

Well Name: POKER LAKE UNIT 20 DTD	Well Location: T24S / R30E / SEC 20 / NENE / 32.209454 / -103.898433	County or Parish/State: EDDY / NM
Well Number: 409H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM02860	Unit or CA Name: POKER LAKE UNIT	Unit or CA Number: NMNM71016X
US Well Number: 3001554821	Operator: XTO PERMIAN OPERATING LLC	

Notice of Intent

Sundry ID: 2855326

Type of Submission: Notice of Intent Type of Action: APD Change

Date Sundry Submitted: 05/29/2025 Time Sundry Submitted: 03:30

Date proposed operation will begin: 05/29/2025

Procedure Description: Effective date 8/22/24 XTO Permian Operating LLC respectfully requests to make the following changes: Pool name & code: f/ WILCAT G-015 S263001O; BONESPRING (97814) t/ PURPLE SAGE; WOLFCAMP (98220) Attachments: Drilling plans and directional surveys that were previously approved under BLM id # 2781347/NMOCD id # 342912. 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_20_DTD_409H_drill_plans_20250529152952.pdf
- POKER_LAKE_UNIT_20_DTD_409H_C102_AMENDED_FINAL_05_22_2025_20250529152900.pdf

Received by OCD: 6/6/2025 10:05:14 AM

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US Well Number: 3001554821	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: MAY 29, 2025 03:30 PM
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: 06/04/2025
Signature: Cody Layton Assistant Field Manager	

Form 3160-5 (June 2019)	UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT	FORM APPROVED OMB No. 1004-0137 Expires: October 31, 2021
SUNDRY NOTICES AND REPORTS ON WELLS <i>Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.</i>		5. Lease Serial No. NMNM02860
		6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2		7. If Unit of CA/Agreement, Name and/or No. POKER LAKE UNIT/NMNM71016X
1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other	8. Well Name and No. POKER LAKE UNIT 20 DTD/409H	
2. Name of Operator XTO PERMIAN OPERATING LLC	9. API Well No. 3001554821	
3a. Address 6401 HOLIDAY HILL ROAD BLDG 5, MIDLAND,	3b. Phone No. (include area code) (432) 683-2277	10. Field and Pool or Exploratory Area Wildcat/Bone Spring
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description) SEC 20/T24S/R30E/NMP		11. 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			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☒ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ 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 recompleate 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 perfonned 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 recompleation 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 8/22/24

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

Pool name & code: f/ WILCAT G-015 S263001O; BONESPRING (97814)

t/ PURPLE SAGE; WOLFCAMP (98220)

Attachments: Drilling plans and directional surveys that were previously approved under BLM id # 2781347/NMOCD id # 342912. 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) 894-0057	Title Regulatory Analyst
Signature (Electronic Submission)	Date 05/29/2025

THE SPACE FOR FEDERAL OR STATE OFFICE USE		
Approved by MARIAH HUGHES / Ph: (575) 234-5972 / Approved	Title Land Law Examiner	Date 06/04/2025
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: NENE / 337 FNL / 608 FEL / TWSP: 24S / RANGE: 30E / SECTION: 20 / LAT: 32.209454 / LONG: -103.898433 (TVD: 0 feet, MD: 0 feet)

PPP: NENE / 100 FNL / 1199 FEL / TWSP: 24S / RANGE: 30E / SECTION: 20 / LAT: 32.210703 / LONG: -103.899829 (TVD: 9517 feet, MD: 9900 feet)

BHL: SESE / 230 FSL / 1005 FEL / TWSP: 25S / RANGE: 30E / SECTION: 5 / LAT: 32.152846 / LONG: -103.89803 (TVD: 9517 feet, MD: 30722 feet)

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

XTO Energy Inc.

PLU 20 Dog Town Draw 409H

Projected TD: 32427.89' MD / 11835' TVD

SHL: 337' FNL & 608' FEL , Section 20, T24S, R30E

BHL: 230' FSL & 1005' FEL , Section 5, T25S, 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	929'	Water
Top of Salt	1332'	Water
Base of Salt	3525'	Water
Delaware	3719'	Water
Brushy Canyon	6217'	Water/Oil/Gas
Bone Spring	7513'	Water
1st Bone Spring	8499'	Water/Oil/Gas
2nd Bone Spring	9317'	Water/Oil/Gas
3rd Bone Spring	10411'	Water/Oil/Gas
Target/Land Curve	11835'	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 @ 1029' (303' 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 9.625 inch casing at 10956.22' and cemented to surface. A 8.5 inch curve and 8.5 inch lateral hole will be drilled to 32427.89 MD/TD and 6 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 10656.22 feet).

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
17.5	0' – 1029'	13.375	54.5	J-55	BTC	New	1.05	2.51	16.21
12.25	0' – 4000'	9.625	40	HC P-110	BTC	New	1.48	2.31	2.89
12.25	4000' – 10956.22'	9.625	40	HC L-80	BTC	New	1.08	1.60	3.29
8.5	0' – 10856.22'	6	26	P-110	Semi-Premium	New	1.17	1.86	1.48
8.5	10856.22' - 32427.89'	6	26	P-110	Semi-Premium	New	1.17	1.71	1.67

- 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
- 9.625 Collapse analyzed using 50% evacuation based on regional experience.
- 6 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 5.5" 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" SOW bottom (or equivalent)

B. Tubing Head: 13-5/8" 10M bottom flange x 7-1/16" 15M top flange (or equivalent)

- Wellhead will be installed by manufacturer's representatives.
- Manufacturer will monitor welding process to ensure appropriate temperature of seal.
- Operator will test the 9-5/8" 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 +/- 1029'

Lead: 540 sxs EconoCem-HLTRRC (mixed at 10.5 ppg, 1.87 ft³/sx, 10.13 gal/sx water)

Tail: 300 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: 9.625, 40 New casing to be set at +/- 10956.22'

1st Stage

Optional Lead: 1050 sxs Class C (mixed at 10.5 ppg, 2.77 ft³/sx, 15.59 gal/sx water)

TOC: Surface

Tail: 1370 sxs Class C (mixed at 14.8 ppg, 1.35 ft³/sx, 6.39 gal/sx water)

TOC: Brushy Canyon @ 6217

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: 2190 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 9-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brush Canyon (6217') and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If cement is not visually confirmed to circulate to surface, the final cement top after the second stage job will be verified by Echo-meter. If necessary, a top out consisting of 1,500 sack of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. If cement is still unable to circulate to surface, another Echo-meter run will be performed for cement top verification.

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

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

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

Production Casing: 6, 26 New Semi-Premium, P-110 casing to be set at +/- 32427.89'

Lead: 40 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft³/sx, 15.00 gal/sx water) Top of Cement: 10656.22 feet

Tail: 3620 sxs VersaCem (mixed at 14.8 ppg, 1.51 ft³/sx, 8.38 gal/sx water) Top of Cement: 11156.22 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 13.375 casing, the blow out preventer equipment (BOP) will consist of a 13-5/8" minimum 10M Hydril and a 13-5/8" minimum 10M Double Ram BOP. MASP should not exceed 5335 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 13.375, 10M bradenhead and flange, the BOP test will be limited to 10000 psi. When nipping up on the 9.625, the BOP will be tested to a minimum of 10000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 10M BOP diagrams are attached. Blind rams will be functioned tested each trip, pipe rams will be functioned tested each week.

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' - 1029'	17.5	FW/Native	8.4-8.9	35-40	NC
1029' - 10956.22'	12.25	FW / Cut Brine / Direct Emulsion	8.8-9.3	30-32	NC
10956.22' - 32427.89'	8.5	OBM	12.9-13.4	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 13.375 casing.

8. Logging, Coring and Testing Program

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 7939 psi.

10. Anticipated Starting Date and Duration of Operations

Anticipated spud date will be after BLM approval. Move in operations and drilling is expected to take 40 days.

