.240	XOM_R2OWSG MWD+IFR1+MS
13400.000	90.000	359.762	11270.707	30.085	0.000	42.240	0.000	30.085	0.000	0.000	42.566	39.707	19.814	

														XOM_R2OWSG MWD+IFR1+MS
13500.000	90.000	359.762	11270.707	30.589	0.000	42.449	0.000	30.589	0.000	0.000	42.783	39.719	19.387	XOM_R2OWSG MWD+IFR1+MS
13600.000	90.000	359.762	11270.707	31.105	0.000	42.667	0.000	31.105	0.000	0.000	43.009	39.733	18.963	XOM_R2OWSG MWD+IFR1+MS
13700.000	90.000	359.762	11270.707	31.632	0.000	42.895	0.000	31.632	0.000	0.000	43.244	39.749	18.544	XOM_R2OWSG MWD+IFR1+MS
13800.000	90.000	359.762	11270.707	32.169	0.000	43.131	0.000	32.169	0.000	0.000	43.486	39.766	18.131	XOM_R2OWSG MWD+IFR1+MS
13900.000	90.000	359.762	11270.707	32.716	0.000	43.377	0.000	32.716	0.000	0.000	43.737	39.785	17.727	XOM_R2OWSG MWD+IFR1+MS
14000.000	90.000	359.762	11270.707	33.273	0.000	43.631	0.000	33.273	0.000	0.000	43.997	39.806	17.333	XOM_R2OWSG MWD+IFR1+MS
14100.000	90.000	359.762	11270.707	33.839	0.000	43.895	0.000	33.839	0.000	0.000	44.264	39.828	16.947	XOM_R2OWSG MWD+IFR1+MS
14200.000	90.000	359.762	11270.707	34.413	0.000	44.166	0.000	34.413	0.000	0.000	44.539	39.852	16.573	XOM_R2OWSG MWD+IFR1+MS
14300.000	90.000	359.762	11270.707	34.996	0.000	44.446	0.000	34.996	0.000	0.000	44.822	39.877	16.208	XOM_R2OWSG MWD+IFR1+MS
14400.000	90.000	359.762	11270.707	35.586	0.000	44.734	0.000	35.586	0.000	0.000	45.113	39.904	15.855	XOM_R2OWSG MWD+IFR1+MS
14500.000	90.000	359.762	11270.707	36.184	0.000	45.031	0.000	36.184	0.000	0.000	45.412	39.932	15.512	XOM_R2OWSG MWD+IFR1+MS
14600.000	90.000	359.762	11270.707	36.788	0.000	45.335	0.000	36.788	0.000	0.000	45.718	39.961	15.179	XOM_R2OWSG MWD+IFR1+MS
14700.000	90.000	359.762	11270.707	37.400	0.000	45.647	0.000	37.400	0.000	0.000	46.031	39.992	14.857	XOM_R2OWSG MWD+IFR1+MS
14800.000	90.000	359.762	11270.707	38.017	0.000	45.966	0.000	38.017	0.000	0.000	46.351	40.024	14.545	XOM_R2OWSG MWD+IFR1+MS
14900.000	90.000	359.762	11270.707	38.641	0.000	46.293	0.000	38.641	0.000	0.000	46.679	40.057	14.243	XOM_R2OWSG MWD+IFR1+MS
