

Well Name: POKER LAKE UNIT 29-20 BS	Well Location: T25S / R31E / SEC 29 / NENE /	County or Parish/State:
Well Number: 158H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMLC062140A	Unit or CA Name: POKER LAKE	Unit or CA Number: NMNM071016X
US Well Number: 3001549114	Well Status: Approved Application for Permit to Drill	Operator: XTO PERMIAN OPERATING LLC

Notice of Intent

Sundry ID: 2652923

Type of Submission: Notice of Intent

Date Sundry Submitted: 01/18/2022

Date proposed operation will begin: 02/01/2022

Type of Action: Other

Time Sundry Submitted: 07:46

Procedure Description: **Surface Location Move, 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 SHL fr/532'FNL & 695'FEL to 533'FNL & 205'FEL. Total SHL Move: 490' East, 1' North SHL change requested to optimize well pad layout, drilling efficiencies, and safety assurances. Change BHL fr/50'FNL & 330'FEL to 2609'FSL & 80'FWL, Section 17-25S-31E Casing/Cement design per the attached drilling program. Attachments: C102 Well Site Layout (Updated) Drilling Program Directional Plan

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

01.18.22_PLU_29_20BS_158H_NOI_Attachments_20220118074625.pdf

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Conditions of Approval

Additional Reviews

Conditions_of_Approval_20220119065258.pdf

Operator Certification

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 submission of Form 3160-5 or a Sundry Notice.

Operator Electronic Signature: STEPHANIE RABADUE	Signed on: JAN 18, 2022 07:46 AM
Name: XTO PERMIAN OPERATING LLC	
Title: Regulatory Coordinator	
Street Address: 500 W. Illinois St, Ste 100	
City: Midland	State: TX
Phone: (432) 620-6714	
Email address: STEPHANIE.RABADUE@EXXONMOBIL.COM	

Field Representative

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: 02/01/2022
Signature: Chris Walls	

Form 3160-5
(June 2019)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☐ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

3a. Address

3b. Phone No. (include area code)

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

7. If Unit of CA/Agreement, Name and/or No.

8. Well Name and No.

9. API Well No.

10. Field and Pool or Exploratory Area

11. Country or Parish, State

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION				
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off	
	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity	
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other	
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon		
☐ Final Abandonment Notice	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal		

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

Title

Signature

Date

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

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.

(Instructions on page 2)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Additional Information

Additional Remarks

C102
Well Site Layout (Updated)
Drilling Program
Directional Plan

Location of Well

0. SHL: NENE / 532 FNL / 695 FEL / TWSP: 25S / RANGE: 31E / SECTION: 29 / LAT: 32.107105 / LONG: -103.793951 (TVD: 0 feet, MD: 0 feet)
PPP: NESE / 2310 FNL / 330 FEL / TWSP: 25S / RANGE: 31E / SECTION: 20 / LAT: 32.110387 / LONG: -103.798103 (TVD: 12520 feet, MD: 17094 feet)
PPP: NESE / 2310 FNL / 330 FEL / TWSP: 25S / RANGE: 31E / SECTION: 20 / LAT: 32.1022 / LONG: -103.792795 (TVD: 12520 feet, MD: 13134 feet)
BHL: NENE / 50 FNL / 330 FEL / TWSP: 25S / RANGE: 31E / SECTION: 20 / LAT: 32.12299 / LONG: -103.792655 (TVD: 12520 feet, MD: 20690 feet)

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

XTO Energy Inc.
PLU 29-20 BS 158H
Projected TD: 23504' MD / 11770' TVD
SHL: 533' FNL & 205' FEL , Section 29, T25S, R31E
BHL: 2609' FSL & 80' FWL , Section 18, T25S, 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	898'	Water
Top of Salt	1227'	Water
Base of Salt	3988'	Water
Delaware	4198'	Water
Brushy Canyon	6868'	Water/Oil/Gas
Bone Spring	8123'	Water
1st Bone Spring Ss	9123'	Water/Oil/Gas
2nd Bone Spring Ss	9888'	Water/Oil/Gas
3rd Bone Spring Ss	11063'	Water/Oil/Gas
Wolfcamp	11478'	Water/Oil/Gas
Wolfcamp X	11513'	Water/Oil/Gas
Wolfcamp Y	11668'	Water/Oil/Gas
Wolfcamp A	11698'	Water/Oil/Gas
Target/Land Curve	11808'	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 @ 998' (229' 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 11213' and cemented to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 23504 MD/TD and 5.5 x 5.5 inch production casing will be set at TD and cemented back up to 2nd intermediate (estimated TOC 10913 feet).

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0' – 998'	9.625	40	J-55	BTC	New	1.24	5.69	15.78
8.75	0' – 4000'	7.625	29.7	RY P-110	Flush Joint	New	2.13	2.65	1.68
8.75	4000' – 11213'	7.625	29.7	HC L-80	Flush Joint	New	1.55	1.79	1.90
6.75	0' – 11113'	5.5	23	RY P-110	Semi-Premium	New	1.21	2.19	1.94
6.75	11113' - 11800'	5.5	23	RY P-110	Semi-Flush	New	1.21	2.06	5.01
6.75	11800' - 23504'	5.5	23	RY P-110	Semi-Flush	New	1.21	2.07	5.77

- 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" SOW 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 +/- 998'

Lead: 230 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 +/- 11213'

1st Stage

Optional Lead: 370 sxs Class C (mixed at 10.5 ppg, 2.77 ft³/sx, 15.59 gal/sx water)

TOC: Surface

Tail: 400 sxs Class C (mixed at 14.8 ppg, 1.35 ft³/sx, 6.39 gal/sx water)

TOC: Brushy Canyon @ 6868

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: 770 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 (6868') and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If cement is not visually confirmed to circulate to surface, the final cement top after the second stage job will be verified by Echo-meter. If necessary, a top out consisting of 1,500 sack of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. If cement is still unable to circulate to surface, another Echo-meter run will be performed for cement top verification.

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

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

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

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

Production Casing: 5.5, 23 New Semi-Flush, RY P-110 casing to be set at +/- 23504'

Lead: 20 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft³/sx, 15.00 gal/sx water) Top of Cement: 10913 feet

Tail: 860 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft³/sx, 8.38 gal/sx water) Top of Cement: 11413 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 4449 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' - 998'	12.25	FW/Native	8.7-9.2	35-40	NC
998' - 11213'	8.75	FW / Cut Brine / Direct Emulsion	9.7-10.2	30-32	NC
11213' - 23504'	6.75	OBM	11.5-12	50-60	NC - 20

The necessary mud products for weight addition and fluid loss control will be on location at all times.

Spud with fresh water/native mud. Drill out from under 9-5/8" surface casing with brine solution. A 9.7 ppg - 10.2 ppg cut brine mud will be used while drilling through the salt formation. Use fibrous materials as needed to control seepage and lost circulation. Pump viscous sweeps as needed for hole cleaning. Pump speed will be recorded on a daily drilling report after mudding up. A Pason or Totco will be used to detect changes in loss or gain of mud volume. A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system.

7. Auxiliary Well Control and Monitoring Equipment

- A. A Kelly cock will be in the drill string at all times.
- B. A full opening drill pipe stabbing valve having appropriate connections will be on the rig floor at all times.
- C. H2S monitors will be on location when drilling below the 9.625 casing.

