

Well Name: POKER LAKE UNIT 16 TWR	Well Location: T24S / R31E / SEC 21 / NWNE / 32.208676 / -103.782111	County or Parish/State: EDDY / NM
Well Number: 126H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMNM0506A	Unit or CA Name: POKER LAKE	Unit or CA Number: NMNM071016Z, NMNM71016X
US Well Number: 3001547412	Well Status: Producing Gas Well	Operator: XTO PERMIAN OPERATING LLC

Subsequent Report

Sundry ID: 2726482

Type of Submission: Subsequent Report

Date Sundry Submitted: 04/19/2023

Date Operation Actually Began: 04/25/2022

Type of Action: Other

Time Sundry Submitted: 07:04

Actual Procedure: XTO Energy (XTO) received verbal approval of Sundry ID 2668431, submitted on 4/25/2022. Due to AFMSS issues Sundry ID 2668431 was returned on 3/5/2023 and the sundry was not completed. Per BLM request XTO is submitting this sundry to update the well record. **Pool Change, Spacing, Casing/Cement, Drilling Variance Changes XTO Permian Operating, LLC requests permission to make the following changes to the original APD: No Additional Surface Disturbance Change formation from Wolfcamp to Bone Spring. Change pool from Purple Sage; Wolfcamp (98220) to Cotton Draw; Bone Spring, South (96546). Change BHL fr/200'FSL & 1870'FEL to 50'FSL & 2200'FEL, Section 28-T24S-R31E Casing/Cement design per the attached drilling program. Attachments: C102 Drilling Program Directional Plan Multibowl Diagram

SR Attachments

Actual Procedure

PLU_16_TWR_126H_Verbal_Approval_w.Attachments_20230419070153.pdf

Received by OCD: 5/30/2023 11:15:49 AM

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Operator

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

Operator Electronic Signature: JESSICA DOOLING

Signed on: APR 19, 2023 07:02 AM

Name: XTO PERMIAN OPERATING LLC

Title: Lead Regulatory Coordinator

Street Address: 6401 HOLIDAY HILL ROAD BLDG 5

City: MIDLANDState: TX

Phone: (970) 769-6048

Email address: JESSICA.DOOLING@EXXONMOBIL.COM

Field

Representative Name:

Street Address:

City:State:Zip:

Phone:

Email address:

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752342234

BLM POC Email Address: cwalls@blm.gov

Disposition: Approved

Disposition Date: 05/26/2023

Signature: Chris Walls

Rabadue, Stephanie

To: Morency, Allison E; Walls, Christopher; Ajibola E-I-T, Olabode T; Kirsch, Zane C
Subject: RE: [EXTERNAL] FW: Request: Sundry Approvals (XTO Energy)

From: Morency, Allison E [mailto:amorency@blm.gov]

Sent: Tuesday, June 7, 2022 4:25 PM

To: Rabadue, Stephanie <stephanie.rabadue@exxonmobil.com>; Walls, Christopher <cwalls@blm.gov>; Ajibola E-I-T, Olabode T <oajibolaeit@blm.gov>; Kirsch, Zane C <zkirsch@blm.gov>

Subject: RE: [EXTERNAL] FW: Request: Sundry Approvals (XTO Energy)

External Email - Think Before You Click

Verbal approval granted.

Chris is out today, but should approve them when they're back and send back the outrider and the PLU.

Sincerely,

Allison Morency
Petroleum Engineer
Carlsbad Field Office
Bureau of Land Management
575-234-5709

From: Rabadue, Stephanie <stephanie.rabadue@exxonmobil.com>

Sent: Tuesday, June 7, 2022 8:16 AM

To: Morency, Allison E <amorency@blm.gov>; Walls, Christopher <cwalls@blm.gov>; Ajibola E-I-T, Olabode T <oajibolaeit@blm.gov>; Kirsch, Zane C <zkirsch@blm.gov>

Subject: [EXTERNAL] FW: Request: Sundry Approvals (XTO Energy)

This email has been received from outside of DOI - Use caution before clicking on links, opening attachments, or responding.

Good morning, BLM Team,

Our PLU 16 TWR wells are imminent. We have 3 rigs headed that direction beginning tomorrow, beginning with the: 167H, 127H, 107H, 106H, 126H, 156H, 154H, 124H, 104H.

Any help you can provide in getting these approvals would be greatly appreciated.

Thank you for everything!

Take care and happy Tuesday!

Stephanie Rabadue

ExxonMobil UOG Unconventional
Permian Business Unit, Regulatory Manager
Phone: 432-620-6714
stephanie.rabadue@exxonmobil.com

*** Please Note My New Email Address: stephanie.rabadue@exxonmobil.com

From: Rabadue, Stephanie

Sent: Tuesday, May 31, 2022 6:32 AM

To: 'Morency, Allison E' <amorency@blm.gov>; 'cwalls@blm.gov' <cwalls@blm.gov>; 'Ajibola E-I-T, Olabode T' <oajibolaeit@blm.gov>; 'zkirsch@blm.gov' <zkirsch@blm.gov>

Cc: Evans, Cassie L <cassie.evans@exxonmobil.com>; Dooling, Jessica <jessica.dooling@exxonmobil.com>

Subject: FW: Request: Sundry Approvals (XTO Energy)

Good morning, BLM Team,

SOS. We're in dire need of the Outrider sundry approvals immediately followed by the Poker Lake Unit 16 TWR sundry approvals for rig spuds anticipated this week and next week.

If there is anything I can do to help, please don't hesitate to let me know!

Thank you, take care, and happy day after a holiday!

