

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

Sundry Print Reports
10/31/2023

Well Name: POKER LAKE UNIT 18 Well Location: T24S / R31E / SEC 19 / County or Parish/State:

TWR NWNE /

Well Number: 312H Type of Well: OIL WELL Allottee or Tribe Name:

Lease Number: NMNM025533 Unit or CA Name: Unit or CA Number:

NMNM71016X

US Well Number: 3001554274 Well Status: Approved Application for Operator: XTO ENERGY

Permit to Drill INCORPORATED

# **Notice of Intent**

**Sundry ID: 2755477** 

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 10/09/2023 Time Sundry Submitted: 10:27

Date proposed operation will begin: 10/09/2023

**Procedure Description:** \*\*Surface Hole Location Change, First and Last Take Point Changes, Bottom Hole Location Change, Drilling Plan Change, Directional Plan Change, Casing/Cement Change. XTO Energy Inc. requests permission to make the following changes to the original APD: SHL: fr/295'FNL & 1746'FEL to 295'FNL & 1711'FEL, Section 19-T24S-R31E NMNM025533 FTP: fr/100'FNL & 1320'FEL to 100'FNL & 2170'FEL, NMNM025533 LTP: fr/100'FSL & 1320'FEL to 50'FSL & 2170'FEL, Section 30-T24S-R31E NMNM000506 Casing/Cement design: weight fr/23 to 20. Attachments: C102 Drilling Program Directional Plan MBS

# **NOI Attachments**

# **Procedure Description**

PLU\_18\_Twin\_Wells\_Ranch\_312H\_Sundry\_Attachments\_20231009102630.pdf

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eceived by OCD: 10/31/2023 1:49:27 PM
Well Name: POKER LAKE UNIT 18

TWR

Well Location: T24S / R31E / SEC 19 /

NWNE /

Well Number: 312H

Type of Well: OIL WELL

/ County or Parish/State: Allottee or Tribe Name:

Page 2 of

Lease Number: NMNM025533

Unit or CA Name:

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NMNM71016X

**US Well Number: 3001554274** 

**Well Status:** Approved Application for Permit to Drill

Operator: XTO ENERGY

INCORPORATED

# **Conditions of Approval**

# Additional

Sec 19 24S 31E NMP Sundry 2755477 Poker Lake Unit 18 TWR 312H COAs 20231025144951.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: JEAN COOPER Signed on: OCT 09, 2023 10:26 AM

Name: XTO ENERGY INCORPORATED

Title: Regulatory Analyst

Street Address: 6401 HOLIDAY HILL ROAD BLDG 5

City: MIDLAND State: TX

Phone: (432) 620-6700

Email address: JEAN.COOPER@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:** 10/31/2023

Signature: Chris Walls

Page 2 of 2

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 B 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

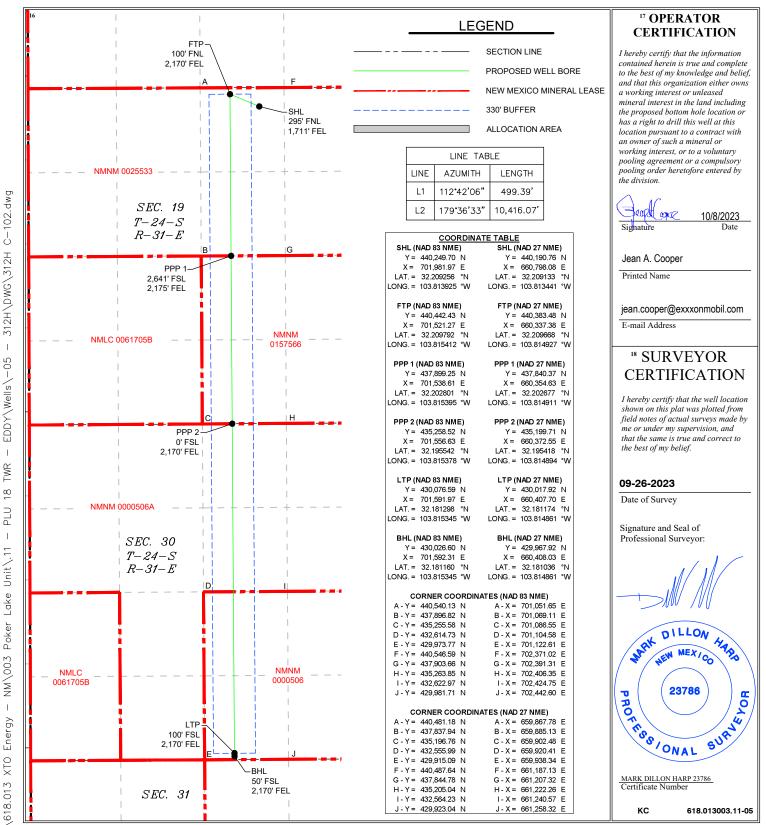
WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number	Pool Code	<sup>3</sup> Pool Name					
30-015-	97975	WC-015 G-06 S243119C; Bone Sp	pring				
<sup>4</sup> Property Code		<sup>5</sup> Property Name					
	POKER	LAKE UNIT 18 TWR	312H				
<sup>7</sup> OGRID No.	8	Operator Name	<sup>9</sup> Elevation				
373075	XTO PERM	XTO PERMIAN OPERATING, LLC.					

<sup>10</sup> Surface Location UL or lot no. Section Township Range Feet from the East/West line В **24S** 31E **NORTH EAST EDDY** 19 1.711 "Bottom Hole Location If Different From Surface

UL or lot no. East/West line Section Feet from the County Township Range Lot Idn Feet from the North/South line 0 30 **24S** 31E 50 SOUTH 2,170 **EAST EDDY** <sup>3</sup> Joint or Infill 12 Dedicated Acres Consolidation Code <sup>5</sup>Order No.

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.



Released to Imaging: 5/8/2025 10:27:25 AM

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TWR

PLU

1

Unit\.11

Lake

Poker

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

XTO Energy Inc.
PLU 18 Twin Wells Ranch 312H
Projected TD: 20885.6' MD / 9969' TVD
SHL: 295' FNL & 1711' FEL , Section 19, T24S, R31E
BHL: 50' FSL & 2170' FEL , Section 30, T24S, R31E
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	593'	Water
Top of Salt	959'	Water
Base of Salt	4065'	Water
Delaware	4294'	Water
Brushy Canyon	6794'	Water/Oil/Gas
Bone Spring	8135'	Water
1st Bone Spring	9111'	Water/Oil/Gas
2nd Bone Spring	9910'	Water/Oil/Gas
Target/Land Curve	9969'	Water/Oil/Gas
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<sup>\*\*\*</sup> Hydrocarbons @ Brushy Canyon

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 @ 693' (266' 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 9144' and cemented to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 20885.6 MD/TD and 5.5 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 8844 feet).