8. Logging, Coring and Testing Program

Mud Logger: Mud Logging Unit (2 man) below intermediate casing.

Open hole logging will not be done on this well.

9. Abnormal Pressures and Temperatures / Potential Hazards

None Anticipated. BHT of 180 to 200 F is anticipated. No H2S is expected but monitors will be in place to detect any H2S occurrences. Should these circumstances be encountered the operator and drilling contractor are prepared to take all necessary steps to ensure safety of all personnel and environment. Lost circulation could occur but is not expected to be a serious problem in this area and hole seepage will be compensated for by additions of small amounts of LCM in the drilling fluid. The maximum anticipated bottom hole pressure for this well is 7038 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.

SECTION 20

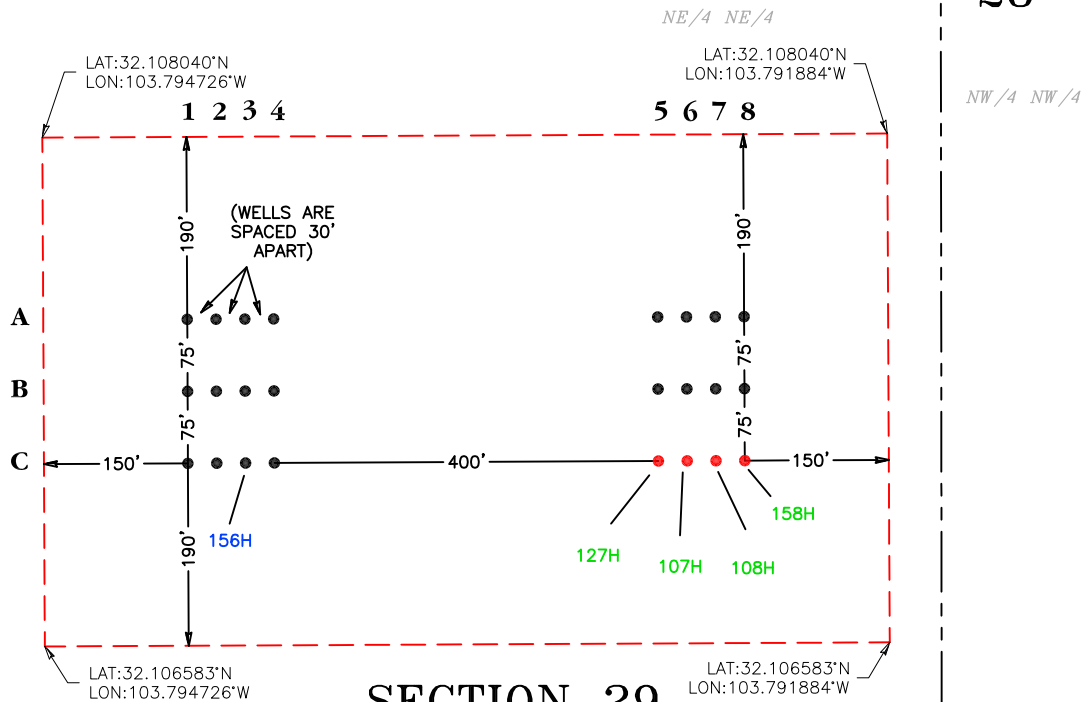
TOWNSHIP 25 SOUTH, RANGE 31 EAST

NEW MEXICO PRIME MERIDIAN

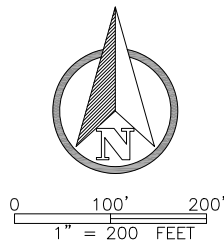
OWNER: U.S.A.

SE/4 SE/4

SW/4 SW/4

21**28****LEGEND**

- ORIGINAL SLOT AND/OR TBD WELL
- STAKED WELL

**XTO PERMIAN
OPERATION, LLC.**

WELL SITE PLAN
POKER LAKE UNIT 29-20 BS
PAD D



550 Bailey Ave., 205 - Fort Worth, TX 76107
 Ph: 817.349.9800 - Fax: 979.732.5271
 TBPE Firm 17957 | TBPLS Firm 10193887
 www.fscinc.net

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DATE:	9-30-2021	PROJECT NO:	2017040533
DRAWN BY:	AI	SCALE:	1" = 200'
CHECKED BY:	AR	SHEET:	1 OF 1
FIELD CREW:	RE	REVISION:	1

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

PRE-COMPLETION

¹ API Number 30-015-49114	² Pool Code 98220	³ Pool Name Purple Sage; Wolfcamp (Gas)
⁴ Property Code	⁵ Property Name POKER LAKE UNIT 29-20 BS	⁶ Well Number 158H
⁷ OGRID No. 373075	⁸ Operator Name XTO PERMIAN OPERATING, LLC.	⁹ Elevation 3,356'

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
A	29	25 S	31 E		533	NORTH	205	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
L	17	25 S	31 E		2,609	SOUTH	80	WEST	EDDY

¹² Dedicated Acres 6.40	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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. NOTE: DATA FURNISHED BY XTO ENERGY

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. Signature: <u>Stephanie Rabadue</u> Date: <u>11/01/2021</u> Printed Name: <u>Stephanie Rabadue</u> E-mail Address: <u>stephanie.rabadue@exxonmobil.com</u>
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. Date of Survey: <u>10-26-2021</u> Signature and Seal of Professional Surveyor: Certificate Number: <u>MARK DILLON HARP 23786</u> LM 2019082899		

Well Plan Report - PLU 29-20 BS 158H

Measured Depth:	23504.00 ft	Site:	PLU 29-20 Big Sinks
TVD RKB:	11770.00 ft		Pad D
Location		Slot:	24
Cartographic Reference System:	New Mexico East - NAD 27		
Northing:	403060.00 ft		
Easting:	667648.60 ft		
RKB:	3370.00 ft		
Ground Level:	3340.00 ft		
North Reference:	Grid		
Convergence Angle:	0.29 Deg		

Plan Sections PLU 29-20 BS 158H									
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	
1500.00	0.00	0.00	1500.00	0.00	0.00	0.00	0.00	0.00	
2683.41	23.67	154.06	2650.04	-216.69	105.41	2.00	0.00	2.00	
6177.21	23.67	154.06	5849.96	-1477.92	718.96	0.00	0.00	0.00	
7360.62	0.00	0.00	7000.00	-1694.62	824.37	-2.00	0.00	2.00	
11413.62	0.00	0.00	11053.00	-1694.62	824.37	0.00	0.00	0.00	Slant KOP 10
12527.48	90.00	330.00	11762.11	-1080.51	469.82	8.08	0.00	8.08	Slant FTP 10
23404.97	90.00	330.00	11770.00	8339.67	-4968.93	0.00	0.00	0.00	Slant LTP 10
23504.97	90.00	330.00	11770.00	8426.27	-5018.93	0.00	0.00	0.00	Slant BHL 10