Outrider 28 Federal: June 3 Spud Date (No Additional Surface Disturbance, No Well Location Change)

Sundry ID	BLM Office	Operator	Well Name	Well Number
			Outrider	
2672444	Carlsbad	XTO ENERGY INCORP...	OUTRIDER 28 FED	123H
2672445	Carlsbad	XTO ENERGY INCORP...	OUTRIDER 28 FED	121H
2672447	Carlsbad	XTO ENERGY INCORP...	OUTRIDER 28 FED	101H
2672446	Carlsbad	XTO ENERGY INCORP...	OUTRIDER 28 FED	112H

Poker Lake Unit 16 TWR: June 8 Spud Date (No Additional Surface Disturbance, A Few On Pad Surface Hole Location Changes)

Sundry ID	BLM Office	Operator	Well Name	Well Number
			poker Lake Unit 16	
2668424	Carlsbad	XTO PERMIAN OPERAT...	POKER LAKE UNIT 16 TWR	104H
2668425	Carlsbad	XTO PERMIAN OPERAT...	POKER LAKE UNIT 16 TWR	106H
2668427	Carlsbad	XTO PERMIAN OPERAT...	POKER LAKE UNIT 16 TWR	107H
2668431	Carlsbad	XTO PERMIAN OPERAT...	POKER LAKE UNIT 16 TWR	126H
2668432	Carlsbad	XTO PERMIAN OPERAT...	POKER LAKE UNIT 16 TWR	127H
2668433	Carlsbad	XTO PERMIAN OPERAT...	POKER LAKE UNIT 16 TWR	154H
2668436	Carlsbad	XTO PERMIAN OPERAT...	POKER LAKE UNIT 16 TWR	156H
2668437	Carlsbad	XTO PERMIAN OPERAT...	POKER LAKE UNIT 16 TWR	167H
2668429	Carlsbad	XTO PERMIAN OPERAT...	POKER LAKE UNIT 16 TWR	124H
2668441	Carlsbad	XTO PERMIAN OPERAT...	POKER LAKE UNIT 16 TWR	167H
2672045	Carlsbad	XTO PERMIAN OPERAT...	POKER LAKE UNIT 16 TWR	152H
2672046	Carlsbad	XTO PERMIAN OPERAT...	POKER LAKE UNIT 16 TWR	161H

Stephanie Rabadue

ExxonMobil UOG Unconventional
 Permian Business Unit, Regulatory Manager
 Phone: 432-620-6714
stephanie.rabadue@exxonmobil.com

*** Please Note My New Email Address: stephanie.rabadue@exxonmobil.com

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 30-015-47412	² Pool Code 96546	³ Pool Name Cotton Draw; Bone Spring, South
⁴ Property Code	⁵ Property Name POKER LAKE UNIT 16 TWR	⁶ Well Number 126H
⁷ OGRID No. 373075	⁸ Operator Name XTO PERMIAN OPERATING, LLC.	⁹ Elevation 3,510'

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
B	21	24 S	31 E		515	NORTH	2,437	EAST	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
O	28	24 S	31 E		50	SOUTH	2,200	EAST	EDDY

¹² Dedicated Acres 320	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	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. <u>Stephanie Rabadue</u> 01/22/2022 Signature Date Stephanie Rabadue Printed Name stephanie.rabadue@exxonmobil.com E-mail Address
	SHL (NAD83 NME) Y = 440,117.3 X = 711,822.5 LAT. = 32.208758 °N LONG. = 103.782112 °W FTP (NAD83 NME) Y = 440,270.8 X = 711,618.8 LAT. = 32.209183 °N LONG. = 103.782768 °W CORNER COORDINATES (NAD83 NME) A - Y = 440,608.3 N , X = 712,938.3 E B - Y = 440,593.6 N , X = 710,299.6 E C - Y = 437,968.6 N , X = 712,953.3 E D - Y = 437,954.7 N , X = 710,316.0 E E - Y = 435,328.1 N , X = 712,971.9 E F - Y = 435,312.5 N , X = 710,332.2 E G - Y = 432,686.9 N , X = 712,989.1 E H - Y = 432,671.3 N , X = 710,349.1 E I - Y = 430,046.0 N , X = 713,007.1 E J - Y = 430,030.3 N , X = 710,366.1 E SHL (NAD27 NME) Y = 440,058.4 X = 670,638.5 LAT. = 32.208634 °N LONG. = 103.781628 °W FTP (NAD27 NME) Y = 440,212.0 X = 670,434.8 LAT. = 32.209059 °N LONG. = 103.782284 °W CORNER COORDINATES (NAD27 NME) A - Y = 440,549.4 N , X = 671,754.3 E B - Y = 440,534.7 N , X = 669,115.6 E C - Y = 437,909.8 N , X = 671,769.2 E D - Y = 437,895.9 N , X = 669,132.0 E E - Y = 435,269.4 N , X = 671,787.7 E F - Y = 435,253.7 N , X = 669,148.1 E G - Y = 432,628.2 N , X = 671,804.8 E H - Y = 432,612.7 N , X = 669,164.9 E I - Y = 429,987.4 N , X = 671,822.7 E J - Y = 429,971.7 N , X = 669,181.7 E	¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. 01-20-2022 Date of Survey Signature and Seal of Professional Surveyor: MARK DILLON HARP 23786 Certificate Number

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

XTO Energy Inc.
PLU 16 Twin Wells Ranch 126H
Projected TD: 20505' MD / 10390' TVD
SHL: 515' FNL & 2437' FEL , Section 21, T24S, R31E
BHL: 50' FSL & 2200' FEL , Section 28, 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	681'	Water
Top of Salt	955'	Water
Base of Salt	4166'	Water
Delaware	4400'	Water
Brushy Canyon	6515'	Water/Oil/Gas
Bone Spring	8230'	Water
1st Bone Spring Ss	9252'	Water/Oil/Gas
2nd Bone Spring Ss	9998'	Water/Oil/Gas
Target/Land Curve	10390'	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 @ 781' (174' 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 9250' and cemented to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 20505 MD/TD and 5.5 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 8950 feet).

3. Casing Design

Hole Size	MD	TVD	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0' – 781'	781'	9.625	40	J-55	BTC	New	1.50	7.27	20.17
8.75	0' – 4000'	3963'	7.625	29.7	RY P-110	Flush Joint	New	3.03	2.65	2.03
8.75	4000' – 9250'	9248'	7.625	29.7	HC L-80	Flush Joint	New	2.21	2.17	2.60
6.75	0' – 9150'	9148'	5.5	20	RY P-110	Semi-Premium	New	1.05	2.33	2.26
6.75	9150' - 20505'	10390'	5.5	20	RY P-110	Semi-Flush	New	1.05	2.05	2.26

- Production casing meets the clearance requirements as tapered string crosses over before encountering the intermediate shoe, per Onshore Order 2.3.B.1
- XTO requests the option to utilize a spudder rig (Atlas Copco RD20 or Equivalent) to set and cement surface casing per this Sundry
- XTO requests to not utilize centralizers in the curve and lateral
- 7.625 Collapse analyzed using 50% evacuation based on regional experience.
- 5.5 Tension calculated using vertical hanging weight plus the lateral weight multiplied by a friction factor of 0.35
- Test on Casing will be limited to 70% burst of the casing or 1500 psi, whichever is less
- XTO requests the option to use 5" BTC Float equipment for the the production casing

