



U.S. Department of the Interior
Bureau of Land Management

Application for Permit to Drill

APD Package Report

Date Printed: 10/18/2024 03:31 PM

APD ID: 10400097912

Well Status: AAPD

APD Received Date: 04/12/2024 07:09 AM

Well Name: POKER LAKE UNIT 22 DTD

Operator: XTO PERMIAN OPERATING LLC

Well Number: 406H

APD Package Report Contents

- Form 3160-3
- Operator Certification Report
- Application Report
- Application Attachments
 - Well Plat: 1 file(s)
- Drilling Plan Report
- Drilling Plan Attachments
 - Blowout Prevention Choke Diagram Attachment: 1 file(s)
 - Blowout Prevention BOP Diagram Attachment: 1 file(s)
 - Casing Spec Documents: 2 file(s)
 - Casing Taperd String Specs: 2 file(s)
 - Casing Design Assumptions and Worksheet(s): 3 file(s)
 - Hydrogen sulfide drilling operations plan: 1 file(s)
 - Proposed horizontal/directional/multi-lateral plan submission: 1 file(s)
 - Other Facets: 7 file(s)
 - Other Variances: 3 file(s)
- SUPO Report
- SUPO Attachments
 - Existing Road Map: 1 file(s)
 - Attach Well map: 1 file(s)
 - Water source and transportation map: 1 file(s)
 - Well Site Layout Diagram: 1 file(s)
 - Recontouring attachment: 4 file(s)
 - Other SUPO Attachment: 1 file(s)
- PWD Report
- PWD Attachments
 - None

- Bond Report
- Bond Attachments
 - None

Form 3160-3
(June 2015)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NMNM02862
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		6. If Indian, Allottee or Tribe Name
1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		7. If Unit or CA Agreement, Name and No. NMNM071016X/POKER LAKE UNIT
2. Name of Operator XTO PERMIAN OPERATING LLC		8. Lease Name and Well No. POKER LAKE UNIT 22 DTD 406H
3a. Address 6401 HOLIDAY HILL ROAD BLDG 5, MIDLAND, TX 79701	3b. Phone No. (include area code) (432) 683-2277	9. API Well No. 30-015-55586
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NENE / 233 FNL / 1237 FEL / LAT 32.209942 / LONG -103.864278 At proposed prod. zone SENE / 2627 FNL / 47 FEL / LAT 32.174417 / LONG -103.860365		10. Field and Pool, or Exploratory PURPLE SAGE/WOLFCAMP (GAS)
11. Sec., T. R. M. or Blk. and Survey or Area SEC 22/T24S/R30E/NMP		
14. Distance in miles and direction from nearest town or post office*		12. County or Parish EDDY
		13. State NM
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 233 feet	16. No of acres in lease	17. Spacing Unit dedicated to this well 1600.0
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 30 feet	19. Proposed Depth 11178 feet / 24073 feet	20. BLM/BIA Bond No. in file FED: COB000050
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3430 feet	22. Approximate date work will start* 04/18/2025	23. Estimated duration 45 days
24. Attachments		

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

- | | |
|--|---|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification. |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be requested by the BLM. |

25. Signature (Electronic Submission)	Name (Printed/Typed) RICHARD REDUS / Ph: (432) 682-8873	Date 04/12/2024
Title Permitting Manager		
Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) CODY LAYTON / Ph: (575) 234-5959	Date 10/18/2024
Title Assistant Field Manager Lands & Minerals		
Office Carlsbad Field Office		

Application approval 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.

Conditions of approval, if any, are attached.

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.

(Continued on page 2)

*(Instructions on page 2)



INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws 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, either are shown below or will be issued by, or may be obtained from local Federal offices.

ITEM I: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective productive zone.

ITEM 22: Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

ITEM 24: 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 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., 25 U.S.C. 396; 43 CFR 3160

PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service well or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.

ROUTINE USE: Information from the record and/or the record will be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

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

The BLM connects this information to an evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. 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 Connection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

Santa Fe Main Office Phone: (505) 476-3441 Fax: (55) 476-3462 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	<div style="text-align: right;"> C-102 Revised July 9, 2024 Submit Electronically via OCD Permitting </div> <div> Submittal Type: <div style="border: 1px solid black; padding: 2px; margin-top: 5px;"> <input checked="" type="checkbox"/> Initial Submittal <input type="checkbox"/> Amended Report <input type="checkbox"/> As Drilled </div> </div>
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WELL LOCATION INFORMATION

API Number 30-015-55586	Pool Code 98220	Pool Name PURPLE SAGE/WOLFCAMP (GAS)
Property Code 333192	Property Name POKER LAKE UNIT 22 DTD	Well Number 406H
OGRID No. 373075	Operator Name XTO PERMIAN OPERATING LLC	Ground Level Elevation 3,430 feet
Surface Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal		Mineral Owner: <input 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
A	22	24S	30E		233 FNL	1237 FEL	32.209942	-103.864278	EDDY

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
H	34	24S	30E		2627 FNL	47 FEL	32.174417	-103.860365	EDDY

Dedicated Acres 1600	Infill or Defining Well Infill	Defining Well API 3001549881	Overlapping Spacing Unit (Y/N) N	Consolidation Code U
Order Numbers. N/A			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
A	22	24S	30E		233 FNL	1237 FEL	32.209942	-103.864278	EDDY

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
A	22	24S	30E		100 FNL	48 FEL	32.210333	-103.860434	EDDY

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
I	34	24S	30E		2,537 FNL	47 FEL	32.174664	-103.860366	EDDY

Unitized Area or Area of Uniform Interest NMNM105422429	Spacing Unit Type <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical	Ground Floor Elevation 3,430 feet
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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.

Terra Sebastian 10/22/2024

Signature

Date

Terra Sebastian

Printed Name

terra.b.sebastian@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.

Please See Below

Signature and Seal of Professional Surveyor

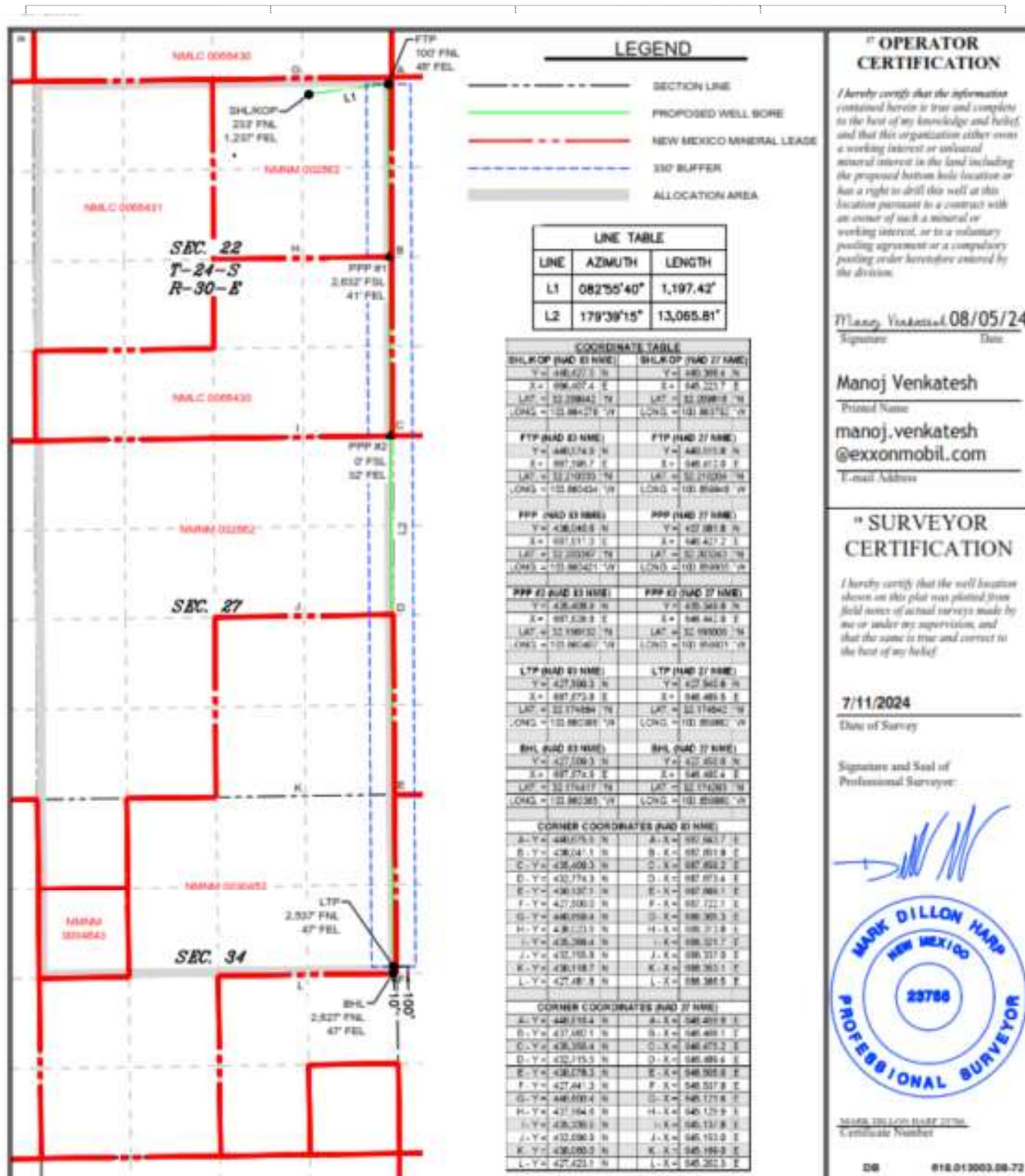
Certificate Number

Date of Survey

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.