Position Uncertainty PLU 29-20 BS 158H														
Measured			TVD Highside		Lateral		Vertical		Magnitude		Semi-major	Semi-minor	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	2.297	0.000	0.000	0.000	0.000	0.000	MWD+IFR1+MS
100.000	0.000	0.000	100.000	0.468	0.000	0.468	0.000	2.299	0.000	0.000	0.556	0.358	135.000	MWD+IFR1+MS
200.000	0.000	0.000	200.000	0.983	0.000	0.983	0.000	2.307	0.000	0.000	1.191	0.717	135.000	MWD+IFR1+MS
300.000	0.000	0.000	300.000	1.403	0.000	1.403	0.000	2.321	0.000	0.000	1.668	1.075	135.000	MWD+IFR1+MS
400.000	0.000	0.000	400.000	1.797	0.000	1.797	0.000	2.340	0.000	0.000	2.099	1.434	135.000	MWD+IFR1+MS
500.000	0.000	0.000	500.000	2.179	0.000	2.179	0.000	2.364	0.000	0.000	2.507	1.792	135.000	MWD+IFR1+MS
600.000	0.000	0.000	600.000	2.554	0.000	2.554	0.000	2.393	0.000	0.000	2.902	2.151	135.000	MWD+IFR1+MS
700.000	0.000	0.000	700.000	2.925	0.000	2.925	0.000	2.428	0.000	0.000	3.288	2.509	135.000	MWD+IFR1+MS
800.000	0.000	0.000	800.000	3.292	0.000	3.292	0.000	2.467	0.000	0.000	3.669	2.867	135.000	MWD+IFR1+MS
900.000	0.000	0.000	900.000	3.659	0.000	3.659	0.000	2.511	0.000	0.000	4.046	3.226	135.000	MWD+IFR1+MS
1000.000	0.000	0.000	1000.000	4.024	0.000	4.024	0.000	2.559	0.000	0.000	4.420	3.584	135.000	MWD+IFR1+MS
1100.000	0.000	0.000	1100.000	4.387	0.000	4.387	0.000	2.613	0.000	0.000	4.791	3.943	135.000	MWD+IFR1+MS
1200.000	0.000	0.000	1200.000	4.751	0.000	4.751	0.000	2.670	0.000	0.000	5.161	4.302	135.000	MWD+IFR1+MS
1300.000	0.000	0.000	1300.000	5.113	0.000	5.113	0.000	2.731	0.000	0.000	5.529	4.660	135.000	MWD+IFR1+MS
1400.000	0.000	0.000	1400.000	5.474	0.000	5.474	0.000	2.797	0.000	0.000	5.896	5.018	135.000	MWD+IFR1+MS
1500.000	0.000	0.000	1500.000	5.836	0.000	5.836	0.000	2.866	0.000	0.000	6.262	5.377	135.000	MWD+IFR1+MS

1600.000	1.999	154.000	1599.980	5.900	0.000	6.474	-0.000	2.939	0.000	0.000	6.562	5.805	133.531	MWD+IFR1+MS
1700.000	4.000	154.000	1699.838	6.631	0.000	6.792	-0.000	3.015	0.000	0.000	7.050	6.367	115.325	MWD+IFR1+MS
1800.000	6.000	154.000	1799.452	7.299	0.000	7.113	-0.000	3.098	0.000	0.000	7.627	6.786	101.752	MWD+IFR1+MS
1900.000	7.999	154.000	1898.702	7.918	0.000	7.438	-0.000	3.187	0.000	0.000	8.224	7.144	94.524	MWD+IFR1+MS
2000.000	10.000	154.000	1997.465	8.497	0.000	7.765	-0.000	3.288	0.000	0.000	8.809	7.482	90.559	MWD+IFR1+MS
2100.000	11.990	154.000	2095.623	9.044	0.000	8.096	-0.000	3.399	0.000	0.000	9.374	7.814	88.159	MWD+IFR1+MS
2200.000	14.000	154.000	2193.055	9.562	0.000	8.429	-0.000	3.524	0.000	0.000	9.920	8.144	86.595	MWD+IFR1+MS
2300.000	15.990	154.000	2289.643	10.054	0.000	8.766	-0.000	3.662	0.000	0.000	10.446	8.475	85.511	MWD+IFR1+MS
2400.000	18.000	154.000	2385.268	10.526	0.000	9.106	-0.000	3.817	0.000	0.000	10.957	8.809	84.739	MWD+IFR1+MS
2500.000	19.990	154.000	2479.816	10.979	0.000	9.450	-0.000	3.987	0.000	0.000	11.454	9.146	84.182	MWD+IFR1+MS
2600.000	22.000	154.000	2573.169	11.413	0.000	9.797	-0.000	4.176	0.000	0.000	11.934	9.485	83.769	MWD+IFR1+MS
2683.400	23.660	154.000	2650.041	11.706	0.000	10.085	-0.000	4.323	0.000	0.000	12.275	9.773	83.593	MWD+IFR1+MS
2700.000	23.660	154.000	2665.234	11.756	0.000	10.141	-0.000	4.338	0.000	0.000	12.324	9.830	83.596	MWD+IFR1+MS
2800.000	23.660	154.000	2756.823	12.055	0.000	10.483	-0.000	4.474	0.000	0.000	12.599	10.176	83.812	MWD+IFR1+MS
2900.000	23.660	154.000	2848.411	12.375	0.000	10.846	-0.000	4.623	0.000	0.000	12.898	10.537	84.211	MWD+IFR1+MS
3000.000	23.660	154.000	2940.000	12.703	0.000	11.215	-0.000	4.777	0.000	0.000	13.202	10.905	84.600	MWD+IFR1+MS
3100.000	23.660	154.000	3031.588	13.038	0.000	11.581	-0.000	4.938	0.000	0.000	13.514	11.268	85.005	MWD+IFR1+MS
3200.000	23.660	154.000	3123.177	13.380	0.000	11.956	-0.000	5.103	0.000	0.000	13.830	11.642	85.391	MWD+IFR1+MS
3300.000	23.660	154.000	3214.765	13.730	0.000	12.333	-0.000	5.274	0.000	0.000	14.153	12.017	85.783	MWD+IFR1+MS
3400.000	23.660	154.000	3306.354	14.087	0.000	12.714	-0.000	5.451	0.000	0.000	14.483	12.396	86.173	MWD+IFR1+MS
3500.000	23.660	154.000	3397.942	14.448	0.000	13.095	-0.000	5.631	0.000	0.000	14.816	12.775	86.559	MWD+IFR1+MS
3600.000	23.660	154.000	3489.531	14.812	0.000	13.477	-0.000	5.816	0.000	0.000	15.151	13.154	86.943	MWD+IFR1+MS
3700.000	23.660	154.000	3581.119	15.185	0.000	13.866	-0.000	6.005	0.000	0.000	15.496	13.542	87.323	MWD+IFR1+MS
3800.000	23.660	154.000	3672.708	15.561	0.000	14.253	-0.000	6.198	0.000	0.000	15.843	13.925	87.704	MWD+IFR1+MS
3900.000	23.660	154.000	3764.296	15.940	0.000	14.644	-0.000	6.394	0.000	0.000	16.192	14.316	88.072	MWD+IFR1+MS
4000.000	23.660	154.000	3855.885	16.327	0.000	15.037	-0.000	6.593	0.000	0.000	16.548	14.706	88.444	MWD+IFR1+MS
4100.000	23.660	154.000	3947.473	16.713	0.000	15.429	-0.000	6.796	0.000	0.000	16.903	15.096	88.809	MWD+IFR1+MS
4200.000	23.660	154.000	4039.062	17.105	0.000	15.825	-0.000	7.001	0.000	0.000	17.266	15.488	89.170	MWD+IFR1+MS
4300.000	23.660	154.000	4130.650	17.500	0.000	16.222	-0.000	7.210	0.000	0.000	17.630	15.884	89.525	MWD+IFR1+MS
4400.000	23.660	154.000	4222.239	17.898	0.000	16.620	-0.000	7.420	0.000	0.000	17.997	16.279	89.876	MWD+IFR1+MS
4500.000	23.660	154.000	4313.828	18.298	0.000	17.019	-0.000	7.634	0.000	0.000	18.366	16.676	90.221	MWD+IFR1+MS
4600.000	23.660	154.000	4405.416	18.701	0.000	17.419	-0.000	7.850	0.000	0.000	18.738	17.073	90.560	MWD+IFR1+MS
4700.000	23.660	154.000	4497.005	19.108	0.000	17.820	-0.000	8.068	0.000	0.000	19.113	17.472	90.893	MWD+IFR1+MS
4800.000	23.660	154.000	4588.593	19.515	0.000	18.221	-0.000	8.289	0.000	0.000	19.489	17.871	91.220	MWD+IFR1+MS
4900.000	23.660	154.000	4680.182	19.926	0.000	18.625	-0.000	8.512	0.000	0.000	19.868	18.272	91.540	MWD+IFR1+MS
5000.000	23.660	154.000	4771.770	20.337	0.000	19.029	-0.000	8.737	0.000	0.000	20.248	18.674	91.858	MWD+IFR1+MS
5100.000	23.660	154.000	4863.359	20.751	0.000	19.433	-0.000	8.965	0.000	0.000	20.630	19.076	92.166	MWD+IFR1+MS
5200.000	23.660	154.000	4954.947	21.167	0.000	19.839	-0.000	9.195	0.000	0.000	21.015	19.480	92.467	MWD+IFR1+MS
5300.000	23.660	154.000	5046.536	21.585	0.000	20.245	-0.000	9.427	0.000	0.000	21.402	19.884	92.758	MWD+IFR1+MS
5400.000	23.660	154.000	5138.124	22.003	0.000	20.652	-0.000	9.660	0.000	0.000	21.789	20.288	93.046	MWD+IFR1+MS
5500.000	23.660	154.000	5229.713	22.423	0.000	21.058	-0.000	9.895	0.000	0.000	22.177	20.693	93.327	MWD+IFR1+MS
5600.000	23.660	154.000	5321.301	22.845	0.000	21.466	-0.000	10.129	0.000	0.000	22.569	21.099	93.596	MWD+IFR1+MS
5700.000	23.660	154.000	5412.890	23.269	0.000	21.874	-0.000	10.368	0.000	0.000	22.961	21.504	93.857	MWD+IFR1+MS
5800.000	23.660	154.000	5504.478	23.694	0.000	22.283	-0.000	10.611	0.000	0.000	23.355	21.910	94.111	MWD+IFR1+MS
5900.000	23.660	154.000	5596.067	24.119	0.000	22.692	-0.000	10.854	0.000	0.000	23.748	22.319	94.363	MWD+IFR1+MS
6000.000	23.660	154.000	5687.655	24.546	0.000	23.102	-0.000	11.100	0.000	0.000	24.144	22.726	94.602	MWD+IFR1+MS
6100.000	23.660	154.000	5779.244	24.975	0.000	23.513	-0.000	11.349	0.000	0.000	24.541	23.135	94.834	MWD+IFR1+MS
6177.200	23.660	154.000	5849.959	25.302	0.000	23.827	-0.000	11.537	0.000	0.000	24.844	23.450	94.962	MWD+IFR1+MS
6200.000	23.210	154.000	5870.869	25.419	0.000	23.919	-0.000	11.593	0.000	0.000	24.932	23.543	94.981	MWD+IFR1+MS
6300.000	21.210	154.000	5963.443	25.944	0.000	24.320	-0.000	11.849	0.000	0.000	25.351	23.949	94.626	MWD+IFR1+MS
6400.000	19.210	154.000	6057.280	26.494	0.000	24.721	-0.000	12.116	0.000	0.000	25.822	24.354	93.636	MWD+IFR1+MS
6500.000	17.210	154.000	6152.265	27.004	0.000	25.115	-0.000	12.365	0.000	0.000	26.290	24.751	92.701	MWD+IFR1+MS
6600.000	15.210	154.000	6248.284	27.470	0.000	25.501	-0.000	12.602	0.000	0.000	26.750	25.142	91.836	MWD+IFR1+MS