15000.000	90.000	359.762	11270.707	39.271	0.000	46.627	0.000	39.271	0.000	0.000	47.014	40.092	13.951	XOM_R2OWSG MWD+IFR1+MS
15100.000	90.000	359.762	11270.707	39.906	0.000	46.968	0.000	39.906	0.000	0.000	47.355	40.128	13.668	XOM_R2OWSG MWD+IFR1+MS
15200.000	90.000	359.762	11270.707	40.546	0.000	47.316	0.000	40.546	0.000	0.000	47.703	40.165	13.394	XOM_R2OWSG MWD+IFR1+MS
15300.000	90.000	359.762	11270.707	41.192	0.000	47.671	0.000	41.192	0.000	0.000	48.058	40.203	13.130	XOM_R2OWSG MWD+IFR1+MS
15400.000	90.000	359.762	11270.707	41.842	0.000	48.032	0.000	41.842	0.000	0.000	48.419	40.242	12.873	XOM_R2OWSG MWD+IFR1+MS
15500.000	90.000	359.762	11270.707	42.497	0.000	48.400	0.000	42.497	0.000	0.000	48.787	40.283	12.625	XOM_R2OWSG MWD+IFR1+MS
15600.000	90.000	359.762	11270.707	43.156	0.000	48.775	0.000	43.156	0.000	0.000	49.160	40.325	12.385	XOM_R2OWSG MWD+IFR1+MS
15700.000	90.000	359.762	11270.707	43.819	0.000	49.155	0.000	43.819	0.000	0.000	49.540	40.368	12.153	XOM_R2OWSG MWD+IFR1+MS
15800.000	90.000	359.762	11270.707	44.486	0.000	49.542	0.000	44.486	0.000	0.000	49.926	40.412	11.927	XOM_R2OWSG MWD+IFR1+MS
15900.000	90.000	359.762	11270.707	45.157	0.000	49.934	0.000	45.157	0.000	0.000	50.317	40.457	11.709	XOM_R2OWSG MWD+IFR1+MS
16000.000	90.000	359.762	11270.707	45.831	0.000	50.333	0.000	45.831	0.000	0.000	50.714	40.503	11.498	XOM_R2OWSG MWD+IFR1+MS
16100.000	90.000	359.762	11270.707	46.509	0.000	50.737	0.000	46.509	0.000	0.000	51.117	40.551	11.293	XOM_R2OWSG MWD+IFR1+MS
16200.000	90.000	359.762	11270.707	47.191	0.000	51.146	0.000	47.191	0.000	0.000	51.525	40.599	11.095	XOM_R2OWSG MWD+IFR1+MS
16300.000	90.000	359.762	11270.707	47.875	0.000	51.561	0.000	47.875	0.000	0.000	51.938	40.649	10.903	XOM_R2OWSG MWD+IFR1+MS
16400.000	90.000	359.762	11270.707	48.563	0.000	51.981	0.000	48.563	0.000	0.000	52.356	40.699	10.716	XOM_R2OWSG MWD+IFR1+MS
16500.000	90.000	359.762	11270.707	49.253	0.000	52.406	0.000	49.253	0.000	0.000	52.780	40.751	10.535	XOM_R2OWSG MWD+IFR1+MS
16600.000	90.000	359.762	11270.707	49.946	0.000	52.836	0.000	49.946	0.000	0.000	53.208	40.803	10.360	XOM_R2OWSG MWD+IFR1+MS

