

Well Name: POKER LAKE UNIT 23 DTD FED STATE COM	Well Location: T24S / R30E / SEC 14 / SESE / 32.21189 / -103.844923	County or Parish/State: EDDY / NM
Well Number: 107H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMLC068905	Unit or CA Name: POKER LAKE UNIT	Unit or CA Number: NMNM71016X
US Well Number: 3001554383	Operator: XTO PERMIAN OPERATING LLC	

Notice of Intent

Sundry ID: 2855604

Type of Submission: Notice of Intent

Date Sundry Submitted: 06/02/2025

Date proposed operation will begin: 06/02/2025

Type of Action: APD Change

Time Sundry Submitted: 11:35

Procedure Description: Effective date 12/1/23 XTO Permian Operating LLC respectfully requests to make the following changes: Pool name and code: f/ PURPLE SAGE; WOLFCAMP (gas) (98220) t/ WC-015 G-06 S233036D; BONE SPRING (97944) & WILDCAT G-06 S243026M; BONE SPRING (97798) Dedicated acres: f/ 960 t/ 320.66 & 1760 Name change: f/ POKER LAKE UNIT 23 DTD FED STATE COM 107H t/ POKER LAKE UNIT 23 DTD FED COM 107H Attached are the drilling plans and direction surveys that were previously approved under BLM id # 2764692/NMOCD id # 298275. These plans have not changed and are just attached for easy reference. Updated C-102 on new required form. No new surface disturbance.

NOI Attachments

Procedure Description

POKER_LAKE_UNIT_23_DTD_FED_COM_107H_97798_C102_AMENDED_FINAL_05_29_2025_20250602113411.pdf
POKER_LAKE_UNIT_23_DTD_FED_COM_107H_97944_C102_AMENDED_FINAL_05_29_2025_20250602113412.pdf
POKER_LAKE_UNIT_23_DTD_FED_COM_107H_DRILL_PLANS_20250602112918.pdf

Received by OCD: 6/3/2025 8:12:26 AM

Page 2 of 24

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Lease Number: NMLC068905	Unit or CA Name: POKER LAKE UNIT	Unit or CA Number: NMNM71016X
US Well Number: 3001554383	Operator: XTO PERMIAN OPERATING LLC	

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: LACEY GRANILLO	Signed on: JUN 02, 2025 11:34 AM
Name: XTO PERMIAN OPERATING LLC	
Title: Regulatory Analyst	
Street Address: 6401 HOLIDAY HILL ROAD	
City: MIDLAND	State: TX
Phone: (432) 894-0057	
Email address: LACEY.GRANILLO@EXXONMOBIL.COM	

Field

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

BLM Point of Contact

BLM POC Name: MARIAH HUGHES	BLM POC Title: Land Law Examiner
BLM POC Phone: 5752345972	BLM POC Email Address: mhughes@blm.gov
Disposition: Approved	Disposition Date: 06/03/2025
Signature: Cody Layton Assistant Field Manager	

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. **NMLC068905**

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other2. Name of Operator **XTO PERMIAN OPERATING LLC**3a. Address **6401 HOLIDAY HILL ROAD BLDG 5, MIDLAND,**3b. Phone No. (include area code)
(432) 683-22777. If Unit of CA/Agreement, Name and/or No.
POKER LAKE UNIT/NMNM71016X8. Well Name and No.
POKER LAKE UNIT 23 DTD FED STATE COM/107H9. API Well No. **3001554383**10. Field and Pool or Exploratory Area
PURPLE SAGE/WOLFCAMP (GAS)4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
SEC 14/T24S/R30E/NMP11. Country or Parish, State
EDDY/NM**12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA**

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

Effective date 12/1/23

XTO Permian Operating LLC respectfully requests to make the following changes:

Pool name and code: f/ PURPLE SAGE; WOLFCAMP (gas) (98220)

t/ WC-015 G-06 S233036D; BONE SPRING (97944) & WILDCAT G-06 S243026M; BONE SPRING (97798)

Dedicated acres: f/ 960 t/ 320.66 & 1760

Name change: f/ POKER LAKE UNIT 23 DTD FED STATE COM 107H t/ POKER LAKE UNIT 23 DTD FED COM 107H

Attached are the drilling plans and direction surveys that were previously approved under BLM id # 2764692/NMOCD id # 298275. These plans have not changed and are just attached for easy reference. Updated C-102 on new required form. No new surface disturbance.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)
LACEY GRANILLO / Ph: (432) 894-0057Title **Regulatory Analyst**

Signature (Electronic Submission)

Date **06/02/2025****THE SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

MARIAH HUGHES / Ph: (575) 234-5972 / ApprovedTitle **Land Law Examiner**Date **06/03/2025**

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 **CARLSBAD**

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

Location of Well

0. SHL: SESE / 455 FSL / 606 FEL / TWSP: 24S / RANGE: 30E / SECTION: 14 / LAT: 32.21189 / LONG: -103.844923 (TVD: 0 feet, MD: 0 feet)

PPP: SWSE / 100 FSL / 1430 FEL / TWSP: 24S / RANGE: 30E / SECTION: 14 / LAT: 32.210911 / LONG: -103.847591 (TVD: 11320 feet, MD: 11800 feet)

BHL: LOT 2 / 200 FNL / 1430 FEL / TWSP: 24S / RANGE: 30E / SECTION: 2 / LAT: 32.253589 / LONG: -103.847571 (TVD: 11635 feet, MD: 27581 feet)

Santa Fe Main Office Phone: (505) 476-3441 General Information Phone: (505) 629-6116 Online Phone Directory Visit: https://www.emnrd.nm.gov/ocd/contact-us/	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	C-102 Revised July 9, 2024 Submit Electronically via OCD Permitting	
		Submittal Type:	<input type="checkbox"/> Initial Submittal
			<input checked="" type="checkbox"/> Amended Report
		<input type="checkbox"/> As Drilled	

WELL LOCATION INFORMATION

API Number 30-015-54383	Pool Code 97798	Pool Name WILDCAT G-06 S243026M; BONE SPRING
Property Code	Property Name POKER LAKE UNIT 23 DTD FED COM	Well Number 107H
OGRID No. 373075	Operator Name XTO PERMIAN OPERATING, LLC.	Ground Level Elevation 3443'
Surface Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal		Mineral Owner: <input checked="" type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
P	14	24S	30E		845 FSL	608 FEL	32.212962	-103.844924	EDDY

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
	02	24S	30E	1	50 FNL	1,200 FEL	32.254004	-103.846826	EDDY

Dedicated Acres 1,760.00	Infill or Defining Well INFILL	Defining Well API 30-015-49650	Overlapping Spacing Unit (Y/N) N	Consolidation Code P
Order Numbers: R-23809			Well setbacks are under Common Ownership: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
P	14	24S	30E		845 FSL	608 FEL	32.212962	-103.844924	EDDY


First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
B	23	24S	30E		1,220 FNL	1,350 FEL	32.207283	-103.847345	EDDY

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
	02	24S	30E	1	100 FNL	1,200 FEL	32.253866	-103.846828	EDDY

Unitized Area or Area of Uniform Interest	Spacing Unit Type <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical	Ground Floor Elevation: 3443'
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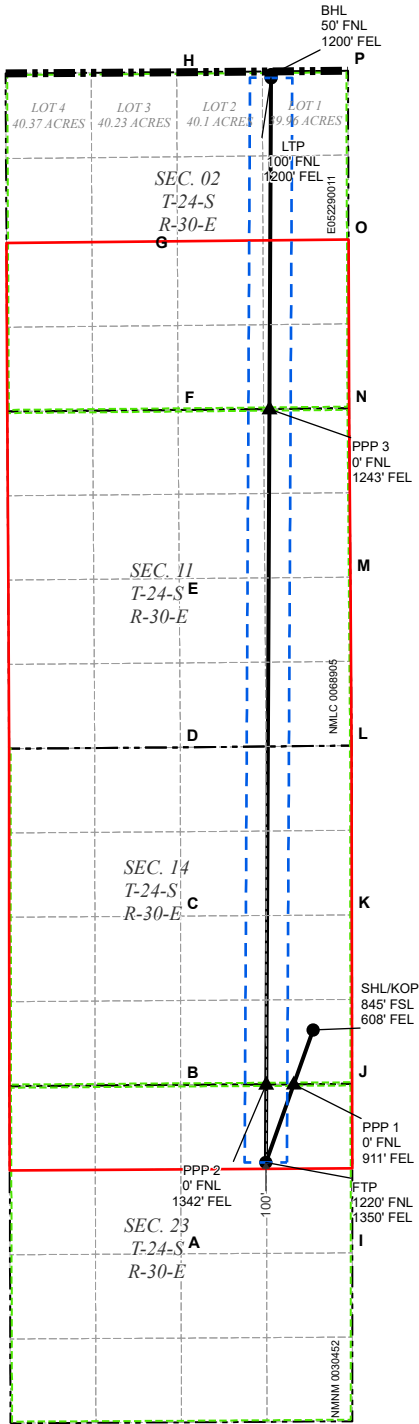
<div>OPERATOR CERTIFICATIONS</div> <div><p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the 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 a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p><p>If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.</p></div> <div><div>Lacey Granillo6/2/25</div><div>SignatureDate</div><div>Lacey Granillo</div><div>Printed Name</div><div>Lacey.granillo@exxonmobil.com</div><div>Email Address</div></div>	<div>SURVEYOR CERTIFICATIONS</div> <div><p>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.</p></div> <div><div></div><div>Signature and Seal of Professional Surveyor</div><div><div>2378605-29-2025</div><div>Certificate NumberDate of Survey</div></div><div><div>DN618.013003.09-16</div></div></div>
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Note: 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.