6700.000	13.210	154.000	6345.218	27.895	0.000	25.880	-0.000	12.826	0.000	0.000	27.205	25.524	91.041	MWD+IFR1+MS
6800.000	11.210	154.000	6442.950	28.275	0.000	26.251	-0.000	13.042	0.000	0.000	27.650	25.898	90.321	MWD+IFR1+MS
6900.000	9.212	154.000	6541.361	28.614	0.000	26.614	-0.000	13.248	0.000	0.000	28.086	26.262	89.675	MWD+IFR1+MS
7000.000	7.212	154.000	6640.330	28.909	0.000	26.967	-0.000	13.442	0.000	0.000	28.512	26.615	89.104	MWD+IFR1+MS
7100.000	5.212	154.000	6739.738	29.161	0.000	27.311	-0.000	13.635	0.000	0.000	28.927	26.960	88.607	MWD+IFR1+MS
7200.000	3.212	154.000	6839.463	29.370	0.000	27.648	-0.000	13.820	0.000	0.000	29.329	27.296	88.178	MWD+IFR1+MS
7300.000	1.212	154.000	6939.383	29.537	0.000	27.974	-0.000	14.000	0.000	0.000	29.720	27.621	87.817	MWD+IFR1+MS
7360.600	0.000	0.000	7000.000	29.888	0.000	27.812	0.000	14.107	0.000	0.000	29.891	27.809	87.860	MWD+IFR1+MS
7400.000	0.000	0.000	7039.379	29.995	0.000	27.928	0.000	14.177	0.000	0.000	29.998	27.926	87.935	MWD+IFR1+MS
7500.000	0.000	0.000	7139.379	30.267	0.000	28.231	0.000	14.356	0.000	0.000	30.269	28.229	88.158	MWD+IFR1+MS
7600.000	0.000	0.000	7239.379	30.543	0.000	28.539	0.000	14.543	0.000	0.000	30.545	28.538	88.471	MWD+IFR1+MS
7700.000	0.000	0.000	7339.379	30.822	0.000	28.848	0.000	14.728	0.000	0.000	30.823	28.847	88.790	MWD+IFR1+MS
7800.000	0.000	0.000	7439.379	31.101	0.000	29.156	0.000	14.920	0.000	0.000	31.102	29.156	89.112	MWD+IFR1+MS
7900.000	0.000	0.000	7539.379	31.383	0.000	29.467	0.000	15.116	0.000	0.000	31.383	29.467	89.438	MWD+IFR1+MS
8000.000	0.000	0.000	7639.379	31.654	0.000	29.779	0.000	15.313	0.000	0.000	31.654	29.779	89.766	MWD+IFR1+MS
8100.000	0.000	0.000	7739.379	31.937	0.000	30.092	0.000	15.515	0.000	0.000	31.937	30.092	90.101	MWD+IFR1+MS
8200.000	0.000	0.000	7839.379	32.234	0.000	30.406	0.000	15.723	0.000	0.000	32.234	30.405	90.438	MWD+IFR1+MS
8300.000	0.000	0.000	7939.379	32.512	0.000	30.720	0.000	15.931	0.000	0.000	32.512	30.719	90.783	MWD+IFR1+MS
8400.000	0.000	0.000	8039.379	32.802	0.000	31.035	0.000	16.143	0.000	0.000	32.803	31.035	91.128	MWD+IFR1+MS
8500.000	0.000	0.000	8139.379	33.091	0.000	31.353	0.000	16.362	0.000	0.000	33.092	31.352	91.479	MWD+IFR1+MS
8600.000	0.000	0.000	8239.379	33.392	0.000	31.670	0.000	16.583	0.000	0.000	33.393	31.668	91.822	MWD+IFR1+MS
8700.000	0.000	0.000	8339.379	33.675	0.000	31.984	0.000	16.805	0.000	0.000	33.677	31.982	92.184	MWD+IFR1+MS
8800.000	0.000	0.000	8439.379	33.971	0.000	32.296	0.000	17.035	0.000	0.000	33.974	32.292	92.529	MWD+IFR1+MS
8900.000	0.000	0.000	8539.379	34.278	0.000	32.619	0.000	17.266	0.000	0.000	34.282	32.615	92.874	MWD+IFR1+MS
9000.000	0.000	0.000	8639.379	34.569	0.000	32.939	0.000	17.501	0.000	0.000	34.574	32.934	93.246	MWD+IFR1+MS
9100.000	0.000	0.000	8739.379	34.871	0.000	33.257	0.000	17.740	0.000	0.000	34.877	33.250	93.592	MWD+IFR1+MS
9200.000	0.000	0.000	8839.379	35.171	0.000	33.586	0.000	17.981	0.000	0.000	35.179	33.578	93.972	MWD+IFR1+MS
9300.000	0.000	0.000	8939.379	35.468	0.000	33.912	0.000	18.226	0.000	0.000	35.477	33.902	94.358	MWD+IFR1+MS
9400.000	0.000	0.000	9039.379	35.763	0.000	34.234	0.000	18.477	0.000	0.000	35.774	34.224	94.749	MWD+IFR1+MS
9500.000	0.000	0.000	9139.379	36.069	0.000	34.554	0.000	18.730	0.000	0.000	36.081	34.542	95.099	MWD+IFR1+MS
9600.000	0.000	0.000	9239.379	36.373	0.000	34.886	0.000	18.987	0.000	0.000	36.387	34.871	95.494	MWD+IFR1+MS
9700.000	0.000	0.000	9339.379	36.674	0.000	35.214	0.000	19.248	0.000	0.000	36.690	35.198	95.896	MWD+IFR1+MS
9800.000	0.000	0.000	9439.379	36.986	0.000	35.539	0.000	19.512	0.000	0.000	37.004	35.521	96.251	MWD+IFR1+MS
9900.000	0.000	0.000	9539.379	37.283	0.000	35.861	0.000	19.779	0.000	0.000	37.302	35.841	96.659	MWD+IFR1+MS
10000.000	0.000	0.000	9639.379	37.590	0.000	36.194	0.000	20.050	0.000	0.000	37.611	36.172	97.073	MWD+IFR1+MS
10100.000	0.000	0.000	9739.379	37.908	0.000	36.524	0.000	20.325	0.000	0.000	37.931	36.500	97.428	MWD+IFR1+MS
10200.000	0.000	0.000	9839.379	38.210	0.000	36.851	0.000	20.603	0.000	0.000	38.236	36.824	97.847	MWD+IFR1+MS
10300.000	0.000	0.000	9939.379	38.523	0.000	37.175	0.000	20.883	0.000	0.000	38.551	37.146	98.195	MWD+IFR1+MS
10400.000	0.000	0.000	10039.379	38.833	0.000	37.510	0.000	21.168	0.000	0.000	38.864	37.478	98.625	MWD+IFR1+MS
10500.000	0.000	0.000	10139.379	39.141	0.000	37.842	0.000	21.457	0.000	0.000	39.174	37.807	99.054	MWD+IFR1+MS
10600.000	0.000	0.000	10239.379	39.459	0.000	38.171	0.000	21.749	0.000	0.000	39.495	38.134	99.399	MWD+IFR1+MS
10700.000	0.000	0.000	10339.379	39.762	0.000	38.497	0.000	22.045	0.000	0.000	39.800	38.457	99.833	MWD+IFR1+MS
10800.000	0.000	0.000	10439.379	40.087	0.000	38.833	0.000	22.345	0.000	0.000	40.129	38.790	100.180	MWD+IFR1+MS
10900.000	0.000	0.000	10539.379	40.398	0.000	39.166	0.000	22.647	0.000	0.000	40.442	39.121	100.617	MWD+IFR1+MS
11000.000	0.000	0.000	10639.379	40.706	0.000	39.497	0.000	22.952	0.000	0.000	40.754	39.448	101.058	MWD+IFR1+MS
11100.000	0.000	0.000	10739.379	41.024	0.000	39.825	0.000	23.264	0.000	0.000	41.074	39.773	101.401	MWD+IFR1+MS
11200.000	0.000	0.000	10839.379	41.340	0.000	40.162	0.000	23.575	0.000	0.000	41.393	40.107	101.845	MWD+IFR1+MS
11300.000	0.000	0.000	10939.379	41.665	0.000	40.497	0.000	23.891	0.000	0.000	41.722	40.439	102.178	MWD+IFR1+MS
11400.000	0.000	0.000	11039.379	41.976	0.000	40.829	0.000	24.212	0.000	0.000	42.036	40.767	102.629	MWD+IFR1+MS
11413.000	0.000	0.000	11053.000	42.024	0.000	40.878	0.000	24.255	0.000	0.000	42.084	40.816	102.648	MWD+IFR1+MS
11500.000	6.979	330.000	11139.165	40.947	0.000	41.677	0.000	24.534	0.000	0.000	42.428	41.144	99.884	MWD+IFR1+MS
11600.000	15.050	330.000	11237.240	40.571	0.000	41.971	0.000	24.900	0.000	0.000	43.355	41.633	86.046	MWD+IFR1+MS
11700.000	23.130	330.000	11331.657	39.863	0.000	42.219	0.000	25.379	0.000	0.000	44.361	41.966	78.747	MWD+IFR1+MS