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.



State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: XTO Permian Operating, LLC **OGRID:** 373075 **Date:** 09 / 16 / 2024

II. Type: ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	3 yr Anticipated decline Oil BBL/D	Anticipated Gas MCF/D	3 yr Anticipated decline Gas MCF/D	Anticipated Produced Water BBL/D	3 yr Anticipated decline Water BBL/D
Poker Lake Unit 22 DTD 103H	TBD	22 T24S R30E	916 FNL, 113 FWL	1,800	200	7,500	1,200	7,000	800
Poker Lake Unit 22 DTD 106H	TBD	22 T24S R30E	916 FNL, 203 FWL	1,800	200	7,500	1,200	7,000	800
Poker Lake Unit 22 DTD 907H	TBD	22 T24S R30E	916 FNL, 233 FWL	1,800	200	7,500	1,200	7,000	800
Poker Lake Unit 22 DTD 145H	TBD	22 T24S R30E	916 FNL, 173 FWL	1,800	200	7,500	1,200	7,000	800
Poker Lake Unit 22 DTD 153H	TBD	22 T24S R30E	414 FNL, 1946 FEL	1,800	200	7,500	1,200	7,000	800
Poker Lake Unit 22 DTD 194H	TBD	22 T24S R30E	916 FNL, 143 FWL	1,900	200	3,250	900	3,750	450
Poker Lake Unit 22 DTD 197H	TBD	22 T24S R30E	414 FNL, 2286 FEL	1,900	200	3,250	900	3,750	450
Poker Lake Unit 22 DTD 201H	TBD	22 T24S R30E	13 FNL, 1534 FWL	1,900	200	3,250	900	3,750	450
Poker Lake Unit 22 DTD 202H	TBD	22 T24S R30E	13 FNL, 1564 FWL	1,800	200	7,500	1,200	7,000	800
Poker Lake Unit 22 DTD 203H	TBD	22 T24S R30E	13 FNL, 1594 FWL	1,900	200	3,250	900	3,750	450
Poker Lake Unit 22 DTD 204H	TBD	22 T24S R30E	13 FNL, 1654 FWL	1,800	200	7,500	1,200	7,000	800
Poker Lake Unit 22 DTD 205H	TBD	22 T24S R30E	13 FNL, 1684 FWL	1,900	200	3,250	900	3,750	450

Poker Lake Unit 22 DTD 401H	TBD	22 T24S R30E	233 FNL, 1387 FEL	1,900	200	3,250	900	3,750	450
Poker Lake Unit 22 DTD 402H	TBD	22 T24S R30E	233 FNL, 1357 FEL	1,800	200	7,500	1,200	7,000	800
Poker Lake Unit 22 DTD 403H	TBD	22 T24S R30E	233 FNL, 1327 FEL	1,800	200	7,500	1,200	7,000	800
Poker Lake Unit 22 DTD 404H	TBD	22 T24S R30E	233 FNL, 1297 FEL	1,900	200	3,250	900	3,750	450
Poker Lake Unit 22 DTD 405H	TBD	22 T24S R30E	233 FNL, 1267 FEL	1,800	200	7,500	1,200	7,000	800
Poker Lake Unit 22 DTD 406H	TBD	22 T24S R30E	233 FNL, 1237 FEL	1,800	200	7,500	1,200	7,000	800

IV. Central Delivery Point Name: PLU 22 DTD CTB [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Poker Lake Unit 22 DTD 103H	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>
Poker Lake Unit 22 DTD 106H	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>
Poker Lake Unit 22 DTD 907H	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>
Poker Lake Unit 22 DTD 145H	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>
Poker Lake Unit 22 DTD 153H	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>
Poker Lake Unit 22 DTD 194H	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>
Poker Lake Unit 22 DTD 197H	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>
Poker Lake Unit 22 DTD 201H	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>
Poker Lake Unit 22 DTD 202H	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>
Poker Lake Unit 22 DTD 203H	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>
Poker Lake Unit 22 DTD 204H	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>
Poker Lake Unit 22 DTD 205H	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>
Poker Lake Unit 22 DTD 401H	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>
Poker Lake Unit 22 DTD 402H	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>
Poker Lake Unit 22 DTD 403H	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>

Poker Lake Unit 22 DTD 404H	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>
Poker Lake Unit 22 DTD 405H	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>
Poker Lake Unit 22 DTD 406H	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>

VI. Separation Equipment: ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan **EFFECTIVE APRIL 1, 2022**

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☒ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. ☐ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system ☒ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator ☐ does ☐ does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications

Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☒ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

If Operator checks this box, Operator will select one of the following:

Well Shut-In. ☒ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

VI. Separation Equipment:

XTO Permian Operating LLC. utilizes a "stage separation" process in which oil and gas separation is carried out through a series of separators operating at successively reduced pressures. Hydrocarbon liquids are produced into a high-pressure inlet separator, then carried through one or more lower pressure separation vessels before entering the storage tanks. The purpose of this separation process is to attain maximum recovery of liquid hydrocarbons from the fluids and allow maximum capture of produced gas into the sales pipeline. XTO utilizes a series of Low-Pressure Compression units to capture gas off the staged separation and send it to the sales pipeline. This process minimizes the amount of flash gas that enters the end-stage storage tanks that is subsequently vented or flared.

VII. Operational Practices

XTO Permian Operating LLC will employ best management practices and control technologies to maximize the recovery and minimize waste of natural gas through venting and flaring.

- During drilling operations, XTO will utilize flares to capture and control natural gas, where technically feasible. If flaring is deemed technically in-feasible, XTO will employ best management practices to minimize or reduce venting to the extent possible.
- During completions operations, XTO will utilize Green Completion methods to capture gas produced during well completions that is otherwise vented or flared. If capture is technically in-feasible, flares will be used to control flow back fluids entering into frac tanks during initial flowback. Upon indication of first measurable hydrocarbon volumes, XTO Permian Operating LLC will turn operations to onsite separation vessels and flow to the gathering pipeline.
- During production operations, XTO Permian Operating LLC will take every practical effort to minimize waste of natural gas through venting and flaring by:
 - Designing and constructing facilities in a manner consistent to achieve maximum capture and control of hydrocarbon liquids & produced gas
 - Utilizing a closed-loop capture system to collect, and route produced gas to sales line via low pressure compression, or to a flare/combustor
 - Flaring in lieu of venting, where technically feasible
 - Utilizing auto-ignitors or continuous pilots, with thermocouples connected to Scada, to quickly detect and resolve issues related to malfunctioning flares/combustors
 - Employ the use of automatic tank gauging to minimize storage tank venting during loading events
 - Installing air-driven or electric-driven pneumatics & combustion engines, where technically feasible to minimize venting to the atmosphere
 - Confirm equipment is properly maintained and repaired through a preventative maintenance and repair program to ensure equipment meets all manufacturer specifications

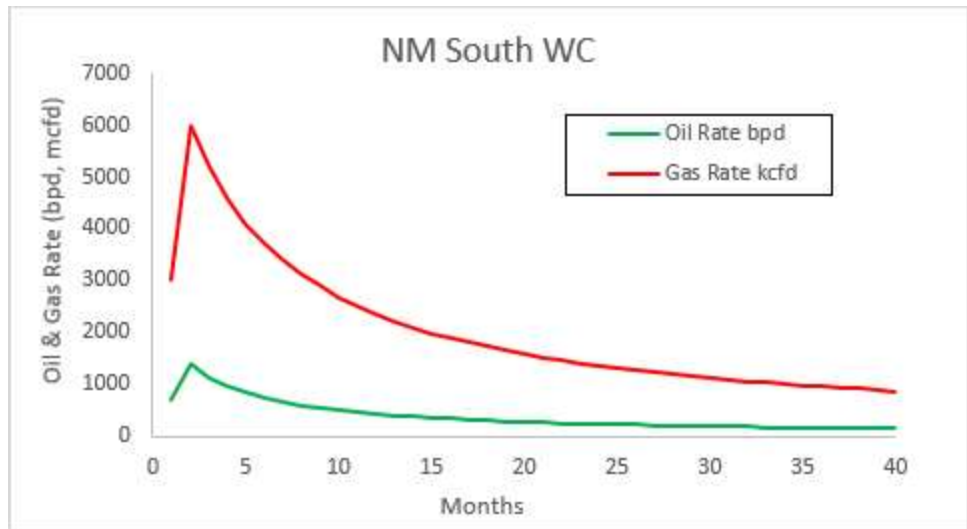
- Conduct and document AVO inspections on the frequency set forth in Part 27 to detect and repair any onsite leaks as quickly and efficiently as is feasible.