ACREAGE DEDICATION PLATS

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.



LEGEND

- SECTION LINE
-
- 330' BUFFER

WELL COORDINATE TABLE								
WELL	NAD 83 NME X	NAD 83 NME Y	NAD 83 LAT	NAD 83 LON	NAD 27 NME X	NAD 27 NME Y	NAD 27 LAT	NAD 27 LON
SHL/KOP	692,388.3	441,552.8	32.212962	-103.844924	651,204.6	441,493.8	32.212838	-103.844438
FTP	691,649.1	439,483.5	32.207283	-103.847345	650,465.3	439,424.5	32.207159	-103.846859
LTP	691,732.2	456,430.6	32.253866	-103.846828	650,549.0	456,371.2	32.253743	-103.846340
BHL	691,732.5	456,480.6	32.254004	-103.846826	650,549.3	456,421.2	32.253880	-103.846338
PPP 1	692,085.8	440,706.1	32.210638	-103.845915	650,902.1	440,647.1	32.210514	-103.845429
PPP 2	691,655.1	440,703.6	32.210637	-103.847307	650,471.3	440,644.5	32.210513	-103.846821
PPP 3	691,706.8	451,255.4	32.239641	-103.846986	650,523.4	451,196.1	32.239517	-103.846498

CORNER COORDINATE TABLE				
CORNER	NAD 83 NME X	NAD 83 NME Y	NAD 27 NME X	NAD 27 NME Y
A	690,325.0	438,055.8	649,141.1	437,996.8
B	690,318.8	440,695.8	649,135.1	440,636.7
C	690,316.6	443,332.8	649,133.0	443,273.7
D	690,314.4	445,969.0	649,130.8	445,909.9
E	690,296.4	448,606.1	649,112.9	448,546.9
F	690,278.4	451,241.0	649,095.0	451,181.7
G	690,267.6	453,878.5	649,084.3	453,819.1
H	690,256.8	456,518.7	649,073.6	456,459.2
I	693,001.3	438,070.5	651,817.5	438,011.5
J	692,997.1	440,711.4	651,813.3	440,652.4
K	692,993.7	443,350.7	651,810.0	443,291.6
L	692,990.3	445,996.5	651,806.7	445,937.3
M	692,970.7	448,628.6	651,787.3	448,569.4
N	692,950.0	451,268.0	651,766.6	451,208.7
O	692,941.2	453,905.4	651,757.9	453,846.1
P	692,932.5	456,540.5	651,749.3	456,481.1

Santa Fe Main Office Phone: (505) 476-3441 General Information Phone: (505) 629-6116 Online Phone Directory Visit: https://www.emnrd.nm.gov/ocd/contact-us/	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	C-102 Revised July 9, 2024 Submit Electronically via OCD Permitting	
		Submittal Type:	<input type="checkbox"/> Initial Submittal
			<input checked="" type="checkbox"/> Amended Report
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Property Code	Property Name POKER LAKE UNIT 23 DTD FED COM	Well Number 107H
OGRID No. 373075	Operator Name XTO PERMIAN OPERATING, LLC.	Ground Level Elevation 3443'
Surface Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal		Mineral Owner: <input checked="" type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
P	14	24S	30E		845 FSL	608 FEL	32.212962	-103.844924	EDDY

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
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Dedicated Acres 320.66	Infill or Defining Well INFILL	Defining Well API 30-015-49650	Overlapping Spacing Unit (Y/N) N	Consolidation Code P
Order Numbers: R-23809			Well setbacks are under Common Ownership: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
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First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
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Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
	02	24S	30E	1	100 FNL	1,200 FEL	32.253866	-103.846828	EDDY

Unitized Area or Area of Uniform Interest	Spacing Unit Type <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical	Ground Floor Elevation: 3443'
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<div>OPERATOR CERTIFICATIONS</div> <div>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, 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 a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</div> <div>If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.</div> <div><div>Lacey Granillo</div><div>6/2/25</div></div> <div>SignatureDate</div> <div>Lacey Granillo</div> <div>Printed Name</div> <div>Lacey.granillo@exxonmobil.com</div> <div>Email Address</div>	<div>SURVEYOR CERTIFICATIONS</div> <div>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.</div> <div><div></div><div></div></div> <div>Signature and Seal of Professional Surveyor</div> <div><div>23786</div><div>05-29-2025</div></div> <div>Certificate NumberDate of Survey</div> <div>DN618.013003.09-16</div>
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Note: 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.

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.



	SECTION LINE		330' BUFFER		PPP
	TOWNSHIP LINE		MINERAL LEASE		WELL
	DEDICATED ACREAGE		WELLBORE		

WELL COORDINATE TABLE								
WELL	NAD 83 NME X	NAD 83 NME Y	NAD 83 LAT	NAD 83 LON	NAD 27 NME X	NAD 27 NME Y	NAD 27 LAT	NAD 27 LON
SHL/KOP	692,388.3	441,552.8	32.212962	-103.844924	651,204.6	441,493.8	32.212838	-103.844438
FTP	691,649.1	439,483.5	32.207283	-103.847345	650,465.3	439,424.5	32.207159	-103.846859
LTP	691,732.2	456,430.6	32.253866	-103.846828	650,549.0	456,371.2	32.253743	-103.846340
BHL	691,732.5	456,480.6	32.254004	-103.846826	650,549.3	456,421.2	32.253880	-103.846338
PPP 1	692,085.8	440,706.1	32.210638	-103.845915	650,902.1	440,647.1	32.210514	-103.845429
PPP 2	691,655.1	440,703.6	32.210637	-103.847307	650,471.3	440,644.5	32.210513	-103.846821
PPP 3	691,706.8	451,255.4	32.239641	-103.846986	650,523.4	451,196.1	32.239517	-103.846498

CORNER COORDINATE TABLE				
CORNER	NAD 83 NME X	NAD 83 NME Y	NAD 27 NME X	NAD 27 NME Y
A	690,325.0	438,055.8	649,141.1	437,996.8
B	690,318.8	440,695.8	649,135.1	440,636.7
C	690,316.6	443,332.8	649,133.0	443,273.7
D	690,314.4	445,969.0	649,130.8	445,909.9
E	690,296.4	448,606.1	649,112.9	448,546.9
F	690,278.4	451,241.0	649,095.0	451,181.7
G	690,267.6	453,878.5	649,084.3	453,819.1
H	690,256.8	456,518.7	649,073.6	456,459.2
I	693,001.3	438,070.5	651,817.5	438,011.5
J	692,997.1	440,711.4	651,813.3	440,652.4
K	692,993.7	443,350.7	651,810.0	443,291.6
L	692,990.3	445,996.5	651,806.7	445,937.3
M	692,970.7	448,628.6	651,787.3	448,569.4
N	692,950.0	451,268.0	651,766.6	451,208.7
O	692,941.2	453,905.4	651,757.9	453,846.1
P	692,932.5	456,540.5	651,749.3	456,481.1

Well Plan Report - POKER LAKE UNIT 23 DTD 107H

Measured Depth: 27268.52 ft

TVD RKB: 10014.00 ft

Location

Cartographic Reference System: New Mexico East - NAD 27

Northing: 441493.80 ft

Easting: 651204.60 ft

RKB: 3476.00 ft

Ground Level: 3444.00 ft

North Reference: Grid

Convergence Angle: 0.26 Deg

Site: PLU 23D

Slot: POKER LAKE UNIT 23
DTD 107H**Plan Sections**

POKER LAKE UNIT 23 DTD 107H

Measured	TVD			Build		Turn	Dogleg	
Depth	Inclination	Azimuth	RKB	Y Offset	X Offset	Rate	Rate	Rate
(ft)	(Deg)	(Deg)	(ft)	(ft)	(ft)	(Deg/100ft)	(Deg/100ft)	(Deg/100ft) Target
0.00	0.00	0.00	0.00	-0.00	0.00	0.00	0.00	0.00
1100.00	0.00	0.00	1100.00	-0.00	0.00	0.00	0.00	0.00
2804.92	34.10	199.82	2706.04	-463.36	-166.96	2.00	0.00	2.00
4964.03	34.10	199.82	4493.96	-1602.12	-577.29	0.00	0.00	0.00
6668.95	0.00	0.00	6100.00	-2065.49	-744.25	-2.00	0.00	2.00
9866.75	0.00	0.00	9297.80	-2065.49	-744.25	0.00	0.00	0.00
10991.75	90.00	0.30	10014.00	-1349.30	-740.50	8.00	0.00	8.00 FTP 9
27218.67	90.00	0.30	10014.00	14877.40	-655.60	0.00	0.00	0.00 LTP 9
27268.52	90.00	0.30	10014.00	14927.25	-655.34	0.00	0.00	0.00 BHL 9