Well Plan Report - Poker Lake Unit 20 DTD South 409H

Measured Depth: 32427.89 ft

TVD RKB: 11835.00 ft

Location

Cartographic Reference System: New Mexico East - NAD 27

Northing: 440171.60 ft

Easting: 635150.60 ft

RKB: 3322.00 ft

Ground Level: 3290.00 ft

North Reference: Grid

Convergence Angle: 0.23 Deg

Plan Sections

Poker Lake Unit 20 DTD South 409H

Measured	TVD				Build	Turn	Dogleg	Target
Depth	Inclination	Azimuth	RKB	Y Offset	X Offset	Rate	Rate	
(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
1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	0.00
1444.62	6.89	291.31	1443.79	7.52	-19.29	2.00	0.00	2.00
6392.80	6.89	291.31	6356.21	223.28	-572.51	0.00	0.00	0.00
6737.42	0.00	0.00	6700.00	230.80	-591.80	-2.00	0.00	2.00
11156.22	0.00	0.00	11118.80	230.80	-591.80	0.00	0.00	0.00
12281.22	90.00	179.68	11835.00	-485.39	-587.76	8.00	0.00	8.00
12281.24	90.00	179.68	11835.00	-485.41	-587.76	0.00	0.00	0.00
28325.99	90.00	179.68	11835.00	-16529.90	-497.20	0.00	0.00	0.00 MP1 409H
28706.04	90.00	172.08	11835.00	-16908.69	-469.89	-0.00	-2.00	2.00
29966.69	90.00	172.08	11835.00	-18157.30	-296.10	0.00	0.00	0.00 MP2 409H
30383.78	90.00	180.42	11835.00	-18573.13	-268.82	0.00	2.00	2.00
32327.80	90.00	180.42	11835.00	-20517.10	-283.00	0.00	0.00	0.00 LTP 22

32427.89 90.00 180.42 11835.00 -20617.18 -283.73 0.00 0.00 0.00 BHL 22

Position Uncertainty

Poker Lake Unit 20 DTD South 409H

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	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	2.309	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	2.325	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	2.374	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	2.406	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	2.443	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	2.484	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	2.530	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	2.580	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	2.633	0.000	0.000	4.752	3.849	128.859	MWD+IFR1+MS
1200.000	2.000	291.306	1199.980	4.392	0.000	5.024	0.000	2.689	0.000	0.000	5.060	4.353	124.733	MWD+IFR1+MS
1300.000	4.000	291.306	1299.838	5.261	0.000	5.358	0.000	2.749	0.000	0.000	5.359	5.268	114.490	MWD+IFR1+MS
1400.000	6.000	291.306	1399.452	6.020	0.000	5.696	0.000	2.814	0.000	0.000	6.072	5.657	38.811	MWD+IFR1+MS
1444.620	6.892	291.306	1443.789	6.185	0.000	5.837	0.000	2.840	0.000	0.000	6.248	5.794	38.793	MWD+IFR1+MS
1500.000	6.892	291.306	1498.769	6.354	0.000	6.012	0.000	2.875	0.000	0.000	6.420	5.966	39.447	MWD+IFR1+MS
1600.000	6.892	291.306	1598.047	6.661	0.000	6.346	0.000	2.944	0.000	0.000	6.737	6.287	42.050	MWD+IFR1+MS
1700.000	6.892	291.306	1697.324	6.984	0.000	6.693	0.000	3.017	0.000	0.000	7.078	6.614	45.341	MWD+IFR1+MS
1800.000	6.892	291.306	1796.601	7.312	0.000	7.043	0.000	3.091	0.000	0.000	7.424	6.942	48.139	MWD+IFR1+MS
1900.000	6.892	291.306	1895.879	7.643	0.000	7.395	0.000	3.168	0.000	0.000	7.774	7.272	50.505	MWD+IFR1+MS
2000.000	6.892	291.306	1995.156	7.978	0.000	7.747	0.000	3.248	0.000	0.000	8.127	7.603	52.504	MWD+IFR1+MS
2100.000	6.892	291.306	2094.433	8.315	0.000	8.101	0.000	3.329	0.000	0.000	8.482	7.936	54.200	MWD+IFR1+MS
2200.000	6.892	291.306	2193.711	8.655	0.000	8.456	0.000	3.413	0.000	0.000	8.839	8.271	55.647	MWD+IFR1+MS
2300.000	6.892	291.306	2292.988	8.997	0.000	8.812	0.000	3.498	0.000	0.000	9.197	8.608	56.889	MWD+IFR1+MS
2400.000	6.892	291.306	2392.265	9.342	0.000	9.169	0.000	3.585	0.000	0.000	9.556	8.947	57.962	MWD+IFR1+MS
2500.000	6.892	291.306	2491.542	9.687	0.000	9.526	0.000	3.674	0.000	0.000	9.917	9.287	58.897	MWD+IFR1+MS

2600.000	6.892	291.306	2590.820	10.035	0.000	9.884	0.000	3.764	0.000	0.000	10.278	9.628	59.716	MWD+IFR1+MS
2700.000	6.892	291.306	2690.097	10.384	0.000	10.243	0.000	3.856	0.000	0.000	10.640	9.971	60.439	MWD+IFR1+MS
2800.000	6.892	291.306	2789.374	10.734	0.000	10.602	0.000	3.949	0.000	0.000	11.002	10.316	61.079	MWD+IFR1+MS
2900.000	6.892	291.306	2888.652	11.086	0.000	10.962	0.000	4.044	0.000	0.000	11.365	10.661	61.651	MWD+IFR1+MS
3000.000	6.892	291.306	2987.929	11.439	0.000	11.322	0.000	4.141	0.000	0.000	11.729	11.008	62.163	MWD+IFR1+MS
3100.000	6.892	291.306	3087.206	11.792	0.000	11.682	0.000	4.239	0.000	0.000	12.093	11.355	62.624	MWD+IFR1+MS
3200.000	6.892	291.306	3186.484	12.146	0.000	12.043	0.000	4.338	0.000	0.000	12.457	11.703	63.041	MWD+IFR1+MS
3300.000	6.892	291.306	3285.761	12.502	0.000	12.404	0.000	4.439	0.000	0.000	12.821	12.053	63.420	MWD+IFR1+MS
3400.000	6.892	291.306	3385.038	12.858	0.000	12.766	0.000	4.541	0.000	0.000	13.186	12.403	63.765	MWD+IFR1+MS
3500.000	6.892	291.306	3484.316	13.214	0.000	13.127	0.000	4.644	0.000	0.000	13.551	12.754	64.080	MWD+IFR1+MS
3600.000	6.892	291.306	3583.593	13.572	0.000	13.489	0.000	4.749	0.000	0.000	13.916	13.105	64.370	MWD+IFR1+MS
3700.000	6.892	291.306	3682.870	13.930	0.000	13.851	0.000	4.856	0.000	0.000	14.281	13.458	64.636	MWD+IFR1+MS
3800.000	6.892	291.306	3782.148	14.288	0.000	14.214	0.000	4.964	0.000	0.000	14.646	13.810	64.882	MWD+IFR1+MS
3900.000	6.892	291.306	3881.425	14.647	0.000	14.576	0.000	5.073	0.000	0.000	15.012	14.164	65.109	MWD+IFR1+MS
4000.000	6.892	291.306	3980.702	15.006	0.000	14.939	0.000	5.184	0.000	0.000	15.378	14.518	65.320	MWD+IFR1+MS
4100.000	6.892	291.306	4079.980	15.366	0.000	15.302	0.000	5.297	0.000	0.000	15.744	14.872	65.516	MWD+IFR1+MS
4200.000	6.892	291.306	4179.257	15.726	0.000	15.665	0.000	5.411	0.000	0.000	16.110	15.227	65.698	MWD+IFR1+MS
4300.000	6.892	291.306	4278.534	16.087	0.000	16.028	0.000	5.527	0.000	0.000	16.476	15.582	65.868	MWD+IFR1+MS
4400.000	6.892	291.306	4377.812	16.448	0.000	16.392	0.000	5.644	0.000	0.000	16.842	15.938	66.026	MWD+IFR1+MS
4500.000	6.892	291.306	4477.089	16.809	0.000	16.755	0.000	5.763	0.000	0.000	17.208	16.294	66.175	MWD+IFR1+MS
4600.000	6.892	291.306	4576.366	17.171	0.000	17.119	0.000	5.883	0.000	0.000	17.575	16.650	66.314	MWD+IFR1+MS
4700.000	6.892	291.306	4675.644	17.533	0.000	17.483	0.000	6.006	0.000	0.000	17.941	17.007	66.444	MWD+IFR1+MS
4800.000	6.892	291.306	4774.921	17.895	0.000	17.846	0.000	6.130	0.000	0.000	18.308	17.364	66.567	MWD+IFR1+MS
4900.000	6.892	291.306	4874.198	18.257	0.000	18.210	0.000	6.255	0.000	0.000	18.674	17.721	66.682	MWD+IFR1+MS
5000.000	6.892	291.306	4973.476	18.620	0.000	18.574	0.000	6.383	0.000	0.000	19.041	18.079	66.790	MWD+IFR1+MS
5100.000	6.892	291.306	5072.753	18.983	0.000	18.938	0.000	6.512	0.000	0.000	19.408	18.437	66.893	MWD+IFR1+MS
5200.000	6.892	291.306	5172.030	19.346	0.000	19.303	0.000	6.643	0.000	0.000	19.775	18.795	66.989	MWD+IFR1+MS
5300.000	6.892	291.306	5271.308	19.709	0.000	19.667	0.000	6.776	0.000	0.000	20.141	19.153	67.080	MWD+IFR1+MS
5400.000	6.892	291.306	5370.585	20.072	0.000	20.031	0.000	6.911	0.000	0.000	20.508	19.512	67.166	MWD+IFR1+MS
5500.000	6.892	291.306	5469.862	20.436	0.000	20.396	0.000	7.048	0.000	0.000	20.875	19.870	67.248	MWD+IFR1+MS
5600.000	6.892	291.306	5569.140	20.800	0.000	20.760	0.000	7.187	0.000	0.000	21.242	20.229	67.325	MWD+IFR1+MS
5700.000	6.892	291.306	5668.417	21.164	0.000	21.125	0.000	7.328	0.000	0.000	21.609	20.588	67.397	MWD+IFR1+MS
5800.000	6.892	291.306	5767.694	21.528	0.000	21.489	0.000	7.471	0.000	0.000	21.977	20.948	67.466	MWD+IFR1+MS