# 3. Casing Design

Hole Size	Depth	OD Csg	<u> </u>		Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0' – 693'	9.625	5 40 J-55		втс	New	1.39	9.08	22.73
8.75	0' - 4000'	7.625	29.7	RY P-110	Flush Joint	New	2.21	2.52	2.05
8.75	4000' – 9144'	7.625	29.7	HC L-80	Flush Joint	New	1.60	2.01	2.66
6.75	0' – 9044'	5.5	20	RY P-110	Semi-Premium	New	1.26	1.89	2.27
6.75	9044' - 20885.6'	5.5	20	RY P-110	Semi-Flush	New	1.26	1.71	2.27

<sup>·</sup> 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

<sup>\*\*\*</sup> Groundwater depth 40' (per NM State Engineers Office).

#### 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 +/- 693'

Lead: 130 sxs EconoCem-HLTRRC (mixed at 10.5 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 +/- 9144'

st Stage

Optional Lead: 360 sxs Class C (mixed at 10.5 ppg, 2.77 ft3/sx, 15.59 gal/sx water)

TOC: Surface

Tail: 210 sxs Class C (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)

TOC: Brushy Canyon @ 6794

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: 760 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 (6794') 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 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 +/- 20885.6'

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

Tail: 820 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft3/sx, 8.38 gal/sx water) Top of Cement:

9344 feet

Compressives: 12-hr = 800 psi 24 hr = 1500 psi

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

#### 5. Pressure Control Equipment

Once the permanent WH is installed on the 9.625 casing, the blow out preventer equipment (BOP) will consist of a 13-5/8" minimum 5M Hydril and a 13-5/8" minimum 5M Double Ram BOP. MASP should not exceed 4287 psi. In any instance where 10M BOP is required by BLM, XTO requests a variance to utilize 5M annular with 10M ram preventers (a common BOP configuration, which allows use of 10M rams in unlikely event that pressures exceed 5M).

All BOP testing will be done by an independent service company. Annular pressure tests will be limited to 50% of the working pressure. When nippling up on the 9.625, 5M bradenhead and flange, the BOP test will be limited to 5000 psi. When nippling up on the 7.625, the BOP will be tested to a minimum of 5000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 5M BOP diagrams are attached. Blind rams will be functioned tested each trip, pipe rams will be functioned tested each day.

A variance is requested to allow use of a flex hose as the choke line from the BOP to the Choke Manifold. If this hose is used, a copy of the manufacturer's certification and pressure test chart will be kept on the rig. Attached is an example of a certification and pressure test chart. The manufacturer does not require anchors.

XTO requests a variance to be able to batch drill this well if necessary. In doing so, XTO will set casing and ensure that the well is cemented properly (unless approval is given for offline cementing) and the well is static. With floats holding, no pressure on the csg annulus, and the installation of a 10K TA cap as per Cactus recommendations, XTO will contact the BLM to skid the rig to drill the remaining wells on the pad. Once surface and both intermediate strings are all completed, XTO will begin drilling the production

hole on each of the wells.

A variance is requested to **ONLY** test broken pressure seals on the BOP equipment when moving from wellhead to wellhead which is in compliance with API Standard 53. API standard 53 states, that for pad drilling operation, moving from one wellhead to another within 21 days, pressure testing is required for pressure-containing and pressure-controlling connections when the integrity of a pressure seal is broken. Based on discussions with the BLM on February 27th 2020, we will request permission to **ONLY** retest broken pressure seals if the following conditions are met: 1. After a full BOP test is conducted on the first well on the pad 2. When skidding to drill an intermediate section that does not penetrate into the Wolfcamp.

#### 6. Proposed Mud Circulation System

INTERVAL	Hole Size	Mud Type	MW	Viscosity	Fluid Loss
INTERVAL	Tible Size	Mud Type	(ppg)	(sec/qt)	(cc)
0' - 693'	12.25	FW/Native	8.4-8.9	35-40	NC
693' - 9144'	8.75	FW / Cut Brine / Direct Emulsion	10.2-10.7	30-32	NC
9144' - 20885.6'	6.75	ОВМ	12.5-13	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 165 to 185 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 6480 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.

Α

# Well Plan Report - Poker Lake Unit 18 TWR 312H

Measured Depth: 20885.60 ft Site:

 TVD RKB:
 9962.00 ft
 Slot:
 Poker Lake Unit 18

 . . ..
 TWR 312H

Location

New Mexico East -Cartographic Reference System: NAD 27 Northing: 440190 76 ft Easting: 660798.08 ft RKB: 3532.00 ft **Ground Level:** 3493.00 ft North Reference: Grid **Convergence Angle:** 0.28 Deg

Plan Sections Poker Lake Unit 18 TWR 312H

Measured			TVD			Build	Turn	Dogleg
Depth	Inclination	Azimuth	RKB	Y Offset	X Offset	Rate	Rate	Rate
(ft)	(Deg)	(Deg)	(ft)	(ft)	(ft)	(Deg/100ft)	(Deg/100ft)	(Deg/100ft) Target
0.00	0.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00
1200.00	0.00	0.00	1207.00	0.00	0.00	0.00	0.00	0.00
1775.29	11.51	332.88	1778.43	51.24	<del>-</del> 26.25	2.00	0.00	2.00
6317.71	11.51	332.88	6229.57	857.66	-439.31	0.00	0.00	0.00
6893.00	0.00	0.00	6801.00	908.90	-465.56	-2.00	0.00	2.00
9344.80	0.00	0.00	9252.80	908.90	-465.56	0.00	0.00	0.00
10469.80	90.00	179.61	9969.00	192.72	<del>-</del> 460.70	8.00	0.00	8.00 FTP 5
20835.60	90.00	179.61	9969.00	-10172.84	-390.38	0.00	0.00	0.00 LTP 5
20885.60	90.00	179.61	9969.00	-10222.84	-390.04	0.00	0.00	0.00 BHL 5