Position Uncertainty

POKER LAKE UNIT 23 DTD 107H

Measured	TVD	Highside	Lateral	Vertical	Magnitude	Semi-major	Semi-minor	Semi-minor	Tool
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Depth	Inclination	Azimuth	RKB	Error	Bias	Error	Bias	Error	Bias	of Bias	Error	Error	Azimuth	Used
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	MWD+IFR1+MS
100.000	0.000	0.000	100.000	0.700	0.000	0.350	0.000	2.300	0.000	0.000	0.751	0.220	112.264	MWD+IFR1+MS
200.000	0.000	0.000	200.000	1.112	0.000	0.861	0.000	2.310	0.000	0.000	1.259	0.627	122.711	MWD+IFR1+MS
300.000	0.000	0.000	300.000	1.497	0.000	1.271	0.000	2.326	0.000	0.000	1.698	0.986	125.469	MWD+IFR1+MS
400.000	0.000	0.000	400.000	1.871	0.000	1.658	0.000	2.347	0.000	0.000	2.108	1.344	126.713	MWD+IFR1+MS
500.000	0.000	0.000	500.000	2.240	0.000	2.034	0.000	2.375	0.000	0.000	2.503	1.701	127.419	MWD+IFR1+MS
600.000	0.000	0.000	600.000	2.607	0.000	2.405	0.000	2.407	0.000	0.000	2.888	2.059	127.873	MWD+IFR1+MS
700.000	0.000	0.000	700.000	2.971	0.000	2.773	0.000	2.445	0.000	0.000	3.267	2.417	128.190	MWD+IFR1+MS
800.000	0.000	0.000	800.000	3.334	0.000	3.138	0.000	2.487	0.000	0.000	3.642	2.775	128.423	MWD+IFR1+MS
900.000	0.000	0.000	900.000	3.696	0.000	3.502	0.000	2.533	0.000	0.000	4.014	3.133	128.602	MWD+IFR1+MS
1000.000	0.000	0.000	1000.000	4.058	0.000	3.865	0.000	2.583	0.000	0.000	4.384	3.491	128.744	MWD+IFR1+MS
1100.000	0.000	0.000	1100.000	4.419	0.000	4.228	0.000	2.636	0.000	0.000	4.752	3.849	128.859	MWD+IFR1+MS
1200.000	2.000	199.815	1199.980	5.013	-0.000	4.284	0.000	2.693	0.000	0.000	5.094	4.191	127.672	MWD+IFR1+MS
1300.000	4.000	199.815	1299.838	5.778	-0.000	4.638	0.000	2.753	0.000	0.000	5.882	4.517	126.021	MWD+IFR1+MS
1400.000	6.000	199.815	1399.452	6.466	-0.000	4.993	0.000	2.819	0.000	0.000	6.595	4.848	125.329	MWD+IFR1+MS
1500.000	8.000	199.815	1498.702	7.098	-0.000	5.350	0.000	2.892	0.000	0.000	7.254	5.183	124.961	MWD+IFR1+MS
1600.000	10.000	199.815	1597.465	7.686	-0.000	5.710	0.000	2.975	0.000	0.000	7.871	5.524	124.748	MWD+IFR1+MS
1700.000	12.000	199.815	1695.623	8.240	-0.000	6.073	0.000	3.070	0.000	0.000	8.455	5.871	124.628	MWD+IFR1+MS
1800.000	14.000	199.815	1793.055	8.764	-0.000	6.442	0.000	3.178	0.000	0.000	9.012	6.224	124.574	MWD+IFR1+MS
1900.000	16.000	199.815	1889.643	9.264	-0.000	6.816	0.000	3.301	0.000	0.000	9.546	6.585	124.572	MWD+IFR1+MS
2000.000	18.000	199.815	1985.268	9.742	-0.000	7.199	0.000	3.441	0.000	0.000	10.062	6.955	124.617	MWD+IFR1+MS
2100.000	20.000	199.815	2079.816	10.202	-0.000	7.590	0.000	3.599	0.000	0.000	10.561	7.335	124.705	MWD+IFR1+MS
2200.000	22.000	199.815	2173.169	10.645	-0.000	7.992	0.000	3.776	0.000	0.000	11.045	7.725	124.839	MWD+IFR1+MS
2300.000	24.000	199.815	2265.215	11.074	-0.000	8.404	0.000	3.972	0.000	0.000	11.517	8.127	125.021	MWD+IFR1+MS
2400.000	26.000	199.815	2355.841	11.490	-0.000	8.829	0.000	4.190	0.000	0.000	11.978	8.541	125.254	MWD+IFR1+MS
2500.000	28.000	199.815	2444.937	11.895	-0.000	9.268	0.000	4.429	0.000	0.000	12.429	8.969	125.548	MWD+IFR1+MS
2600.000	30.000	199.815	2532.394	12.290	-0.000	9.721	0.000	4.689	0.000	0.000	12.871	9.411	125.909	MWD+IFR1+MS
2700.000	32.000	199.815	2618.107	12.676	-0.000	10.189	0.000	4.972	0.000	0.000	13.305	9.868	126.350	MWD+IFR1+MS
2804.918	34.098	199.815	2706.045	13.095	-0.000	10.700	0.000	5.310	0.000	0.000	13.768	10.363	126.917	MWD+IFR1+MS
2900.000	34.098	199.815	2784.780	13.480	-0.000	11.174	0.000	5.530	0.000	0.000	14.091	10.825	127.701	MWD+IFR1+MS
3000.000	34.098	199.815	2867.587	13.827	-0.000	11.681	0.000	5.728	0.000	0.000	14.389	11.324	128.667	MWD+IFR1+MS

3100.000	34.098	199.815	2950.395	14.186	-0.000	12.198	0.000	5.935	0.000	0.000	14.697	11.828	129.790	MWD+IFR1+MS
3200.000	34.098	199.815	3033.203	14.556	-0.000	12.722	0.000	6.152	0.000	0.000	15.017	12.337	131.085	MWD+IFR1+MS
3300.000	34.098	199.815	3116.010	14.936	-0.000	13.253	0.000	6.377	0.000	0.000	15.347	12.849	132.577	MWD+IFR1+MS
3400.000	34.098	199.815	3198.818	15.326	-0.000	13.789	0.000	6.609	0.000	0.000	15.688	13.362	134.300	MWD+IFR1+MS
3500.000	34.098	199.815	3281.625	15.723	-0.000	14.331	0.000	6.848	0.000	0.000	16.041	13.874	-43.716	MWD+IFR1+MS
3600.000	34.098	199.815	3364.433	16.129	-0.000	14.877	0.000	7.092	0.000	0.000	16.406	14.385	-41.437	MWD+IFR1+MS
3700.000	34.098	199.815	3447.241	16.542	-0.000	15.427	0.000	7.342	0.000	0.000	16.785	14.892	-38.839	MWD+IFR1+MS
3800.000	34.098	199.815	3530.048	16.962	-0.000	15.981	0.000	7.597	0.000	0.000	17.177	15.393	-35.909	MWD+IFR1+MS
3900.000	34.098	199.815	3612.856	17.388	-0.000	16.538	0.000	7.857	0.000	0.000	17.586	15.887	-32.662	MWD+IFR1+MS
4000.000	34.098	199.815	3695.664	17.820	-0.000	17.098	0.000	8.120	0.000	0.000	18.010	16.373	-29.149	MWD+IFR1+MS
4100.000	34.098	199.815	3778.471	18.257	-0.000	17.661	0.000	8.387	0.000	0.000	18.452	16.848	-25.460	MWD+IFR1+MS
4200.000	34.098	199.815	3861.279	18.699	-0.000	18.226	0.000	8.658	0.000	0.000	18.911	17.312	-21.715	MWD+IFR1+MS
4300.000	34.098	199.815	3944.086	19.146	-0.000	18.793	0.000	8.931	0.000	0.000	19.388	17.766	-18.048	MWD+IFR1+MS
4400.000	34.098	199.815	4026.894	19.598	-0.000	19.362	0.000	9.208	0.000	0.000	19.880	18.209	-14.573	MWD+IFR1+MS
4500.000	34.098	199.815	4109.702	20.053	-0.000	19.934	0.000	9.487	0.000	0.000	20.386	18.643	-11.373	MWD+IFR1+MS
4600.000	34.098	199.815	4192.509	20.513	-0.000	20.507	0.000	9.768	0.000	0.000	20.905	19.070	-8.490	MWD+IFR1+MS
4700.000	34.098	199.815	4275.317	20.975	-0.000	21.081	0.000	10.052	0.000	0.000	21.434	19.492	-5.933	MWD+IFR1+MS
4800.000	34.098	199.815	4358.125	21.442	-0.000	21.657	0.000	10.338	0.000	0.000	21.972	19.908	-3.685	MWD+IFR1+MS
4900.000	34.098	199.815	4440.932	21.911	-0.000	22.234	0.000	10.626	0.000	0.000	22.518	20.322	-1.718	MWD+IFR1+MS
4964.032	34.098	199.815	4493.955	22.210	-0.000	22.601	0.000	10.810	0.000	0.000	22.865	20.585	-0.559	MWD+IFR1+MS
5000.000	33.379	199.815	4523.866	22.424	-0.000	22.805	0.000	10.913	0.000	0.000	23.059	20.731	0.049	MWD+IFR1+MS
5100.000	31.379	199.815	4608.314	23.048	-0.000	23.367	0.000	11.221	0.000	0.000	23.607	21.167	1.087	MWD+IFR1+MS
5200.000	29.379	199.815	4694.579	23.697	-0.000	23.918	0.000	11.544	0.000	0.000	24.159	21.638	1.367	MWD+IFR1+MS
5300.000	27.379	199.815	4782.557	24.305	-0.000	24.453	0.000	11.840	0.000	0.000	24.696	22.109	1.511	MWD+IFR1+MS
5400.000	25.379	199.815	4872.140	24.870	-0.000	24.971	0.000	12.112	0.000	0.000	25.218	22.577	1.540	MWD+IFR1+MS
5500.000	23.379	199.815	4963.219	25.392	-0.000	25.471	0.000	12.360	0.000	0.000	25.725	23.042	1.468	MWD+IFR1+MS
5600.000	21.379	199.815	5055.683	25.872	-0.000	25.954	0.000	12.586	0.000	0.000	26.214	23.502	1.305	MWD+IFR1+MS
5700.000	19.379	199.815	5149.419	26.307	-0.000	26.417	0.000	12.791	0.000	0.000	26.687	23.955	1.060	MWD+IFR1+MS
5800.000	17.379	199.815	5244.313	26.698	-0.000	26.862	0.000	12.977	0.000	0.000	27.142	24.400	0.741	MWD+IFR1+MS
5900.000	15.379	199.815	5340.250	27.044	-0.000	27.288	0.000	13.144	0.000	0.000	27.579	24.835	0.351	MWD+IFR1+MS
6000.000	13.379	199.815	5437.113	27.346	-0.000	27.695	0.000	13.296	0.000	0.000	27.999	25.260	-0.104	MWD+IFR1+MS
6100.000	11.379	199.815	5534.783	27.602	-0.000	28.083	0.000	13.432	0.000	0.000	28.401	25.673	-0.621	MWD+IFR1+MS
6200.000	9.379	199.815	5633.142	27.814	-0.000	28.452	0.000	13.555	0.000	0.000	28.786	26.074	-1.196	MWD+IFR1+MS