Wellhead:

Permanent Wellhead – Multibowl System

A. Starting Head: 11" 10M top flange x 9-5/8" bottom

B. Tubing Head: 11" 10M bottom flange x 7-1/16" 15M top flange

- Wellhead will be installed by manufacturer's representatives.
- Manufacturer will monitor welding process to ensure appropriate temperature of seal.
- Operator will test the 7-5/8" casing per BLM Onshore Order 2
- Wellhead Manufacturer representative will not be present for BOP test plug installation

4. Cement Program**Surface Casing: 9.625, 40 New BTC, J-55 casing to be set at +/- 781**

Lead: 160 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 +/- 92501st Stage

Optional Lead: 350 sxs Class C (mixed at 10.5 ppg, 2.77 ft3/sx, 15.59 gal/sx water)

TOC: Surface

Tail: 250 sxs Class C (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)

TOC: Brushy Canyon @ 6515

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: 730 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 (6515') 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 +/- 20505

Lead: 30 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft3/sx, 15.00 gal/sx water) Top of Cement:

8950 feet

Tail: 760 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft3/sx, 8.38 gal/sx water) Top of Cement:

9868 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 3117 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' - 781'	12.25		FW/Native	8.7-9.2	35-40	NC
781' - 9250'	8.75		FW / Cut Brine / Direct Emulsion	9.7-10.2	30-32	NC
9250' - 20505'	6.75		OBM	10-10.5	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 Kelly cock will be in the drill string at all times.
- A full opening drill pipe stabbing valve having appropriate connections will be on the rig floor at all times.
- 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 include None

9. Abnormal Pressures and Temperatures / Potential Hazards

None Anticipated. BHT of 170 to 190 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 5403 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 16 TWR 126H

Measured Depth:	20505.05 ft	Site:	PLU 16 TWR B/C
TVD RKB:	10390.00 ft	Slot:	4
Location			
Cartographic Reference System:	New Mexico East - NAD 27		
Northing:	440021.30 ft		
Easting:	670656.54 ft		
RKB:	3543.00 ft		
Ground Level:	3513.00 ft		
North Reference:	Grid		
Convergence Angle:	0.29 Deg		

Plan Sections									
PLU 16 TWR 126H									
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	0.01	-0.00	0.00	0.00	0.00	
2000.00	0.00	0.00	2000.00	0.01	-0.00	0.00	0.00	0.00	
2400.00	8.00	45.00	2398.70	19.72	19.72	2.00	0.00	2.00	
2674.84	12.35	25.46	2669.24	59.82	45.90	1.58	-7.11	2.00	
4433.47	12.35	25.46	4387.15	399.50	207.62	0.00	0.00	0.00	
5051.09	0.00	0.00	5000.00	459.38	236.13	-2.00	0.00	2.00	
9868.09	0.00	0.00	9817.00	459.38	236.13	0.00	0.00	0.00	
10768.09	90.00	180.00	10389.96	-113.58	236.13	10.00	0.00	10.00	
20505.05	90.00	179.34	10390.00	-9850.32	292.43	-0.00	-0.01	0.01	PLU 16 TWR BHL 5

Position Uncertainty														
PLU 16 TWR 126H														
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	OWSG 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	OWSG 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	OWSG 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	OWSG 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	OWSG 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	OWSG 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	OWSG 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	OWSG 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	OWSG 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	OWSG 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	OWSG 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	OWSG 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	OWSG 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	OWSG 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	OWSG 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	OWSG 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	OWSG 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	OWSG 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	OWSG 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	OWSG 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	OWSG MWD+IFR1+MS
2100.000	2.000	45.000	2099.980	7.521	0.000	7.525	0.000	3.355	0.000	0.000	7.525	7.525	-13.217	OWSG MWD+IFR1+MS
2200.000	4.000	45.000	2199.838	7.863	0.000	7.878	0.000	3.446	0.000	0.000	7.879	7.878	-21.486	OWSG MWD+IFR1+MS
2300.000	6.000	45.000	2299.452	8.195	0.000	8.232	0.000	3.538	0.000	0.000	8.233	8.231	-17.557	OWSG MWD+IFR1+MS
2400.000	8.000	45.000	2398.702	8.520	0.000	8.585	0.000	3.632	0.000	0.000	8.587	8.584	-10.907	OWSG MWD+IFR1+MS
2500.000	9.448	35.862	2497.547	8.847	0.000	8.940	0.000	3.729	0.000	0.000	8.942	8.937	-0.969	OWSG MWD+IFR1+MS
2600.000	11.068	29.251	2595.949	9.166	0.000	9.297	0.000	3.829	0.000	0.000	9.298	9.292	12.140	OWSG MWD+IFR1+MS
2674.845	12.352	25.459	2669.236	9.400	0.000	9.566	0.000	3.905	0.000	0.000	9.566	9.558	17.085	OWSG MWD+IFR1+MS
2700.000	12.352	25.459	2693.809	9.491	0.000	9.656	0.000	3.930	0.000	0.000	9.656	9.647	18.286	OWSG MWD+IFR1+MS
2800.000	12.352	25.459	2791.494	9.851	0.000	10.016	0.000	4.045	0.000	0.000	10.016	9.999	17.941	OWSG MWD+IFR1+MS
2900.000	12.352	25.459	2889.179	10.213	0.000	10.377	0.000	4.163	0.000	0.000	10.377	10.354	17.712	OWSG MWD+IFR1+MS
3000.000	12.352	25.459	2986.864	10.578	0.000	10.740	0.000	4.285	0.000	0.000	10.740	10.710	17.512	OWSG MWD+IFR1+MS
3100.000	12.352	25.459	3084.549	10.944	0.000	11.104	0.000	4.411	0.000	0.000	11.104	11.067	17.321	OWSG MWD+IFR1+MS
3200.000	12.352	25.459	3182.234	11.311	0.000	11.469	0.000	4.540	0.000	0.000	11.470	11.427	17.134	OWSG MWD+IFR1+MS
3300.000	12.352	25.459	3279.919	11.681	0.000	11.835	0.000	4.672	0.000	0.000	11.836	11.787	16.948	OWSG MWD+IFR1+MS
3400.000	12.352	25.459	3377.604	12.051	0.000	12.202	0.000	4.808	0.000	0.000	12.203	12.149	16.763	OWSG MWD+IFR1+MS
3500.000	12.352	25.459	3475.289	12.422	0.000	12.569	0.000	4.946	0.000	0.000	12.571	12.512	16.576	OWSG MWD+IFR1+MS
3600.000	12.352	25.459	3572.974	12.795	0.000	12.938	0.000	5.088	0.000	0.000	12.939	12.877	16.388	OWSG MWD+IFR1+MS
3700.000	12.352	25.459	3670.659	13.168	0.000	13.307	0.000	5.233	0.000	0.000	13.309	13.242	16.198	OWSG MWD+IFR1+MS
3800.000	12.352	25.459	3768.344	13.543	0.000	13.677	0.000	5.381	0.000	0.000	13.679	13.608	16.006	OWSG MWD+IFR1+MS
3900.000	12.352	25.459	3866.030	13.918	0.000	14.047	0.000	5.531	0.000	0.000	14.049	13.975	15.812	OWSG MWD+IFR1+MS
4000.000	12.352	25.459	3963.715	14.294	0.000	14.418	0.000	5.685	0.000	0.000	14.420	14.343	15.615	OWSG MWD+IFR1+MS
4100.000	12.352	25.459	4061.400	14.671	0.000	14.790	0.000	5.841	0.000	0.000	14.792	14.711	15.414	