Position Uncertainty Poker Lake Unit 18 TWR 312H

Measured TVD Highside Lateral Vertical Magnitude Semi-major Semi-minor Tool

Depth	Inclination	Azimuth	RKB	Error	Bias	Error	Bias	Error	Bias	of Bias	Error	Error	Azimuth	Used
(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	0.000	0.000	0.000	0.000	0.000	0.000	MWD+IFR1+MS
100.000	0.000	0.000	100.000	0.700	0.000	0.350	0.000	2.300	0.000	0.000	0.751	0.220	112.264	MWD+IFR1+MS
200.000	0.000	0.000	200.000	1.112	0.000	0.861	0.000	2.310	0.000	0.000	1.259	0.627	122.711	MWD+IFR1+MS
300.000	0.000	0.000	300.000	1.497	0.000	1.271	0.000	2.326	0.000	0.000	1.698	0.986	125.469	MWD+IFR1+MS
400.000	0.000	0.000	400.000	1.871	0.000	1.658	0.000	2.348	0.000	0.000	2.108	1.344	126.713	MWD+IFR1+MS
500.000	0.000	0.000	500.000	2.240	0.000	2.034	0.000	2.375	0.000	0.000	2.503	1.701	127.419	MWD+IFR1+MS
600.000	0.000	0.000	600.000	2.607	0.000	2.405	0.000	2.408	0.000	0.000	2.888	2.059	127.873	MWD+IFR1+MS
700.000	0.000	0.000	700.000	2.971	0.000	2.773	0.000	2.445	0.000	0.000	3.267	2.417	128.190	MWD+IFR1+MS
800.000	0.000	0.000	800.000	3.334	0.000	3.138	0.000	2.487	0.000	0.000	3.642	2.775	128.423	MWD+IFR1+MS
900.000	0.000	0.000	900.000	3.696	0.000	3.502	0.000	2.534	0.000	0.000	4.014	3.133	128.602	MWD+IFR1+MS
1000.000	0.000	0.000	1000.000	4.058	0.000	3.865	0.000	2.584	0.000	0.000	4.384	3.491	128.744	MWD+IFR1+MS
1100.000	0.000	0.000	1100.000	4.419	0.000	4.228	0.000	2.638	0.000	0.000	4.752	3.849	128.859	MWD+IFR1+MS
1200.000	0.000	0.000	1200.000	4.779	0.000	4.589	0.000	2.695	0.000	0.000	5.119	4.207	128.954	MWD+IFR1+MS
1300.000	2.000	332.878	1299.980	4.892	0.000	5.329	0.000	2.754	0.000	0.000	5.555	4.636	122.040	MWD+IFR1+MS
1400.000	4.000	332.878	1399.838	5.720	0.000	5.665	0.000	2.818	0.000	0.000	6.168	5.183	106.022	MWD+IFR1+MS
1500.000	6.000	332.878	1499.452	6.455	0.000	6.002	0.000	2.886	0.000	0.000	6.826	5.598	96.556	MWD+IFR1+MS
1600.000	8.000	332.878	1598.702	7.125	0.000	6.341	0.000	2.961	0.000	0.000	7.473	5.965	91.445	MWD+IFR1+MS
1700.000	10.000	332.878	1697.465	7.744	0.000	6.683	0.000	3.046	0.000	0.000	8.094	6.315	88.462	MWD+IFR1+MS
1775.287	11.506	332.878	1771.429	8.078	0.000	6.933	0.000	3.106	0.000	0.000	8.441	6.570	87.546	MWD+IFR1+MS
1800.000	11.506	332.878	1795.645	8.151	0.000	7.012	0.000	3.121	0.000	0.000	8.512	6.653	87.532	MWD+IFR1+MS
1900.000	11.506	332.878	1893.635	8.443	0.000	7.345	0.000	3.200	0.000	0.000	8.801	6.990	87.817	MWD+IFR1+MS
2000.000	11.506	332.878	1991.626	8.756	0.000	7.697	0.000	3.284	0.000	0.000	9.116	7.335	88.379	MWD+IFR1+MS
2100.000	11.506	332.878	2089.616	9.074	0.000	8.051	0.000	3.370	0.000	0.000	9.437	7.683	88.922	MWD+IFR1+MS
2200.000	11.506	332.878	2187.607	9.397	0.000	8.408	0.000	3.459	0.000	0.000	9.763	8.034	89.446	MWD+IFR1+MS
2300.000	11.506	332.878	2285.597	9.725	0.000	8.767	0.000	3.550	0.000	0.000	10.093	8.386	89.953	MWD+IFR1+MS
2400.000	11.506	332.878	2383.587	10.056	0.000	9.128	0.000	3.644	0.000	0.000	10.426	8.741	90.443	MWD+IFR1+MS
2500.000	11.506	332.878	2481.578	10.392	0.000	9.490	0.000	3.740	0.000	0.000	10.763	9.097	90.917	MWD+IFR1+MS
2600.000	11.506	332.878	2579.568	10.731	0.000	9.854	0.000	3.838	0.000	0.000	11.103	9.455	91.376	MWD+IFR1+MS
2700.000	11.506	332.878	2677.559	11.073	0.000	10.220	0.000	3.938	0.000	0.000	11.445	9.814	91.820	MWD+IFR1+MS
2800.000	11.506	332.878	2775.549	11.417	0.000	10.586	0.000	4.040	0.000	0.000	11.790	10.175	92.251	MWD+IFR1+MS
2900.000	11.506	332.878	2873.540	11.764	0.000	10.954	0.000	4.144	0.000	0.000	12.138	10.537	92.668	MWD+IFR1+MS