11800.000	31.210	330.000	11420.542	38.809	0.000	42.447	0.000	26.012	0.000	0.000	45.254	42.227	75.374	MWD+IFR1+MS
11900.000	39.290	330.000	11502.129	37.522	0.000	42.634	0.000	26.827	0.000	0.000	45.977	42.428	73.652	MWD+IFR1+MS
12000.000	47.370	330.000	11574.798	36.171	0.000	42.782	0.000	27.833	0.000	0.000	46.528	42.581	72.768	MWD+IFR1+MS
12100.000	55.450	330.000	11637.108	34.943	0.000	42.882	0.000	29.017	0.000	0.000	46.911	42.677	72.405	MWD+IFR1+MS
12200.000	63.530	330.000	11687.821	34.040	0.000	42.954	0.000	30.350	0.000	0.000	47.146	42.746	72.255	MWD+IFR1+MS
12300.000	71.610	330.000	11725.930	33.640	0.000	42.977	0.000	31.780	0.000	0.000	47.259	42.762	72.307	MWD+IFR1+MS
12400.000	79.690	330.000	11750.678	33.882	0.000	42.969	0.000	33.272	0.000	0.000	47.291	42.749	72.378	MWD+IFR1+MS
12500.000	87.770	330.000	11761.574	34.822	0.000	42.924	0.000	34.785	0.000	0.000	47.294	42.700	72.425	MWD+IFR1+MS
12527.000	90.000	330.000	11762.106	34.886	0.000	42.896	0.000	34.886	0.000	0.000	47.286	42.673	72.385	MWD+IFR1+MS
12600.000	90.000	330.000	11762.106	35.057	0.000	42.840	0.000	35.057	0.000	0.000	47.284	42.617	72.303	MWD+IFR1+MS
12700.000	90.000	330.000	11762.106	35.299	0.000	42.782	0.000	35.299	0.000	0.000	47.283	42.560	72.200	MWD+IFR1+MS
12800.000	90.000	330.000	11762.106	35.567	0.000	42.729	0.000	35.567	0.000	0.000	47.278	42.506	72.153	MWD+IFR1+MS
12900.000	90.000	330.000	11762.106	35.847	0.000	42.697	0.000	35.847	0.000	0.000	47.274	42.476	72.073	MWD+IFR1+MS
13000.000	90.000	330.000	11762.106	36.139	0.000	42.671	0.000	36.139	0.000	0.000	47.277	42.449	72.065	MWD+IFR1+MS
13100.000	90.000	330.000	11762.106	36.442	0.000	42.651	0.000	36.442	0.000	0.000	47.276	42.426	72.110	MWD+IFR1+MS
13200.000	90.000	330.000	11762.106	36.756	0.000	42.652	0.000	36.756	0.000	0.000	47.276	42.426	72.121	MWD+IFR1+MS
13300.000	90.000	330.000	11762.106	37.094	0.000	42.659	0.000	37.094	0.000	0.000	47.283	42.430	72.202	MWD+IFR1+MS
13400.000	90.000	330.000	11762.106	37.443	0.000	42.680	0.000	37.443	0.000	0.000	47.288	42.448	72.299	MWD+IFR1+MS
13500.000	90.000	330.000	11762.106	37.802	0.000	42.713	0.000	37.802	0.000	0.000	47.292	42.480	72.401	MWD+IFR1+MS
13600.000	90.000	330.000	11762.106	38.171	0.000	42.763	0.000	38.171	0.000	0.000	47.303	42.525	72.548	MWD+IFR1+MS
13700.000	90.000	330.000	11762.106	38.562	0.000	42.815	0.000	38.562	0.000	0.000	47.313	42.573	72.730	MWD+IFR1+MS
13800.000	90.000	330.000	11762.106	38.962	0.000	42.881	0.000	38.962	0.000	0.000	47.321	42.634	72.933	MWD+IFR1+MS
13900.000	90.000	330.000	11762.106	39.370	0.000	42.963	0.000	39.370	0.000	0.000	47.338	42.710	73.185	MWD+IFR1+MS
14000.000	90.000	330.000	11762.106	39.787	0.000	43.057	0.000	39.787	0.000	0.000	47.353	42.798	73.453	MWD+IFR1+MS
14100.000	90.000	330.000	11762.106	40.224	0.000	43.163	0.000	40.224	0.000	0.000	47.367	42.899	73.726	MWD+IFR1+MS
14200.000	90.000	330.000	11762.106	40.657	0.000	43.276	0.000	40.657	0.000	0.000	47.389	43.003	74.109	MWD+IFR1+MS
14300.000	90.000	330.000	11762.106	41.110	0.000	43.399	0.000	41.110	0.000	0.000	47.400	43.119	74.475	MWD+IFR1+MS
14400.000	90.000	330.000	11762.106	41.569	0.000	43.539	0.000	41.569	0.000	0.000	47.429	43.249	74.952	MWD+IFR1+MS
14500.000	90.000	330.000	11762.106	42.048	0.000	43.689	0.000	42.048	0.000	0.000	47.448	43.390	75.428	MWD+IFR1+MS
14600.000	90.000	330.000	11762.106	42.532	0.000	43.846	0.000	42.532	0.000	0.000	47.475	43.533	76.028	MWD+IFR1+MS
14700.000	90.000	330.000	11762.106	43.023	0.000	44.022	0.000	43.023	0.000	0.000	47.503	43.698	76.644	MWD+IFR1+MS
14800.000	90.000	330.000	11762.106	43.520	0.000	44.205	0.000	43.520	0.000	0.000	47.539	43.864	77.402	MWD+IFR1+MS
14900.000	90.000	330.000	11762.106	44.023	0.000	44.396	0.000	44.023	0.000	0.000	47.566	44.040	78.206	MWD+IFR1+MS
15000.000	90.000	330.000	11762.106	44.542	0.000	44.597	0.000	44.542	0.000	0.000	47.612	44.216	79.214	MWD+IFR1+MS
15100.000	90.000	330.000	11762.106	45.056	0.000	44.814	0.000	45.056	0.000	0.000	47.650	44.413	80.272	MWD+IFR1+MS
15200.000	90.000	330.000	11762.106	45.596	0.000	45.036	0.000	45.596	0.000	0.000	47.699	44.607	81.537	MWD+IFR1+MS
15300.000	90.000	330.000	11762.106	46.130	0.000	45.270	0.000	46.130	0.000	0.000	47.750	44.810	82.972	MWD+IFR1+MS
15400.000	90.000	330.000	11762.106	46.669	0.000	45.515	0.000	46.669	0.000	0.000	47.805	45.019	84.617	MWD+IFR1+MS
15500.000	90.000	330.000	11762.106	47.223	0.000	45.765	0.000	47.223	0.000	0.000	47.874	45.223	86.544	MWD+IFR1+MS
15600.000	90.000	330.000	11762.106	47.781	0.000	46.033	0.000	47.781	0.000	0.000	47.949	45.441	88.738	MWD+IFR1+MS
15700.000	90.000	330.000	11762.106	48.343	0.000	46.304	0.000	48.343	0.000	0.000	48.032	45.650	91.268	MWD+IFR1+MS
15800.000	90.000	330.000	11762.106	48.918	0.000	46.587	0.000	48.918	0.000	0.000	48.136	45.857	94.144	MWD+IFR1+MS
15900.000	90.000	330.000	11762.106	49.497	0.000	46.873	0.000	49.497	0.000	0.000	48.253	46.050	97.343	MWD+IFR1+MS
16000.000	90.000	330.000	11762.106	50.070	0.000	47.179	0.000	50.070	0.000	0.000	48.396	46.247	100.859	MWD+IFR1+MS
16100.000	90.000	330.000	11762.106	50.666	0.000	47.484	0.000	50.666	0.000	0.000	48.548	46.423	104.642	MWD+IFR1+MS
16200.000	90.000	330.000	11762.106	51.254	0.000	47.801	0.000	51.254	0.000	0.000	48.730	46.588	108.508	MWD+IFR1+MS
16300.000	90.000	330.000	11762.106	51.856	0.000	48.128	0.000	51.856	0.000	0.000	48.933	46.739	112.394	MWD+IFR1+MS
16400.000	90.000	330.000	11762.106	52.450	0.000	48.466	0.000	52.450	0.000	0.000	49.168	46.877	116.076	MWD+IFR1+MS
16500.000	90.000	330.000	11762.106	53.066	0.000	48.805	0.000	53.066	0.000	0.000	49.421	46.995	119.426	MWD+IFR1+MS
16600.000	90.000	330.000	11762.106	53.675	0.000	49.153	0.000	53.675	0.000	0.000	49.694	47.101	122.514	MWD+IFR1+MS
16700.000	90.000	330.000	11762.106	54.286	0.000	49.514	0.000	54.286	0.000	0.000	49.993	47.198	125.216	MWD+IFR1+MS
16800.000	90.000	330.000	11762.106	54.909	0.000	49.881	0.000	54.909	0.000	0.000	50.308	47.288	127.628	MWD+IFR1+MS
16900.000	90.000	330.000	11762.106	55.534	0.000	50.257	0.000	55.534	0.000	0.000	50.636	47.370	129.780	MWD+IFR1+MS