5900.000	6.892	291.306	5866.972	21.892	0.000	21.854	0.000	7.616	0.000	0.000	22.344	21.307	67.532	MWD+IFR1+MS
6000.000	6.892	291.306	5966.249	22.256	0.000	22.218	0.000	7.763	0.000	0.000	22.711	21.667	67.593	MWD+IFR1+MS
6100.000	6.892	291.306	6065.526	22.621	0.000	22.583	0.000	7.912	0.000	0.000	23.078	22.027	67.652	MWD+IFR1+MS
6200.000	6.892	291.306	6164.804	22.986	0.000	22.948	0.000	8.063	0.000	0.000	23.445	22.387	67.708	MWD+IFR1+MS
6300.000	6.892	291.306	6264.081	23.350	0.000	23.313	0.000	8.217	0.000	0.000	23.813	22.747	67.760	MWD+IFR1+MS
6392.800	6.892	291.306	6356.211	23.688	0.000	23.651	0.000	8.361	0.000	0.000	24.152	23.081	67.809	MWD+IFR1+MS
6400.000	6.748	291.306	6363.359	23.715	0.000	23.676	0.000	8.373	0.000	0.000	24.177	23.107	67.814	MWD+IFR1+MS
6500.000	4.748	291.306	6462.851	24.104	0.000	24.034	0.000	8.531	0.000	0.000	24.552	23.475	67.058	MWD+IFR1+MS
6600.000	2.748	291.306	6562.632	24.541	0.000	24.392	0.000	8.689	0.000	0.000	24.984	23.860	64.446	MWD+IFR1+MS
6700.000	0.748	291.306	6662.581	24.943	0.000	24.746	0.000	8.845	0.000	0.000	25.414	24.236	62.126	MWD+IFR1+MS
6737.420	0.000	0.000	6700.000	25.291	0.000	24.628	0.000	8.903	0.000	0.000	25.544	24.365	62.127	MWD+IFR1+MS
6800.000	0.000	0.000	6762.580	25.503	0.000	24.839	0.000	9.000	0.000	0.000	25.751	24.582	62.313	MWD+IFR1+MS
6900.000	0.000	0.000	6862.580	25.842	0.000	25.180	0.000	9.157	0.000	0.000	26.080	24.932	62.604	MWD+IFR1+MS
7000.000	0.000	0.000	6962.580	26.183	0.000	25.524	0.000	9.316	0.000	0.000	26.411	25.287	62.968	MWD+IFR1+MS
7100.000	0.000	0.000	7062.580	26.525	0.000	25.868	0.000	9.479	0.000	0.000	26.743	25.642	63.338	MWD+IFR1+MS
7200.000	0.000	0.000	7162.580	26.868	0.000	26.213	0.000	9.643	0.000	0.000	27.076	25.998	63.713	MWD+IFR1+MS
7300.000	0.000	0.000	7262.580	27.211	0.000	26.558	0.000	9.811	0.000	0.000	27.409	26.353	64.095	MWD+IFR1+MS
7400.000	0.000	0.000	7362.580	27.554	0.000	26.903	0.000	9.981	0.000	0.000	27.743	26.708	64.482	MWD+IFR1+MS
7500.000	0.000	0.000	7462.580	27.898	0.000	27.249	0.000	10.154	0.000	0.000	28.078	27.063	64.875	MWD+IFR1+MS
7600.000	0.000	0.000	7562.580	28.242	0.000	27.595	0.000	10.330	0.000	0.000	28.413	27.418	65.273	MWD+IFR1+MS
7700.000	0.000	0.000	7662.580	28.586	0.000	27.941	0.000	10.509	0.000	0.000	28.750	27.773	65.677	MWD+IFR1+MS
7800.000	0.000	0.000	7762.580	28.931	0.000	28.288	0.000	10.690	0.000	0.000	29.086	28.128	66.087	MWD+IFR1+MS
7900.000	0.000	0.000	7862.580	29.276	0.000	28.635	0.000	10.874	0.000	0.000	29.424	28.483	66.502	MWD+IFR1+MS
8000.000	0.000	0.000	7962.580	29.622	0.000	28.982	0.000	11.061	0.000	0.000	29.761	28.838	66.923	MWD+IFR1+MS
8100.000	0.000	0.000	8062.580	29.967	0.000	29.330	0.000	11.251	0.000	0.000	30.100	29.193	67.349	MWD+IFR1+MS
8200.000	0.000	0.000	8162.580	30.313	0.000	29.677	0.000	11.444	0.000	0.000	30.439	29.548	67.781	MWD+IFR1+MS
8300.000	0.000	0.000	8262.580	30.660	0.000	30.025	0.000	11.639	0.000	0.000	30.779	29.903	68.218	MWD+IFR1+MS
8400.000	0.000	0.000	8362.580	31.006	0.000	30.374	0.000	11.838	0.000	0.000	31.119	30.258	68.660	MWD+IFR1+MS
8500.000	0.000	0.000	8462.580	31.353	0.000	30.722	0.000	12.039	0.000	0.000	31.459	30.613	69.107	MWD+IFR1+MS
8600.000	0.000	0.000	8562.580	31.700	0.000	31.071	0.000	12.243	0.000	0.000	31.800	30.968	69.558	MWD+IFR1+MS
8700.000	0.000	0.000	8662.580	32.047	0.000	31.420	0.000	12.450	0.000	0.000	32.142	31.323	70.015	MWD+IFR1+MS
8800.000	0.000	0.000	8762.580	32.395	0.000	31.769	0.000	12.660	0.000	0.000	32.484	31.678	70.476	MWD+IFR1+MS
8900.000	0.000	0.000	8862.580	32.743	0.000	32.118	0.000	12.873	0.000	0.000	32.827	32.033	70.942	MWD+IFR1+MS

9000.000	0.000	0.000	8962.580	33.091	0.000	32.468	0.000	13.089	0.000	0.000	33.170	32.388	71.411	MWD+IFR1+MS
9100.000	0.000	0.000	9062.580	33.439	0.000	32.818	0.000	13.308	0.000	0.000	33.513	32.742	71.885	MWD+IFR1+MS
9200.000	0.000	0.000	9162.580	33.788	0.000	33.168	0.000	13.530	0.000	0.000	33.857	33.097	72.362	MWD+IFR1+MS
9300.000	0.000	0.000	9262.580	34.136	0.000	33.518	0.000	13.754	0.000	0.000	34.201	33.452	72.844	MWD+IFR1+MS
9400.000	0.000	0.000	9362.580	34.485	0.000	33.868	0.000	13.982	0.000	0.000	34.545	33.807	73.328	MWD+IFR1+MS
9500.000	0.000	0.000	9462.580	34.834	0.000	34.219	0.000	14.213	0.000	0.000	34.890	34.161	73.816	MWD+IFR1+MS
9600.000	0.000	0.000	9562.580	35.184	0.000	34.569	0.000	14.446	0.000	0.000	35.236	34.516	74.306	MWD+IFR1+MS
9700.000	0.000	0.000	9662.580	35.533	0.000	34.920	0.000	14.683	0.000	0.000	35.582	34.871	74.799	MWD+IFR1+MS
9800.000	0.000	0.000	9762.580	35.883	0.000	35.271	0.000	14.923	0.000	0.000	35.928	35.225	75.294	MWD+IFR1+MS
9900.000	0.000	0.000	9862.580	36.233	0.000	35.622	0.000	15.165	0.000	0.000	36.274	35.580	75.791	MWD+IFR1+MS
10000.000	0.000	0.000	9962.580	36.583	0.000	35.973	0.000	15.411	0.000	0.000	36.621	35.934	76.290	MWD+IFR1+MS
10100.000	0.000	0.000	10062.580	36.933	0.000	36.325	0.000	15.660	0.000	0.000	36.968	36.289	76.791	MWD+IFR1+MS
10200.000	0.000	0.000	10162.580	37.283	0.000	36.676	0.000	15.912	0.000	0.000	37.315	36.643	77.292	MWD+IFR1+MS
10300.000	0.000	0.000	10262.580	37.633	0.000	37.028	0.000	16.166	0.000	0.000	37.663	36.998	77.795	MWD+IFR1+MS
10400.000	0.000	0.000	10362.580	37.984	0.000	37.380	0.000	16.424	0.000	0.000	38.011	37.352	78.297	MWD+IFR1+MS
10500.000	0.000	0.000	10462.580	38.335	0.000	37.732	0.000	16.685	0.000	0.000	38.359	37.707	78.801	MWD+IFR1+MS
10600.000	0.000	0.000	10562.580	38.686	0.000	38.084	0.000	16.949	0.000	0.000	38.708	38.061	79.304	MWD+IFR1+MS
10700.000	0.000	0.000	10662.580	39.037	0.000	38.436	0.000	17.216	0.000	0.000	39.057	38.415	79.806	MWD+IFR1+MS
10800.000	0.000	0.000	10762.580	39.388	0.000	38.788	0.000	17.486	0.000	0.000	39.406	38.770	80.308	MWD+IFR1+MS
10900.000	0.000	0.000	10862.580	39.739	0.000	39.140	0.000	17.759	0.000	0.000	39.755	39.124	80.809	MWD+IFR1+MS
11000.000	0.000	0.000	10962.580	40.091	0.000	39.493	0.000	18.035	0.000	0.000	40.105	39.478	81.308	MWD+IFR1+MS
11100.000	0.000	0.000	11062.580	40.442	0.000	39.845	0.000	18.314	0.000	0.000	40.455	39.833	81.806	MWD+IFR1+MS
11156.220	0.000	0.000	11118.800	40.638	0.000	40.042	0.000	18.472	0.000	0.000	40.650	40.030	81.938	MWD+IFR1+MS
11200.000	3.502	179.677	11162.552	40.681	0.000	40.187	-0.000	18.596	0.000	0.000	40.804	40.176	82.068	MWD+IFR1+MS
11300.000	11.502	179.677	11261.616	40.838	0.000	40.504	-0.000	18.902	0.000	0.000	41.632	40.502	87.411	MWD+IFR1+MS
11400.000	19.502	179.677	11357.900	40.890	0.000	40.810	-0.000	19.327	0.000	0.000	42.867	40.810	90.333	MWD+IFR1+MS
11500.000	27.502	179.677	11449.529	40.367	0.000	41.098	-0.000	19.920	0.000	0.000	43.961	41.095	91.412	MWD+IFR1+MS
11600.000	35.502	179.677	11534.722	39.337	0.000	41.365	-0.000	20.720	0.000	0.000	44.891	41.359	92.006	MWD+IFR1+MS
11700.000	43.502	179.677	11611.819	37.899	0.000	41.610	-0.000	21.737	0.000	0.000	45.644	41.600	92.399	MWD+IFR1+MS
11800.000	51.502	179.677	11679.320	36.185	0.000	41.829	-0.000	22.958	0.000	0.000	46.219	41.816	92.682	MWD+IFR1+MS
11900.000	59.502	179.677	11735.911	34.364	0.000	42.021	-0.000	24.351	0.000	0.000	46.627	42.006	92.883	MWD+IFR1+MS
12000.000	67.502	179.677	11780.491	32.643	0.000	42.186	-0.000	25.870	0.000	0.000	46.885	42.170	92.999	MWD+IFR1+MS
12100.000	75.502	179.677	11812.192	31.260	0.000	42.323	-0.000	27.461	0.000	0.000	47.022	42.306	93.014	MWD+IFR1+MS