3000.000	11.506	332.878	2971.530	12.114	0.000	11.322	0.000	4.249	0.000	0.000	12.487	10.899	93.073	MWD+IFR1+MS
3100.000	11.506	332.878	3069.521	12.465	0.000	11.691	0.000	4.356	0.000	0.000	12.839	11.263	93.465	MWD+IFR1+MS
3200.000	11.506	332.878	3167.511	12.819	0.000	12.061	0.000	4.465	0.000	0.000	13.192	11.627	93.846	MWD+IFR1+MS
3300.000	11.506	332.878	3265.502	13.174	0.000	12.432	0.000	4.576	0.000	0.000	13.547	11.992	94.216	MWD+IFR1+MS
3400.000	11.506	332.878	3363.492	13.531	0.000	12.803	0.000	4.688	0.000	0.000	13.903	12.358	94.575	MWD+IFR1+MS
3500.000	11.506	332.878	3461.483	13.890	0.000	13.175	0.000	4.801	0.000	0.000	14.261	12.725	94.924	MWD+IFR1+MS
3600.000	11.506	332.878	3559.473	14.250	0.000	13.548	0.000	4.916	0.000	0.000	14.620	13.092	95.263	MWD+IFR1+MS
3700.000	11.506	332.878	3657.464	14.611	0.000	13.921	0.000	5.033	0.000	0.000	14.981	13.459	95.592	MWD+IFR1+MS
3800.000	11.506	332.878	3755.454	14.973	0.000	14.294	0.000	5.151	0.000	0.000	15.342	13.827	95.913	MWD+IFR1+MS
3900.000	11.506	332.878	3853.445	15.337	0.000	14.668	0.000	5.270	0.000	0.000	15.704	14.196	96.225	MWD+IFR1+MS
4000.000	11.506	332.878	3951.435	15.702	0.000	15.043	0.000	5.391	0.000	0.000	16.068	14.565	96.529	MWD+IFR1+MS
4100.000	11.506	332.878	4049.425	16.067	0.000	15.417	0.000	5.514	0.000	0.000	16.432	14.934	96.825	MWD+IFR1+MS
4200.000	11.506	332.878	4147.416	16.434	0.000	15.792	0.000	5.638	0.000	0.000	16.797	15.304	97.113	MWD+IFR1+MS
4300.000	11.506	332.878	4245.406	16.801	0.000	16.167	0.000	5.764	0.000	0.000	17.163	15.674	97.394	MWD+IFR1+MS
4400.000	11.506	332.878	4343.397	17.169	0.000	16.543	0.000	5.891	0.000	0.000	17.530	16.045	97.668	MWD+IFR1+MS
4500.000	11.506	332.878	4441.387	17.538	0.000	16.919	0.000	6.019	0.000	0.000	17.898	16.416	97.935	MWD+IFR1+MS
4600.000	11.506	332.878	4539.378	17.907	0.000	17.295	0.000	6.149	0.000	0.000	18.266	16.787	98.195	MWD+IFR1+MS
4700.000	11.506	332.878	4637.368	18.278	0.000	17.671	0.000	6.281	0.000	0.000	18.634	17.158	98.448	MWD+IFR1+MS
4800.000	11.506	332.878	4735.359	18.649	0.000	18.048	0.000	6.414	0.000	0.000	19.004	17.530	98.696	MWD+IFR1+MS
4900.000	11.506	332.878	4833.349	19.020	0.000	18.425	0.000	6.549	0.000	0.000	19.373	17.902	98.938	MWD+IFR1+MS
5000.000	11.506	332.878	4931.340	19.392	0.000	18.802	0.000	6.686	0.000	0.000	19.744	18.274	99.173	MWD+IFR1+MS
5100.000	11.506	332.878	5029.330	19.764	0.000	19.179	0.000	6.824	0.000	0.000	20.115	18.646	99.404	MWD+IFR1+MS
5200.000	11.506	332.878	5127.321	20.137	0.000	19.556	0.000	6.964	0.000	0.000	20.486	19.018	99.628	MWD+IFR1+MS
5300.000	11.506	332.878	5225.311	20.511	0.000	19.934	0.000	7.105	0.000	0.000	20.858	19.391	99.848	MWD+IFR1+MS
5400.000	11.506	332.878	5323.302	20.885	0.000	20.312	0.000	7.249	0.000	0.000	21.230	19.764	100.062	MWD+IFR1+MS
5500.000	11.506	332.878	5421.292	21.259	0.000	20.689	0.000	7.394	0.000	0.000	21.602	20.137	100.272	MWD+IFR1+MS
5600.000	11.506	332.878	5519.283	21.634	0.000	21.067	0.000	7.540	0.000	0.000	21.975	20.510	100.476	MWD+IFR1+MS
5700.000	11.506	332.878	5617.273	22.009	0.000	21.446	0.000	7.689	0.000	0.000	22.348	20.884	100.676	MWD+IFR1+MS
5800.000	11.506	332.878	5715.263	22.384	0.000	21.824	0.000	7.839	0.000	0.000	22.722	21.257	100.872	MWD+IFR1+MS
5900.000	11.506	332.878	5813.254	22.760	0.000	22.202	0.000	7.991	0.000	0.000	23.096	21.631	101.063	MWD+IFR1+MS
6000.000	11.506	332.878	5911.244	23.136	0.000	22.581	0.000	8.145	0.000	0.000	23.470	22.005	101.250	MWD+IFR1+MS
6100.000	11.506	332.878	6009.235	23.512	0.000	22.959	0.000	8.301	0.000	0.000	23.845	22.379	101.432	MWD+IFR1+MS
6200.000	11.506	332.878	6107.225	23.889	0.000	23.338	0.000	8.459	0.000	0.000	24.219	22.753	101.611	MWD+IFR1+MS