VIII. Best Management Practices during Maintenance

XTO Permian Operating LLC. will utilize best management practices to minimize venting during active and planned maintenance activities. XTO is operating under guidance that production facilities permitted under NOI permits have no provisions to allow high pressure flaring and high-pressure flaring is only allowed in disruption scenarios so long as the duration is less than eight hours. When technically feasible, flaring during maintenance activities will be utilized in lieu of venting to the atmosphere. XTO will work with third-party operators during scheduled maintenance of downstream pipeline or processing plants to address those events ahead of time to minimize venting. Actions considered include identifying alternative capture approaches or planning to temporarily reduce production or shut in the well to address these circumstances.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature: <i>Samantha Weis</i>
Printed Name: Samantha Weis
Title: Permitting Advisor
E-mail Address: samantha.r.bartnik@exxonmobil.com
Date: 10/23/2024
Phone: +1-832-625-7361
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:





Drilling Plan Data Report

10/18/2024

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

APD ID: 10400097912

Submission Date: 04/12/2024

Highlighted data
reflects the most
recent changes

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 22 DTD

Well Number: 406H

Well Type: CONVENTIONAL GAS WELL

Well Work Type: Drill

[Show Final Text](#)

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
14339071	QUATERNARY	3430	0	0	ALLUVIUM	USEABLE WATER	N
14339072	RUSTLER	2268	1162	1162	ANHYDRITE, SANDSTONE	USEABLE WATER	N
14339073	SALADO	1865	1565	1565	SALT	NONE	N
14339074	BASE OF SALT	-328	3758	3758	SALT	NONE	N
14339075	DELAWARE	-522	3952	3952	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	N
14339066	BRUSHY CANYON	-3068	6498	6498	SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	N
14339076	BONE SPRING	-4392	7822	7822	LIMESTONE, SANDSTONE	OTHER : Produced Water	N
14339067	BONE SPRING 1ST	-5101	8531	8531	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	N
14339068	BONE SPRING 2ND	-5686	9116	9116	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	N
14339069	BONE SPRING 3RD	-6512	9942	9942	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	N
14339070	WOLFCAMP	-7697	11127	11127	SANDSTONE, SHALE	NATURAL GAS, OIL, OTHER : Produced Water	Y
14339079	WOLFCAMP	-7718	11148	11148	SANDSTONE, SHALE	NATURAL GAS, OIL, OTHER : Produced Water	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M

Rating Depth: 11178

Equipment: Once the permanent WH is installed on the Surface casing, the blow out preventer equipment (BOP) will consist of a 10M Triple Ram BOP consisting of 5M Annular, 10M Double Pipe RAM, 10M Blind RAM. XTO will use a Multi-Bowl system which is attached.

Requesting Variance? YES

Variance request: 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

Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** POKER LAKE UNIT 22 DTD**Well Number:** 406H

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. 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.

Testing Procedure: All BOP testing will be done by an independent service company. Operator will test as per 43 CFR 3172

Choke Diagram Attachment:

PLU_22_DTD_5MCM_20240407155843.pdf

BOP Diagram Attachment:

5M10M_BOP_20240917142530.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	12.25	9.625	NEW	API	N	0	1262	0	1262	3430	2168	1262	J-55	40	BUTT	4.99	1.6	DRY	12.48	DRY	12.48
2	INTERMEDIATE	8.75	7.625	NEW	API	Y	0	10399	0	10261	3411	-6831	10399	L-80	29.7	FJ	2.3	1.63	DRY	2.14	DRY	2.14
3	PRODUCTION	6.75	5.5	NEW	NON API	Y	0	24073	0	11178	3411	-7748	24073	P-110	20	OTHER - Freedom HTQ/Talon HTQ	1.66	1.05	DRY	2	DRY	2

Casing Attachments

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 22 DTD

Well Number: 406H

Casing Attachments

Casing ID: 1StringSURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

POKER_LAKE_UNIT_22_DTD_406H_Csg_20240407160053.pdf

Casing ID: 2StringINTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

POKER_LAKE_UNIT_22_DTD_406H_Csg_20240407160747.pdf

Casing Design Assumptions and Worksheet(s):

POKER_LAKE_UNIT_22_DTD_406H_Csg_20240407160856.pdf

Casing ID: 3StringPRODUCTION

Inspection Document:

Spec Document:

Freedom_5.5000_20.0000_0.3610__P110_RY_20240709122801.pdf

Talon_HTQ_RD_5.5000_20.0000_0.3610__P110_RY_20240709122801.pdf

Tapered String Spec:

POKER_LAKE_UNIT_22_DTD_406H_Csg_20240407160330.pdf

Casing Design Assumptions and Worksheet(s):

POKER_LAKE_UNIT_22_DTD_406H_Csg_20240407160433.pdf

Section 4 - Cement

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 22 DTD

Well Number: 406H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	1262	320	1.87	10.5	598.4	100	EconoCem-HLTRRC	NA
SURFACE	Tail		0	1262	130	1.35	14.8	175.5	100	Class C	2% CaCl
INTERMEDIATE	Lead		0	6498	360	1.35	14.8	486	100	Class C	NA
INTERMEDIATE	Tail		6498	10399	730	1.33	14.8	970.9	100	Class C	NA
PRODUCTION	Lead		10099	10599	20	2.69	11.5	53.8	30	NeoCem	NA
PRODUCTION	Tail		10599	24073	960	1.51	13.2	1449.6	30	VersaCem	NA

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with Onshore Order #2:

Diagram of the equipment for the circulating system in accordance with Onshore Order #2:

Describe what will be on location to control well or mitigate other conditions: The necessary mud products for weight addition and fluid loss control will be on location at all times.

Describe the mud monitoring system utilized: Spud with fresh water/native mud. Drill out from under surface casing with Saturated Salt solution. Saturated Salt 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.

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
1262	3952	SALT SATURATED	10.5	11							

Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** POKER LAKE UNIT 22 DTD**Well Number:** 406H

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
1039 9	2407 3	OIL-BASED MUD	11.5	12							
0	1262	WATER-BASED MUD	8.4	8.9							
3952 9	1039 9	OTHER : BDE/OBM	9	9.5							

Section 6 - Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures:

Open hole logging will not be done on this well.

List of open and cased hole logs run in the well:

GAMMA RAY LOG, CEMENT BOND LOG, DIRECTIONAL SURVEY, MEASUREMENT WHILE DRILLING, MUD LOG/GEOLOGICAL LITHOLOGY LOG,

Coring operation description for the well:

No coring is planned for the well.

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 6975

Anticipated Surface Pressure: 4515

Anticipated Bottom Hole Temperature(F): 195

Anticipated abnormal pressures, temperatures, or potential geologic hazards? NO

Describe:

Contingency Plans geohazards description:

Contingency Plans geohazards

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations

XTO_Energy_H2S_Plan_Updated_20240805091412.pdf

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 22 DTD

Well Number: 406H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

POKER_LAKE_UNIT_22_DTD_406H_DD_20240407161659.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

POKER_LAKE_UNIT_22_DTD_406H_Cmt_20240407161843.pdf

PLU_22_DTD_MBS_20240610085104.pdf

PLU_22_DTD_H2S_DiaA_20240709122419.pdf

PLU_22_DTD_H2S_DiaB_20240709122419.pdf

PLU_22_DTD_H2S_DiaC_20240709122419.pdf

PLU_22_DTD_H2S_DiaD_20240709122423.pdf

POKER_LAKE_UNIT_22_DTD_406H_RL_20240709122530.pdf

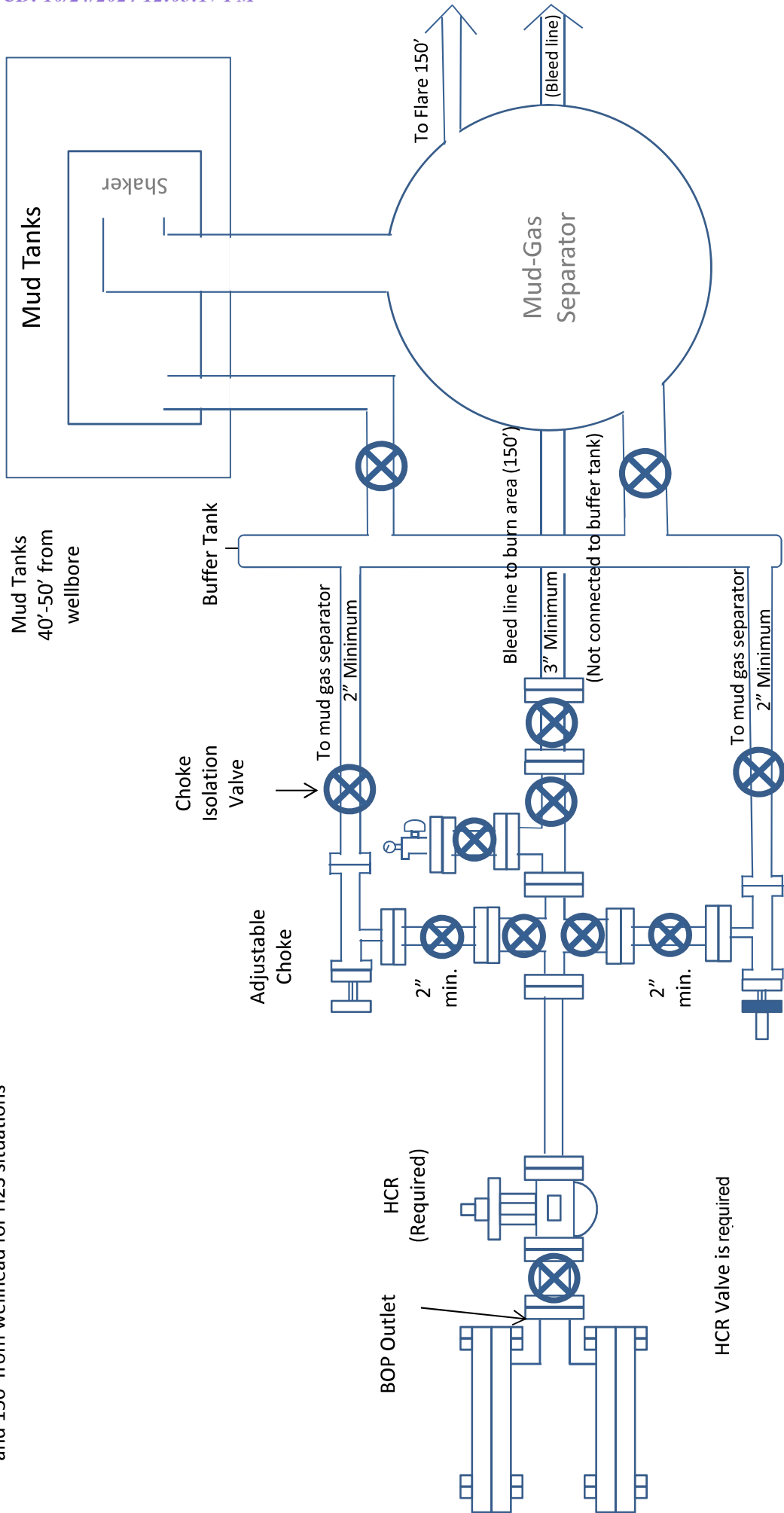
Other Variance attachment:

Spudder_Rig_Request_20240805143240.pdf

Offline_Cement_Variance_Surf___Interm_Csg_20240805143240.pdf

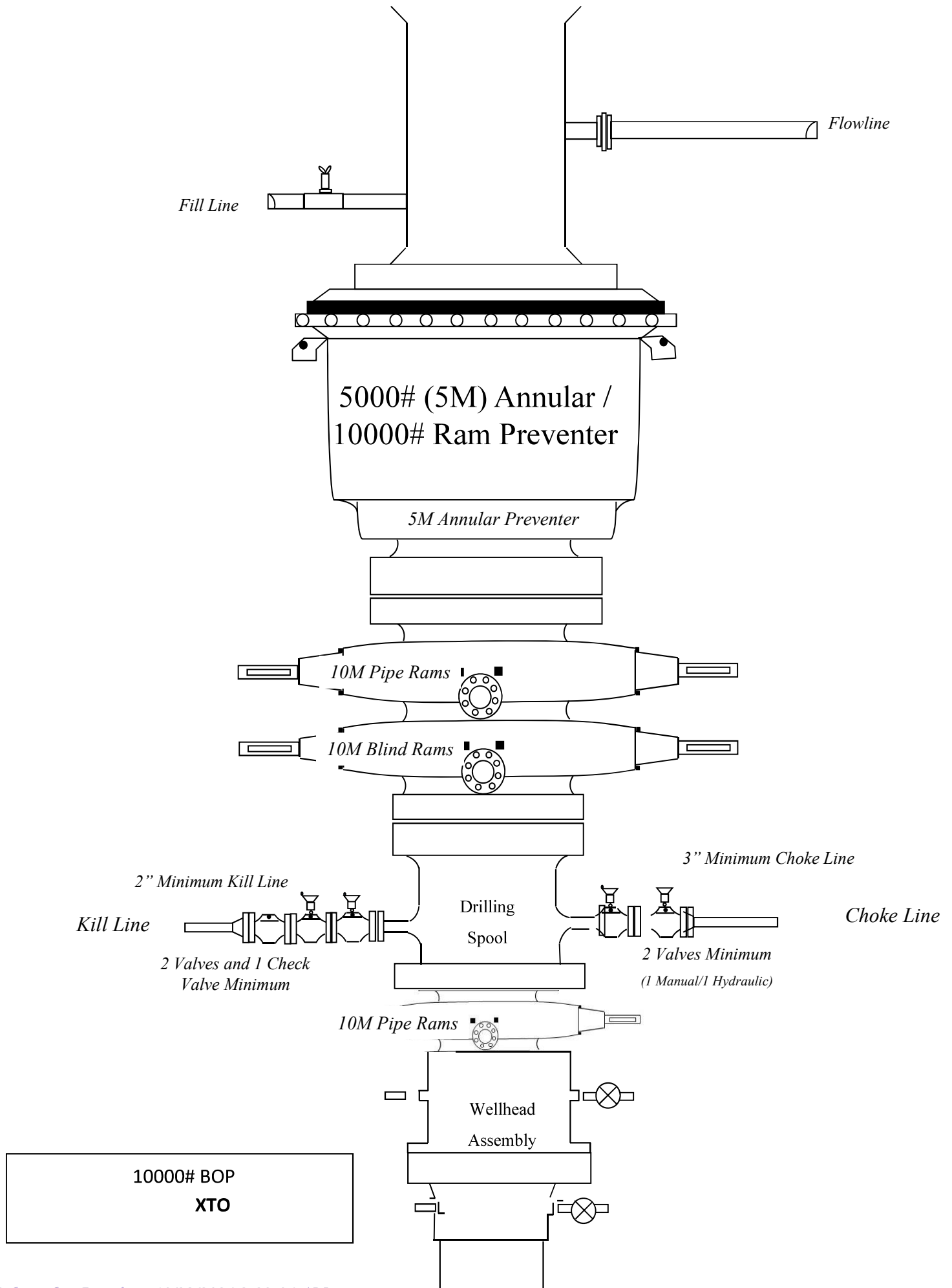
Updated_Flex_Hose_20240805143240.pdf

Bleed line will discharge 100' from wellhead for non-H2S situations and 150' from wellhead for H2S situations



5M Choke Manifold Diagram
XTO

**Drilling Operations
Choke Manifold
5M Service**



Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0' – 1262'	9.625	40	J-55	BTC	New	1.60	4.99	12.48
8.75	0' – 4000'	7.625	29.7	RY P-110	Flush Joint	New	2.24	2.92	1.81
8.75	4000' – 10399'	7.625	29.7	HC L-80	Flush Joint	New	1.63	2.30	2.14
6.75	0' – 10299'	5.5	20	RY P-110	Semi-Premium	New	1.05	1.80	2.00
6.75	10299' - 24073'	5.5	20	RY P-110	Semi-Flush	New	1.05	1.66	2.00

Cement Variance Request

Intermediate Casing:

XTO requests to pump a two stage cement job on the 7-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brush Canyon (6498') 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:

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.

XTO respectfully requests approval to utilize a spudder rig to pre-set surface casing.

Description of Operations:

1. Spudder rig will move in to drill the surface hole and pre-set surface casing on the well.
 - a. After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (OnShore Order 2, all COAs and NMOCD regulations).
 - b. The spudder rig will utilize fresh water-based mud to drill the surface hole to TD. Solids control will be handled entirely on a closed loop basis. No earth pits will be used.
2. The wellhead will be installed and tested as soon as the surface casing is cut off and WOC time has been reached.
3. A blind flange at the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with needle valves installed on two wing valves.
 - a. A means for intervention will be maintained while the drilling rig is not over the well.
4. Spudder rig operations are expected to take 2-3 days per well on the pad.
5. The BLM will be contacted and notified 24 hours prior to commencing spudder rig operations.
6. Drilling Operations will begin with a larger rig and a BOP stack equal to or greater than the pressure rating that was permitted will be nipped up and tested on the wellhead before drilling operations resume on each well.
 - a. The larger rig will move back onto the location within 90 days from the point at which the wells are secured and the spudder rig is moved off location.
 - b. The BLM will be notified 24 hours before the larger rig moves back on the pre-set locations
7. XTO will have supervision on the rig to ensure compliance with all BLM and NMOCD regulations and to oversee operations.
8. Once the rig is removed, XTO will secure the wellhead area by placing a guard rail around the cellar area.

XTO Permian Operating, LLC Offline Cementing Variance Request

XTO requests the option to cement the surface and intermediate casing strings offline as a prudent batch drilling efficiency of acreage development.

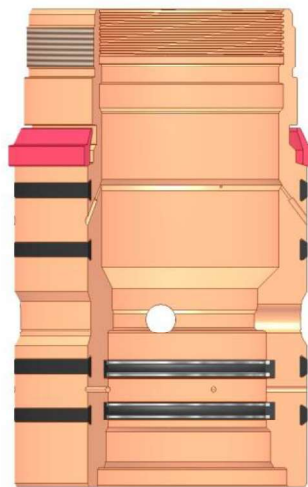
1. Cement Program

No changes to the cement program will take place for offline cementing.

2. Offline Cementing Procedure

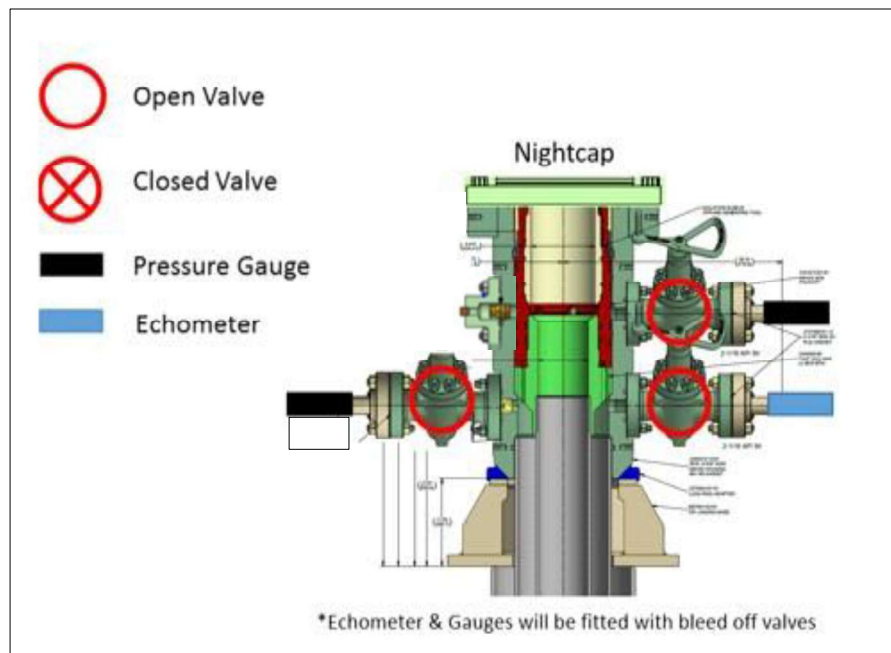
The operational sequence will be as follows. If a well control event occurs, the BLM will be contacted for approval prior to conducting offline cementing operations.