12200.000	83.502	179.677	11830.397	30.452	0.000	42.429	-0.000	29.070	0.000	0.000	47.073	42.413	92.894	MWD+IFR1+MS
12281.220	90.000	179.677	11834.997	29.968	0.000	42.491	-0.000	29.968	0.000	0.000	47.081	42.477	92.661	MWD+IFR1+MS
12281.240	90.000	179.677	11834.997	29.968	0.000	42.491	-0.000	29.968	0.000	0.000	47.082	42.477	92.660	MWD+IFR1+MS
12300.000	90.000	179.677	11834.997	29.993	0.000	42.502	-0.000	29.993	0.000	0.000	47.082	42.489	92.593	MWD+IFR1+MS
12400.000	90.000	179.677	11834.997	30.140	0.000	42.574	-0.000	30.140	0.000	0.000	47.085	42.564	92.236	MWD+IFR1+MS
12500.000	90.000	179.677	11834.997	30.310	0.000	42.662	-0.000	30.310	0.000	0.000	47.089	42.656	91.875	MWD+IFR1+MS
12600.000	90.000	179.677	11834.997	30.499	0.000	42.764	-0.000	30.499	0.000	0.000	47.094	42.760	91.506	MWD+IFR1+MS
12700.000	90.000	179.677	11834.997	30.708	0.000	42.880	-0.000	30.708	0.000	0.000	47.099	42.877	91.125	MWD+IFR1+MS
12800.000	90.000	179.677	11834.997	30.934	0.000	43.009	-0.000	30.934	0.000	0.000	47.106	43.007	90.727	MWD+IFR1+MS
12900.000	90.000	179.677	11834.997	31.179	0.000	43.151	-0.000	31.179	0.000	0.000	47.114	43.150	90.308	MWD+IFR1+MS
13000.000	90.000	179.677	11834.997	31.442	0.000	43.306	-0.000	31.442	0.000	0.000	47.123	43.305	89.862	MWD+IFR1+MS
13100.000	90.000	179.677	11834.997	31.722	0.000	43.473	-0.000	31.722	0.000	0.000	47.133	43.473	89.381	MWD+IFR1+MS
13200.000	90.000	179.677	11834.997	32.019	0.000	43.654	-0.000	32.019	0.000	0.000	47.144	43.653	88.856	MWD+IFR1+MS
13300.000	90.000	179.677	11834.997	32.332	0.000	43.848	-0.000	32.332	0.000	0.000	47.156	43.846	88.276	MWD+IFR1+MS
13400.000	90.000	179.677	11834.997	32.661	0.000	44.053	-0.000	32.661	0.000	0.000	47.170	44.049	87.624	MWD+IFR1+MS
13500.000	90.000	179.677	11834.997	33.005	0.000	44.271	-0.000	33.005	0.000	0.000	47.185	44.264	86.880	MWD+IFR1+MS
13600.000	90.000	179.677	11834.997	33.364	0.000	44.502	-0.000	33.364	0.000	0.000	47.202	44.490	86.016	MWD+IFR1+MS
13700.000	90.000	179.677	11834.997	33.738	0.000	44.744	-0.000	33.738	0.000	0.000	47.221	44.727	84.992	MWD+IFR1+MS
13800.000	90.000	179.677	11834.997	34.125	0.000	44.998	-0.000	34.125	0.000	0.000	47.243	44.973	83.751	MWD+IFR1+MS
13900.000	90.000	179.677	11834.997	34.526	0.000	45.263	-0.000	34.526	0.000	0.000	47.268	45.228	82.207	MWD+IFR1+MS
14000.000	90.000	179.677	11834.997	34.940	0.000	45.540	-0.000	34.940	0.000	0.000	47.297	45.490	80.230	MWD+IFR1+MS
14100.000	90.000	179.677	11834.997	35.367	0.000	45.828	-0.000	35.367	0.000	0.000	47.333	45.758	77.615	MWD+IFR1+MS
14200.000	90.000	179.677	11834.997	35.806	0.000	46.126	-0.000	35.806	0.000	0.000	47.379	46.027	74.037	MWD+IFR1+MS
14300.000	90.000	179.677	11834.997	36.256	0.000	46.436	-0.000	36.256	0.000	0.000	47.442	46.291	69.005	MWD+IFR1+MS
14400.000	90.000	179.677	11834.997	36.718	0.000	46.756	-0.000	36.718	0.000	0.000	47.531	46.539	61.931	MWD+IFR1+MS
14500.000	90.000	179.677	11834.997	37.191	0.000	47.086	-0.000	37.191	0.000	0.000	47.664	46.754	52.668	MWD+IFR1+MS
14600.000	90.000	179.677	11834.997	37.674	0.000	47.426	-0.000	37.674	0.000	0.000	47.855	46.922	42.507	MWD+IFR1+MS
14700.000	90.000	179.677	11834.997	38.167	0.000	47.776	-0.000	38.167	0.000	0.000	48.106	47.041	33.619	MWD+IFR1+MS
14800.000	90.000	179.677	11834.997	38.669	0.000	48.136	-0.000	38.669	0.000	0.000	48.402	47.124	26.979	MWD+IFR1+MS
14900.000	90.000	179.677	11834.997	39.181	0.000	48.505	-0.000	39.181	0.000	0.000	48.730	47.185	22.284	MWD+IFR1+MS
15000.000	90.000	179.677	11834.997	39.702	0.000	48.883	-0.000	39.702	0.000	0.000	49.081	47.234	18.941	MWD+IFR1+MS
15100.000	90.000	179.677	11834.997	40.231	0.000	49.271	-0.000	40.231	0.000	0.000	49.449	47.275	16.494	MWD+IFR1+MS
15200.000	90.000	179.677	11834.997	40.769	0.000	49.667	-0.000	40.769	0.000	0.000	49.831	47.311	14.643	MWD+IFR1+MS