6300.000	11.506	332.878	6205.216	24.266	0.000	23.717	0.000	8.619	0.000	0.000	24.594	23.127	101.785 I	MWD+IFR1+MS
6317.711	11.506	332.878	6222.571	24.331	0.000	23.782	0.000	8.647	0.000	0.000	24.658	23.193	101.804 <b>i</b>	MWD+IFR1+MS
6400.000	9.860	332.878	6303.431	24.667	0.000	24.087	0.000	8.781	0.000	0.000	24.966	23.501	101.675 N	MWD+IFR1+MS
6500.000	7.860	332.878	6402.233	25.117	0.000	24.455	0.000	8.946	0.000	0.000	25.398	23.883	100.383	MWD+IFR1+MS
6600.000	5.860	332.878	6501.512	25.548	0.000	24.818	0.000	9.106	0.000	0.000	25.839	24.260	98.922	MWD+IFR1+MS
6700.000	3.860	332.878	6601.147	25.941	0.000	25.173	0.000	9.260	0.000	0.000	26.274	24.627	97.581 <b>N</b>	MWD+IFR1+MS
6800.000	1.860	332.878	6701.017	26.295	0.000	25.520	0.000	9.409	0.000	0.000	26.701	24.986	96.360	MWD+IFR1+MS
6892.999	0.000	0.000	6794.000	27.063	0.000	25.321	0.000	9.544	0.000	0.000	27.082	25.301	96.090 M	MWD+IFR1+MS
6900.000	0.000	0.000	6801.001	27.085	0.000	25.345	0.000	9.554	0.000	0.000	27.104	25.324	96.093	MWD+IFR1+MS
7000.000	0.000	0.000	6901.001	27.406	0.000	25.681	0.000	9.700	0.000	0.000	27.426	25.660	96.187 <b>N</b>	MWD+IFR1+MS
7100.000	0.000	0.000	7001.001	27.733	0.000	26.023	0.000	9.848	0.000	0.000	27.754	26.000	96.433 N	MWD+IFR1+MS
7200.000	0.000	0.000	7101.001	28.060	0.000	26.365	0.000	9.999	0.000	0.000	28.083	26.340	96.677 <b>N</b>	MWD+IFR1+MS
7300.000	0.000	0.000	7201.001	28.389	0.000	26.707	0.000	10.153	0.000	0.000	28.413	26.681	96.917 <b>N</b>	MWD+IFR1+MS
7400.000	0.000	0.000	7301.001	28.718	0.000	27.050	0.000	10.310	0.000	0.000	28.744	27.023	97.155 N	MWD+IFR1+MS
7500.000	0.000	0.000	7401.001	29.047	0.000	27.394	0.000	10.469	0.000	0.000	29.075	27.364	97.390 N	MWD+IFR1+MS
7600.000	0.000	0.000	7501.001	29.378	0.000	27.737	0.000	10.632	0.000	0.000	29.407	27.707	97.622 <b>N</b>	MWD+IFR1+MS
7700.000	0.000	0.000	7601.001	29.709	0.000	28.082	0.000	10.797	0.000	0.000	29.740	28.049	97.852 N	MWD+IFR1+MS
7800.000	0.000	0.000	7701.001	30.041	0.000	28.426	0.000	10.965	0.000	0.000	30.073	28.392	98.079 N	MWD+IFR1+MS
7900.000	0.000	0.000	7801.001	30.373	0.000	28.771	0.000	11.136	0.000	0.000	30.407	28.735	98.303 N	MWD+IFR1+MS
8000.000	0.000	0.000	7901.001	30.706	0.000	29.116	0.000	11.310	0.000	0.000	30.741	29.078	98.524 <b>N</b>	MWD+IFR1+MS
8100.000	0.000	0.000	8001.001	31.039	0.000	29.461	0.000	11.487	0.000	0.000	31.076	29.422	98.743 N	MWD+IFR1+MS
8200.000	0.000	0.000	8101.001	31.373	0.000	29.807	0.000	11.667	0.000	0.000	31.412	29.766	98.959 <b>N</b>	MWD+IFR1+MS
8300.000	0.000	0.000	8201.001	31.708	0.000	30.153	0.000	11.850	0.000	0.000	31.748	30.111	99.173 N	MWD+IFR1+MS
8400.000	0.000	0.000	8301.001	32.043	0.000	30.500	0.000	12.036	0.000	0.000	32.085	30.455	99.384 N	MWD+IFR1+MS
8500.000	0.000	0.000	8401.001	32.378	0.000	30.846	0.000	12.225	0.000	0.000	32.422	30.800	99.592 N	MWD+IFR1+MS
8600.000	0.000	0.000	8501.001	32.714	0.000	31.193	0.000	12.417	0.000	0.000	32.760	31.145	99.798 <b>N</b>	MWD+IFR1+MS
8700.000	0.000	0.000	8601.001	33.051	0.000	31.540	0.000	12.612	0.000	0.000	33.098	31.491	100.001 N	MWD+IFR1+MS
8800.000	0.000	0.000	8701.001	33.388	0.000	31.888	0.000	12.810	0.000	0.000	33.437	31.836	100.202 N	MWD+IFR1+MS
8900.000	0.000	0.000	8801.001	33.725	0.000	32.236	0.000	13.011	0.000	0.000	33.776	32.182	100.400 N	MWD+IFR1+MS
9000.000	0.000	0.000	8901.001	34.063	0.000	32.583	0.000	13.215	0.000	0.000	34.115	32.528	100.596 N	MWD+IFR1+MS
9100.000	0.000	0.000	9001.001	34.401	0.000	32.932	0.000	13.422	0.000	0.000	34.455	32.875	100.790 N	MWD+IFR1+MS
9200.000	0.000	0.000	9101.001	34.740	0.000	33.280	0.000	13.632	0.000	0.000	34.796	33.221	100.981 <b>N</b>	MWD+IFR1+MS
9300.000	0.000	0.000	9201.001	35.079	0.000	33.628	0.000	13.845	0.000	0.000	35.136	33.568	101.169 N	MWD+IFR1+MS

9344.802	0.000	0.000	9245.803	35.229	0.000	33.783	0.000	13.942	0.000	0.000	35.287	33.723	101.192 MWI	D+IFR1+MS
9400.000	4.416	179.611	9300.947	35.091	0.000	33.967	-0.000	14.060	0.000	0.000	35.483	33.903	101.063 MWI	D+IFR1+MS
9500.000	12.416	179.611	9399.789	35.069	0.000	34.267	-0.000	14.314	0.000	0.000	36.452	34.209	98.765 MWI	D+IFR1+MS
9600.000	20.416	179.611	9495.635	34.980	0.000	34.546	-0.000	14.738	0.000	0.000	37.756	34.488	97.125 MWI	D+IFR1+MS
9700.000	28.416	179.611	9586.618	34.388	0.000	34.800	-0.000	15.397	0.000	0.000	38.886	34.738	96.450 MWI	D+IFR1+MS
9800.000	36.416	179.611	9670.967	33.379	0.000	35.027	-0.000	16.333	0.000	0.000	39.823	34.959	96.161 MWI	D+IFR1+MS
9900.000	44.416	179.611	9747.041	32.064	0.000	35.226	-0.000	17.546	0.000	0.000	40.563	35.153	96.067 MWI	D+IFR1+MS
10000.000	52.416	179.611	9813.359	30.588	0.000	35.400	-0.000	19.004	0.000	0.000	41.111	35.321	96.085 MWI	D+IFR1+MS
10100.000	60.416	179.611	9868.631	29.132	0.000	35.548	-0.000	20.653	0.000	0.000	41.483	35.463	96.164 MWI	D+IFR1+MS
10200.000	68.416	179.611	9911.779	27.906	0.000	35.672	-0.000	22.427	0.000	0.000	41.704	35.583	96.264 MWI	D+IFR1+MS
10300.000	76.416	179.611	9941.965	27.130	0.000	35.773	-0.000	24.261	0.000	0.000	41.808	35.681	96.342 MWI	D+IFR1+MS
10400.000	84.416	179.611	9958.601	26.994	0.000	35.849	-0.000	26.092	0.000	0.000	41.836	35.759	96.345 MWI	D+IFR1+MS
10469.802	90.000	179.611	9962.000	26.785	0.000	35.886	-0.000	26.785	0.000	0.000	41.836	35.798	96.260 MWI	D+IFR1+MS
10500.000	90.000	179.611	9962.000	26.858	0.000	35.898	-0.000	26.858	0.000	0.000	41.835	35.812	96.210 MWI	D+IFR1+MS
10600.000	90.000	179.611	9962.000	27.052	0.000	35.961	-0.000	27.052	0.000	0.000	41.832	35.880	96.061 MWI	D+IFR1+MS
10700.000	90.000	179.611	9962.000	27.272	0.000	36.048	-0.000	27.272	0.000	0.000	41.830	35.971	95.933 MWI	D+IFR1+MS
10800.000	90.000	179.611	9962.000	27.512	0.000	36.156	-0.000	27.512	0.000	0.000	41.829	36.084	95.821 MWI	D+IFR1+MS
10900.000	90.000	179.611	9962.000	27.772	0.000	36.286	-0.000	27.772	0.000	0.000	41.829	36.217	95.727 MWI	D+IFR1+MS
11000.000	90.000	179.611	9962.000	28.052	0.000	36.436	-0.000	28.052	0.000	0.000	41.829	36.371	95.649 MWI	D+IFR1+MS
11100.000	90.000	179.611	9962.000	28.351	0.000	36.607	-0.000	28.351	0.000	0.000	41.830	36.545	95.588 MWI	D+IFR1+MS
11200.000	90.000	179.611	9962.000	28.668	0.000	36.798	-0.000	28.668	0.000	0.000	41.832	36.739	95.546 MWI	D+IFR1+MS
11300.000	90.000	179.611	9962.000	29.003	0.000	37.009	-0.000	29.003	0.000	0.000	41.835	36.953	95.523 MWI	D+IFR1+MS
11400.000	90.000	179.611	9962.000	29.355	0.000	37.239	-0.000	29.355	0.000	0.000	41.838	37.187	95.522 MWI	D+IFR1+MS
11500.000	90.000	179.611	9962.000	29.724	0.000	37.489	-0.000	29.724	0.000	0.000	41.842	37.439	95.547 MWI	D+IFR1+MS
11600.000	90.000	179.611	9962.000	30.109	0.000	37.758	-0.000	30.109	0.000	0.000	41.847	37.710	95.602 MWI	D+IFR1+MS
11700.000	90.000	179.611	9962.000	30.509	0.000	38.045	-0.000	30.509	0.000	0.000	41.853	38.000	95.693 MWI	D+IFR1+MS
11800.000	90.000	179.611	9962.000	30.923	0.000	38.350	-0.000	30.923	0.000	0.000	41.859	38.307	95.830 MWI	D+IFR1+MS
11900.000	90.000	179.611	9962.000	31.352	0.000	38.673	-0.000	31.352	0.000	0.000	41.866	38.631	96.028 MWI	D+IFR1+MS
12000.000	90.000	179.611	9962.000	31.795	0.000	39.014	-0.000	31.795	0.000	0.000	41.874	38.973	96.309 MWI	D+IFR1+MS
12100.000	90.000	179.611	9962.000	32.250	0.000	39.371	-0.000	32.250	0.000	0.000	41.883	39.330	96.711 MWI	D+IFR1+MS
12200.000	90.000	179.611	9962.000	32.718	0.000	39.744	-0.000	32.718	0.000	0.000	41.893	39.704	97.297 MWI	D+IFR1+MS
12300.000	90.000	179.611	9962.000	33.198	0.000	40.133	-0.000	33.198	0.000	0.000	41.904	40.092	98.192 MWI	D+IFR1+MS
12400.000	90.000	179.611	9962.000	33.689	0.000	40.537	-0.000	33.689	0.000	0.000	41.918	40.493	99.662 MWI	D+IFR1+MS