1. Run casing as per normal operations. While running casing, conduct negative pressure test and confirm integrity of the float equipment (float collar and shoe)
2. Land casing with mandrel
3. Fill pipe with kill weight fluid, do not circulate through floats and confirm well is static
4. Set annular packoff shown below and pressure test to confirm integrity of the seal. Pressure ratings of wellhead components and valves is 5,000 psi.
5. After confirmation of both annular barriers and internal barriers, nipple down BOP and install cap flange.
 - a. If any barrier fails to test, the BOP stack will not be nipped down until after the cement job is completed with cement 500ft above the highest formation capable of flow with kill weight mud above or after it has achieved 50-psi compressive strength if kill weight fluid cannot be verified.



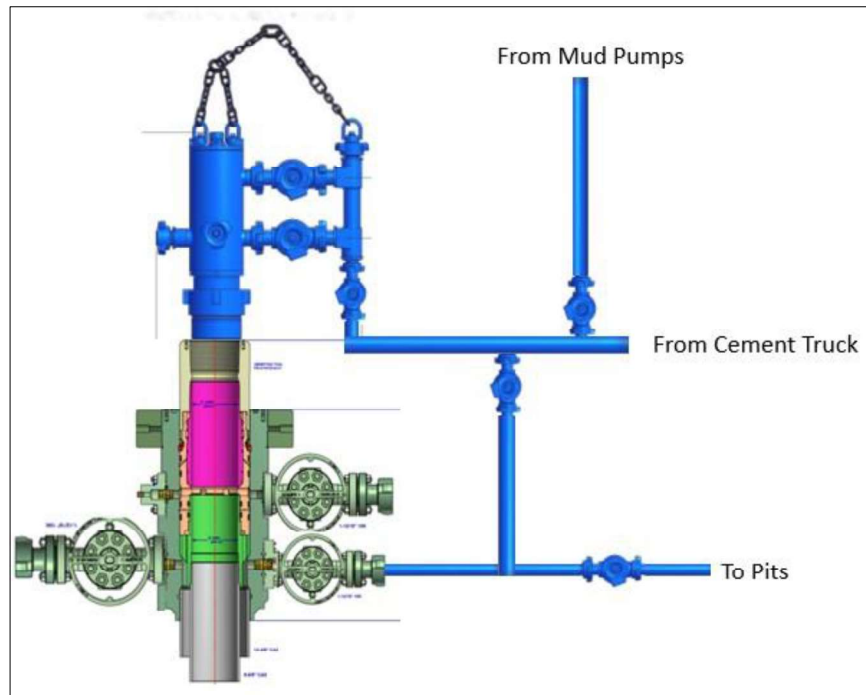
Annular packoff with both external and internal seals

XTO Permian Operating, LLC Offline Cementing Variance Request



Wellhead diagram during skidding operations

6. Skid rig to next well on pad.
7. Confirm well is static before removing cap flange, flange will not be removed and offline cementing operations will not commence until well is under control. If well is not static, casing outlet valves will provide access to both the casing ID and annulus. Rig or third party pump truck will kill well prior to cementing or nipping up for further remediation.
 - a. Well Control Plan
 - i. The Drillers Method will be the primary well control method to regain control of the wellbore prior to cementing, if wellbore conditions do not permit the drillers method other methods of well control may be used
 - ii. Rig pumps or a 3rd party pump will be tied into the upper casing valve to pump down the casing ID
 - iii. A high pressure return line will be rigged up to lower casing valve and run to choke manifold to control annular pressure
 - iv. Once influx is circulated out of the hole, kill weight mud will be circulated
 - v. Well will be confirmed static
 - vi. Once confirmed static, cap flange will be removed to allow for offline cementing operations to commence
8. Install offline cement tool
9. Rig up cement equipment

XTO Permian Operating, LLC Offline Cementing Variance Request

Wellhead diagram during offline cementing operations

10. Circulate bottoms up with cement truck
 - a. If gas is present on bottoms up, well will be shut in and returns rerouted through gas buster to handle entrained gas
 - b. Max anticipated time before circulating with cement truck is 6 hrs
11. Perform cement job taking returns from the annulus wellhead valve
12. Confirm well is static and floats are holding after cement job
13. Remove cement equipment, offline cement tools and install night cap with pressure gauge for monitoring.

**BLACK GOLD®**

GATES ENGINEERING & SERVICES NORTH AMERICA
7603 Prairie Oak Dr.
Houston, TX. 77086

PHONE: +1 (281) 602-4100**FAX: +1 (281) 602-4147****EMAIL: gesna.quality@gates.com****WEB: www.gates.com/oilandgas**

*NEW CHOKE HOSE
INSTALLED 02-10-2024*

CERTIFICATE OF CONFORMANCE

This is to verify that the items detailed below meet the requirements of the Customer's Purchase Order referenced herein, and are in Conformance with applicable specifications, and that Records of Required Tests are on file and subject to examination. The following items were inspected and hydrostatically tested at **Gates Engineering & Services North America** facilities in Houston, TX, USA.

CUSTOMER: NABORS DRILLING TECHNOLOGIES USA DBA NABORS DRILLING USA
CUSTOMER P.O.#: 15582803 (TAG NABORS PO #15582803 SN 74621 ASSET 66-1531)
CUSTOMER P/N: IMR RETEST SN 74621 ASSET #66-1531

PART DESCRIPTION: RETEST OF CUSTOMER 3" X 45 FT 16C CHOKE & KILL HOSE ASSEMBLY C/W 4 1/16" 10K FLANGES

SALES ORDER #: 529480
QUANTITY: 1
SERIAL #: 74621 H3-012524-1

SIGNATURE:*F. OSMOS***TITLE:****QUALITY ASSURANCE****DATE:****1/25/2024**



H3-15/16

1/25/2024 11:48:06 AM

TEST REPORT

CUSTOMER

Company: Nabors Industries Inc.

Production description: 74621/66-1531

Sales order #: 529480

Customer reference: FG1213

TEST OBJECT

Serial number: H3-012524-1

Lot number:

Description: 74621/66-1531

Hose ID: 3" 16C CK

Part number:

TEST INFORMATION

Test procedure: GTS-04-053

Test pressure: 15000.00 psi

Test pressure hold: 3600.00 sec

Work pressure: 10000.00 psi

Work pressure hold: 900.00 sec

Length difference: 0.00 %

Length difference: 0.00 inch

Fitting 1: 3.0 x 4-1/16 10K

Part number:

Description:

Fitting 2: 3.0 x 4-1/16 10K

Part number:

Description:

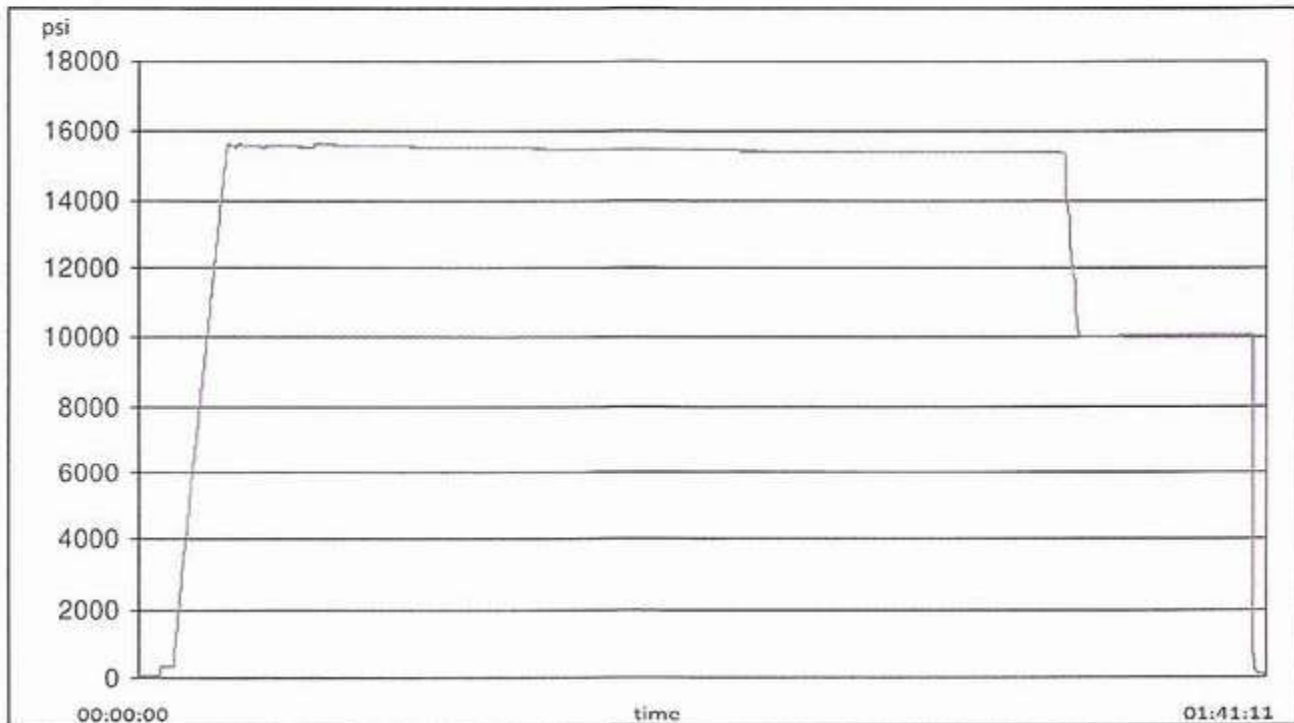
Visual check:

Pressure test result: PASS

Length measurement result:

Length: 45 feet

Test operator: Travis





H3-15/1b

1/25/2024 11:48:06 AM

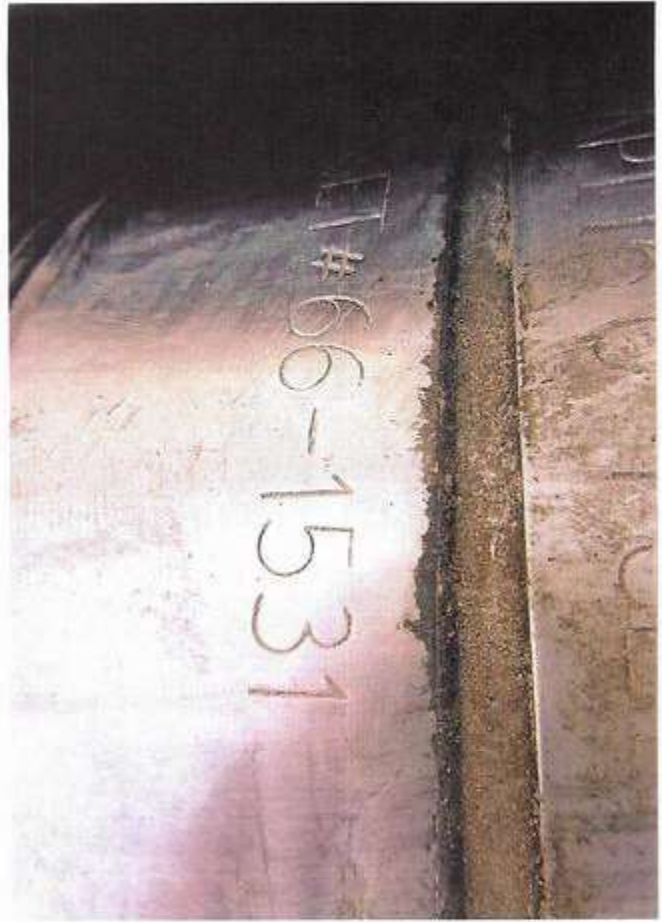
TEST REPORT

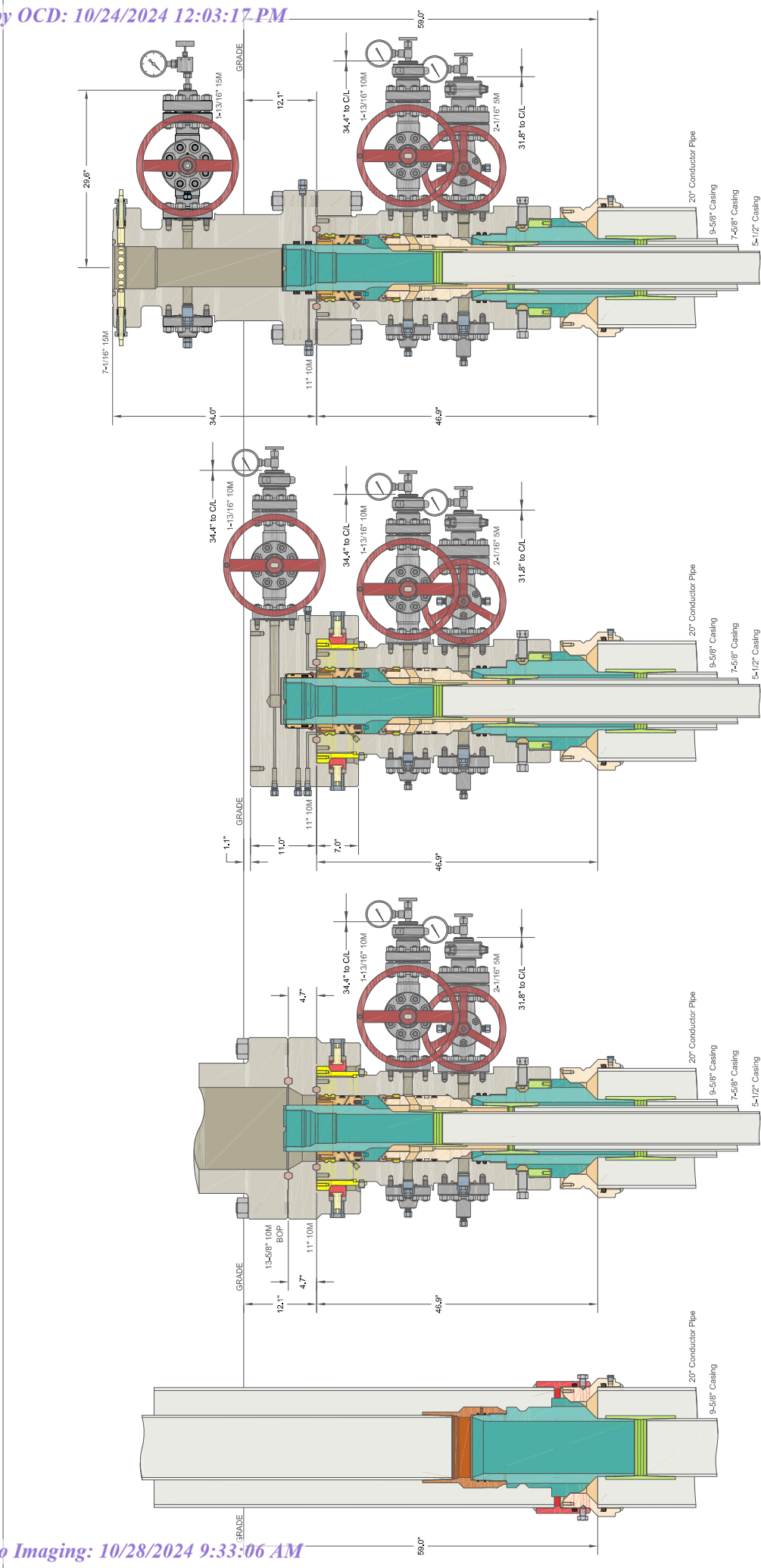
GAUGE TRACEABILITY

Description	Serial number	Calibration date	Calibration due date
S-25-A-W	110D3PHO	2023-06-06	2024-06-06
S-25-A-W	110IQWDG	2023-05-16	2024-05-16

Comment







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

INFORMATION CONTAINED HEREIN IS THE PROPERTY OF CACTUS WELLHEAD, LLC. REPRODUCTION, DISCLOSURE, OR USE THEREOF IS PERMISSIBLE ONLY AS PROVIDED BY CONTRACT GRANTS EXPRESSLY AUTHORIZED BY CACTUS WELLHEAD, LLC.

Well Plan Report - Poker Lake Unit 22 DTD South 406H

Measured Depth: 24073.36 ft
TVD RKB: 11178.00 ft
Location
Cartographic Reference System: New Mexico East - NAD 27
Northing: 440368.40 ft
Easting: 645223.70 ft
RKB: 3462.00 ft
Ground Level: 3430.00 ft
North Reference: Grid
Convergence Angle: 0.25 Deg

Plan Sections Poker Lake Unit 22 DTD South 406H

Measured	Depth (ft)	Inclination (Deg)	Azimuth (Deg)	TVD		Y Offset (ft)	X Offset (ft)	Build		Turn		Dogleg	
				RKB	(ft)			Rate (Deg/100ft)	Rate (Deg/100ft)	Rate (Deg/100ft)	Rate (Deg/100ft)	Rate (Deg/100ft)	Target
	0.00	0.00	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	0.00	0.00	
	1785.04	13.70	82.93		1778.53	10.03	80.89	2.00	0.00	0.00	0.00	2.00	
	6152.25	13.70	82.93		6021.47	137.37	1107.41	0.00	0.00	0.00	0.00	0.00	
	6837.28	0.00	0.00		6700.00	147.40	1188.30	-2.00	0.00	0.00	0.00	2.00	
	10599.08	0.00	0.00		10461.80	147.40	1188.30	0.00	0.00	0.00	0.00	0.00	
	11724.08	90.00	179.66		11178.00	-568.78	1192.57	8.00	0.00	0.00	0.00	8.00	
	23983.42	90.00	179.66		11178.00	-12827.90	1265.75	0.00	0.00	0.00	0.00	0.00	LTP 28
	24073.36	90.00	179.66		11178.00	-12917.84	1266.29	0.00	0.00	0.00	0.00	0.00	BHL 28

Position Uncertainty Poker Lake Unit 22 DTD South 406H

Measured	TVD		Highside		Lateral		Vertical		Magnitude		Semi-major		Semi-minor		Tool	
Depth	Inclination	Azimuth	RKB	Error	Bias	Error	Bias	Error	Bias	of Bias	Error	Error	Error	Azimuth	Used	Used