16700.000	90.000	359.762	11270.707	50.642	0.000	53.272	0.000	50.642	0.000	0.000	53.642	40.857	10.189	XOM_R2OWSG MWD+IFR1+MS
16800.000	90.000	359.762	11270.707	51.340	0.000	53.711	0.000	51.340	0.000	0.000	54.080	40.912	10.024	XOM_R2OWSG MWD+IFR1+MS
16900.000	90.000	359.762	11270.707	52.041	0.000	54.156	0.000	52.041	0.000	0.000	54.522	40.968	9.863	XOM_R2OWSG MWD+IFR1+MS
17000.000	90.000	359.762	11270.707	52.745	0.000	54.605	0.000	52.745	0.000	0.000	54.969	41.024	9.707	XOM_R2OWSG MWD+IFR1+MS
17100.000	90.000	359.762	11270.707	53.450	0.000	55.058	0.000	53.450	0.000	0.000	55.421	41.082	9.555	XOM_R2OWSG MWD+IFR1+MS
17200.000	90.000	359.762	11270.707	54.158	0.000	55.516	0.000	54.158	0.000	0.000	55.876	41.141	9.408	XOM_R2OWSG MWD+IFR1+MS
17300.000	90.000	359.762	11270.707	54.868	0.000	55.978	0.000	54.868	0.000	0.000	56.336	41.201	9.264	XOM_R2OWSG MWD+IFR1+MS
17400.000	90.000	359.762	11270.707	55.579	0.000	56.444	0.000	55.579	0.000	0.000	56.800	41.261	9.125	XOM_R2OWSG MWD+IFR1+MS
17500.000	90.000	359.762	11270.707	56.293	0.000	56.914	0.000	56.293	0.000	0.000	57.268	41.323	8.989	XOM_R2OWSG MWD+IFR1+MS
17600.000	90.000	359.762	11270.707	57.009	0.000	57.388	0.000	57.009	0.000	0.000	57.740	41.386	8.857	XOM_R2OWSG MWD+IFR1+MS
17700.000	90.000	359.762	11270.707	57.726	0.000	57.866	0.000	57.726	0.000	0.000	58.215	41.449	8.728	XOM_R2OWSG MWD+IFR1+MS
17800.000	90.000	359.762	11270.707	58.445	0.000	58.347	0.000	58.445	0.000	0.000	58.695	41.514	8.603	XOM_R2OWSG MWD+IFR1+MS
17900.000	90.000	359.762	11270.707	59.166	0.000	58.832	0.000	59.166	0.000	0.000	59.178	41.580	8.481	XOM_R2OWSG MWD+IFR1+MS
18000.000	90.000	359.762	11270.707	59.889	0.000	59.321	0.000	59.889	0.000	0.000	59.664	41.646	8.363	XOM_R2OWSG MWD+IFR1+MS
18100.000	90.000	359.762	11270.707	60.613	0.000	59.813	0.000	60.613	0.000	0.000	60.154	41.713	8.247	XOM_R2OWSG MWD+IFR1+MS
18200.000	90.000	359.762	11270.707	61.338	0.000	60.308	0.000	61.338	0.000	0.000	60.647	41.782	8.134	XOM_R2OWSG MWD+IFR1+MS
18300.000	90.000	359.762	11270.707	62.065	0.000	60.807	0.000	62.065	0.000	0.000	61.144	41.851	8.024	XOM_R2OWSG MWD+IFR1+MS
18400.000	90.000	359.762	11270.707	62.793	0.000	61.309	0.000	62.793	0.000	0.000	61.643	41.921	7.917	XOM_R2OWSG MWD+IFR1+MS
18500.000	90.000	359.762	11270.707	63.523	0.000	61.814	0.000	63.523	0.000	0.000	62.146	41.992	7.812	XOM_R2OWSG MWD+IFR1+MS
18600.000	90.000	359.762	11270.707	64.254	0.000	62.322	0.000	64.254	0.000	0.000	62.652	42.064	7.710	XOM_R2OWSG MWD+IFR1+MS
18700.000	90.000	359.762	11270.707	64.986	0.000	62.833	0.000	64.986	0.000	0.000	63.161	42.137	7.610	XOM_R2OWSG MWD+IFR1+MS
18800.000	90.000	359.762	11270.707	65.720	0.000	63.347	0.000	65.720	0.000	0.000	63.673	42.211	7.513	XOM_R2OWSG MWD+IFR1+MS
18900.000	90.000	359.762	11270.707	66.454	0.000	63.864	0.000	66.454	0.000	0.000	64.187	42.286	7.418	XOM_R2OWSG MWD+IFR1+MS
19000.000	90.000	359.762	11270.707	67.190	0.000	64.383	0.000	67.190	0.000	0.000	64.704	42.361	7.325	XOM_R2OWSG MWD+IFR1+MS
19100.000	90.000	359.762	11270.707	67.927	0.000	64.906	0.000	67.927	0.000	0.000	65.224	42.438	7.235	XOM_R2OWSG MWD+IFR1+MS
19200.000	90.000	359.762	11270.707	68.665	0.000	65.430	0.000	68.665	0.000	0.000	65.747	42.515	7.146	XOM_R2OWSG MWD+IFR1+MS
19300.000	90.000	359.762	11270.707	69.404	0.000	65.958	0.000	69.404	0.000	0.000	66.272	42.593	7.059	XOM_R2OWSG MWD+IFR1+MS
19400.000	90.000	359.762	11270.707	70.144	0.000	66.488	0.000	70.144	0.000	0.000	66.800	42.672	6.975	XOM_R2OWSG MWD+IFR1+MS
19500.000	90.000	359.762	11270.707	70.884	0.000	67.020	0.000	70.884	0.000	0.000	67.331	42.752	6.892	XOM_R2OWSG MWD+IFR1+MS
19600.000	90.000	359.762	11270.707	71.626	0.000	67.555	0.000	71.626	0.000	0.000	67.863	42.833	6.811	XOM_R2OWSG MWD+IFR1+MS
19700.000	90.000	359.762	11270.707	72.369	0.000	68.092	0.000	72.369	0.000	0.000	68.398	42.914	6.732	XOM_R2OWSG MWD+IFR1+MS
19800.000	90.000	359.762	11270.707	73.113	0.000	68.632	0.000	73.113	0.000	0.000	68.935	42.997	6.654	XOM_R2OWSG MWD+IFR1+MS
19900.000	90.000	359.762	11270.707	73.857	0.000	69.173	0.000	73.857	0.000	0.000	69.475	43.080	6.578	