12500.000	90.000	179.611	9962.000	34.192	0.000	40.957	-0.000	34.192	0.000	0.000	41.937	40.906	102.396	MWD+IFR1+MS
12600.000	90.000	179.611	9962.000	34.705	0.000	41.391	-0.000	34.705	0.000	0.000	41.968	41.321	108.743	MWD+IFR1+MS
12700.000	90.000	179.611	9962.000	35.227	0.000	41.839	-0.000	35.227	0.000	0.000	42.057	41.693	128.874	MWD+IFR1+MS
12800.000	90.000	179.611	9962.000	35.760	0.000	42.300	-0.000	35.760	0.000	0.000	42.357	41.867	-20.279	MWD+IFR1+MS
12900.000	90.000	179.611	9962.000	36.301	0.000	42.775	-0.000	36.301	0.000	0.000	42.796	41.916	<b>-</b> 9.329	MWD+IFR1+MS
13000.000	90.000	179.611	9962.000	36.852	0.000	43.263	-0.000	36.852	0.000	0.000	43.272	41.942	-5.313	MWD+IFR1+MS
13100.000	90.000	179.611	9962.000	37.410	0.000	43.762	-0.000	37.410	0.000	0.000	43.767	41.961	-3.336	MWD+IFR1+MS
13200.000	90.000	179.611	9962.000	37.977	0.000	44.274	-0.000	37.977	0.000	0.000	44.276	41.979	-2.184	MWD+IFR1+MS
13300.000	90.000	179.611	9962.000	38.552	0.000	44.797	-0.000	38.552	0.000	0.000	44.798	41.995	-1.439	MWD+IFR1+MS
13400.000	90.000	179.611	9962.000	39.133	0.000	45.331	-0.000	39.133	0.000	0.000	45.331	42.012	-0.924	MWD+IFR1+MS
13500.000	90.000	179.611	9962.000	39.722	0.000	45.876	-0.000	39.722	0.000	0.000	45.876	42.029	-0.552	MWD+IFR1+MS
13600.000	90.000	179.611	9962.000	40.317	0.000	46.431	-0.000	40.317	0.000	0.000	46.431	42.046	-0.273	MWD+IFR1+MS
13700.000	90.000	179.611	9962.000	40.919	0.000	46.996	-0.000	40.919	0.000	0.000	46.996	42.064	-0.058	MWD+IFR1+MS
13800.000	90.000	179.611	9962.000	41.527	0.000	47.571	-0.000	41.527	0.000	0.000	47.571	42.081	0.110	MWD+IFR1+MS
13900.000	90.000	179.611	9962.000	42.140	0.000	48.155	-0.000	42.140	0.000	0.000	48.156	42.100	0.243	MWD+IFR1+MS
14000.000	90.000	179.611	9962.000	42.760	0.000	48.748	-0.000	42.760	0.000	0.000	48.749	42.118	0.351	MWD+IFR1+MS
14100.000	90.000	179.611	9962.000	43.384	0.000	49.349	-0.000	43.384	0.000	0.000	49.351	42.138	0.438	MWD+IFR1+MS
14200.000	90.000	179.611	9962.000	44.014	0.000	49.959	-0.000	44.014	0.000	0.000	49.961	42.157	0.510	MWD+IFR1+MS
14300.000	90.000	179.611	9962.000	44.649	0.000	50.577	-0.000	44.649	0.000	0.000	50.579	42.178	0.569	MWD+IFR1+MS
14400.000	90.000	179.611	9962.000	45.288	0.000	51.202	-0.000	45.288	0.000	0.000	51.204	42.198	0.617	MWD+IFR1+MS
14500.000	90.000	179.611	9962.000	45.932	0.000	51.835	-0.000	45.932	0.000	0.000	51.838	42.220	0.657	MWD+IFR1+MS
14600.000	90.000	179.611	9962.000	46.580	0.000	52.475	-0.000	46.580	0.000	0.000	52.478	42.241	0.690	MWD+IFR1+MS
14700.000	90.000	179.611	9962.000	47.232	0.000	53.122	-0.000	47.232	0.000	0.000	53.125	42.264	0.718	MWD+IFR1+MS
14800.000	90.000	179.611	9962.000	47.889	0.000	53.775	-0.000	47.889	0.000	0.000	53.779	42.286	0.740	MWD+IFR1+MS
14900.000	90.000	179.611	9962.000	48.549	0.000	54.435	-0.000	48.549	0.000	0.000	54.439	42.310	0.759	MWD+IFR1+MS
15000.000	90.000	179.611	9962.000	49.213	0.000	55.101	-0.000	49.213	0.000	0.000	55.106	42.333	0.774	MWD+IFR1+MS
15100.000	90.000	179.611	9962.000	49.880	0.000	55.773	-0.000	49.880	0.000	0.000	55.778	42.358	0.786	MWD+IFR1+MS
15200.000	90.000	179.611	9962.000	50.551	0.000	56.451	-0.000	50.551	0.000	0.000	56.456	42.383	0.795	MWD+IFR1+MS
15300.000	90.000	179.611	9962.000	51.225	0.000	57.134	-0.000	51.225	0.000	0.000	57.140	42.408	0.803	MWD+IFR1+MS
15400.000	90.000	179.611	9962.000	51.902	0.000	57.823	-0.000	51.902	0.000	0.000	57.829	42.434	0.808	MWD+IFR1+MS
15500.000	90.000	179.611	9962.000	52.582	0.000	58.517	-0.000	52.582	0.000	0.000	58.523	42.460	0.812	MWD+IFR1+MS
15600.000	90.000	179.611	9962.000	53.265	0.000	59.215	-0.000	53.265	0.000	0.000	59.222	42.487	0.814	MWD+IFR1+MS
15700.000	90.000	179.611	9962.000	53.950	0.000	59.919	-0.000	53.950	0.000	0.000	59.925	42.514	0.816	MWD+IFR1+MS