6300.000	7.379	199.815	5732.069	27.981	-0.000	28.802	0.000	13.666	0.000	0.000	29.153	26.461	-1.827	MWD+IFR1+MS
6400.000	5.379	199.815	5831.445	28.104	-0.000	29.133	0.000	13.766	0.000	0.000	29.504	26.833	-2.509	MWD+IFR1+MS
6500.000	3.379	199.815	5931.148	28.183	-0.000	29.446	0.000	13.858	0.000	0.000	29.837	27.190	-3.240	MWD+IFR1+MS
6600.000	1.379	199.815	6031.057	28.219	-0.000	29.741	0.000	13.943	0.000	0.000	30.153	27.532	-4.015	MWD+IFR1+MS
6668.950	0.000	0.000	6100.000	27.721	0.000	30.313	0.000	13.999	0.000	0.000	30.325	27.709	-3.890	MWD+IFR1+MS
6700.000	0.000	0.000	6131.050	27.798	0.000	30.382	0.000	14.024	0.000	0.000	30.394	27.786	-3.860	MWD+IFR1+MS
6800.000	0.000	0.000	6231.050	28.047	0.000	30.609	0.000	14.104	0.000	0.000	30.619	28.035	-3.785	MWD+IFR1+MS
6900.000	0.000	0.000	6331.050	28.301	0.000	30.841	0.000	14.187	0.000	0.000	30.851	28.290	-3.787	MWD+IFR1+MS
7000.000	0.000	0.000	6431.050	28.558	0.000	31.075	0.000	14.273	0.000	0.000	31.086	28.546	-3.790	MWD+IFR1+MS
7100.000	0.000	0.000	6531.050	28.817	0.000	31.312	0.000	14.361	0.000	0.000	31.323	28.805	-3.792	MWD+IFR1+MS
7200.000	0.000	0.000	6631.050	29.078	0.000	31.551	0.000	14.452	0.000	0.000	31.562	29.066	-3.795	MWD+IFR1+MS
7300.000	0.000	0.000	6731.050	29.341	0.000	31.793	0.000	14.545	0.000	0.000	31.803	29.329	-3.797	MWD+IFR1+MS
7400.000	0.000	0.000	6831.050	29.606	0.000	32.037	0.000	14.641	0.000	0.000	32.047	29.594	-3.799	MWD+IFR1+MS
7500.000	0.000	0.000	6931.050	29.873	0.000	32.282	0.000	14.740	0.000	0.000	32.293	29.861	-3.802	MWD+IFR1+MS
7600.000	0.000	0.000	7031.050	30.141	0.000	32.530	0.000	14.842	0.000	0.000	32.540	30.130	-3.804	MWD+IFR1+MS
7700.000	0.000	0.000	7131.050	30.412	0.000	32.780	0.000	14.947	0.000	0.000	32.790	30.401	-3.807	MWD+IFR1+MS
7800.000	0.000	0.000	7231.050	30.685	0.000	33.032	0.000	15.054	0.000	0.000	33.042	30.674	-3.809	MWD+IFR1+MS
7900.000	0.000	0.000	7331.050	30.959	0.000	33.286	0.000	15.165	0.000	0.000	33.296	30.948	-3.812	MWD+IFR1+MS
8000.000	0.000	0.000	7431.050	31.235	0.000	33.542	0.000	15.278	0.000	0.000	33.552	31.224	-3.814	MWD+IFR1+MS
8100.000	0.000	0.000	7531.050	31.512	0.000	33.799	0.000	15.395	0.000	0.000	33.809	31.502	-3.816	MWD+IFR1+MS
8200.000	0.000	0.000	7631.050	31.792	0.000	34.059	0.000	15.514	0.000	0.000	34.069	31.781	-3.819	MWD+IFR1+MS
8300.000	0.000	0.000	7731.050	32.072	0.000	34.320	0.000	15.637	0.000	0.000	34.330	32.062	-3.821	MWD+IFR1+MS
8400.000	0.000	0.000	7831.050	32.355	0.000	34.583	0.000	15.763	0.000	0.000	34.593	32.344	-3.824	MWD+IFR1+MS
8500.000	0.000	0.000	7931.050	32.639	0.000	34.848	0.000	15.892	0.000	0.000	34.857	32.628	-3.826	MWD+IFR1+MS
8600.000	0.000	0.000	8031.050	32.924	0.000	35.114	0.000	16.024	0.000	0.000	35.124	32.914	-3.829	MWD+IFR1+MS
8700.000	0.000	0.000	8131.050	33.211	0.000	35.382	0.000	16.159	0.000	0.000	35.392	33.200	-3.831	MWD+IFR1+MS
8800.000	0.000	0.000	8231.050	33.499	0.000	35.652	0.000	16.298	0.000	0.000	35.661	33.489	-3.834	MWD+IFR1+MS
8900.000	0.000	0.000	8331.050	33.788	0.000	35.923	0.000	16.440	0.000	0.000	35.932	33.778	-3.836	MWD+IFR1+MS
9000.000	0.000	0.000	8431.050	34.079	0.000	36.196	0.000	16.586	0.000	0.000	36.205	34.069	-3.838	MWD+IFR1+MS
9100.000	0.000	0.000	8531.050	34.371	0.000	36.470	0.000	16.734	0.000	0.000	36.479	34.361	-3.841	MWD+IFR1+MS
9200.000	0.000	0.000	8631.050	34.664	0.000	36.745	0.000	16.887	0.000	0.000	36.755	34.654	-3.843	MWD+IFR1+MS
9300.000	0.000	0.000	8731.050	34.959	0.000	37.022	0.000	17.042	0.000	0.000	37.031	34.949	-3.846	MWD+IFR1+MS
9400.000	0.000	0.000	8831.050	35.254	0.000	37.301	0.000	17.201	0.000	0.000	37.310	35.245	-3.848	MWD+IFR1+MS