0.000	0.000	(°)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	0.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
100.000	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	0.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
200.000	0.000	0.000	100.000	0.000	0.358	0.000	0.179	0.000	2.300	0.000	0.000	0.358	0.179	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
300.000	0.000	0.000	200.000	0.000	0.717	0.000	0.538	0.000	2.310	0.000	0.000	0.717	0.538	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
400.000	0.000	0.000	300.000	0.000	1.075	0.000	0.896	0.000	2.326	0.000	0.000	1.075	0.896	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
500.000	0.000	0.000	400.000	0.000	1.434	0.000	1.255	0.000	2.347	0.000	0.000	1.434	1.255	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
600.000	0.000	0.000	500.000	0.000	1.792	0.000	1.613	0.000	2.375	0.000	0.000	1.792	1.613	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
700.000	0.000	0.000	600.000	0.000	2.151	0.000	1.972	0.000	2.407	0.000	0.000	2.151	1.972	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
800.000	0.000	0.000	700.000	0.000	2.509	0.000	2.330	0.000	2.445	0.000	0.000	2.509	2.330	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
900.000	0.000	0.000	800.000	0.000	2.868	0.000	2.689	0.000	2.486	0.000	0.000	2.868	2.689	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
1000.000	0.000	0.000	900.000	0.000	3.226	0.000	3.047	0.000	2.533	0.000	0.000	3.226	3.047	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
1100.000	0.000	0.000	1000.000	0.000	3.585	0.000	3.405	0.000	2.583	0.000	0.000	3.585	3.405	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
1200.000	0.000	0.000	1100.000	0.000	3.943	0.000	3.764	0.000	2.636	0.000	0.000	3.943	3.764	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
1300.000	2.000	82.929	1199.980	0.000	4.116	0.000	4.292	0.000	2.692	0.000	0.000	4.294	4.115	90.084	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
1400.000	4.000	82.929	1299.838	0.000	4.454	0.000	4.637	0.000	2.750	0.000	0.000	4.640	4.461	90.308	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
1500.000	6.000	82.929	1399.452	0.000	4.789	0.000	4.985	0.000	2.808	0.000	0.000	4.988	4.808	90.583	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
1600.000	8.000	82.929	1498.702	0.000	5.120	0.000	5.335	0.000	2.868	0.000	0.000	5.338	5.156	90.893	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
1700.000	10.000	82.929	1597.465	0.000	5.445	0.000	5.686	0.000	2.928	0.000	0.000	5.690	5.503	91.213	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
1785.038	12.000	82.929	1695.623	0.000	5.765	0.000	6.039	0.000	2.991	0.000	0.000	6.043	5.850	91.512	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
1800.000	13.701	82.929	1778.528	0.000	6.033	0.000	6.340	0.000	3.046	0.000	0.000	6.344	6.143	91.751	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
1900.000	13.701	82.929	1793.064	0.000	6.085	0.000	6.393	0.000	3.052	0.000	0.000	6.397	6.196	91.872	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
2000.000	13.701	82.929	1890.219	0.000	6.433	0.000	6.749	0.000	3.134	0.000	0.000	6.754	6.534	91.809	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
2100.000	13.701	82.929	1987.374	0.000	6.784	0.000	7.107	0.000	3.220	0.000	0.000	7.113	6.874	91.788	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
2200.000	13.701	82.929	2084.528	0.000	7.136	0.000	7.467	0.000	3.308	0.000	0.000	7.473	7.215	91.796	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
2300.000	13.701	82.929	2181.683	0.000	7.489	0.000	7.828	0.000	3.400	0.000	0.000	7.835	7.558	91.823	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
2400.000	13.701	82.929	2278.837	0.000	7.844	0.000	8.191	0.000	3.495	0.000	0.000	8.198	7.902	91.863	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
2500.000	13.701	82.929	2375.992	0.000	8.200	0.000	8.554	0.000	3.592	0.000	0.000	8.562	8.246	91.912	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
2600.000	13.701	82.929	2473.147	0.000	8.556	0.000	8.918	0.000	3.692	0.000	0.000	8.926	8.592	91.967	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
2700.000	13.701	82.929	2570.301	0.000	8.913	0.000	9.283	0.000	3.794	0.000	0.000	9.292	8.938	92.025	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
2800.000	13.701	82.929	2667.456	0.000	9.271	0.000	9.649	0.000	3.898	0.000	0.000	9.658	9.286	92.085	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
2900.000	13.701	82.929	2764.610	0.000	9.629	0.000	10.015	0.000	4.004	0.000	0.000	10.025	9.633	92.146	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
3000.000	13.701	82.929	2861.765	0.000	9.988	0.000	10.382	0.000	4.112	0.000	0.000	10.393	9.982	92.208	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
3100.000	13.701	82.929	2958.920	0.000	10.348	0.000	10.750	0.000	4.222	0.000	0.000	10.761	10.330	92.268	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
	13.701	82.929	3056.074	0.000	10.708	0.000	11.118	0.000	4.334	0.000	0.000	11.130	10.680	92.328	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22

3200.000	13.701	82.929	3153.229	11.068	0.000	11.486	0.000	4.448	0.000	0.000	11.499	11.029	92.387	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
3300.000	13.701	82.929	3250.383	11.428	0.000	11.855	0.000	4.563	0.000	0.000	11.868	11.379	92.444	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
3400.000	13.701	82.929	3347.538	11.789	0.000	12.224	0.000	4.680	0.000	0.000	12.238	11.730	92.500	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
3500.000	13.701	82.929	3444.693	12.151	0.000	12.593	0.000	4.799	0.000	0.000	12.608	12.080	92.555	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
3600.000	13.701	82.929	3541.847	12.512	0.000	12.963	0.000	4.919	0.000	0.000	12.978	12.431	92.608	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
3700.000	13.701	82.929	3639.002	12.874	0.000	13.333	0.000	5.041	0.000	0.000	13.349	12.783	92.659	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
3800.000	13.701	82.929	3736.156	13.236	0.000	13.703	0.000	5.164	0.000	0.000	13.719	13.134	92.709	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
3900.000	13.701	82.929	3833.311	13.598	0.000	14.073	0.000	5.289	0.000	0.000	14.090	13.486	92.758	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
4000.000	13.701	82.929	3930.466	13.960	0.000	14.444	0.000	5.415	0.000	0.000	14.462	13.838	92.805	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
4100.000	13.701	82.929	4027.620	14.323	0.000	14.814	0.000	5.543	0.000	0.000	14.833	14.190	92.850	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
4200.000	13.701	82.929	4124.775	14.685	0.000	15.185	0.000	5.672	0.000	0.000	15.205	14.542	92.895	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
4300.000	13.701	82.929	4221.929	15.048	0.000	15.556	0.000	5.803	0.000	0.000	15.577	14.895	92.938	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
4400.000	13.701	82.929	4319.084	15.411	0.000	15.928	0.000	5.935	0.000	0.000	15.949	15.247	92.980	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
4500.000	13.701	82.929	4416.239	15.774	0.000	16.299	0.000	6.069	0.000	0.000	16.321	15.600	93.020	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
4600.000	13.701	82.929	4513.393	16.138	0.000	16.670	0.000	6.204	0.000	0.000	16.693	15.953	93.060	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
4700.000	13.701	82.929	4610.548	16.501	0.000	17.042	0.000	6.341	0.000	0.000	17.065	16.306	93.099	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
4800.000	13.701	82.929	4707.702	16.864	0.000	17.414	0.000	6.479	0.000	0.000	17.438	16.660	93.136	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
4900.000	13.701	82.929	4804.857	17.228	0.000	17.786	0.000	6.619	0.000	0.000	17.810	17.013	93.173	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
5000.000	13.701	82.929	4902.012	17.592	0.000	18.158	0.000	6.761	0.000	0.000	18.183	17.367	93.208	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
5100.000	13.701	82.929	4999.166	17.955	0.000	18.530	0.000	6.904	0.000	0.000	18.556	17.720	93.243	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
5200.000	13.701	82.929	5096.321	18.319	0.000	18.902	0.000	7.049	0.000	0.000	18.929	18.074	93.277	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
5300.000	13.701	82.929	5193.475	18.683	0.000	19.274	0.000	7.195	0.000	0.000	19.302	18.428	93.311	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
5400.000	13.701	82.929	5290.630	19.047	0.000	19.646	0.000	7.343	0.000	0.000	19.675	18.782	93.343	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
5500.000	13.701	82.929	5387.785	19.411	0.000	20.018	0.000	7.493	0.000	0.000	20.048	19.136	93.375	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
5600.000	13.701	82.929	5484.939	19.775	0.000	20.391	0.000	7.644	0.000	0.000	20.421	19.490	93.406	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
5700.000	13.701	82.929	5582.094	20.139	0.000	20.763	0.000	7.797	0.000	0.000	20.794	19.845	93.437	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
5800.000	13.701	82.929	5679.248	20.503	0.000	21.136	0.000	7.952	0.000	0.000	21.168	20.199	93.467	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
5900.000	13.701	82.929	5776.403	20.868	0.000	21.508	0.000	8.109	0.000	0.000	21.541	20.554	93.497	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
6000.000	13.701	82.929	5873.558	21.232	0.000	21.881	0.000	8.267	0.000	0.000	21.914	20.908	93.526	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
6100.000	13.701	82.929	5970.712	21.596	0.000	22.254	0.000	8.428	0.000	0.000	22.288	21.263	93.554	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
6152.246	13.701	82.929	6021.472	21.787	0.000	22.448	0.000	8.512	0.000	0.000	22.483	21.448	93.570	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
6200.000	12.746	82.929	6067.959	21.975	0.000	22.626	0.000	8.590	0.000	0.000	22.661	21.617	93.583	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
6300.000	10.746	82.929	6165.860	22.350	0.000	22.995	0.000	8.753	0.000	0.000	23.030	21.972	93.623	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
6400.000	8.746	82.929	6264.412	22.700	0.000	23.359	0.000	8.912	0.000	0.000	23.395	22.327	93.680	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22