15800.000	90.000	179.611	9962.000	54.639	0.000	60.627	-0.000	54.639	0.000	0.000	60.634	42.542	0.816 MWD+IFR1+MS
15900.000	90.000	179.611	9962.000	55.330	0.000	61.340	-0.000	55.330	0.000	0.000	61.347	42.571	0.815 MWD+IFR1+MS
16000.000	90.000	179.611	9962.000	56.023	0.000	62.057	-0.000	56.023	0.000	0.000	62.064	42.600	0.813 MWD+IFR1+MS
16100.000	90.000	179.611	9962.000	56.719	0.000	62.778	-0.000	56.719	0.000	0.000	62.785	42.629	0.811 MWD+IFR1+MS
16200.000	90.000	179.611	9962.000	57.417	0.000	63.503	-0.000	57.417	0.000	0.000	63.510	42.659	0.808 MWD+IFR1+MS
16300.000	90.000	179.611	9962.000	58.117	0.000	64.232	-0.000	58.117	0.000	0.000	64.240	42.689	0.804 MWD+IFR1+MS
16400.000	90.000	179.611	9962.000	58.820	0.000	64.965	-0.000	58.820	0.000	0.000	64.973	42.720	0.800 MWD+IFR1+MS
16500.000	90.000	179.611	9962.000	59.524	0.000	65.701	-0.000	59.524	0.000	0.000	65.709	42.752	0.796 MWD+IFR1+MS
16600.000	90.000	179.611	9962.000	60.231	0.000	66.441	-0.000	60.231	0.000	0.000	66.449	42.784	0.791 MWD+IFR1+MS
16700.000	90.000	179.611	9962.000	60.939	0.000	67.184	-0.000	60.939	0.000	0.000	67.193	42.816	0.786 MWD+IFR1+MS
16800.000	90.000	179.611	9962.000	61.649	0.000	67.931	-0.000	61.649	0.000	0.000	67.939	42.849	0.780 MWD+IFR1+MS
16900.000	90.000	179.611	9962.000	62.361	0.000	68.681	-0.000	62.361	0.000	0.000	68.689	42.883	0.775 MWD+IFR1+MS
17000.000	90.000	179.611	9962.000	63.075	0.000	69.433	-0.000	63.075	0.000	0.000	69.442	42.917	0.769 MWD+IFR1+MS
17100.000	90.000	179.611	9962.000	63.790	0.000	70.189	-0.000	63.790	0.000	0.000	70.198	42.951	0.763 MWD+IFR1+MS
17200.000	90.000	179.611	9962.000	64.507	0.000	70.948	-0.000	64.507	0.000	0.000	70.957	42.986	0.757 MWD+IFR1+MS
17300.000	90.000	179.611	9962.000	65.226	0.000	71.709	-0.000	65.226	0.000	0.000	71.719	43.022	0.750 MWD+IFR1+MS
17400.000	90.000	179.611	9962.000	65.946	0.000	72.474	-0.000	65.946	0.000	0.000	72.483	43.057	0.744 MWD+IFR1+MS
17500.000	90.000	179.611	9962.000	66.668	0.000	73.240	-0.000	66.668	0.000	0.000	73.250	43.094	0.737 MWD+IFR1+MS
17600.000	90.000	179.611	9962.000	67.391	0.000	74.010	-0.000	67.391	0.000	0.000	74.019	43.131	0.731 MWD+IFR1+MS
17700.000	90.000	179.611	9962.000	68.115	0.000	74.782	-0.000	68.115	0.000	0.000	74.791	43.168	0.724 MWD+IFR1+MS
17800.000	90.000	179.611	9962.000	68.841	0.000	75.556	-0.000	68.841	0.000	0.000	75.565	43.206	0.717 MWD+IFR1+MS
17900.000	90.000	179.611	9962.000	69.568	0.000	76.332	-0.000	69.568	0.000	0.000	76.342	43.244	0.711 MWD+IFR1+MS
18000.000	90.000	179.611	9962.000	70.296	0.000	77.111	-0.000	70.296	0.000	0.000	77.121	43.283	0.704 MWD+IFR1+MS
18100.000	90.000	179.611	9962.000	71.025	0.000	77.892	-0.000	71.025	0.000	0.000	77.902	43.323	0.697 MWD+IFR1+MS
18200.000	90.000	179.611	9962.000	71.756	0.000	78.675	-0.000	71.756	0.000	0.000	78.685	43.362	0.690 MWD+IFR1+MS
18300.000	90.000	179.611	9962.000	72.487	0.000	79.460	-0.000	72.487	0.000	0.000	79.470	43.403	0.683 MWD+IFR1+MS
18400.000	90.000	179.611	9962.000	73.220	0.000	80.247	-0.000	73.220	0.000	0.000	80.257	43.444	0.677 MWD+IFR1+MS
18500.000	90.000	179.611	9962.000	73.954	0.000	81.036	-0.000	73.954	0.000	0.000	81.046	43.485	0.670 MWD+IFR1+MS
18600.000	90.000	179.611	9962.000	74.689	0.000	81.827	-0.000	74.689	0.000	0.000	81.837	43.527	0.663 MWD+IFR1+MS
18700.000	90.000	179.611	9962.000	75.425	0.000	82.619	-0.000	75.425	0.000	0.000	82.629	43.569	0.656 MWD+IFR1+MS
18800.000	90.000	179.611	9962.000	76.162	0.000	83.414	-0.000	76.162	0.000	0.000	83.424	43.611	0.650 MWD+IFR1+MS
18900.000	90.000	179.611	9962.000	76.900	0.000	84.210	-0.000	76.900	0.000	0.000	84.220	43.655	0.643 MWD+IFR1+MS
19000.000	90.000	179.611	9962.000	77.638	0.000	85.008	-0.000	77.638	0.000	0.000	85.018	43.698	0.636 MWD+IFR1+MS