															XOM_R2OWSG MWD+IFR1+MS
20000.000	90.000	359.762	11270.707	74.602	0.000	69.717	0.000	74.602	0.000	0.000	70.017	43.164	6.504	XOM_R2OWSG MWD+IFR1+MS	
20100.000	90.000	359.762	11270.707	75.348	0.000	70.263	0.000	75.348	0.000	0.000	70.561	43.249	6.431	XOM_R2OWSG MWD+IFR1+MS	
20200.000	90.000	359.762	11270.707	76.095	0.000	70.811	0.000	76.095	0.000	0.000	71.107	43.335	6.360	XOM_R2OWSG MWD+IFR1+MS	
20300.000	90.000	359.762	11270.707	76.843	0.000	71.361	0.000	76.843	0.000	0.000	71.655	43.421	6.290	XOM_R2OWSG MWD+IFR1+MS	
20400.000	90.000	359.762	11270.707	77.591	0.000	71.913	0.000	77.591	0.000	0.000	72.204	43.508	6.222	XOM_R2OWSG MWD+IFR1+MS	
20500.000	90.000	359.762	11270.707	78.340	0.000	72.467	0.000	78.340	0.000	0.000	72.756	43.597	6.155	XOM_R2OWSG MWD+IFR1+MS	
20600.000	90.000	359.762	11270.707	79.090	0.000	73.023	0.000	79.090	0.000	0.000	73.310	43.685	6.089	XOM_R2OWSG MWD+IFR1+MS	
20700.000	90.000	359.762	11270.707	79.841	0.000	73.580	0.000	79.841	0.000	0.000	73.866	43.775	6.025	XOM_R2OWSG MWD+IFR1+MS	
20800.000	90.000	359.762	11270.707	80.592	0.000	74.140	0.000	80.592	0.000	0.000	74.424	43.866	5.962	XOM_R2OWSG MWD+IFR1+MS	
20900.000	90.000	359.762	11270.707	81.343	0.000	74.701	0.000	81.343	0.000	0.000	74.983	43.957	5.900	XOM_R2OWSG MWD+IFR1+MS	
21000.000	90.000	359.762	11270.707	82.096	0.000	75.264	0.000	82.096	0.000	0.000	75.544	44.049	5.840	XOM_R2OWSG MWD+IFR1+MS	
21100.000	90.000	359.762	11270.707	82.849	0.000	75.829	0.000	82.849	0.000	0.000	76.107	44.142	5.780	XOM_R2OWSG MWD+IFR1+MS	
21200.000	90.000	359.762	11270.707	83.602	0.000	76.395	0.000	83.602	0.000	0.000	76.671	44.235	5.722	XOM_R2OWSG MWD+IFR1+MS	
21300.000	90.000	359.762	11270.707	84.356	0.000	76.963	0.000	84.356	0.000	0.000	77.237	44.330	5.664	XOM_R2OWSG MWD+IFR1+MS	
21400.000	90.000	359.762	11270.707	85.111	0.000	77.532	0.000	85.111	0.000	0.000	77.805	44.425	5.608	XOM_R2OWSG MWD+IFR1+MS	
21500.000	90.000	359.762	11270.707	85.866	0.000	78.103	0.000	85.866	0.000	0.000	78.374	44.521	5.553	XOM_R2OWSG MWD+IFR1+MS	
21600.000	90.000	359.762	11270.707	86.622	0.000	78.676	0.000	86.622	0.000	0.000	78.945	44.617	5.499	XOM_R2OWSG MWD+IFR1+MS	
21700.000	90.000	359.762	11270.707	87.378	0.000	79.250	0.000	87.378	0.000	0.000	79.517	44.715	5.446	XOM_R2OWSG MWD+IFR1+MS	
21800.000	90.000	359.762	11270.707	88.135	0.000	79.825	0.000	88.135	0.000	0.000	80.091	44.813	5.394	XOM_R2OWSG MWD+IFR1+MS	
21900.000	90.000	359.762	11270.707	88.892	0.000	80.402	0.000	88.892	0.000	0.000	80.666	44.911	5.342	XOM_R2OWSG MWD+IFR1+MS	
22000.000	90.000	359.762	11270.707	89.650	0.000	80.980	0.000	89.650	0.000	0.000	81.242	45.011	5.292	XOM_R2OWSG MWD+IFR1+MS	
22100.000	90.000	359.762	11270.707	90.408	0.000	81.560	0.000	90.408	0.000	0.000	81.820	45.111	5.242	XOM_R2OWSG MWD+IFR1+MS	
22200.000	90.000	359.762	11270.707	91.166	0.000	82.141	0.000	91.166	0.000	0.000	82.399	45.212	5.194	XOM_R2OWSG MWD+IFR1+MS	
22300.000	90.000	359.762	11270.707	91.926	0.000	82.723	0.000	91.926	0.000	0.000	82.980	45.314	5.146	XOM_R2OWSG MWD+IFR1+MS	
22400.000	90.000	359.762	11270.707	92.685	0.000	83.307	0.000	92.685	0.000	0.000	83.562	45.416	5.099	XOM_R2OWSG MWD+IFR1+MS	
22500.000	90.000	359.762	11270.707	93.445	0.000	83.892	0.000	93.445	0.000	0.000	84.145	45.519	5.053	XOM_R2OWSG MWD+IFR1+MS	
22600.000	90.000	359.762	11270.707	94.205	0.000	84.478	0.000	94.205	0.000	0.000	84.729	45.623	5.007	XOM_R2OWSG MWD+IFR1+MS	
22700.000	90.000	359.762	11270.707	94.966	0.000	85.065	0.000	94.966	0.000	0.000	85.315	45.727	4.963	XOM_R2OWSG MWD+IFR1+MS	
22800.000	90.000	359.762	11270.707	95.727	0.000	85.653	0.000	95.727	0.000	0.000	85.902	45.832	4.919	XOM_R2OWSG MWD+IFR1+MS	
22900.000	90.000	359.762	11270.707	96.488	0.000	86.243	0.000	96.488	0.000	0.000	86.490	45.938	4.876	XOM_R2OWSG MWD+IFR1+MS	
23000.000	90.000	359.762	11270.707	97.250	0.000	86.833	0.000	97.250	0.000	0.000	87.079	46.045	4.833	XOM_R2OWSG MWD+IFR1+MS	
23100.000	90.000	359.762	11270.707	98.012	0.000	87.425	0.000	98.012	0.000	0.000	87.669	46.152	4.791	XOM_R2OWSG MWD+IFR1+MS	