														OWSG MWD+IFR1+MS
4200.000	12.352	25.459	4159.085	15.048	0.000	15.161	0.000	5.999	0.000	0.000	15.164	15.080	15.211	OWSG MWD+IFR1+MS
4300.000	12.352	25.459	4256.770	15.426	0.000	15.534	0.000	6.161	0.000	0.000	15.537	15.450	15.005	OWSG MWD+IFR1+MS
4400.000	12.352	25.459	4354.455	15.804	0.000	15.906	0.000	6.325	0.000	0.000	15.910	15.820	14.795	OWSG MWD+IFR1+MS
4433.474	12.352	25.459	4387.154	15.931	0.000	16.031	0.000	6.380	0.000	0.000	16.034	15.944	14.717	OWSG MWD+IFR1+MS
4500.000	11.022	25.459	4452.299	16.215	0.000	16.279	0.000	6.493	0.000	0.000	16.282	16.190	14.642	OWSG MWD+IFR1+MS
4600.000	9.022	25.459	4550.769	16.623	0.000	16.649	0.000	6.663	0.000	0.000	16.653	16.558	14.566	OWSG MWD+IFR1+MS
4700.000	7.022	25.459	4649.785	17.010	0.000	17.017	0.000	6.832	0.000	0.000	17.020	16.924	14.503	OWSG MWD+IFR1+MS
4800.000	5.022	25.459	4749.228	17.374	0.000	17.381	0.000	7.000	0.000	0.000	17.385	17.287	14.478	OWSG MWD+IFR1+MS
4900.000	3.022	25.459	4848.977	17.715	0.000	17.741	0.000	7.166	0.000	0.000	17.745	17.646	14.544	OWSG MWD+IFR1+MS
5000.000	1.022	25.459	4948.910	18.031	0.000	18.097	0.000	7.331	0.000	0.000	18.101	18.001	14.746	OWSG MWD+IFR1+MS
5051.094	0.000	0.000	5000.000	18.186	0.000	18.274	0.000	7.414	0.000	0.000	18.281	18.179	14.871	OWSG MWD+IFR1+MS
5100.000	0.000	0.000	5048.906	18.357	0.000	18.446	0.000	7.495	0.000	0.000	18.453	18.350	14.969	OWSG MWD+IFR1+MS
5200.000	0.000	0.000	5148.906	18.706	0.000	18.797	0.000	7.660	0.000	0.000	18.804	18.699	15.157	OWSG MWD+IFR1+MS
5300.000	0.000	0.000	5248.906	19.056	0.000	19.148	0.000	7.829	0.000	0.000	19.155	19.048	15.330	OWSG MWD+IFR1+MS
5400.000	0.000	0.000	5348.906	19.405	0.000	19.499	0.000	8.000	0.000	0.000	19.507	19.398	15.490	OWSG MWD+IFR1+MS
5500.000	0.000	0.000	5448.906	19.756	0.000	19.850	0.000	8.175	0.000	0.000	19.859	19.747	15.640	OWSG MWD+IFR1+MS
5600.000	0.000	0.000	5548.906	20.106	0.000	20.202	0.000	8.352	0.000	0.000	20.211	20.098	15.779	OWSG MWD+IFR1+MS
5700.000	0.000	0.000	5648.906	20.457	0.000	20.554	0.000	8.532	0.000	0.000	20.563	20.448	15.908	OWSG MWD+IFR1+MS
5800.000	0.000	0.000	5748.906	20.808	0.000	20.907	0.000	8.715	0.000	0.000	20.916	20.799	16.030	OWSG MWD+IFR1+MS
5900.000	0.000	0.000	5848.906	21.159	0.000	21.259	0.000	8.900	0.000	0.000	21.268	21.150	16.143	OWSG MWD+IFR1+MS
6000.000	0.000	0.000	5948.906	21.511	0.000	21.612	0.000	9.089	0.000	0.000	21.621	21.501	16.250	OWSG MWD+IFR1+MS
6100.000	0.000	0.000	6048.906	21.862	0.000	21.965	0.000	9.280	0.000	0.000	21.974	21.853	16.351	OWSG MWD+IFR1+MS
6200.000	0.000	0.000	6148.906	22.214	0.000	22.318	0.000	9.475	0.000	0.000	22.328	22.204	16.446	OWSG MWD+IFR1+MS
6300.000	0.000	0.000	6248.906	22.566	0.000	22.671	0.000	9.672	0.000	0.000	22.681	22.556	16.536	OWSG MWD+IFR1+MS
6400.000	0.000	0.000	6348.906	22.919	0.000	23.024	0.000	9.872	0.000	0.000	23.035	22.908	16.621	OWSG MWD+IFR1+MS
6500.000	0.000	0.000	6448.906	23.271	0.000	23.378	0.000	10.075	0.000	0.000	23.388	23.261	16.701	OWSG MWD+IFR1+MS
6600.000	0.000	0.000	6548.906	23.624	0.000	23.732	0.000	10.281	0.000	0.000	23.742	23.613	16.777	OWSG MWD+IFR1+MS
6700.000	0.000	0.000	6648.906	23.977	0.000	24.085	0.000	10.489	0.000	0.000	24.096	23.966	16.850	OWSG MWD+IFR1+MS
6800.000	0.000	0.000	6748.906	24.330	0.000	24.439	0.000	10.701	0.000	0.000	24.451	24.319	16.918	OWSG MWD+IFR1+MS
6900.000	0.000	0.000	6848.906	24.683	0.000	24.793	0.000	10.915	0.000	0.000	24.805	24.672	16.984	OWSG MWD+IFR1+MS
7000.000	0.000	0.000	6948.906	25.036	0.000	25.148	0.000	11.133	0.000	0.000	25.159	25.025	17.047	OWSG MWD+IFR1+MS
7100.000	0.000	0.000	7048.906	25.390	0.000	25.502	0.000	11.353	0.000	0.000	25.514	25.378	17.106	