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19	9100.000	90.000	179.611	9962.000	78.378	0.000	85.807	-0.000	78.378	0.000	0.000	85.817	43.742	0.630 MWD+IFR1+MS	
19	9200.000	90.000	179.611	9962.000	79.119	0.000	86.608	-0.000	79.119	0.000	0.000	86.618	43.787	0.623 MWD+IFR1+MS	
19	9300.000	90.000	179.611	9962.000	79.860	0.000	87.411	-0.000	79.860	0.000	0.000	87.421	43.832	0.617 MWD+IFR1+MS	
19	9400.000	90.000	179.611	9962.000	80.602	0.000	88.215	-0.000	80.602	0.000	0.000	88.225	43.877	0.610 MWD+IFR1+MS	
19	9500.000	90.000	179.611	9962.000	81.345	0.000	89.020	-0.000	81.345	0.000	0.000	89.030	43.923	0.604 MWD+IFR1+MS	
19	9600.000	90.000	179.611	9962.000	82.089	0.000	89.827	-0.000	82.089	0.000	0.000	89.837	43.970	0.598 MWD+IFR1+MS	
19	9700.000	90.000	179.611	9962.000	82.833	0.000	90.635	-0.000	82.833	0.000	0.000	90.645	44.016	0.591 MWD+IFR1+MS	
19	9800.000	90.000	179.611	9962.000	83.579	0.000	91.445	-0.000	83.579	0.000	0.000	91.455	44.064	0.585 MWD+IFR1+MS	
19	9900.000	90.000	179.611	9962.000	84.325	0.000	92.256	-0.000	84.325	0.000	0.000	92.266	44.111	0.579 MWD+IFR1+MS	
2	000.000	90.000	179.611	9962.000	85.071	0.000	93.068	-0.000	85.071	0.000	0.000	93.078	44.160	0.573 MWD+IFR1+MS	
2	0100.000	90.000	179.611	9962.000	85.819	0.000	93.881	-0.000	85.819	0.000	0.000	93.891	44.208	0.566 MWD+IFR1+MS	
2	0200.000	90.000	179.611	9962.000	86.567	0.000	94.696	-0.000	86.567	0.000	0.000	94.706	44.257	0.560 MWD+IFR1+MS	
2	0300.000	90.000	179.611	9962.000	87.315	0.000	95.511	-0.000	87.315	0.000	0.000	95.522	44.307	0.554 MWD+IFR1+MS	
2	0400.000	90.000	179.611	9962.000	88.065	0.000	96.328	-0.000	88.065	0.000	0.000	96.338	44.357	0.548 MWD+IFR1+MS	
2	0500.000	90.000	179.611	9962.000	88.814	0.000	97.146	-0.000	88.814	0.000	0.000	97.156	44.407	0.543 MWD+IFR1+MS	
2	0600.000	90.000	179.611	9962.000	89.565	0.000	97.965	-0.000	89.565	0.000	0.000	97.976	44.458	0.537 MWD+IFR1+MS	
2	0700.000	90.000	179.611	9962.000	90.316	0.000	98.786	-0.000	90.316	0.000	0.000	98.796	44.510	0.531 MWD+IFR1+MS	
2	0800.000	90.000	179.611	9962.000	91.068	0.000	99.607	-0.000	91.068	0.000	0.000	99.617	44.561	0.525 MWD+IFR1+MS	
2	0835.600	90.000	179.611	9962.000	91.335	0.000	99.898	-0.000	91.335	0.000	0.000	99.908	44.580	0.523 MWD+IFR1+MS	
2	0885.602	90.000	179.611	9962.000	91.710	0.000	100.308	-0.000	91.710	0.000	0.000	100.318	44.606	0.520 MWD+IFR1+MS	

Plan Targets	Poker Lake Unit 18 TWR 312H				
	Measured Depth	<b>Grid Northing</b>	<b>Grid Easting</b>	TVD MSL Target Shape	
Target Name	(ft)	(ft)	(ft)	(ft)	
FTP 5	10476.80	440383.48	660337.38	6437.00 RECTANGLE	
LTP 5	20842.60	430017.92	660407.70	6437.00 RECTANGLE	
BHL 5	20892.60	429967.92	660408.03	6437.00 RECTANGLE	

# CACTUS WELLHEAD LLC

20" x 9-5/8" x 7-5/8" x 5-1/2" MBU-T-CFL-R-DBLO Wellhead With 11" 10M x 7-1/16" 15M CTH-DBLHPS Tubing Head And 9-5/8", 7-5/8" & 5-1/2" Pin Bottom Mandrel Casing Hangers

	DELAWARE BASI	
DRAWN	VJK	31MAR2
APPRV		
DRAWING NO	o. HBF000	0479

FORMATION CONTAINED HEREIN IS THE PROPERTY OF CACTUS WELLHEAD, LLC. REPRODUCTION, SCLOSURE, OR USE THEREOF IS PERMISSIBLE ONLY AS PROVIDED BY CONTRACT OR AS EXPRESSLY SUTHORIZED BY CACTUS WELLHEAD, LLC.

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Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS

Action 281477

#### **CONDITIONS**

Operator:	OGRID:	
XTO PERMIAN OPERATING LLC.	373075	
6401 HOLIDAY HILL ROAD	Action Number:	
MIDLAND, TX 79707	281477	
	Action Type:	
	[C-103] NOI Change of Plans (C-103A)	

#### CONDITIONS

Created By	Condition	Condition Date
dmcclure	If cement is not circulated to surface during cementing operations, a Cement Bond Log (CBL) is required.	5/8/2025