15300.000	90.000	179.677	11834.997	41.314	0.000	50.072	-0.000	41.314	0.000	0.000	50.225	47.345	13.202	MWD+IFR1+MS
15400.000	90.000	179.677	11834.997	41.868	0.000	50.485	-0.000	41.868	0.000	0.000	50.629	47.376	12.050	MWD+IFR1+MS
15500.000	90.000	179.677	11834.997	42.428	0.000	50.906	-0.000	42.428	0.000	0.000	51.044	47.407	11.109	MWD+IFR1+MS
15600.000	90.000	179.677	11834.997	42.995	0.000	51.335	-0.000	42.995	0.000	0.000	51.467	47.437	10.325	MWD+IFR1+MS
15700.000	90.000	179.677	11834.997	43.570	0.000	51.772	-0.000	43.570	0.000	0.000	51.900	47.467	9.661	MWD+IFR1+MS
15800.000	90.000	179.677	11834.997	44.150	0.000	52.216	-0.000	44.150	0.000	0.000	52.340	47.497	9.092	MWD+IFR1+MS
15900.000	90.000	179.677	11834.997	44.737	0.000	52.668	-0.000	44.737	0.000	0.000	52.789	47.527	8.597	MWD+IFR1+MS
16000.000	90.000	179.677	11834.997	45.330	0.000	53.127	-0.000	45.330	0.000	0.000	53.245	47.557	8.163	MWD+IFR1+MS
16100.000	90.000	179.677	11834.997	45.929	0.000	53.594	-0.000	45.929	0.000	0.000	53.708	47.587	7.778	MWD+IFR1+MS
16200.000	90.000	179.677	11834.997	46.533	0.000	54.066	-0.000	46.533	0.000	0.000	54.179	47.617	7.435	MWD+IFR1+MS
16300.000	90.000	179.677	11834.997	47.142	0.000	54.546	-0.000	47.142	0.000	0.000	54.656	47.648	7.126	MWD+IFR1+MS
16400.000	90.000	179.677	11834.997	47.757	0.000	55.032	-0.000	47.757	0.000	0.000	55.140	47.679	6.846	MWD+IFR1+MS
16500.000	90.000	179.677	11834.997	48.377	0.000	55.524	-0.000	48.377	0.000	0.000	55.631	47.711	6.591	MWD+IFR1+MS
16600.000	90.000	179.677	11834.997	49.001	0.000	56.023	-0.000	49.001	0.000	0.000	56.128	47.743	6.358	MWD+IFR1+MS
16700.000	90.000	179.677	11834.997	49.630	0.000	56.527	-0.000	49.630	0.000	0.000	56.631	47.775	6.144	MWD+IFR1+MS
16800.000	90.000	179.677	11834.997	50.263	0.000	57.038	-0.000	50.263	0.000	0.000	57.140	47.808	5.946	MWD+IFR1+MS
16900.000	90.000	179.677	11834.997	50.901	0.000	57.553	-0.000	50.901	0.000	0.000	57.654	47.842	5.763	MWD+IFR1+MS
17000.000	90.000	179.677	11834.997	51.542	0.000	58.075	-0.000	51.542	0.000	0.000	58.175	47.876	5.592	MWD+IFR1+MS
17100.000	90.000	179.677	11834.997	52.187	0.000	58.602	-0.000	52.187	0.000	0.000	58.700	47.911	5.433	MWD+IFR1+MS
17200.000	90.000	179.677	11834.997	52.837	0.000	59.134	-0.000	52.837	0.000	0.000	59.231	47.946	5.284	MWD+IFR1+MS
17300.000	90.000	179.677	11834.997	53.490	0.000	59.671	-0.000	53.490	0.000	0.000	59.767	47.981	5.144	MWD+IFR1+MS
17400.000	90.000	179.677	11834.997	54.146	0.000	60.213	-0.000	54.146	0.000	0.000	60.308	48.018	5.012	MWD+IFR1+MS
17500.000	90.000	179.677	11834.997	54.806	0.000	60.760	-0.000	54.806	0.000	0.000	60.854	48.054	4.888	MWD+IFR1+MS
17600.000	90.000	179.677	11834.997	55.469	0.000	61.311	-0.000	55.469	0.000	0.000	61.405	48.092	4.771	MWD+IFR1+MS
17700.000	90.000	179.677	11834.997	56.135	0.000	61.867	-0.000	56.135	0.000	0.000	61.960	48.129	4.660	MWD+IFR1+MS
17800.000	90.000	179.677	11834.997	56.804	0.000	62.428	-0.000	56.804	0.000	0.000	62.520	48.168	4.554	MWD+IFR1+MS
17900.000	90.000	179.677	11834.997	57.476	0.000	62.993	-0.000	57.476	0.000	0.000	63.084	48.207	4.454	MWD+IFR1+MS
18000.000	90.000	179.677	11834.997	58.151	0.000	63.562	-0.000	58.151	0.000	0.000	63.652	48.246	4.358	MWD+IFR1+MS
18100.000	90.000	179.677	11834.997	58.828	0.000	64.135	-0.000	58.828	0.000	0.000	64.224	48.286	4.267	MWD+IFR1+MS
18200.000	90.000	179.677	11834.997	59.509	0.000	64.712	-0.000	59.509	0.000	0.000	64.800	48.327	4.180	MWD+IFR1+MS
18300.000	90.000	179.677	11834.997	60.192	0.000	65.293	-0.000	60.192	0.000	0.000	65.381	48.368	4.097	MWD+IFR1+MS
18400.000	90.000	179.677	11834.997	60.877	0.000	65.878	-0.000	60.877	0.000	0.000	65.965	48.410	4.018	MWD+IFR1+MS
18500.000	90.000	179.677	11834.997	61.564	0.000	66.466	-0.000	61.564	0.000	0.000	66.552	48.452	3.941	MWD+IFR1+MS

18600.000	90.000	179.677	11834.997	62.254	0.000	67.058	-0.000	62.254	0.000	0.000	67.144	48.495	3.868	MWD+IFR1+MS
18700.000	90.000	179.677	11834.997	62.947	0.000	67.653	-0.000	62.947	0.000	0.000	67.739	48.539	3.798	MWD+IFR1+MS
18800.000	90.000	179.677	11834.997	63.641	0.000	68.252	-0.000	63.641	0.000	0.000	68.337	48.583	3.730	MWD+IFR1+MS
18900.000	90.000	179.677	11834.997	64.337	0.000	68.854	-0.000	64.337	0.000	0.000	68.938	48.627	3.665	MWD+IFR1+MS
19000.000	90.000	179.677	11834.997	65.036	0.000	69.460	-0.000	65.036	0.000	0.000	69.543	48.672	3.602	MWD+IFR1+MS
19100.000	90.000	179.677	11834.997	65.736	0.000	70.068	-0.000	65.736	0.000	0.000	70.151	48.718	3.541	MWD+IFR1+MS
19200.000	90.000	179.677	11834.997	66.438	0.000	70.680	-0.000	66.438	0.000	0.000	70.762	48.764	3.483	MWD+IFR1+MS
19300.000	90.000	179.677	11834.997	67.142	0.000	71.295	-0.000	67.142	0.000	0.000	71.376	48.811	3.426	MWD+IFR1+MS
19400.000	90.000	179.677	11834.997	67.848	0.000	71.912	-0.000	67.848	0.000	0.000	71.993	48.858	3.372	MWD+IFR1+MS
19500.000	90.000	179.677	11834.997	68.556	0.000	72.532	-0.000	68.556	0.000	0.000	72.612	48.906	3.319	MWD+IFR1+MS
19600.000	90.000	179.677	11834.997	69.265	0.000	73.155	-0.000	69.265	0.000	0.000	73.235	48.954	3.268	MWD+IFR1+MS
19700.000	90.000	179.677	11834.997	69.976	0.000	73.781	-0.000	69.976	0.000	0.000	73.860	49.003	3.218	MWD+IFR1+MS
19800.000	90.000	179.677	11834.997	70.688	0.000	74.409	-0.000	70.688	0.000	0.000	74.488	49.053	3.170	MWD+IFR1+MS
19900.000	90.000	179.677	11834.997	71.402	0.000	75.040	-0.000	71.402	0.000	0.000	75.118	49.103	3.124	MWD+IFR1+MS
20000.000	90.000	179.677	11834.997	72.117	0.000	75.674	-0.000	72.117	0.000	0.000	75.751	49.154	3.078	MWD+IFR1+MS
20100.000	90.000	179.677	11834.997	72.834	0.000	76.309	-0.000	72.834	0.000	0.000	76.386	49.205	3.034	MWD+IFR1+MS
20200.000	90.000	179.677	11834.997	73.553	0.000	76.948	-0.000	73.553	0.000	0.000	77.024	49.256	2.992	MWD+IFR1+MS
20300.000	90.000	179.677	11834.997	74.272	0.000	77.588	-0.000	74.272	0.000	0.000	77.664	49.309	2.950	MWD+IFR1+MS
20400.000	90.000	179.677	11834.997	74.993	0.000	78.231	-0.000	74.993	0.000	0.000	78.306	49.361	2.910	MWD+IFR1+MS
20500.000	90.000	179.677	11834.997	75.715	0.000	78.876	-0.000	75.715	0.000	0.000	78.950	49.415	2.871	MWD+IFR1+MS
20600.000	90.000	179.677	11834.997	76.438	0.000	79.523	-0.000	76.438	0.000	0.000	79.597	49.469	2.832	MWD+IFR1+MS
20700.000	90.000	179.677	11834.997	77.163	0.000	80.172	-0.000	77.163	0.000	0.000	80.245	49.523	2.795	MWD+IFR1+MS
20800.000	90.000	179.677	11834.997	77.889	0.000	80.823	-0.000	77.889	0.000	0.000	80.896	49.578	2.759	MWD+IFR1+MS
20900.000	90.000	179.677	11834.997	78.616	0.000	81.476	-0.000	78.616	0.000	0.000	81.549	49.633	2.723	MWD+IFR1+MS
21000.000	90.000	179.677	11834.997	79.344	0.000	82.131	-0.000	79.344	0.000	0.000	82.203	49.689	2.689	MWD+IFR1+MS
21100.000	90.000	179.677	11834.997	80.073	0.000	82.788	-0.000	80.073	0.000	0.000	82.860	49.746	2.655	MWD+IFR1+MS
21200.000	90.000	179.677	11834.997	80.803	0.000	83.447	-0.000	80.803	0.000	0.000	83.518	49.803	2.623	MWD+IFR1+MS
21300.000	90.000	179.677	11834.997	81.534	0.000	84.108	-0.000	81.534	0.000	0.000	84.178	49.860	2.590	MWD+IFR1+MS
21400.000	90.000	179.677	11834.997	82.266	0.000	84.770	-0.000	82.266	0.000	0.000	84.840	49.919	2.559	MWD+IFR1+MS
21500.000	90.000	179.677	11834.997	82.999	0.000	85.434	-0.000	82.999	0.000	0.000	85.504	49.977	2.529	MWD+IFR1+MS
21600.000	90.000	179.677	11834.997	83.733	0.000	86.100	-0.000	83.733	0.000	0.000	86.169	50.036	2.499	MWD+IFR1+MS
21700.000	90.000	179.677	11834.997	84.468	0.000	86.768	-0.000	84.468	0.000	0.000	86.836	50.096	2.469	MWD+IFR1+MS
21800.000	90.000	179.677	11834.997	85.204	0.000	87.437	-0.000	85.204	0.000	0.000	87.505	50.156	2.441	MWD+IFR1+MS