23200.000	90.000	359.762	11270.707	98.775	0.000	88.018	0.000	98.775	0.000	0.000	88.260	46.260	4.750	XOM_R2OWSG MWD+IFR1+MS
23300.000	90.000	359.762	11270.707	99.538	0.000	88.611	0.000	99.538	0.000	0.000	88.852	46.368	4.710	XOM_R2OWSG MWD+IFR1+MS
23400.000	90.000	359.762	11270.707	100.301	0.000	89.206	0.000	100.301	0.000	0.000	89.446	46.477	4.670	XOM_R2OWSG MWD+IFR1+MS
23500.000	90.000	359.762	11270.707	101.065	0.000	89.802	0.000	101.065	0.000	0.000	90.040	46.587	4.631	XOM_R2OWSG MWD+IFR1+MS
23600.000	90.000	359.762	11270.707	101.829	0.000	90.399	0.000	101.829	0.000	0.000	90.635	46.697	4.592	XOM_R2OWSG MWD+IFR1+MS
23700.000	90.000	359.762	11270.707	102.593	0.000	90.997	0.000	102.593	0.000	0.000	91.232	46.808	4.554	XOM_R2OWSG MWD+IFR1+MS
23800.000	90.000	359.762	11270.707	103.357	0.000	91.596	0.000	103.357	0.000	0.000	91.829	46.920	4.517	XOM_R2OWSG MWD+IFR1+MS
23900.000	90.000	359.762	11270.707	104.122	0.000	92.195	0.000	104.122	0.000	0.000	92.427	47.033	4.480	XOM_R2OWSG MWD+IFR1+MS
24000.000	90.000	359.762	11270.707	104.887	0.000	92.796	0.000	104.887	0.000	0.000	93.027	47.145	4.444	XOM_R2OWSG MWD+IFR1+MS
24100.000	90.000	359.762	11270.707	105.653	0.000	93.398	0.000	105.653	0.000	0.000	93.627	47.259	4.408	XOM_R2OWSG MWD+IFR1+MS
24200.000	90.000	359.762	11270.707	106.418	0.000	94.000	0.000	106.418	0.000	0.000	94.228	47.373	4.373	XOM_R2OWSG MWD+IFR1+MS
24300.000	90.000	359.762	11270.707	107.184	0.000	94.603	0.000	107.184	0.000	0.000	94.830	47.488	4.338	XOM_R2OWSG MWD+IFR1+MS
24400.000	90.000	359.762	11270.707	107.951	0.000	95.208	0.000	107.951	0.000	0.000	95.433	47.603	4.304	XOM_R2OWSG MWD+IFR1+MS
24500.000	90.000	359.762	11270.707	108.717	0.000	95.813	0.000	108.717	0.000	0.000	96.036	47.719	4.270	XOM_R2OWSG MWD+IFR1+MS
24600.000	90.000	359.762	11270.707	109.484	0.000	96.418	0.000	109.484	0.000	0.000	96.641	47.836	4.237	XOM_R2OWSG MWD+IFR1+MS
24700.000	90.000	359.762	11270.707	110.251	0.000	97.025	0.000	110.251	0.000	0.000	97.246	47.953	4.204	XOM_R2OWSG MWD+IFR1+MS
24800.000	90.000	359.762	11270.707	111.018	0.000	97.632	0.000	111.018	0.000	0.000	97.852	48.071	4.172	XOM_R2OWSG MWD+IFR1+MS