17000.000	90.000	330.000	11762.106	56.160	0.000	50.637	0.000	56.160	0.000	0.000	50.980	47.445	131.533	MWD+IFR1+MS
17100.000	90.000	330.000	11762.106	56.798	0.000	51.021	0.000	56.798	0.000	0.000	51.330	47.510	133.178	MWD+IFR1+MS
17200.000	90.000	330.000	11762.106	57.437	0.000	51.418	0.000	57.437	0.000	0.000	51.701	47.581	134.510	MWD+IFR1+MS
17300.000	90.000	330.000	11762.106	58.078	0.000	51.822	0.000	58.078	0.000	0.000	52.079	47.643	-44.223	MWD+IFR1+MS
17400.000	90.000	330.000	11762.106	58.720	0.000	52.227	0.000	58.720	0.000	0.000	52.464	47.702	-43.197	MWD+IFR1+MS
17500.000	90.000	330.000	11762.106	59.363	0.000	52.639	0.000	59.363	0.000	0.000	52.858	47.760	-42.259	MWD+IFR1+MS
17600.000	90.000	330.000	11762.106	60.017	0.000	53.061	0.000	60.017	0.000	0.000	53.265	47.821	-41.450	MWD+IFR1+MS
17700.000	90.000	330.000	11762.106	60.671	0.000	53.487	0.000	60.671	0.000	0.000	53.675	47.875	-40.654	MWD+IFR1+MS
17800.000	90.000	330.000	11762.106	61.327	0.000	53.925	0.000	61.327	0.000	0.000	54.101	47.938	-40.010	MWD+IFR1+MS
17900.000	90.000	330.000	11762.106	61.984	0.000	54.361	0.000	61.984	0.000	0.000	54.525	47.990	-39.405	MWD+IFR1+MS
18000.000	90.000	330.000	11762.106	62.650	0.000	54.805	0.000	62.650	0.000	0.000	54.959	48.047	-38.878	MWD+IFR1+MS
18100.000	90.000	330.000	11762.106	63.309	0.000	55.256	0.000	63.309	0.000	0.000	55.401	48.102	-38.381	MWD+IFR1+MS
18200.000	90.000	330.000	11762.106	63.977	0.000	55.712	0.000	63.977	0.000	0.000	55.848	48.156	-37.909	MWD+IFR1+MS
18300.000	90.000	330.000	11762.106	64.653	0.000	56.177	0.000	64.653	0.000	0.000	56.305	48.216	-37.494	MWD+IFR1+MS
18400.000	90.000	330.000	11762.106	65.322	0.000	56.642	0.000	65.322	0.000	0.000	56.763	48.270	-37.130	MWD+IFR1+MS
18500.000	90.000	330.000	11762.106	66.000	0.000	57.112	0.000	66.000	0.000	0.000	57.226	48.324	-36.778	MWD+IFR1+MS
18600.000	90.000	330.000	11762.106	66.678	0.000	57.589	0.000	66.678	0.000	0.000	57.698	48.383	-36.467	MWD+IFR1+MS
18700.000	90.000	330.000	11762.106	67.357	0.000	58.073	0.000	67.357	0.000	0.000	58.176	48.441	-36.167	MWD+IFR1+MS
18800.000	90.000	330.000	11762.106	68.037	0.000	58.555	0.000	68.037	0.000	0.000	58.653	48.495	-35.899	MWD+IFR1+MS
18900.000	90.000	330.000	11762.106	68.724	0.000	59.045	0.000	68.724	0.000	0.000	59.139	48.555	-35.662	MWD+IFR1+MS
19000.000	90.000	330.000	11762.106	69.412	0.000	59.541	0.000	69.412	0.000	0.000	59.630	48.613	-35.430	MWD+IFR1+MS
19100.000	90.000	330.000	11762.106	70.100	0.000	60.040	0.000	70.100	0.000	0.000	60.126	48.671	-35.201	MWD+IFR1+MS
19200.000	90.000	330.000	11762.106	70.788	0.000	60.548	0.000	70.788	0.000	0.000	60.630	48.735	-34.998	MWD+IFR1+MS
19300.000	90.000	330.000	11762.106	71.484	0.000	61.054	0.000	71.484	0.000	0.000	61.132	48.795	-34.816	MWD+IFR1+MS
19400.000	90.000	330.000	11762.106	72.180	0.000	61.564	0.000	72.180	0.000	0.000	61.639	48.853	-34.637	MWD+IFR1+MS
19500.000	90.000	330.000	11762.106	72.877	0.000	62.081	0.000	72.877	0.000	0.000	62.153	48.918	-34.476	MWD+IFR1+MS
19600.000	90.000	330.000	11762.106	73.573	0.000	62.603	0.000	73.573	0.000	0.000	62.672	48.982	-34.314	MWD+IFR1+MS
19700.000	90.000	330.000	11762.106	74.277	0.000	63.123	0.000	74.277	0.000	0.000	63.190	49.041	-34.172	MWD+IFR1+MS
19800.000	90.000	330.000	11762.106	74.973	0.000	63.653	0.000	74.973	0.000	0.000	63.717	49.104	-34.011	MWD+IFR1+MS
19900.000	90.000	330.000	11762.106	75.677	0.000	64.184	0.000	75.677	0.000	0.000	64.245	49.168	-33.883	MWD+IFR1+MS
20000.000	90.000	330.000	11762.106	76.381	0.000	64.719	0.000	76.381	0.000	0.000	64.778	49.232	-33.755	MWD+IFR1+MS
20100.000	90.000	330.000	11762.106	77.091	0.000	65.254	0.000	77.091	0.000	0.000	65.311	49.300	-33.653	MWD+IFR1+MS
20200.000	90.000	330.000	11762.106	77.801	0.000	65.799	0.000	77.801	0.000	0.000	65.854	49.369	-33.536	MWD+IFR1+MS
20300.000	90.000	330.000	11762.106	78.505	0.000	66.341	0.000	78.505	0.000	0.000	66.394	49.435	-33.430	MWD+IFR1+MS
20400.000	90.000	330.000	11762.106	79.221	0.000	66.888	0.000	79.221	0.000	0.000	66.939	49.499	-33.323	MWD+IFR1+MS
20500.000	90.000	330.000	11762.106	79.931	0.000	67.440	0.000	79.931	0.000	0.000	67.489	49.570	-33.227	MWD+IFR1+MS
20600.000	90.000	330.000	11762.106	80.641	0.000	67.991	0.000	80.641	0.000	0.000	68.039	49.636	-33.142	MWD+IFR1+MS
20700.000	90.000	330.000	11762.106	81.357	0.000	68.544	0.000	81.357	0.000	0.000	68.590	49.713	-33.060	MWD+IFR1+MS
20800.000	90.000	330.000	11762.106	82.073	0.000	69.109	0.000	82.073	0.000	0.000	69.154	49.777	-32.963	MWD+IFR1+MS
20900.000	90.000	330.000	11762.106	82.795	0.000	69.672	0.000	82.795	0.000	0.000	69.715	49.848	-32.883	MWD+IFR1+MS
21000.000	90.000	330.000	11762.106	83.510	0.000	70.232	0.000	83.510	0.000	0.000	70.274	49.926	-32.818	MWD+IFR1+MS
21100.000	90.000	330.000	11762.106	84.232	0.000	70.802	0.000	84.232	0.000	0.000	70.843	49.993	-32.735	MWD+IFR1+MS
21200.000	90.000	330.000	11762.106	84.953	0.000	71.372	0.000	84.953	0.000	0.000	71.411	50.074	-32.676	MWD+IFR1+MS
21300.000	90.000	330.000	11762.106	85.674	0.000	71.940	0.000	85.674	0.000	0.000	71.978	50.151	-32.602	MWD+IFR1+MS
21400.000	90.000	330.000	11762.106	86.394	0.000	72.517	0.000	86.394	0.000	0.000	72.554	50.228	-32.540	MWD+IFR1+MS
21500.000	90.000	330.000	11762.106	87.121	0.000	73.100	0.000	87.121	0.000	0.000	73.136	50.300	-32.481	MWD+IFR1+MS
21600.000	90.000	330.000	11762.106	87.846	0.000	73.679	0.000	87.846	0.000	0.000	73.714	50.371	-32.425	MWD+IFR1+MS
21700.000	90.000	330.000	11762.106	88.572	0.000	74.258	0.000	88.572	0.000	0.000	74.292	50.444	-32.364	MWD+IFR1+MS
21800.000	90.000	330.000	11762.106	89.303	0.000	74.840	0.000	89.303	0.000	0.000	74.873	50.528	-32.305	MWD+IFR1+MS
21900.000	90.000	330.000	11762.106	90.028	0.000	75.429	0.000	90.028	0.000	0.000	75.461	50.612	-32.257	MWD+IFR1+MS
22000.000	90.000	330.000	11762.106	90.758	0.000	76.018	0.000	90.758	0.000	0.000	76.049	50.680	-32.212	MWD+IFR1+MS
22100.000	90.000	330.000	11762.106	91.488	0.000	76.608	0.000	91.488	0.000	0.000	76.638	50.770	-32.153	MWD+IFR1+MS
22200.000	90.000	330.000	11762.106	92.217	0.000	77.205	0.000	92.217	0.000	0.000	77.235	50.841	-32.112	MWD+IFR1+MS