9500.000	0.000	0.000	8931.050	35.551	0.000	37.581	0.000	17.364	0.000	0.000	37.590	35.542	-3.851	MWD+IFR1+MS
9600.000	0.000	0.000	9031.050	35.849	0.000	37.862	0.000	17.530	0.000	0.000	37.871	35.840	-3.853	MWD+IFR1+MS
9700.000	0.000	0.000	9131.050	36.148	0.000	38.144	0.000	17.699	0.000	0.000	38.153	36.139	-3.856	MWD+IFR1+MS
9800.000	0.000	0.000	9231.050	36.448	0.000	38.428	0.000	17.872	0.000	0.000	38.436	36.439	-3.858	MWD+IFR1+MS
9866.753	0.000	0.000	9297.803	36.647	0.000	38.616	0.000	17.990	0.000	0.000	38.625	36.638	-3.811	MWD+IFR1+MS
9900.000	2.660	0.300	9331.038	36.315	0.000	38.707	0.000	18.048	0.000	0.000	38.717	36.739	-3.787	MWD+IFR1+MS
10000.000	10.660	0.300	9430.283	35.443	0.000	38.970	0.000	18.241	0.000	0.000	38.988	37.493	-5.977	MWD+IFR1+MS
10100.000	18.660	0.300	9526.949	34.753	0.000	39.212	0.000	18.557	0.000	0.000	39.300	38.686	-22.098	MWD+IFR1+MS
10200.000	26.660	0.300	9619.155	33.672	0.000	39.427	0.000	19.068	0.000	0.000	39.983	39.302	115.593	MWD+IFR1+MS
10300.000	34.660	0.300	9705.106	32.326	0.000	39.616	0.000	19.829	0.000	0.000	40.824	39.539	104.369	MWD+IFR1+MS
10400.000	42.660	0.300	9783.129	30.878	0.000	39.779	0.000	20.860	0.000	0.000	41.506	39.711	101.340	MWD+IFR1+MS
10500.000	50.660	0.300	9851.707	29.522	0.000	39.917	0.000	22.150	0.000	0.000	42.008	39.851	100.246	MWD+IFR1+MS
10600.000	58.660	0.300	9909.503	28.479	0.000	40.032	0.000	23.658	0.000	0.000	42.342	39.963	99.946	MWD+IFR1+MS
10700.000	66.660	0.300	9955.393	27.965	0.000	40.125	0.000	25.328	0.000	0.000	42.533	40.051	100.092	MWD+IFR1+MS
10800.000	74.660	0.300	9988.483	28.141	0.000	40.198	0.000	27.096	0.000	0.000	42.618	40.117	100.519	MWD+IFR1+MS
10900.000	82.660	0.300	10008.131	29.065	0.000	40.250	0.000	28.897	0.000	0.000	42.637	40.161	101.090	MWD+IFR1+MS
10991.753	90.000	0.300	10014.000	30.322	-0.000	40.279	0.000	30.322	0.000	0.000	42.635	40.183	101.565	MWD+IFR1+MS
11000.000	90.000	0.300	10014.000	30.351	-0.000	40.280	0.000	30.351	0.000	0.000	42.636	40.183	101.597	MWD+IFR1+MS
11100.000	90.000	0.300	10014.000	30.690	-0.000	40.312	0.000	30.690	0.000	0.000	42.640	40.207	102.085	MWD+IFR1+MS
11200.000	90.000	0.300	10014.000	31.050	-0.000	40.366	0.000	31.050	0.000	0.000	42.646	40.252	102.687	MWD+IFR1+MS
11300.000	90.000	0.300	10014.000	31.426	-0.000	40.439	0.000	31.426	0.000	0.000	42.653	40.315	103.405	MWD+IFR1+MS
11400.000	90.000	0.300	10014.000	31.816	-0.000	40.531	0.000	31.816	0.000	0.000	42.663	40.395	104.263	MWD+IFR1+MS
11500.000	90.000	0.300	10014.000	32.221	-0.000	40.642	0.000	32.221	0.000	0.000	42.676	40.492	105.291	MWD+IFR1+MS
11600.000	90.000	0.300	10014.000	32.640	-0.000	40.772	0.000	32.640	0.000	0.000	42.692	40.605	106.529	MWD+IFR1+MS
11700.000	90.000	0.300	10014.000	33.071	-0.000	40.920	0.000	33.071	0.000	0.000	42.712	40.732	108.031	MWD+IFR1+MS
11800.000	90.000	0.300	10014.000	33.516	-0.000	41.087	0.000	33.516	0.000	0.000	42.738	40.873	109.866	MWD+IFR1+MS
11900.000	90.000	0.300	10014.000	33.973	-0.000	41.271	0.000	33.973	0.000	0.000	42.771	41.026	112.128	MWD+IFR1+MS
12000.000	90.000	0.300	10014.000	34.442	-0.000	41.474	0.000	34.442	0.000	0.000	42.813	41.187	114.929	MWD+IFR1+MS
12100.000	90.000	0.300	10014.000	34.922	-0.000	41.694	0.000	34.922	0.000	0.000	42.869	41.354	118.399	MWD+IFR1+MS
12200.000	90.000	0.300	10014.000	35.413	-0.000	41.932	0.000	35.413	0.000	0.000	42.942	41.520	122.651	MWD+IFR1+MS
12300.000	90.000	0.300	10014.000	35.915	-0.000	42.187	0.000	35.915	0.000	0.000	43.039	41.680	127.711	MWD+IFR1+MS
12400.000	90.000	0.300	10014.000	36.426	-0.000	42.459	0.000	36.426	0.000	0.000	43.167	41.827	133.421	MWD+IFR1+MS
12500.000	90.000	0.300	10014.000	36.948	-0.000	42.747	0.000	36.948	0.000	0.000	43.331	41.955	-40.605	MWD+IFR1+MS

12600.000	90.000	0.300	10014.000	37.478	-0.000	43.051	0.000	37.478	0.000	0.000	43.534	42.061	-34.871	MWD+IFR1+MS
12700.000	90.000	0.300	10014.000	38.017	-0.000	43.371	0.000	38.017	0.000	0.000	43.774	42.146	-29.772	MWD+IFR1+MS
12800.000	90.000	0.300	10014.000	38.564	-0.000	43.706	0.000	38.564	0.000	0.000	44.047	42.213	-25.474	MWD+IFR1+MS
12900.000	90.000	0.300	10014.000	39.120	-0.000	44.056	0.000	39.120	0.000	0.000	44.349	42.267	-21.956	MWD+IFR1+MS
13000.000	90.000	0.300	10014.000	39.683	-0.000	44.421	0.000	39.683	0.000	0.000	44.676	42.311	-19.106	MWD+IFR1+MS
13100.000	90.000	0.300	10014.000	40.254	-0.000	44.801	0.000	40.254	0.000	0.000	45.026	42.348	-16.796	MWD+IFR1+MS
13200.000	90.000	0.300	10014.000	40.832	-0.000	45.194	0.000	40.832	0.000	0.000	45.395	42.379	-14.909	MWD+IFR1+MS
13300.000	90.000	0.300	10014.000	41.417	-0.000	45.601	0.000	41.417	0.000	0.000	45.783	42.407	-13.353	MWD+IFR1+MS
13400.000	90.000	0.300	10014.000	42.008	-0.000	46.022	0.000	42.008	0.000	0.000	46.187	42.432	-12.056	MWD+IFR1+MS
13500.000	90.000	0.300	10014.000	42.606	-0.000	46.455	0.000	42.606	0.000	0.000	46.607	42.455	-10.963	MWD+IFR1+MS
13600.000	90.000	0.300	10014.000	43.209	-0.000	46.901	0.000	43.209	0.000	0.000	47.041	42.476	-10.033	MWD+IFR1+MS
13700.000	90.000	0.300	10014.000	43.818	-0.000	47.359	0.000	43.818	0.000	0.000	47.489	42.496	-9.233	MWD+IFR1+MS
13800.000	90.000	0.300	10014.000	44.433	-0.000	47.829	0.000	44.433	0.000	0.000	47.950	42.515	-8.539	MWD+IFR1+MS
13900.000	90.000	0.300	10014.000	45.053	-0.000	48.310	0.000	45.053	0.000	0.000	48.424	42.534	-7.933	MWD+IFR1+MS
14000.000	90.000	0.300	10014.000	45.678	-0.000	48.803	0.000	45.678	0.000	0.000	48.909	42.553	-7.400	MWD+IFR1+MS
14100.000	90.000	0.300	10014.000	46.308	-0.000	49.306	0.000	46.308	0.000	0.000	49.407	42.571	-6.927	MWD+IFR1+MS
14200.000	90.000	0.300	10014.000	46.943	-0.000	49.820	0.000	46.943	0.000	0.000	49.915	42.589	-6.505	MWD+IFR1+MS
14300.000	90.000	0.300	10014.000	47.582	-0.000	50.344	0.000	47.582	0.000	0.000	50.434	42.607	-6.127	MWD+IFR1+MS
14400.000	90.000	0.300	10014.000	48.225	-0.000	50.878	0.000	48.225	0.000	0.000	50.964	42.625	-5.787	MWD+IFR1+MS
14500.000	90.000	0.300	10014.000	48.872	-0.000	51.421	0.000	48.872	0.000	0.000	51.503	42.644	-5.479	MWD+IFR1+MS
14600.000	90.000	0.300	10014.000	49.524	-0.000	51.974	0.000	49.524	0.000	0.000	52.053	42.662	-5.199	MWD+IFR1+MS
14700.000	90.000	0.300	10014.000	50.179	-0.000	52.536	0.000	50.179	0.000	0.000	52.611	42.681	-4.943	MWD+IFR1+MS
14800.000	90.000	0.300	10014.000	50.838	-0.000	53.106	0.000	50.838	0.000	0.000	53.178	42.700	-4.709	MWD+IFR1+MS
14900.000	90.000	0.300	10014.000	51.501	-0.000	53.685	0.000	51.501	0.000	0.000	53.754	42.719	-4.494	MWD+IFR1+MS
15000.000	90.000	0.300	10014.000	52.167	-0.000	54.272	0.000	52.167	0.000	0.000	54.338	42.739	-4.295	MWD+IFR1+MS
15100.000	90.000	0.300	10014.000	52.836	-0.000	54.867	0.000	52.836	0.000	0.000	54.931	42.759	-4.112	MWD+IFR1+MS
15200.000	90.000	0.300	10014.000	53.508	-0.000	55.469	0.000	53.508	0.000	0.000	55.531	42.779	-3.942	MWD+IFR1+MS
15300.000	90.000	0.300	10014.000	54.183	-0.000	56.079	0.000	54.183	0.000	0.000	56.138	42.800	-3.784	MWD+IFR1+MS
15400.000	90.000	0.300	10014.000	54.862	-0.000	56.696	0.000	54.862	0.000	0.000	56.753	42.821	-3.636	MWD+IFR1+MS
15500.000	90.000	0.300	10014.000	55.543	-0.000	57.319	0.000	55.543	0.000	0.000	57.375	42.843	-3.499	MWD+IFR1+MS
15600.000	90.000	0.300	10014.000	56.226	-0.000	57.950	0.000	56.226	0.000	0.000	58.004	42.865	-3.370	MWD+IFR1+MS
15700.000	90.000	0.300	10014.000	56.913	-0.000	58.587	0.000	56.913	0.000	0.000	58.639	42.887	-3.250	MWD+IFR1+MS
15800.000	90.000	0.300	10014.000	57.602	-0.000	59.230	0.000	57.602	0.000	0.000	59.281	42.910	-3.136	MWD+IFR1+MS