24900.000	90.000	359.762	11270.707	111.786	0.000	98.241	0.000	111.786	0.000	0.000	98.459	48.190	4.140	XOM_R2OWSG MWD+IFR1+MS
25000.000	90.000	359.762	11270.707	112.553	0.000	98.850	0.000	112.553	0.000	0.000	99.067	48.309	4.109	XOM_R2OWSG MWD+IFR1+MS
25100.000	90.000	359.762	11270.707	113.321	0.000	99.459	0.000	113.321	0.000	0.000	99.675	48.428	4.078	XOM_R2OWSG MWD+IFR1+MS
25200.000	90.000	359.762	11270.707	114.089	0.000	100.070	0.000	114.089	0.000	0.000	100.284	48.548	4.048	XOM_R2OWSG MWD+IFR1+MS
25300.000	90.000	359.762	11270.707	114.858	0.000	100.681	0.000	114.858	0.000	0.000	100.894	48.669	4.018	XOM_R2OWSG MWD+IFR1+MS
25400.000	90.000	359.762	11270.707	115.627	0.000	101.293	0.000	115.627	0.000	0.000	101.505	48.790	3.988	XOM_R2OWSG MWD+IFR1+MS
25500.000	90.000	359.762	11270.707	116.395	0.000	101.905	0.000	116.395	0.000	0.000	102.116	48.912	3.959	XOM_R2OWSG MWD+IFR1+MS
25600.000	90.000	359.762	11270.707	117.164	0.000	102.518	0.000	117.164	0.000	0.000	102.728	49.034	3.930	XOM_R2OWSG MWD+IFR1+MS
25700.000	90.000	359.762	11270.707	117.934	0.000	103.132	0.000	117.934	0.000	0.000	103.341	49.157	3.902	XOM_R2OWSG MWD+IFR1+MS
25800.000	90.000	359.762	11270.707	118.703	0.000	103.747	0.000	118.703	0.000	0.000	103.954	49.281	3.874	XOM_R2OWSG MWD+IFR1+MS
25900.000	90.000	359.762	11270.707	119.473	0.000	104.362	0.000	119.473	0.000	0.000	104.568	49.405	3.846	XOM_R2OWSG MWD+IFR1+MS
26000.000	90.000	359.762	11270.707	120.243	0.000	104.978	0.000	120.243	0.000	0.000	105.183	49.529	3.819	XOM_R2OWSG MWD+IFR1+MS
26100.000	90.000	359.762	11270.707	121.013	0.000	105.594	0.000	121.013	0.000	0.000	105.798	49.655	3.792	XOM_R2OWSG MWD+IFR1+MS
26200.000	90.000	359.762	11270.707	121.783	0.000	106.211	0.000	121.783	0.000	0.000	106.414	49.780	3.765	XOM_R2OWSG MWD+IFR1+MS
26300.000	90.000	359.762	11270.707	122.554	0.000	106.829	0.000	122.554	0.000	0.000	107.030	49.906	3.739	XOM_R2OWSG MWD+IFR1+MS
26400.000	90.000	359.762	11270.707	123.324	0.000	107.447	0.000	123.324	0.000	0.000	107.648	50.033	3.713	