21900.000	90.000	179.677	11834.997	85.940	0.000	88.107	-0.000	85.940	0.000	0.000	88.175	50.217	2.413	MWD+IFR1+MS
22000.000	90.000	179.677	11834.997	86.678	0.000	88.780	-0.000	86.678	0.000	0.000	88.847	50.278	2.386	MWD+IFR1+MS
22100.000	90.000	179.677	11834.997	87.416	0.000	89.453	-0.000	87.416	0.000	0.000	89.520	50.340	2.359	MWD+IFR1+MS
22200.000	90.000	179.677	11834.997	88.155	0.000	90.128	-0.000	88.155	0.000	0.000	90.195	50.402	2.333	MWD+IFR1+MS
22300.000	90.000	179.677	11834.997	88.895	0.000	90.805	-0.000	88.895	0.000	0.000	90.871	50.464	2.307	MWD+IFR1+MS
22400.000	90.000	179.677	11834.997	89.636	0.000	91.483	-0.000	89.636	0.000	0.000	91.549	50.528	2.282	MWD+IFR1+MS
22500.000	90.000	179.677	11834.997	90.377	0.000	92.162	-0.000	90.377	0.000	0.000	92.228	50.591	2.257	MWD+IFR1+MS
22600.000	90.000	179.677	11834.997	91.120	0.000	92.843	-0.000	91.120	0.000	0.000	92.908	50.656	2.233	MWD+IFR1+MS
22700.000	90.000	179.677	11834.997	91.862	0.000	93.525	-0.000	91.862	0.000	0.000	93.590	50.720	2.209	MWD+IFR1+MS
22800.000	90.000	179.677	11834.997	92.606	0.000	94.208	-0.000	92.606	0.000	0.000	94.273	50.786	2.186	MWD+IFR1+MS
22900.000	90.000	179.677	11834.997	93.350	0.000	94.893	-0.000	93.350	0.000	0.000	94.957	50.851	2.163	MWD+IFR1+MS
23000.000	90.000	179.677	11834.997	94.095	0.000	95.579	-0.000	94.095	0.000	0.000	95.642	50.917	2.141	MWD+IFR1+MS
23100.000	90.000	179.677	11834.997	94.841	0.000	96.266	-0.000	94.841	0.000	0.000	96.329	50.984	2.119	MWD+IFR1+MS
23200.000	90.000	179.677	11834.997	95.587	0.000	96.954	-0.000	95.587	0.000	0.000	97.017	51.051	2.098	MWD+IFR1+MS
23300.000	90.000	179.677	11834.997	96.334	0.000	97.643	-0.000	96.334	0.000	0.000	97.706	51.119	2.077	MWD+IFR1+MS
23400.000	90.000	179.677	11834.997	97.081	0.000	98.334	-0.000	97.081	0.000	0.000	98.396	51.187	2.056	MWD+IFR1+MS
23500.000	90.000	179.677	11834.997	97.829	0.000	99.025	-0.000	97.829	0.000	0.000	99.087	51.256	2.036	MWD+IFR1+MS
23600.000	90.000	179.677	11834.997	98.577	0.000	99.718	-0.000	98.577	0.000	0.000	99.779	51.325	2.016	MWD+IFR1+MS
23700.000	90.000	179.677	11834.997	99.326	0.000	100.412	-0.000	99.326	0.000	0.000	100.472	51.394	1.996	MWD+IFR1+MS
23800.000	90.000	179.677	11834.997	100.076	0.000	101.106	-0.000	100.076	0.000	0.000	101.167	51.465	1.977	MWD+IFR1+MS
23900.000	90.000	179.677	11834.997	100.826	0.000	101.802	-0.000	100.826	0.000	0.000	101.862	51.535	1.958	MWD+IFR1+MS
24000.000	90.000	179.677	11834.997	101.577	0.000	102.499	-0.000	101.577	0.000	0.000	102.559	51.606	1.939	MWD+IFR1+MS
24100.000	90.000	179.677	11834.997	102.328	0.000	103.197	-0.000	102.328	0.000	0.000	103.256	51.678	1.921	MWD+IFR1+MS
24200.000	90.000	179.677	11834.997	103.080	0.000	103.895	-0.000	103.080	0.000	0.000	103.954	51.750	1.903	MWD+IFR1+MS
24300.000	90.000	179.677	11834.997	103.832	0.000	104.595	-0.000	103.832	0.000	0.000	104.654	51.822	1.885	MWD+IFR1+MS
24400.000	90.000	179.677	11834.997	104.585	0.000	105.295	-0.000	104.585	0.000	0.000	105.354	51.895	1.868	MWD+IFR1+MS
24500.000	90.000	179.677	11834.997	105.338	0.000	105.997	-0.000	105.338	0.000	0.000	106.055	51.968	1.851	MWD+IFR1+MS
24600.000	90.000	179.677	11834.997	106.092	0.000	106.699	-0.000	106.092	0.000	0.000	106.757	52.042	1.834	MWD+IFR1+MS
24700.000	90.000	179.677	11834.997	106.846	0.000	107.402	-0.000	106.846	0.000	0.000	107.460	52.116	1.817	MWD+IFR1+MS
24800.000	90.000	179.677	11834.997	107.600	0.000	108.106	-0.000	107.600	0.000	0.000	108.163	52.191	1.801	MWD+IFR1+MS
24900.000	90.000	179.677	11834.997	108.355	0.000	108.811	-0.000	108.355	0.000	0.000	108.868	52.266	1.785	MWD+IFR1+MS
25000.000	90.000	179.677	11834.997	109.110	0.000	109.517	-0.000	109.110	0.000	0.000	109.573	52.342	1.769	MWD+IFR1+MS
25100.000	90.000	179.677	11834.997	109.866	0.000	110.223	-0.000	109.866	0.000	0.000	110.279	52.418	1.754	MWD+IFR1+MS