22300.000	90.000	330.000	11762.106	92.952	0.000	77.798	0.000	92.952	0.000	0.000	77.827	50.931	-32.065	MWD+IFR1+MS
22400.000	90.000	330.000	11762.106	93.686	0.000	78.392	0.000	93.686	0.000	0.000	78.420	51.012	-32.028	MWD+IFR1+MS
22500.000	90.000	330.000	11762.106	94.419	0.000	78.997	0.000	94.419	0.000	0.000	79.024	51.090	-31.985	MWD+IFR1+MS
22600.000	90.000	330.000	11762.106	95.153	0.000	79.593	0.000	95.153	0.000	0.000	79.620	51.183	-31.945	MWD+IFR1+MS
22700.000	90.000	330.000	11762.106	95.885	0.000	80.200	0.000	95.885	0.000	0.000	80.226	51.261	-31.913	MWD+IFR1+MS
22800.000	90.000	330.000	11762.106	96.623	0.000	80.802	0.000	96.623	0.000	0.000	80.828	51.351	-31.869	MWD+IFR1+MS
22900.000	90.000	330.000	11762.106	97.360	0.000	81.409	0.000	97.360	0.000	0.000	81.434	51.434	-31.827	MWD+IFR1+MS
23000.000	90.000	330.000	11762.106	98.097	0.000	82.014	0.000	98.097	0.000	0.000	82.038	51.524	-31.793	MWD+IFR1+MS
23100.000	90.000	330.000	11762.106	98.833	0.000	82.623	0.000	98.833	0.000	0.000	82.647	51.608	-31.761	MWD+IFR1+MS
23200.000	90.000	330.000	11762.106	99.574	0.000	83.235	0.000	99.574	0.000	0.000	83.258	51.702	-31.730	MWD+IFR1+MS
23300.000	90.000	330.000	11762.106	100.300	0.000	83.850	0.000	100.300	0.000	0.000	83.872	51.782	-31.694	MWD+IFR1+MS
23404.000	90.000	330.000	11770.000	101.045	0.000	84.499	0.000	101.045	0.000	0.000	84.521	51.887	-31.666	MWD+IFR1+MS
23504.000	90.000	330.000	11770.000	101.833	0.000	85.110	0.000	101.833	0.000	0.000	85.132	51.976	-31.633	MWD+IFR1+MS