15900.000	90.000	0.300	10014.000	58.293	-0.000	59.879	0.000	58.293	0.000	0.000	59.929	42.933	-3.030	MWD+IFR1+MS
16000.000	90.000	0.300	10014.000	58.987	-0.000	60.535	0.000	58.987	0.000	0.000	60.582	42.956	-2.929	MWD+IFR1+MS
16100.000	90.000	0.300	10014.000	59.682	-0.000	61.195	0.000	59.682	0.000	0.000	61.242	42.981	-2.835	MWD+IFR1+MS
16200.000	90.000	0.300	10014.000	60.380	-0.000	61.862	0.000	60.380	0.000	0.000	61.907	43.005	-2.745	MWD+IFR1+MS
16300.000	90.000	0.300	10014.000	61.081	-0.000	62.533	0.000	61.081	0.000	0.000	62.577	43.030	-2.660	MWD+IFR1+MS
16400.000	90.000	0.300	10014.000	61.783	-0.000	63.210	0.000	61.783	0.000	0.000	63.253	43.055	-2.580	MWD+IFR1+MS
16500.000	90.000	0.300	10014.000	62.487	-0.000	63.892	0.000	62.487	0.000	0.000	63.934	43.081	-2.503	MWD+IFR1+MS
16600.000	90.000	0.300	10014.000	63.193	-0.000	64.578	0.000	63.193	0.000	0.000	64.619	43.108	-2.431	MWD+IFR1+MS
16700.000	90.000	0.300	10014.000	63.901	-0.000	65.270	0.000	63.901	0.000	0.000	65.309	43.134	-2.362	MWD+IFR1+MS
16800.000	90.000	0.300	10014.000	64.611	-0.000	65.966	0.000	64.611	0.000	0.000	66.004	43.162	-2.296	MWD+IFR1+MS
16900.000	90.000	0.300	10014.000	65.322	-0.000	66.666	0.000	65.322	0.000	0.000	66.704	43.189	-2.233	MWD+IFR1+MS
17000.000	90.000	0.300	10014.000	66.035	-0.000	67.370	0.000	66.035	0.000	0.000	67.407	43.217	-2.173	MWD+IFR1+MS
17100.000	90.000	0.300	10014.000	66.750	-0.000	68.079	0.000	66.750	0.000	0.000	68.115	43.246	-2.116	MWD+IFR1+MS
17200.000	90.000	0.300	10014.000	67.466	-0.000	68.791	0.000	67.466	0.000	0.000	68.827	43.275	-2.061	MWD+IFR1+MS
17300.000	90.000	0.300	10014.000	68.184	-0.000	69.508	0.000	68.184	0.000	0.000	69.542	43.305	-2.009	MWD+IFR1+MS
17400.000	90.000	0.300	10014.000	68.903	-0.000	70.228	0.000	68.903	0.000	0.000	70.262	43.335	-1.959	MWD+IFR1+MS
17500.000	90.000	0.300	10014.000	69.624	-0.000	70.951	0.000	69.624	0.000	0.000	70.985	43.365	-1.911	MWD+IFR1+MS
17600.000	90.000	0.300	10014.000	70.346	-0.000	71.679	0.000	70.346	0.000	0.000	71.711	43.396	-1.865	MWD+IFR1+MS
17700.000	90.000	0.300	10014.000	71.069	-0.000	72.410	0.000	71.069	0.000	0.000	72.441	43.428	-1.820	MWD+IFR1+MS
17800.000	90.000	0.300	10014.000	71.794	-0.000	73.144	0.000	71.794	0.000	0.000	73.175	43.460	-1.777	MWD+IFR1+MS
17900.000	90.000	0.300	10014.000	72.519	-0.000	73.881	0.000	72.519	0.000	0.000	73.911	43.492	-1.736	MWD+IFR1+MS
18000.000	90.000	0.300	10014.000	73.247	-0.000	74.621	0.000	73.247	0.000	0.000	74.651	43.525	-1.697	MWD+IFR1+MS
18100.000	90.000	0.300	10014.000	73.975	-0.000	75.365	0.000	73.975	0.000	0.000	75.394	43.559	-1.659	MWD+IFR1+MS
18200.000	90.000	0.300	10014.000	74.704	-0.000	76.111	0.000	74.704	0.000	0.000	76.140	43.592	-1.622	MWD+IFR1+MS
18300.000	90.000	0.300	10014.000	75.435	-0.000	76.860	0.000	75.435	0.000	0.000	76.888	43.627	-1.587	MWD+IFR1+MS
18400.000	90.000	0.300	10014.000	76.166	-0.000	77.612	0.000	76.166	0.000	0.000	77.640	43.662	-1.553	MWD+IFR1+MS
18500.000	90.000	0.300	10014.000	76.899	-0.000	78.367	0.000	76.899	0.000	0.000	78.394	43.697	-1.520	MWD+IFR1+MS
18600.000	90.000	0.300	10014.000	77.633	-0.000	79.124	0.000	77.633	0.000	0.000	79.151	43.733	-1.488	MWD+IFR1+MS
18700.000	90.000	0.300	10014.000	78.367	-0.000	79.884	0.000	78.367	0.000	0.000	79.910	43.769	-1.457	MWD+IFR1+MS
18800.000	90.000	0.300	10014.000	79.103	-0.000	80.646	0.000	79.103	0.000	0.000	80.672	43.806	-1.428	MWD+IFR1+MS
18900.000	90.000	0.300	10014.000	79.839	-0.000	81.411	0.000	79.839	0.000	0.000	81.436	43.843	-1.399	MWD+IFR1+MS
19000.000	90.000	0.300	10014.000	80.577	-0.000	82.178	0.000	80.577	0.000	0.000	82.203	43.880	-1.371	MWD+IFR1+MS
19100.000	90.000	0.300	10014.000	81.315	-0.000	82.947	0.000	81.315	0.000	0.000	82.972	43.918	-1.344	MWD+IFR1+MS