															XOM_R2OWSG MWD+IFR1+MS
26500.000	90.000	359.762	11270.707	124.095	0.000	108.066	0.000	124.095	0.000	0.000	108.265	50.160	3.687	XOM_R2OWSG MWD+IFR1+MS	
26600.000	90.000	359.762	11270.707	124.866	0.000	108.685	0.000	124.866	0.000	0.000	108.884	50.288	3.662	XOM_R2OWSG MWD+IFR1+MS	
26700.000	90.000	359.762	11270.707	125.637	0.000	109.305	0.000	125.637	0.000	0.000	109.502	50.416	3.637	XOM_R2OWSG MWD+IFR1+MS	
26800.000	90.000	359.762	11270.707	126.408	0.000	109.926	0.000	126.408	0.000	0.000	110.122	50.545	3.613	XOM_R2OWSG MWD+IFR1+MS	
26900.000	90.000	359.762	11270.707	127.180	0.000	110.547	0.000	127.180	0.000	0.000	110.742	50.674	3.588	XOM_R2OWSG MWD+IFR1+MS	
27000.000	90.000	359.762	11270.707	127.952	0.000	111.168	0.000	127.952	0.000	0.000	111.362	50.804	3.564	XOM_R2OWSG MWD+IFR1+MS	
27100.000	90.000	359.762	11270.707	128.723	0.000	111.790	0.000	128.723	0.000	0.000	111.983	50.934	3.541	XOM_R2OWSG MWD+IFR1+MS	
27200.000	90.000	359.762	11270.707	129.495	0.000	112.413	0.000	129.495	0.000	0.000	112.605	51.065	3.517	XOM_R2OWSG MWD+IFR1+MS	
27300.000	90.000	359.762	11270.707	130.267	0.000	113.036	0.000	130.267	0.000	0.000	113.227	51.196	3.494	XOM_R2OWSG MWD+IFR1+MS	
27400.000	90.000	359.762	11270.707	131.040	0.000	113.660	0.000	131.040	0.000	0.000	113.850	51.328	3.471	XOM_R2OWSG MWD+IFR1+MS	
27500.000	90.000	359.762	11270.707	131.812	0.000	114.284	0.000	131.812	0.000	0.000	114.473	51.460	3.449	XOM_R2OWSG MWD+IFR1+MS	
27541.391	90.000	359.762	11270.000	132.132	0.000	114.542	0.000	132.132	0.000	0.000	114.731	51.513	3.439	XOM_R2OWSG MWD+IFR1+MS	