25200.000	90.000	179.677	11834.997	110.622	0.000	110.931	-0.000	110.622	0.000	0.000	110.986	52.495	1.738	MWD+IFR1+MS
25300.000	90.000	179.677	11834.997	111.379	0.000	111.639	-0.000	111.379	0.000	0.000	111.694	52.572	1.723	MWD+IFR1+MS
25400.000	90.000	179.677	11834.997	112.136	0.000	112.348	-0.000	112.136	0.000	0.000	112.403	52.649	1.709	MWD+IFR1+MS
25500.000	90.000	179.677	11834.997	112.893	0.000	113.057	-0.000	112.893	0.000	0.000	113.112	52.727	1.694	MWD+IFR1+MS
25600.000	90.000	179.677	11834.997	113.651	0.000	113.767	-0.000	113.651	0.000	0.000	113.822	52.805	1.680	MWD+IFR1+MS
25700.000	90.000	179.677	11834.997	114.409	0.000	114.478	-0.000	114.409	0.000	0.000	114.532	52.884	1.665	MWD+IFR1+MS
25800.000	90.000	179.677	11834.997	115.167	0.000	115.190	-0.000	115.167	0.000	0.000	115.244	52.963	1.651	MWD+IFR1+MS
25900.000	90.000	179.677	11834.997	115.926	0.000	115.902	-0.000	115.926	0.000	0.000	115.956	53.043	1.638	MWD+IFR1+MS
26000.000	90.000	179.677	11834.997	116.685	0.000	116.615	-0.000	116.685	0.000	0.000	116.669	53.123	1.624	MWD+IFR1+MS
26100.000	90.000	179.677	11834.997	117.445	0.000	117.329	-0.000	117.445	0.000	0.000	117.382	53.204	1.611	MWD+IFR1+MS
26200.000	90.000	179.677	11834.997	118.204	0.000	118.043	-0.000	118.204	0.000	0.000	118.096	53.284	1.597	MWD+IFR1+MS
26300.000	90.000	179.677	11834.997	118.965	0.000	118.758	-0.000	118.965	0.000	0.000	118.811	53.366	1.584	MWD+IFR1+MS
26400.000	90.000	179.677	11834.997	119.725	0.000	119.474	-0.000	119.725	0.000	0.000	119.526	53.448	1.572	MWD+IFR1+MS
26500.000	90.000	179.677	11834.997	120.486	0.000	120.190	-0.000	120.486	0.000	0.000	120.242	53.530	1.559	MWD+IFR1+MS
26600.000	90.000	179.677	11834.997	121.247	0.000	120.907	-0.000	121.247	0.000	0.000	120.959	53.613	1.546	MWD+IFR1+MS
26700.000	90.000	179.677	11834.997	122.008	0.000	121.624	-0.000	122.008	0.000	0.000	121.676	53.696	1.534	MWD+IFR1+MS
26800.000	90.000	179.677	11834.997	122.770	0.000	122.342	-0.000	122.770	0.000	0.000	122.394	53.779	1.522	MWD+IFR1+MS
26900.000	90.000	179.677	11834.997	123.532	0.000	123.061	-0.000	123.532	0.000	0.000	123.112	53.863	1.510	MWD+IFR1+MS
27000.000	90.000	179.677	11834.997	124.294	0.000	123.780	-0.000	124.294	0.000	0.000	123.831	53.947	1.498	MWD+IFR1+MS
27100.000	90.000	179.677	11834.997	125.056	0.000	124.500	-0.000	125.056	0.000	0.000	124.550	54.032	1.486	MWD+IFR1+MS
27200.000	90.000	179.677	11834.997	125.819	0.000	125.220	-0.000	125.819	0.000	0.000	125.270	54.117	1.475	MWD+IFR1+MS
27300.000	90.000	179.677	11834.997	126.582	0.000	125.941	-0.000	126.582	0.000	0.000	125.991	54.203	1.464	MWD+IFR1+MS
27400.000	90.000	179.677	11834.997	127.346	0.000	126.662	-0.000	127.346	0.000	0.000	126.712	54.289	1.452	MWD+IFR1+MS
27500.000	90.000	179.677	11834.997	128.109	0.000	127.384	-0.000	128.109	0.000	0.000	127.433	54.375	1.441	MWD+IFR1+MS
27600.000	90.000	179.677	11834.997	128.873	0.000	128.106	-0.000	128.873	0.000	0.000	128.155	54.462	1.430	MWD+IFR1+MS
27700.000	90.000	179.677	11834.997	129.637	0.000	128.829	-0.000	129.637	0.000	0.000	128.878	54.549	1.420	MWD+IFR1+MS
27800.000	90.000	179.677	11834.997	130.401	0.000	129.552	-0.000	130.401	0.000	0.000	129.601	54.637	1.409	MWD+IFR1+MS
27900.000	90.000	179.677	11834.997	131.166	0.000	130.276	-0.000	131.166	0.000	0.000	130.325	54.725	1.398	MWD+IFR1+MS
28000.000	90.000	179.677	11834.997	131.931	0.000	131.000	-0.000	131.931	0.000	0.000	131.049	54.813	1.388	MWD+IFR1+MS
28100.000	90.000	179.677	11834.997	132.696	0.000	131.725	-0.000	132.696	0.000	0.000	131.773	54.902	1.378	MWD+IFR1+MS
28200.000	90.000	179.677	11834.997	133.461	0.000	132.450	-0.000	133.461	0.000	0.000	132.498	54.991	1.368	MWD+IFR1+MS
28300.000	90.000	179.677	11834.997	134.226	0.000	133.176	-0.000	134.226	0.000	0.000	133.223	55.080	1.358	MWD+IFR1+MS
28325.990	90.000	179.677	11835.000	134.425	0.000	133.364	-0.000	134.425	0.000	0.000	133.412	55.104	1.355	MWD+IFR1+MS

28400.000	90.000	178.197	11835.000	134.991	0.000	133.782	-0.000	134.991	0.000	0.000	133.950	55.170	1.345	MWD+IFR1+MS
28500.000	90.000	176.197	11835.000	135.757	0.000	134.246	-0.000	135.757	0.000	0.000	134.693	55.260	1.319	MWD+IFR1+MS
28600.000	90.000	174.197	11835.000	136.523	0.000	134.581	-0.000	136.523	0.000	0.000	135.442	55.351	1.280	MWD+IFR1+MS
28706.039	90.000	172.076	11835.000	137.336	0.000	134.794	-0.000	137.336	0.000	0.000	136.238	55.447	1.224	MWD+IFR1+MS
28800.000	90.000	172.076	11835.000	138.056	0.000	135.494	-0.000	138.056	0.000	0.000	136.931	55.532	1.171	MWD+IFR1+MS
28900.000	90.000	172.076	11835.000	138.822	0.000	136.233	-0.000	138.822	0.000	0.000	137.662	55.623	1.115	MWD+IFR1+MS
29000.000	90.000	172.076	11835.000	139.589	0.000	136.972	-0.000	139.589	0.000	0.000	138.394	55.715	1.061	MWD+IFR1+MS
29100.000	90.000	172.076	11835.000	140.357	0.000	137.712	-0.000	140.357	0.000	0.000	139.126	55.806	1.007	MWD+IFR1+MS
29200.000	90.000	172.076	11835.000	141.124	0.000	138.452	-0.000	141.124	0.000	0.000	139.859	55.898	0.953	MWD+IFR1+MS
29300.000	90.000	172.076	11835.000	141.891	0.000	139.193	-0.000	141.891	0.000	0.000	140.592	55.991	0.901	MWD+IFR1+MS
29400.000	90.000	172.076	11835.000	142.659	0.000	139.935	-0.000	142.659	0.000	0.000	141.326	56.083	0.848	MWD+IFR1+MS
29500.000	90.000	172.076	11835.000	143.427	0.000	140.676	-0.000	143.427	0.000	0.000	142.061	56.176	0.797	MWD+IFR1+MS
29600.000	90.000	172.076	11835.000	144.195	0.000	141.419	-0.000	144.195	0.000	0.000	142.796	56.270	0.746	MWD+IFR1+MS
29700.000	90.000	172.076	11835.000	144.964	0.000	142.162	-0.000	144.964	0.000	0.000	143.532	56.364	0.696	MWD+IFR1+MS
29800.000	90.000	172.076	11835.000	145.732	0.000	142.905	-0.000	145.732	0.000	0.000	144.268	56.458	0.646	MWD+IFR1+MS
29900.000	90.000	172.076	11835.000	146.501	0.000	143.649	-0.000	146.501	0.000	0.000	145.005	56.552	0.597	MWD+IFR1+MS
29966.689	90.000	172.076	11835.000	147.013	0.000	144.145	-0.000	147.013	0.000	0.000	145.496	56.616	0.564	MWD+IFR1+MS
30000.000	90.000	172.742	11835.000	147.269	0.000	144.595	-0.000	147.269	0.000	0.000	145.741	56.647	0.549	MWD+IFR1+MS
30100.000	90.000	174.742	11835.000	148.037	0.000	145.856	-0.000	148.037	0.000	0.000	146.486	56.743	0.509	MWD+IFR1+MS
30200.000	90.000	176.742	11835.000	148.806	0.000	146.974	-0.000	148.806	0.000	0.000	147.240	56.840	0.481	MWD+IFR1+MS
30300.000	90.000	178.742	11835.000	149.575	0.000	147.936	-0.000	149.575	0.000	0.000	147.993	56.937	0.465	MWD+IFR1+MS
30383.780	90.000	180.418	11835.000	150.220	0.000	148.617	0.000	150.220	0.000	0.000	148.617	57.019	0.460	MWD+IFR1+MS
30400.000	90.000	180.418	11835.000	150.344	0.000	148.735	0.000	150.344	0.000	0.000	148.735	57.035	0.460	MWD+IFR1+MS
30500.000	90.000	180.418	11835.000	151.113	0.000	149.466	0.000	151.113	0.000	0.000	149.466	57.132	0.461	MWD+IFR1+MS
30600.000	90.000	180.418	11835.000	151.883	0.000	150.199	0.000	151.883	0.000	0.000	150.199	57.230	0.461	MWD+IFR1+MS
30700.000	90.000	180.418	11835.000	152.653	0.000	150.931	0.000	152.653	0.000	0.000	150.931	57.329	0.461	MWD+IFR1+MS
30800.000	90.000	180.418	11835.000	153.423	0.000	151.664	0.000	153.423	0.000	0.000	151.664	57.427	0.462	MWD+IFR1+MS
30900.000	90.000	180.418	11835.000	154.193	0.000	152.397	0.000	154.193	0.000	0.000	152.397	57.526	0.462	MWD+IFR1+MS
31000.000	90.000	180.418	11835.000	154.964	0.000	153.131	0.000	154.964	0.000	0.000	153.131	57.626	0.462	MWD+IFR1+MS
31100.000	90.000	180.418	11835.000	155.734	0.000	153.865	0.000	155.734	0.000	0.000	153.865	57.725	0.463	MWD+IFR1+MS
31200.000	90.000	180.418	11835.000	156.505	0.000	154.599	0.000	156.505	0.000	0.000	154.599	57.825	0.463	MWD+IFR1+MS
31300.000	90.000	180.418	11835.000	157.276	0.000	155.333	0.000	157.276	0.000	0.000	155.333	57.926	0.463	MWD+IFR1+MS
31400.000	90.000	180.418	11835.000	158.046	0.000	156.068	0.000	158.046	0.000	0.000	156.068	58.027	0.464	MWD+IFR1+MS