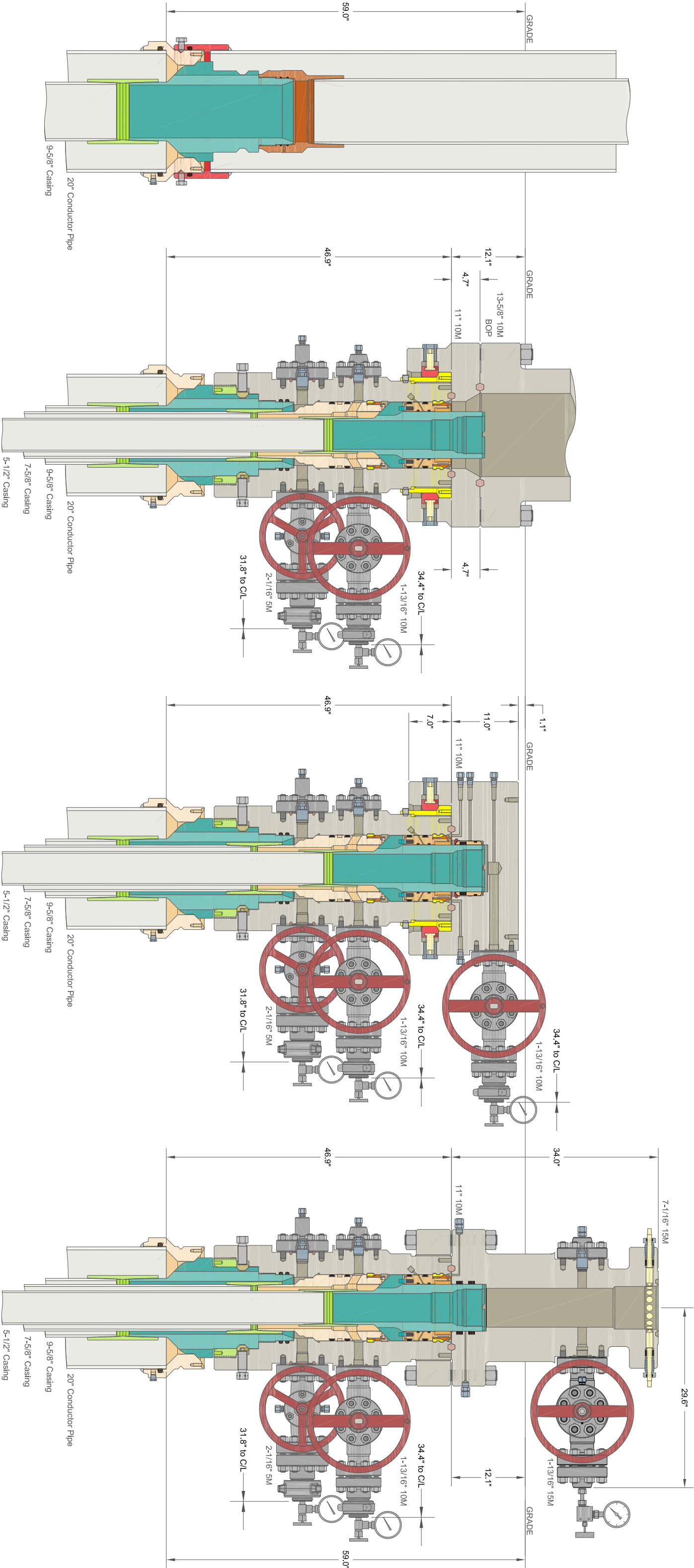
															OWSG MWD+IFR1+MS
7200.000	0.000	0.000	7148.906	25.743	0.000	25.856	0.000	11.576	0.000	0.000	25.868	25.731	17.163	OWSG MWD+IFR1+MS	
7300.000	0.000	0.000	7248.906	26.097	0.000	26.211	0.000	11.802	0.000	0.000	26.223	26.085	17.218	OWSG MWD+IFR1+MS	
7400.000	0.000	0.000	7348.906	26.451	0.000	26.566	0.000	12.031	0.000	0.000	26.578	26.439	17.270	OWSG MWD+IFR1+MS	
7500.000	0.000	0.000	7448.906	26.805	0.000	26.920	0.000	12.263	0.000	0.000	26.933	26.793	17.320	OWSG MWD+IFR1+MS	
7600.000	0.000	0.000	7548.906	27.159	0.000	27.275	0.000	12.498	0.000	0.000	27.288	27.147	17.368	OWSG MWD+IFR1+MS	
7700.000	0.000	0.000	7648.906	27.513	0.000	27.630	0.000	12.736	0.000	0.000	27.643	27.501	17.414	OWSG MWD+IFR1+MS	
7800.000	0.000	0.000	7748.906	27.868	0.000	27.985	0.000	12.976	0.000	0.000	27.998	27.855	17.459	OWSG MWD+IFR1+MS	
7900.000	0.000	0.000	7848.906	28.222	0.000	28.340	0.000	13.220	0.000	0.000	28.353	28.209	17.501	OWSG MWD+IFR1+MS	
8000.000	0.000	0.000	7948.906	28.577	0.000	28.696	0.000	13.466	0.000	0.000	28.709	28.564	17.542	OWSG MWD+IFR1+MS	
8100.000	0.000	0.000	8048.906	28.931	0.000	29.051	0.000	13.716	0.000	0.000	29.064	28.918	17.582	OWSG MWD+IFR1+MS	
8200.000	0.000	0.000	8148.906	29.286	0.000	29.406	0.000	13.968	0.000	0.000	29.420	29.273	17.620	OWSG MWD+IFR1+MS	
8300.000	0.000	0.000	8248.906	29.641	0.000	29.762	0.000	14.224	0.000	0.000	29.775	29.627	17.656	OWSG MWD+IFR1+MS	
8400.000	0.000	0.000	8348.906	29.996	0.000	30.117	0.000	14.482	0.000	0.000	30.131	29.982	17.692	OWSG MWD+IFR1+MS	
8500.000	0.000	0.000	8448.906	30.351	0.000	30.473	0.000	14.743	0.000	0.000	30.487	30.337	17.726	OWSG MWD+IFR1+MS	
8600.000	0.000	0.000	8548.906	30.706	0.000	30.829	0.000	15.007	0.000	0.000	30.842	30.692	17.759	OWSG MWD+IFR1+MS	
8700.000	0.000	0.000	8648.906	31.061	0.000	31.184	0.000	15.274	0.000	0.000	31.198	31.047	17.791	OWSG MWD+IFR1+MS	
8800.000	0.000	0.000	8748.906	31.416	0.000	31.540	0.000	15.544	0.000	0.000	31.554	31.402	17.822	OWSG MWD+IFR1+MS	
8900.000	0.000	0.000	8848.906	31.772	0.000	31.896	0.000	15.817	0.000	0.000	31.910	31.757	17.851	OWSG MWD+IFR1+MS	
9000.000	0.000	0.000	8948.906	32.127	0.000	32.252	0.000	16.093	0.000	0.000	32.266	32.113	17.880	OWSG MWD+IFR1+MS	
9100.000	0.000	0.000	9048.906	32.482	0.000	32.608	0.000	16.372	0.000	0.000	32.622	32.468	17.908	OWSG MWD+IFR1+MS	
9200.000	0.000	0.000	9148.906	32.838	0.000	32.964	0.000	16.654	0.000	0.000	32.978	32.823	17.935	OWSG MWD+IFR1+MS	
9300.000	0.000	0.000	9248.906	33.194	0.000	33.320	0.000	16.939	0.000	0.000	33.335	33.179	17.962	OWSG MWD+IFR1+MS	
9400.000	0.000	0.000	9348.906	33.549	0.000	33.676	0.000	17.227	0.000	0.000	33.691	33.534	17.987	OWSG MWD+IFR1+MS	
9500.000	0.000	0.000	9448.906	33.905	0.000	34.032	0.000	17.518	0.000	0.000	34.047	33.890	18.012	OWSG MWD+IFR1+MS	
9600.000	0.000	0.000	9548.906	34.261	0.000	34.388	0.000	17.811	0.000	0.000	34.403	34.245	18.036	OWSG MWD+IFR1+MS	
9700.000	0.000	0.000	9648.906	34.616	0.000	34.745	0.000	18.108	0.000	0.000	34.760	34.601	18.059	OWSG MWD+IFR1+MS	
9800.000	0.000	0.000	9748.906	34.972	0.000	35.101	0.000	18.408	0.000	0.000	35.116	34.957	18.082	OWSG MWD+IFR1+MS	
9868.094	0.000	0.000	9817.000	35.215	0.000	35.343	0.000	18.614	0.000	0.000	35.359	35.199	18.097	OWSG MWD+IFR1+MS	
9900.000	3.191	180.000	9848.890	35.208	-0.000	35.451	0.000	18.710	0.000	0.000	35.466	35.306	18.111	OWSG MWD+IFR1+MS	
10000.000	13.191	180.000	9947.744	34.655	-0.000	35.761	0.000	19.004	0.000	0.000	35.777	35.609	17.789	OWSG MWD+IFR1+MS	
10100.000	23.191	180.000	10042.626	33.358	-0.000	36.055	0.000	19.276	0.000	0.000	36.070	35.882	16.714	OWSG MWD+IFR1+MS	
10200.000	33.191	180.000	10130.652	31.410	-0.000	36.323	0.000	19.521	0.000	0.000	36.338	36.114	14.758		