Plan Targets		PLU 23 Dog Town Draw 175H			
Target Name	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape
PLU 23 DTD FTP 9	12017.85	440739.43	649961.28	7812.00	CIRCLE
PLU 23 DTD LTP 9	27411.54	456132.98	649897.37	7812.00	CIRCLE
PLU 23 DTD BHL 9	27541.40	456262.85	649896.78	7812.00	CIRCLE

Sec 23-24S-30E-NMP 2682437 Poker Lake Unit 23 DTD Federal Com 175H Eddy NMNM068905 XTO 13-22 44787 AM

Poker Lake Unit 23 DTD Federal Com 175H

9 5/8	surface csg in a	12 1/4	inch hole.	Design Factors					Surface		
Segment	#/ft	Grade	Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	40.00	J 55	BTC	24.68	8.43	10.46	638	14	17.88	15.62	25,520
"B"			BTC				0				0
w/8.4#/g mud, 30min Sfc Csg Test psig: 1,500				Tail Cmt	does not	circ to sfc.	Totals:	638			25,520
Comparison of Proposed to Minimum Required Cement Volumes											
Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE			Min Dist Hole-Cplg
12 1/4	0.3132	240	381	200	91	9.20	221	2M			0.81
Site plat (pipe racks S or E) as per O.O.D.I.I.D.4.1. not found.											

7 5/8	casing inside the	9 5/8	Design Factors					Int 1			
Segment	#/ft	Grade	Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	29.70	RY P 110	Flush Joint	26.35	14.16	1.71	4,000	25	2.64	24.22	118,800
"B"	29.70	HCL 80	Flush Joint	∞	15.30	1.24	6,494	18	1.92	26.16	192,872
w/8.4#/g mud, 30min Sfc Csg Test psig:							Totals:	10,494			311,672
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	730	1468	1060	39	10.20	3584	5M			0.56

Tail cmt											
5 1/2	casing inside the	7 5/8	Design Factors					Prod 1			
Segment	#/ft	Grade	Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	20.00	RY P 110	Semi-Premiur	3.61	2	2.28	10,394	2	3.53	3.10	207,880
"B"	20.00	RY P 110	Semi-Flush	∞	2.00	2.28	17,147	2	3.53	3.10	342,940
w/8.4#/g mud, 30min Sfc Csg Test psig: 1,955						Totals:		27,541		550,820	
The cement volume(s) are intended to achieve a top of				8600	ft from surface or a		1894			overlap.	
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd			Min Dist
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE			Hole-Cplg
6 3/4	0.0835	1230	1881	1600	18	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 175H
LOCATION:	Sec 23-24S-30E-NMP
COUNTY:	Eddy County, New Mexico

Updated COAs per Sundry 2682437; 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 integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours.

WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.

4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:

- a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
- a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
 - c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
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District III
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Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

COMMENTS

Action 136461

COMMENTS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 136461
	Action Type: [C-103] NOI Change of Plans (C-103A)

COMMENTS

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

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CONDITIONS

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CONDITIONS

Created By	Condition	Condition Date
jagarcia	NSL will be required, or letter of common ownership or unit map to be submitted with the C-104 packet	9/30/2022
jagarcia	Please see new property code	9/30/2022