19200.000	90.000	0.300	10014.000	82.055	-0.000	83.719	0.000	82.055	0.000	0.000	83.743	43.957	-1.318	MWD+IFR1+MS
19300.000	90.000	0.300	10014.000	82.795	-0.000	84.492	0.000	82.795	0.000	0.000	84.516	43.996	-1.292	MWD+IFR1+MS
19400.000	90.000	0.300	10014.000	83.535	-0.000	85.268	0.000	83.535	0.000	0.000	85.291	44.035	-1.268	MWD+IFR1+MS
19500.000	90.000	0.300	10014.000	84.277	-0.000	86.046	0.000	84.277	0.000	0.000	86.069	44.075	-1.244	MWD+IFR1+MS
19600.000	90.000	0.300	10014.000	85.020	-0.000	86.825	0.000	85.020	0.000	0.000	86.848	44.116	-1.221	MWD+IFR1+MS
19700.000	90.000	0.300	10014.000	85.763	-0.000	87.607	0.000	85.763	0.000	0.000	87.629	44.157	-1.198	MWD+IFR1+MS
19800.000	90.000	0.300	10014.000	86.507	-0.000	88.391	0.000	86.507	0.000	0.000	88.413	44.198	-1.176	MWD+IFR1+MS
19900.000	90.000	0.300	10014.000	87.251	-0.000	89.176	0.000	87.251	0.000	0.000	89.198	44.240	-1.155	MWD+IFR1+MS
20000.000	90.000	0.300	10014.000	87.997	-0.000	89.963	0.000	87.997	0.000	0.000	89.984	44.282	-1.134	MWD+IFR1+MS
20100.000	90.000	0.300	10014.000	88.743	-0.000	90.752	0.000	88.743	0.000	0.000	90.773	44.325	-1.114	MWD+IFR1+MS
20200.000	90.000	0.300	10014.000	89.489	-0.000	91.542	0.000	89.489	0.000	0.000	91.563	44.368	-1.095	MWD+IFR1+MS
20300.000	90.000	0.300	10014.000	90.237	-0.000	92.335	0.000	90.237	0.000	0.000	92.355	44.412	-1.076	MWD+IFR1+MS
20400.000	90.000	0.300	10014.000	90.985	-0.000	93.128	0.000	90.985	0.000	0.000	93.149	44.456	-1.057	MWD+IFR1+MS
20500.000	90.000	0.300	10014.000	91.733	-0.000	93.924	0.000	91.733	0.000	0.000	93.944	44.500	-1.039	MWD+IFR1+MS
20600.000	90.000	0.300	10014.000	92.482	-0.000	94.721	0.000	92.482	0.000	0.000	94.740	44.545	-1.021	MWD+IFR1+MS
20700.000	90.000	0.300	10014.000	93.232	-0.000	95.519	0.000	93.232	0.000	0.000	95.538	44.591	-1.004	MWD+IFR1+MS
20800.000	90.000	0.300	10014.000	93.983	-0.000	96.319	0.000	93.983	0.000	0.000	96.338	44.637	-0.988	MWD+IFR1+MS
20900.000	90.000	0.300	10014.000	94.733	-0.000	97.120	0.000	94.733	0.000	0.000	97.139	44.683	-0.971	MWD+IFR1+MS
21000.000	90.000	0.300	10014.000	95.485	-0.000	97.922	0.000	95.485	0.000	0.000	97.941	44.730	-0.955	MWD+IFR1+MS
21100.000	90.000	0.300	10014.000	96.237	-0.000	98.726	0.000	96.237	0.000	0.000	98.745	44.777	-0.940	MWD+IFR1+MS
21200.000	90.000	0.300	10014.000	96.989	-0.000	99.531	0.000	96.989	0.000	0.000	99.550	44.825	-0.925	MWD+IFR1+MS
21300.000	90.000	0.300	10014.000	97.742	-0.000	100.338	0.000	97.742	0.000	0.000	100.356	44.873	-0.910	MWD+IFR1+MS
21400.000	90.000	0.300	10014.000	98.496	-0.000	101.146	0.000	98.496	0.000	0.000	101.163	44.922	-0.895	MWD+IFR1+MS
21500.000	90.000	0.300	10014.000	99.250	-0.000	101.955	0.000	99.250	0.000	0.000	101.972	44.971	-0.881	MWD+IFR1+MS
21600.000	90.000	0.300	10014.000	100.004	-0.000	102.765	0.000	100.004	0.000	0.000	102.782	45.020	-0.868	MWD+IFR1+MS
21700.000	90.000	0.300	10014.000	100.759	-0.000	103.576	0.000	100.759	0.000	0.000	103.593	45.070	-0.854	MWD+IFR1+MS
21800.000	90.000	0.300	10014.000	101.515	-0.000	104.388	0.000	101.515	0.000	0.000	104.405	45.121	-0.841	MWD+IFR1+MS
21900.000	90.000	0.300	10014.000	102.270	-0.000	105.202	0.000	102.270	0.000	0.000	105.219	45.171	-0.828	MWD+IFR1+MS
22000.000	90.000	0.300	10014.000	103.027	-0.000	106.017	0.000	103.027	0.000	0.000	106.033	45.223	-0.815	MWD+IFR1+MS
22100.000	90.000	0.300	10014.000	103.783	-0.000	106.832	0.000	103.783	0.000	0.000	106.849	45.274	-0.803	MWD+IFR1+MS
22200.000	90.000	0.300	10014.000	104.540	-0.000	107.649	0.000	104.540	0.000	0.000	107.665	45.326	-0.791	MWD+IFR1+MS
22300.000	90.000	0.300	10014.000	105.298	-0.000	108.467	0.000	105.298	0.000	0.000	108.483	45.379	-0.779	MWD+IFR1+MS
22400.000	90.000	0.300	10014.000	106.056	-0.000	109.285	0.000	106.056	0.000	0.000	109.301	45.432	-0.768	MWD+IFR1+MS

22500.000	90.000	0.300	10014.000	106.814	-0.000	110.105	0.000	106.814	0.000	0.000	110.121	45.485	-0.756	MWD+IFR1+MS
22600.000	90.000	0.300	10014.000	107.573	-0.000	110.926	0.000	107.573	0.000	0.000	110.941	45.539	-0.745	MWD+IFR1+MS
22700.000	90.000	0.300	10014.000	108.332	-0.000	111.747	0.000	108.332	0.000	0.000	111.762	45.594	-0.734	MWD+IFR1+MS
22800.000	90.000	0.300	10014.000	109.091	-0.000	112.570	0.000	109.091	0.000	0.000	112.585	45.648	-0.724	MWD+IFR1+MS
22900.000	90.000	0.300	10014.000	109.851	-0.000	113.393	0.000	109.851	0.000	0.000	113.408	45.703	-0.713	MWD+IFR1+MS
23000.000	90.000	0.300	10014.000	110.611	-0.000	114.217	0.000	110.611	0.000	0.000	114.232	45.759	-0.703	MWD+IFR1+MS
23100.000	90.000	0.300	10014.000	111.371	-0.000	115.042	0.000	111.371	0.000	0.000	115.057	45.815	-0.693	MWD+IFR1+MS
23200.000	90.000	0.300	10014.000	112.132	-0.000	115.868	0.000	112.132	0.000	0.000	115.882	45.871	-0.683	MWD+IFR1+MS
23300.000	90.000	0.300	10014.000	112.893	-0.000	116.695	0.000	112.893	0.000	0.000	116.709	45.928	-0.674	MWD+IFR1+MS
23400.000	90.000	0.300	10014.000	113.655	-0.000	117.522	0.000	113.655	0.000	0.000	117.536	45.985	-0.664	MWD+IFR1+MS
23500.000	90.000	0.300	10014.000	114.416	-0.000	118.350	0.000	114.416	0.000	0.000	118.364	46.043	-0.655	MWD+IFR1+MS
23600.000	90.000	0.300	10014.000	115.179	-0.000	119.179	0.000	115.179	0.000	0.000	119.193	46.101	-0.646	MWD+IFR1+MS
23700.000	90.000	0.300	10014.000	115.941	-0.000	120.009	0.000	115.941	0.000	0.000	120.023	46.159	-0.637	MWD+IFR1+MS
23800.000	90.000	0.300	10014.000	116.704	-0.000	120.839	0.000	116.704	0.000	0.000	120.853	46.218	-0.628	MWD+IFR1+MS
23900.000	90.000	0.300	10014.000	117.466	-0.000	121.671	0.000	117.466	0.000	0.000	121.684	46.277	-0.619	MWD+IFR1+MS
24000.000	90.000	0.300	10014.000	118.230	-0.000	122.502	0.000	118.230	0.000	0.000	122.516	46.337	-0.611	MWD+IFR1+MS
24100.000	90.000	0.300	10014.000	118.993	-0.000	123.335	0.000	118.993	0.000	0.000	123.348	46.397	-0.603	MWD+IFR1+MS
24200.000	90.000	0.300	10014.000	119.757	-0.000	124.168	0.000	119.757	0.000	0.000	124.181	46.458	-0.595	MWD+IFR1+MS
24300.000	90.000	0.300	10014.000	120.521	-0.000	125.002	0.000	120.521	0.000	0.000	125.015	46.519	-0.586	MWD+IFR1+MS
24400.000	90.000	0.300	10014.000	121.285	-0.000	125.837	0.000	121.285	0.000	0.000	125.849	46.580	-0.579	MWD+IFR1+MS
24500.000	90.000	0.300	10014.000	122.050	-0.000	126.672	0.000	122.050	0.000	0.000	126.684	46.642	-0.571	MWD+IFR1+MS
24600.000	90.000	0.300	10014.000	122.815	-0.000	127.507	0.000	122.815	0.000	0.000	127.520	46.704	-0.563	MWD+IFR1+MS
24700.000	90.000	0.300	10014.000	123.580	-0.000	128.344	0.000	123.580	0.000	0.000	128.356	46.766	-0.556	MWD+IFR1+MS
24800.000	90.000	0.300	10014.000	124.345	-0.000	129.181	0.000	124.345	0.000	0.000	129.193	46.829	-0.548	MWD+IFR1+MS
24900.000	90.000	0.300	10014.000	125.111	-0.000	130.018	0.000	125.111	0.000	0.000	130.031	46.892	-0.541	MWD+IFR1+MS
25000.000	90.000	0.300	10014.000	125.877	-0.000	130.857	0.000	125.877	0.000	0.000	130.869	46.956	-0.534	MWD+IFR1+MS
25100.000	90.000	0.300	10014.000	126.643	-0.000	131.695	0.000	126.643	0.000	0.000	131.707	47.020	-0.527	MWD+IFR1+MS
25200.000	90.000	0.300	10014.000	127.409	-0.000	132.534	0.000	127.409	0.000	0.000	132.546	47.084	-0.520	MWD+IFR1+MS
25300.000	90.000	0.300	10014.000	128.175	-0.000	133.374	0.000	128.175	0.000	0.000	133.386	47.149	-0.514	MWD+IFR1+MS
25400.000	90.000	0.300	10014.000	128.942	-0.000	134.215	0.000	128.942	0.000	0.000	134.226	47.214	-0.507	MWD+IFR1+MS
25500.000	90.000	0.300	10014.000	129.709	-0.000	135.055	0.000	129.709	0.000	0.000	135.067	47.280	-0.500	MWD+IFR1+MS
25600.000	90.000	0.300	10014.000	130.476	-0.000	135.897	0.000	130.476	0.000	0.000	135.908	47.346	-0.494	MWD+IFR1+MS
25700.000	90.000	0.300	10014.000	131.244	-0.000	136.739	0.000	131.244	0.000	0.000	136.750	47.412	-0.488	MWD+IFR1+MS