														OWSG MWD+IFR1+MS
10300.000	43.191	180.000	10209.148	28.969	-0.000	36.563	0.000	19.736	0.000	0.000	36.575	36.299	12.426	OWSG MWD+IFR1+MS
10400.000	53.191	180.000	10275.729	26.268	-0.000	36.767	0.000	19.926	0.000	0.000	36.778	36.433	10.180	OWSG MWD+IFR1+MS
10500.000	63.191	180.000	10328.372	23.645	-0.000	36.934	0.000	20.096	0.000	0.000	36.943	36.521	8.218	OWSG MWD+IFR1+MS
10600.000	73.191	180.000	10365.476	21.549	-0.000	37.061	0.000	20.257	0.000	0.000	37.068	36.571	6.561	OWSG MWD+IFR1+MS
10700.000	83.191	180.000	10385.916	20.479	-0.000	37.146	0.000	20.417	0.000	0.000	37.150	36.593	5.155	OWSG MWD+IFR1+MS
10768.094	90.000	180.000	10389.958	20.528	0.000	37.178	0.000	20.528	0.000	0.000	37.182	36.600	4.306	OWSG MWD+IFR1+MS
10800.000	90.000	180.000	10389.958	20.582	0.000	37.189	0.000	20.582	0.000	0.000	37.192	36.603	3.920	OWSG MWD+IFR1+MS
10900.000	90.000	179.991	10389.958	20.771	0.000	37.232	-0.000	20.771	0.000	0.000	37.234	36.609	2.728	OWSG MWD+IFR1+MS
11000.000	90.000	179.984	10389.958	20.987	0.000	37.287	-0.000	20.987	0.000	0.000	37.288	36.616	1.641	OWSG MWD+IFR1+MS
11100.000	90.000	179.977	10389.958	21.230	0.000	37.354	-0.000	21.230	0.000	0.000	37.354	36.623	0.688	OWSG MWD+IFR1+MS
11200.000	90.000	179.971	10389.958	21.499	0.000	37.433	-0.000	21.499	0.000	0.000	37.433	36.631	-0.120	OWSG MWD+IFR1+MS
11300.000	90.000	179.964	10389.958	21.793	0.000	37.523	-0.000	21.793	0.000	0.000	37.523	36.640	-0.785	OWSG MWD+IFR1+MS
11400.000	90.000	179.957	10389.958	22.111	0.000	37.625	-0.000	22.111	0.000	0.000	37.626	36.650	-1.323	OWSG MWD+IFR1+MS
11500.000	90.000	179.950	10389.958	22.452	0.000	37.739	-0.000	22.452	0.000	0.000	37.739	36.660	-1.748	OWSG MWD+IFR1+MS
11600.000	90.000	179.943	10389.958	22.815	0.000	37.863	-0.000	22.815	0.000	0.000	37.865	36.672	-2.080	OWSG MWD+IFR1+MS
11700.000	90.000	179.937	10389.958	23.199	0.000	38.000	-0.000	23.199	0.000	0.000	38.002	36.685	-2.334	OWSG MWD+IFR1+MS
11800.000	90.000	179.930	10389.958	23.602	0.000	38.147	-0.000	23.602	0.000	0.000	38.150	36.698	-2.526	OWSG MWD+IFR1+MS
11900.000	90.000	179.923	10389.958	24.025	0.000	38.305	-0.000	24.025	0.000	0.000	38.309	36.713	-2.667	OWSG MWD+IFR1+MS
12000.000	90.000	179.916	10389.958	24.465	0.000	38.475	-0.000	24.465	0.000	0.000	38.478	36.728	-2.767	OWSG MWD+IFR1+MS
12100.000	90.000	179.909	10389.959	24.922	0.000	38.655	-0.000	24.922	0.000	0.000	38.659	36.745	-2.836	OWSG MWD+IFR1+MS
12200.000	90.000	179.903	10389.959	25.395	0.000	38.846	-0.000	25.395	0.000	0.000	38.850	36.762	-2.879	OWSG MWD+IFR1+MS
12300.000	90.000	179.896	10389.959	25.884	0.000	39.047	-0.000	25.884	0.000	0.000	39.052	36.781	-2.903	OWSG MWD+IFR1+MS
12400.000	90.000	179.889	10389.959	26.387	0.000	39.258	-0.000	26.387	0.000	0.000	39.264	36.801	-2.911	OWSG MWD+IFR1+MS
12500.000	90.000	179.882	10389.959	26.903	0.000	39.480	-0.000	26.903	0.000	0.000	39.486	36.821	-2.906	OWSG MWD+IFR1+MS
12600.000	90.000	179.875	10389.959	27.432	0.000	39.712	-0.000	27.432	0.000	0.000	39.718	36.843	-2.893	OWSG MWD+IFR1+MS
12700.000	90.000	179.869	10389.959	27.973	0.000	39.953	-0.000	27.973	0.000	0.000	39.960	36.866	-2.872	OWSG MWD+IFR1+MS
12800.000	90.000	179.862	10389.960	28.525	0.000	40.204	-0.000	28.525	0.000	0.000	40.211	36.890	-2.845	OWSG MWD+IFR1+MS
12900.000	90.000	179.855	10389.960	29.088	0.000	40.464	-0.000	29.088	0.000	0.000	40.472	36.915	-2.815	OWSG MWD+IFR1+MS
13000.000	90.000	179.848	10389.960	29.661	0.000	40.734	-0.000	29.661	0.000	0.000	40.742	36.941	-2.781	OWSG MWD+IFR1+MS
13100.000	90.000	179.841	10389.960	30.244	0.000	41.013	-0.000	30.244	0.000	0.000	41.021	36.968	-2.745	OWSG MWD+IFR1+MS
13200.000	90.000	179.835	10389.960	30.835	0.000	41.301	-0.000	30.835	0.000	0.000	41.309	36.996	-2.708	OWSG MWD+IFR1+MS
13300.000	90.000	179.828	10389.961	31.435	0.000	41.597	-0.000	31.435	0.000	0.000	41.605	37.025	-2.670	