Plan Targets		PLU 29-20 BS 158H			
Target Name	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape
Slant KOP 10	11413.62	401365.38	668472.97	7683.00	CIRCLE
Slant FTP 10	12538.14	401986.29	668114.49	8400.00	CIRCLE
Slant LTP 10	23405.27	411399.67	662679.67	8400.00	CIRCLE
Slant BHL 10	23504.00	411486.27	662629.67	8400.00	CIRCLE

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO Permian Operating, LLC
LEASE NO.:	NMLC-062140A
WELL NAME & NO.:	Poker Lake Unit 29-20 BS 158H
SURFACE HOLE FOOTAGE:	0533' FNL & 0205' FEL
BOTTOM HOLE FOOTAGE:	2609' FSL & 0080' FWL Sec. 17, T.25 S., R.31 E.
LOCATION:	Section 29, T.25 S., R.31 E., NMPM
COUNTY:	Eddy County, New Mexico

COA

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

Medium Cave/Karst

Possibility of water flows in the Salado and Castile.

Possibility of lost circulation in the Red Beds, Rustler, and Delaware.

Abnormal pressure may be encountered in the 3rd Bone Spring and all subsequent formations.

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 **1190** 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.

Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

2. The minimum required fill of cement behind the **7-5/8** inch intermediate casing is:
 - Cement as proposed. Report Echo meter results on subsequent sundry. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst.**
 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.
- ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

C. PRESSURE CONTROL

1. 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.

BOP Break Testing Variance

- Shell testing is not approved for any portion of the hole with a MASP of 5000 psi or greater.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer prior to the commencement of any BOP Break Testing operations.
- A full BOP test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOP test will be required.

D. SPECIAL REQUIREMENT (S)

Unit Wells

The well sign for a unit well shall include the unit number in addition to the surface and bottom hole lease numbers. This also applies to participating area numbers. If a participating area has not been established, the operator can use the general unit designation, but will replace the unit number with the participating area number when the sign is replaced.

Commercial Well Determination

A commercial well determination shall be submitted after production has been established for at least six months.

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

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 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.
3. 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.
4. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
5. 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.
6. 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.

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.
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. 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).

- c. 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.
- d. The results of the test shall be reported to the appropriate BLM office.
- e. 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.
- f. 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.
- g. 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.

JAM 01192022

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 121001

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 121001
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
kpickford	• NSP Will require administrative order for non-standard spacing unit	7/5/2022
kpickford	Adhere to previous NMOCD Conditions of Approval	7/5/2022