31500.000	90.000	180.418	11835.000	158.818	0.000	156.803	0.000	158.818	0.000	0.000	156.803	58.128	0.464	MWD+IFR1+MS
31600.000	90.000	180.418	11835.000	159.589	0.000	157.538	0.000	159.589	0.000	0.000	157.538	58.229	0.464	MWD+IFR1+MS
31700.000	90.000	180.418	11835.000	160.360	0.000	158.274	0.000	160.360	0.000	0.000	158.274	58.331	0.465	MWD+IFR1+MS
31800.000	90.000	180.418	11835.000	161.132	0.000	159.009	0.000	161.132	0.000	0.000	159.010	58.433	0.465	MWD+IFR1+MS
31900.000	90.000	180.418	11835.000	161.903	0.000	159.746	0.000	161.903	0.000	0.000	159.746	58.535	0.465	MWD+IFR1+MS
32000.000	90.000	180.418	11835.000	162.675	0.000	160.482	0.000	162.675	0.000	0.000	160.482	58.638	0.465	MWD+IFR1+MS
32100.000	90.000	180.418	11835.000	163.447	0.000	161.218	0.000	163.447	0.000	0.000	161.219	58.741	0.466	MWD+IFR1+MS
32200.000	90.000	180.418	11835.000	164.219	0.000	161.955	0.000	164.219	0.000	0.000	161.955	58.844	0.466	MWD+IFR1+MS
32300.000	90.000	180.418	11835.000	164.991	0.000	162.692	0.000	164.991	0.000	0.000	162.692	58.948	0.466	MWD+IFR1+MS
32327.802	90.000	180.418	11835.000	165.205	0.000	162.897	0.000	165.205	0.000	0.000	162.897	58.976	0.466	MWD+IFR1+MS
32400.000	90.000	180.418	11835.000	165.762	0.000	163.428	0.000	165.762	0.000	0.000	163.429	59.052	0.466	MWD+IFR1+MS
32427.887	90.000	180.418	11835.000	165.977	0.000	163.634	0.000	165.977	0.000	0.000	163.634	59.081	0.466	MWD+IFR1+MS

Plan Targets

Poker Lake Unit 20 DTD South 409H

Target Name	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape
FTP 22	11997.49	440402.40	634558.80	8513.00	RECTANGLE
SHL 23	12351.75	440172.33	635210.61	8305.79	RECTANGLE
MP2 409H	29966.69	422014.30	634854.50	8513.00	CIRCLE
MP1 409H	28325.99	423641.70	634653.40	8513.00	CIRCLE
LTP 22	32327.80	419654.50	634867.60	8513.00	RECTANGLE
BHL 22	32429.22	419554.40	634868.20	8513.00	RECTANGLE

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:	☐ Initial Submittal
			☒ Amended Report
		☐ As Drilled	

WELL LOCATION INFORMATION

API Number 30-015-54821	Pool Code 98220	Pool Name PURPLE SAGE; WOLFCAMP
Property Code	Property Name POKER LAKE UNIT 20 DTD	Well Number 409H
OGRID No. 373075	Operator Name XTO PERMIAN OPERATING, LLC.	Ground Level Elevation 3290'
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal		Mineral Owner: ☒ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
A	20	24S	30E		337 FNL	608 FEL	32.209518	-103.896849	EDDY

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
P	05	25S	30E		230 FSL	1,005 FEL	32.152846	-103.898030	EDDY

Dedicated Acres 2,321.00	Infill or Defining Well INFILL	Defining Well API 30-015-54912	Overlapping Spacing Unit (Y/N) N	Consolidation Code U
Order Numbers:			Well setbacks are under Common Ownership: ☒ Yes ☐ No	

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
A	20	24S	30E		337 FNL	608 FEL	32.209518	-103.896849	EDDY

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
A	20	24S	30E		100 FNL	1,199 FEL	32.210159	-103.898760	EDDY

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
P	05	25S	30E		330 FSL	1,005 FEL	32.153121	-103.898030	EDDY

Unitized Area or Area of Uniform Interest NMNM105422429	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation: 3290'
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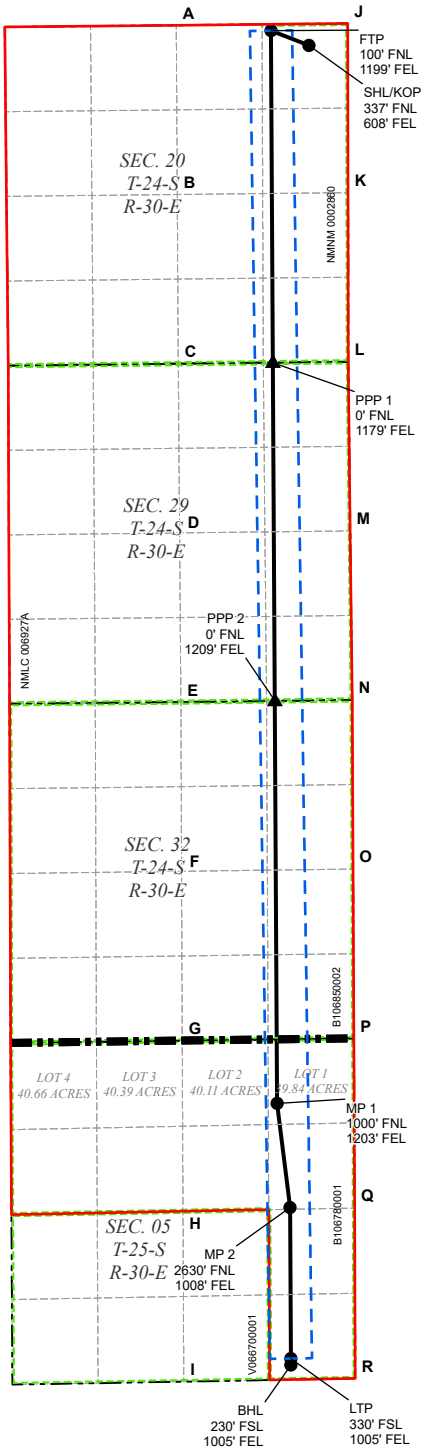
OPERATOR CERTIFICATIONS I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the 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. 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. Lacey Granillo5/29/25 SignatureDate Lacey Granillo Printed Name Lacey.granillo@exxonmobil.com Email Address	SURVEYOR CERTIFICATIONS 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.   Signature and Seal of Professional Surveyor 23786 05-22-2025 Certificate NumberDate of Survey DB 618.013003.06-57
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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	676,334.3	440,230.9	32.209518	-103.896849	635,150.6	440,171.6	32.209394	-103.896362
FTP	675,742.5	440,461.6	32.210159	-103.898760	634,558.8	440,402.4	32.210035	-103.898272
LTP	676,052.0	419,713.2	32.153121	-103.898030	634,867.6	419,654.5	32.152997	-103.897546
BHL	676,052.6	419,613.2	32.152846	-103.898030	634,868.2	419,554.4	32.152722	-103.897545
MP 1	675,837.6	423,700.6	32.164084	-103.898671	634,653.4	423,641.7	32.163960	-103.898186
MP 2	676,038.8	422,073.1	32.159608	-103.898042	634,854.5	422,014.3	32.159484	-103.897557
PPP 1	675,772.0	435,274.5	32.195900	-103.898732	634,588.1	435,215.4	32.195776	-103.898246
PPP 2	675,802.0	429,988.7	32.181370	-103.898704	634,617.9	429,929.7	32.181245	-103.898218

CORNER COORDINATE TABLE				
CORNER	NAD 83 NME X	NAD 83 NME Y	NAD 27 NME X	NAD 27 NME Y
A	674,262.0	440,546.3	633,078.3	440,487.0
B	674,277.3	437,901.7	633,093.6	437,842.5
C	674,292.7	435,257.6	633,108.8	435,198.5
D	674,313.5	432,613.8	633,129.5	432,554.7
E	674,334.3	429,970.0	633,150.3	429,910.9
F	674,344.5	427,326.7	633,160.4	427,267.8
G	674,354.7	424,680.7	633,170.5	424,621.8
H	674,366.8	422,013.8	633,182.5	421,955.0
I	674,378.8	419,352.4	633,194.4	419,293.6
J	676,941.2	440,574.0	635,757.5	440,514.8
K	676,946.1	437,930.7	635,762.3	437,871.4
L	676,950.6	435,288.0	635,766.7	435,228.8
M	676,980.3	432,645.3	635,796.4	432,586.2
N	677,010.4	430,004.1	635,826.3	429,945.1
O	677,023.8	427,361.7	635,839.7	427,302.8
P	677,036.7	424,716.9	635,852.5	424,658.0
Q	677,047.1	422,064.2	635,862.8	422,005.4

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

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

CONDITIONS

Action 471561

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 471561
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	None	8/22/2025