															OWSG MWD+IFR1+MS
16600.000	90.000	179.603	10389.973	53.965	0.000	55.141	-0.000	53.965	0.000	0.000	55.149	38.525	-1.724	OWSG MWD+IFR1+MS	
16700.000	90.000	179.596	10389.973	54.694	0.000	55.636	-0.000	54.694	0.000	0.000	55.644	38.586	-1.707	OWSG MWD+IFR1+MS	
16800.000	90.000	179.590	10389.974	55.425	0.000	56.135	-0.000	55.425	0.000	0.000	56.142	38.648	-1.690	OWSG MWD+IFR1+MS	
16900.000	90.000	179.583	10389.975	56.157	0.000	56.637	-0.000	56.157	0.000	0.000	56.644	38.711	-1.674	OWSG MWD+IFR1+MS	
17000.000	90.000	179.576	10389.975	56.891	0.000	57.142	-0.000	56.891	0.000	0.000	57.150	38.775	-1.659	OWSG MWD+IFR1+MS	
17100.000	90.000	179.569	10389.976	57.626	0.000	57.651	-0.000	57.626	0.000	0.000	57.658	38.840	-1.644	OWSG MWD+IFR1+MS	
17200.000	90.000	179.562	10389.976	58.362	0.000	58.163	-0.000	58.362	0.000	0.000	58.170	38.905	-1.629	OWSG MWD+IFR1+MS	
17300.000	90.000	179.556	10389.977	59.100	0.000	58.678	-0.000	59.100	0.000	0.000	58.685	38.972	-1.615	OWSG MWD+IFR1+MS	
17400.000	90.000	179.549	10389.977	59.838	0.000	59.196	-0.000	59.838	0.000	0.000	59.203	39.039	-1.601	OWSG MWD+IFR1+MS	
17500.000	90.000	179.542	10389.978	60.578	0.000	59.717	-0.000	60.578	0.000	0.000	59.724	39.107	-1.587	OWSG MWD+IFR1+MS	
17600.000	90.000	179.535	10389.979	61.319	0.000	60.241	-0.000	61.319	0.000	0.000	60.247	39.176	-1.574	OWSG MWD+IFR1+MS	
17700.000	90.000	179.528	10389.979	62.061	0.000	60.768	-0.000	62.061	0.000	0.000	60.774	39.246	-1.562	OWSG MWD+IFR1+MS	
17800.000	90.000	179.521	10389.980	62.805	0.000	61.297	-0.000	62.805	0.000	0.000	61.303	39.316	-1.549	OWSG MWD+IFR1+MS	
17900.000	90.000	179.515	10389.980	63.549	0.000	61.829	-0.000	63.549	0.000	0.000	61.835	39.388	-1.538	OWSG MWD+IFR1+MS	
18000.000	90.000	179.508	10389.981	64.294	0.000	62.364	-0.000	64.294	0.000	0.000	62.370	39.460	-1.526	OWSG MWD+IFR1+MS	
18100.000	90.000	179.501	10389.982	65.040	0.000	62.901	-0.000	65.040	0.000	0.000	62.907	39.533	-1.515	OWSG MWD+IFR1+MS	
18200.000	90.000	179.494	10389.982	65.787	0.000	63.441	-0.000	65.787	0.000	0.000	63.447	39.607	-1.504	OWSG MWD+IFR1+MS	
18300.000	90.000	179.487	10389.983	66.535	0.000	63.983	-0.000	66.535	0.000	0.000	63.989	39.682	-1.493	OWSG MWD+IFR1+MS	
18400.000	90.000	179.481	10389.984	67.283	0.000	64.527	-0.000	67.283	0.000	0.000	64.533	39.757	-1.483	OWSG MWD+IFR1+MS	
18500.000	90.000	179.474	10389.984	68.033	0.000	65.074	-0.000	68.033	0.000	0.000	65.080	39.834	-1.473	OWSG MWD+IFR1+MS	
18600.000	90.000	179.467	10389.985	68.783	0.000	65.623	-0.000	68.783	0.000	0.000	65.628	39.911	-1.463	OWSG MWD+IFR1+MS	
18700.000	90.000	179.460	10389.986	69.534	0.000	66.174	-0.000	69.534	0.000	0.000	66.180	39.989	-1.453	OWSG MWD+IFR1+MS	
18800.000	90.000	179.453	10389.987	70.286	0.000	66.727	-0.000	70.286	0.000	0.000	66.733	40.068	-1.444	OWSG MWD+IFR1+MS	
18900.000	90.000	179.447	10389.987	71.038	0.000	67.283	-0.000	71.038	0.000	0.000	67.288	40.147	-1.435	OWSG MWD+IFR1+MS	
19000.000	90.000	179.440	10389.988	71.791	0.000	67.840	-0.000	71.791	0.000	0.000	67.845	40.227	-1.426	OWSG MWD+IFR1+MS	
19100.000	90.000	179.433	10389.989	72.545	0.000	68.399	-0.000	72.545	0.000	0.000	68.404	40.308	-1.418	OWSG MWD+IFR1+MS	
19200.000	90.000	179.426	10389.989	73.300	0.000	68.961	-0.000	73.300	0.000	0.000	68.965	40.390	-1.410	OWSG MWD+IFR1+MS	
19300.000	90.000	179.419	10389.990	74.055	0.000	69.524	-0.000	74.055	0.000	0.000	69.528	40.473	-1.402	OWSG MWD+IFR1+MS	
19400.000	90.000	179.413	10389.991	74.811	0.000	70.088	-0.000	74.811	0.000	0.000	70.093	40.556	-1.394	OWSG MWD+IFR1+MS	
19500.000	90.000	179.406	10389.992	75.567	0.000	70.655	-0.000	75.567	0.000	0.000	70.660	40.640	-1.386	OWSG MWD+IFR1+MS	
19600.000	90.000	179.399	10389.993	76.324	0.000	71.224	-0.000	76.324	0.000	0.000	71.228	40.725	-1.379	OWSG MWD+IFR1+MS	
19700.000	90.000	179.392	10389.993	77.081	0.000	71.794	-0.000	77.081	0.000	0.000	71.798	40.811	-1.372		