25800.000	90.000	0.300	10014.000	132.011	-0.000	137.581	0.000	132.011	0.000	0.000	137.592	47.479	-0.481	MWD+IFR1+MS
25900.000	90.000	0.300	10014.000	132.779	-0.000	138.424	0.000	132.779	0.000	0.000	138.435	47.546	-0.475	MWD+IFR1+MS
26000.000	90.000	0.300	10014.000	133.547	-0.000	139.267	0.000	133.547	0.000	0.000	139.278	47.614	-0.469	MWD+IFR1+MS
26100.000	90.000	0.300	10014.000	134.315	-0.000	140.111	0.000	134.315	0.000	0.000	140.122	47.682	-0.463	MWD+IFR1+MS
26200.000	90.000	0.300	10014.000	135.083	-0.000	140.955	0.000	135.083	0.000	0.000	140.966	47.750	-0.457	MWD+IFR1+MS
26300.000	90.000	0.300	10014.000	135.852	-0.000	141.800	0.000	135.852	0.000	0.000	141.810	47.818	-0.452	MWD+IFR1+MS
26400.000	90.000	0.300	10014.000	136.621	-0.000	142.645	0.000	136.621	0.000	0.000	142.655	47.887	-0.446	MWD+IFR1+MS
26500.000	90.000	0.300	10014.000	137.389	-0.000	143.490	0.000	137.389	0.000	0.000	143.501	47.957	-0.440	MWD+IFR1+MS
26600.000	90.000	0.300	10014.000	138.159	-0.000	144.336	0.000	138.159	0.000	0.000	144.347	48.026	-0.435	MWD+IFR1+MS
26700.000	90.000	0.300	10014.000	138.928	-0.000	145.183	0.000	138.928	0.000	0.000	145.193	48.097	-0.429	MWD+IFR1+MS
26800.000	90.000	0.300	10014.000	139.697	-0.000	146.029	0.000	139.697	0.000	0.000	146.040	48.167	-0.424	MWD+IFR1+MS
26900.000	90.000	0.300	10014.000	140.467	-0.000	146.877	0.000	140.467	0.000	0.000	146.887	48.238	-0.419	MWD+IFR1+MS
27000.000	90.000	0.300	10014.000	141.237	-0.000	147.724	0.000	141.237	0.000	0.000	147.734	48.309	-0.413	MWD+IFR1+MS
27100.000	90.000	0.300	10014.000	142.006	-0.000	148.572	0.000	142.006	0.000	0.000	148.582	48.381	-0.408	MWD+IFR1+MS
27200.000	90.000	0.300	10014.000	142.777	-0.000	149.421	0.000	142.777	0.000	0.000	149.431	48.452	-0.403	MWD+IFR1+MS
27218.675	90.000	0.300	10014.000	142.920	-0.000	149.579	0.000	142.920	0.000	0.000	149.589	48.466	-0.402	MWD+IFR1+MS
27268.524	90.000	0.300	10014.000	143.304	-0.000	150.001	0.000	143.304	0.000	0.000	150.011	48.502	-0.400	MWD+IFR1+MS

Plan Targets

POKER LAKE UNIT 23 DTD 107H

Target Name	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape
FTP 9	10991.69	440144.50	650464.10	6538.00	RECTANGLE
LTP 9	27218.67	456371.20	650549.00	6538.00	RECTANGLE
BHL 9	27268.68	456421.20	650549.30	6538.00	RECTANGLE

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

XTO Energy Inc.
POKER LAKE UNIT 23 DTD 107H
Projected TD: 27269' MD / 10014' TVD
SHL: 845' FSL & 608' FEL , Section 14, T24S, R30E
BHL: 50' FNL & 1200' FEL , Section 2, T24S, R30E
Eddy County, NM

1. Geologic Name of Surface Formation

A. Quaternary

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

Formation	Well Depth (TVD)	Water/Oil/Gas
Rustler	554'	Water
Top of Salt	862'	Water
Base of Salt	3874'	Water
Delaware	4083'	Water
Brushy Canyon	6298'	Water/Oil/Gas
Bone Spring	7955'	Water
1st Bone Spring Ss	8922'	Water/Oil/Gas
2nd Bone Spring Ss	9708'	Water/Oil/Gas
Target/Land Curve	10014'	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 13.375 inch casing @ 837' (25' above the salt) and circulating cement back to surface. The salt will be isolated by setting 9.625 inch casing at 3974' and circulating cement to surface. The second intermediate will isolate from the salt down to the next casing seat by setting 7.625 inch casing at 9098' and cementing to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 27269 MD/TD and 5.5 inch production casing will be set at TD and cemented back up to 2nd intermediate (estimated TOC 8798 feet) per Potash regulations.

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
17.5	0' – 837'	13.375	54.5	J-55	BTC	New	3.11	3.21	19.93
12.25	0' – 3974'	9.625	40	J-55	BTC	New	1.75	3.06	3.96
8.75	0' – 4074'	7.625	29.7	RY P-110	Flush Joint	New	2.68	2.81	2.07
8.75	4074' – 9098'	7.625	29.7	HC L-80	Flush Joint	New	1.95	3.52	2.72
6.75	0' – 8998'	5.5	23	RY P-110	Semi-Premium	New	1.21	2.83	1.90
6.75	8998' - 27269'	5.5	23	RY P-110	Semi-Flush	New	1.21	2.54	4.00

· 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 and intermediate 1 casing per this Sundry

· XTO requests to not utilize centralizers in the curve and lateral

· 9.625 Collapse analyzed using 50% evacuation based on regional experience.

· 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

· XTO requests the option to use 5" BTC Float equipment for the the production casing

Wellhead:

Permanent Wellhead – Multibowl System

A. Starting Head: 13-5/8" 10M top flange x 13-3/8" bottom

B. Tubing Head: 13-5/8" 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: 13.375, 54.5 New BTC, J-55 casing to be set at +/- 837'

Optional Lead: 560 sxs EconoCem-HLTRRC (mixed at 12.8 ppg, 1.33 ft³/sx, 10.13 gal/sx water)
 Tail: 310 sxs Class C + 2% CaCl (mixed at 14.8 ppg, 1.33 ft³/sx, 6.39 gal/sx water)
 Top of Cement: Surface
 Compressives: 12-hr = 250 psi 24 hr = 500 psi

Due to the high probability of not getting cement to surface during conventional top-out jobs in the area, ~10-20 ppb gravel will be added on the backside of the 1" to get cement to surface, if required.

1st Intermediate Casing: 9.625, 40 New BTC, J-55 casing to be set at +/- 3974'

Lead: 830 sxs Class C (mixed at 14.8 ppg, 2.06 ft³/sx, 10.13 gal/sx water)
 Tail: 60 sxs Class C + 2% CaCl (mixed at 15.6 ppg, 2.06 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 +/- 9098'

1st Stage

Optional Lead: 120 sxs Class C (mixed at 10.5 ppg, 2.77 ft³/sx, 15.59 gal/sx water)
 TOC: 3674
 Tail: 290 sxs Class C (mixed at 14.8 ppg, 1.27 ft³/sx, 6.39 gal/sx water)
 TOC: Brushy Canyon @ 6298
 Compressives: 12-hr = 900 psi 24 hr = 1150 psi

2nd Stage - bradenhead contingency

Tail: 130 sxs Class C (mixed at 14.8 ppg, 2.77 ft³/sx, 6.39 gal/sx water)
 Top of Cement: 3674
 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 Brushy Canyon (6298') and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface.

XTO requests to pump an Optional Lead if well conditions dictate in an attempt to bring cement to surface. 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 wellhead provider 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 +/- 27269'

Lead: 30 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft³/sx, 15.00 gal/sx water) Top of Cement: 8798 feet
 Tail: 1100 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft³/sx, 8.38 gal/sx water) Top of Cement: 9867 feet
 Compressives: 12-hr = 1375 psi 24 hr = 2285 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 13.375 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 3525 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 conducted to at least 50% of the rated working pressure. When nipping up on the 13.375, 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' - 837'	17.5	FW/Native	8.1-8.6	35-40	NC
837' - 3974'	12.25	Brine	8.5-9	30-32	NC
3974' to 9098'	8.75	BDE/OBM or FW/Brine	9-9.5	30-32	NC
9098' to 27269'	6.75	OBM	11-11.5	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 13-3/8" surface casing with brine solution. A 10.0 ppg -10.5 ppg 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 13.375 casing.

8. Logging, Coring and Testing Program

Mud Logger: Mud Logging Unit (2 man) below intermediate casing where necessary. Otherwise, gamma ray will be utilized while actively drilling.

Open hole logging will not be done on this well.

9. Abnormal Pressures and Temperatures / Potential Hazards

None Anticipated. BHT of 165 to 185 F is anticipated. No H2S is expected but monitors will be in place to detect any H2S occurrences. Should these circumstances be encountered the operator and drilling contractor are prepared to take all necessary steps to ensure safety of all personnel and environment. Lost circulation could occur but is not expected to be a serious problem in this area and hole seepage will be compensated for by additions of small amounts of LCM in the drilling fluid. The maximum anticipated bottom hole pressure for this well is 5728 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.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/oed/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 470138

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 470138
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
dmcclure	If cement is not circulated to surface during cementing operations, a Cement Bond Log (CBL) is required.	7/21/2025