															OWSG MWD+IFR1+MS
19800.000	90.000	179.385	10389.994	77.839	0.000	72.365	-0.000	77.839	0.000	0.000	72.370	40.897	-1.365	OWSG MWD+IFR1+MS	
19900.000	90.000	179.379	10389.995	78.598	0.000	72.939	-0.000	78.598	0.000	0.000	72.943	40.984	-1.358	OWSG MWD+IFR1+MS	
20000.000	90.000	179.372	10389.996	79.357	0.000	73.514	-0.000	79.357	0.000	0.000	73.518	41.072	-1.351	OWSG MWD+IFR1+MS	
20100.000	90.000	179.365	10389.997	80.116	0.000	74.090	-0.000	80.116	0.000	0.000	74.094	41.161	-1.345	OWSG MWD+IFR1+MS	
20200.000	90.000	179.358	10389.997	80.876	0.000	74.668	-0.000	80.876	0.000	0.000	74.672	41.250	-1.339	OWSG MWD+IFR1+MS	
20300.000	90.000	179.351	10389.998	81.637	0.000	75.248	-0.000	81.637	0.000	0.000	75.252	41.340	-1.333	OWSG MWD+IFR1+MS	
20400.000	90.000	179.345	10389.999	82.398	0.000	75.829	-0.000	82.398	0.000	0.000	75.832	41.431	-1.327	OWSG MWD+IFR1+MS	
20505.053	90.000	179.337	10390.000	83.198	0.000	76.441	-0.000	83.198	0.000	0.000	76.444	41.527	-1.321	OWSG MWD+IFR1+MS	

Plan Targets		PLU 16 TWR 126H			
		Measured Depth	Grid Northing	Grid Easting	TVD MSL Target Shape
Target Name		(ft)	(ft)	(ft)	(ft)
PLU 16 TWR FTP 5		10574.32	440207.68	670892.67	6847.00 CIRCLE
PLU 16 TWR BHL 5		20505.05	430170.98	670948.97	6847.00 CIRCLE



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CACTUS WELLHEAD LLC			ALL DIMENSIONS APPROXIMATE		
			XTO ENERGY INC		
			ICARUS PAD		
20" x 9-5/8" x 7-5/8" x 5-1/2" MBU-T-CFL-R-DBLO Wellhead			DRAWN	DLE	18JAN21
With 11" 10M x 7-1/16" 15M CTH-DBLHPS Tubing Head			APPRV		
And 9-5/8", 7-5/8" & 5-1/2" Pin Bottom Mandrel Casing Hangers			DRAWING NO.	HBE0000479	

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<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 221725

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 221725
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Prior to the submission of this C-104, there was a C-103 NOI submitted for approval. The C-103 NOI was not approved or rejected; however, the work requested in the C-103 NOI was performed and completed without NMOCD approval. This action is currently under review from our legal department.	2/25/2025