6500.000	6.746	82.929	6363.494	23.024	0.000	23.719	0.000	9.068	0.000	0.000	23.756	22.682	93.752	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
6600.000	4.746	82.929	6462.987	23.320	0.000	24.074	0.000	9.219	0.000	0.000	24.112	23.037	93.832	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
6700.000	2.746	82.929	6562.768	23.588	0.000	24.425	0.000	9.367	0.000	0.000	24.463	23.389	93.914	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
6800.000	0.746	82.929	6662.717	23.827	0.000	24.771	0.000	9.511	0.000	0.000	24.809	23.739	93.990	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
6837.284	0.000	0.000	6700.000	24.931	0.000	23.872	0.000	9.564	0.000	0.000	24.936	23.867	93.987	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
6900.000	0.000	0.000	6762.716	25.143	0.000	24.084	0.000	9.652	0.000	0.000	25.148	24.079	93.930	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
7000.000	0.000	0.000	6862.716	25.481	0.000	24.422	0.000	9.796	0.000	0.000	25.485	24.417	93.843	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
7100.000	0.000	0.000	6962.716	25.819	0.000	24.761	0.000	9.943	0.000	0.000	25.824	24.756	93.757	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
7200.000	0.000	0.000	7062.716	26.158	0.000	25.100	0.000	10.092	0.000	0.000	26.163	25.096	93.674	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
7300.000	0.000	0.000	7162.716	26.498	0.000	25.440	0.000	10.244	0.000	0.000	26.502	25.436	93.593	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
7400.000	0.000	0.000	7262.716	26.838	0.000	25.781	0.000	10.399	0.000	0.000	26.842	25.777	93.513	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
7500.000	0.000	0.000	7362.716	27.179	0.000	26.122	0.000	10.557	0.000	0.000	27.183	26.118	93.436	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
7600.000	0.000	0.000	7462.716	27.520	0.000	26.463	0.000	10.718	0.000	0.000	27.523	26.459	93.361	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
7700.000	0.000	0.000	7562.716	27.861	0.000	26.805	0.000	10.882	0.000	0.000	27.865	26.801	93.287	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
7800.000	0.000	0.000	7662.716	28.203	0.000	27.147	0.000	11.048	0.000	0.000	28.207	27.143	93.215	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
7900.000	0.000	0.000	7762.716	28.546	0.000	27.489	0.000	11.218	0.000	0.000	28.549	27.486	93.145	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
8000.000	0.000	0.000	7862.716	28.888	0.000	27.832	0.000	11.391	0.000	0.000	28.891	27.829	93.076	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
8100.000	0.000	0.000	7962.716	29.231	0.000	28.176	0.000	11.566	0.000	0.000	29.234	28.173	93.009	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
8200.000	0.000	0.000	8062.716	29.575	0.000	28.520	0.000	11.745	0.000	0.000	29.578	28.517	92.944	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
8300.000	0.000	0.000	8162.716	29.919	0.000	28.864	0.000	11.927	0.000	0.000	29.921	28.861	92.879	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
8400.000	0.000	0.000	8262.716	30.263	0.000	29.208	0.000	12.111	0.000	0.000	30.265	29.206	92.817	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
8500.000	0.000	0.000	8362.716	30.607	0.000	29.553	0.000	12.299	0.000	0.000	30.610	29.551	92.756	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
8600.000	0.000	0.000	8462.716	30.952	0.000	29.898	0.000	12.490	0.000	0.000	30.954	29.896	92.696	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
8700.000	0.000	0.000	8562.716	31.297	0.000	30.244	0.000	12.683	0.000	0.000	31.299	30.241	92.637	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
8800.000	0.000	0.000	8662.716	31.643	0.000	30.589	0.000	12.880	0.000	0.000	31.645	30.587	92.580	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
8900.000	0.000	0.000	8762.716	31.988	0.000	30.935	0.000	13.080	0.000	0.000	31.990	30.933	92.523	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
9000.000	0.000	0.000	8862.716	32.334	0.000	31.282	0.000	13.283	0.000	0.000	32.336	31.280	92.468	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
9100.000	0.000	0.000	8962.716	32.680	0.000	31.628	0.000	13.490	0.000	0.000	32.682	31.626	92.414	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
9200.000	0.000	0.000	9062.716	33.027	0.000	31.975	0.000	13.699	0.000	0.000	33.029	31.973	92.362	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
9300.000	0.000	0.000	9162.716	33.374	0.000	32.322	0.000	13.911	0.000	0.000	33.375	32.320	92.310	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
9400.000	0.000	0.000	9262.716	33.721	0.000	32.670	0.000	14.127	0.000	0.000	33.722	32.668	92.259	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
9500.000	0.000	0.000	9362.716	34.068	0.000	33.017	0.000	14.345	0.000	0.000	34.069	33.015	92.209	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
9600.000	0.000	0.000	9462.716	34.415	0.000	33.365	0.000	14.567	0.000	0.000	34.417	33.363	92.161	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
9700.000	0.000	0.000	9562.716	34.763	0.000	33.713	0.000	14.792	0.000	0.000	34.764	33.711	92.113	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22

9800.000	0.000	0.000	9662.716	35.111	0.000	34.061	0.000	15.020	0.000	0.000	35.112	34.060	92.066	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
9900.000	0.000	0.000	9762.716	35.459	0.000	34.410	0.000	15.251	0.000	0.000	35.460	34.408	92.020	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
10000.000	0.000	0.000	9862.716	35.807	0.000	34.758	0.000	15.485	0.000	0.000	35.809	34.757	91.975	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
10100.000	0.000	0.000	9962.716	36.156	0.000	35.107	0.000	15.723	0.000	0.000	36.157	35.106	91.931	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
10200.000	0.000	0.000	10062.716	36.505	0.000	35.456	0.000	15.963	0.000	0.000	36.506	35.455	91.887	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
10300.000	0.000	0.000	10162.716	36.853	0.000	35.805	0.000	16.207	0.000	0.000	36.854	35.804	91.844	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
10400.000	0.000	0.000	10262.716	37.202	0.000	36.155	0.000	16.454	0.000	0.000	37.204	36.154	91.803	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
10500.000	0.000	0.000	10362.716	37.552	0.000	36.504	0.000	16.704	0.000	0.000	37.553	36.503	91.761	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
10599.084	0.000	0.000	10461.800	37.898	0.000	36.851	0.000	16.955	0.000	0.000	37.899	36.850	91.721	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
10700.000	8.073	179.658	10562.382	37.854	0.000	37.191	-0.000	17.211	0.000	0.000	38.235	37.190	91.683	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
10800.000	16.073	179.658	10660.091	37.207	0.000	37.510	-0.000	17.457	0.000	0.000	38.545	37.509	91.661	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
10900.000	24.073	179.658	10753.940	35.994	0.000	37.815	-0.000	17.689	0.000	0.000	38.834	37.814	91.700	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
11000.000	32.073	179.658	10842.103	34.261	0.000	38.102	-0.000	17.905	0.000	0.000	39.092	38.100	91.857	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
11100.000	40.073	179.658	10922.864	32.078	0.000	38.366	-0.000	18.102	0.000	0.000	39.313	38.364	92.204	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
11200.000	48.073	179.658	10994.651	29.547	0.000	38.605	-0.000	18.279	0.000	0.000	39.493	38.602	92.841	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
11300.000	56.073	179.658	11056.066	26.811	0.000	38.815	-0.000	18.437	0.000	0.000	39.632	38.811	93.901	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
11400.000	64.073	179.658	11105.915	24.071	0.000	38.994	-0.000	18.576	0.000	0.000	39.733	38.986	95.555	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
11500.000	72.073	179.658	11143.227	21.604	0.000	39.139	-0.000	18.699	0.000	0.000	39.800	39.125	97.980	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
11600.000	80.073	179.658	11167.275	19.768	0.000	39.249	-0.000	18.808	0.000	0.000	39.844	39.224	101.218	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
11700.000	88.073	179.658	11177.592	18.944	0.000	39.322	-0.000	18.906	0.000	0.000	39.876	39.280	104.924	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
11724.084	90.000	179.658	11177.997	18.928	0.000	39.333	-0.000	18.928	0.000	0.000	39.883	39.286	105.772	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
11800.000	90.000	179.658	11177.997	19.000	0.000	39.368	-0.000	19.000	0.000	0.000	39.904	39.305	108.552	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
11900.000	90.000	179.658	11177.997	19.104	0.000	39.424	-0.000	19.104	0.000	0.000	39.938	39.333	112.389	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
12000.000	90.000	179.658	11177.997	19.218	0.000	39.487	-0.000	19.218	0.000	0.000	39.980	39.362	116.365	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
12100.000	90.000	179.658	11177.997	19.342	0.000	39.560	-0.000	19.342	0.000	0.000	40.029	39.392	120.419	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
12200.000	90.000	179.658	11177.997	19.476	0.000	39.640	-0.000	19.476	0.000	0.000	40.088	39.422	124.469	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
12300.000	90.000	179.658	11177.997	19.620	0.000	39.729	-0.000	19.620	0.000	0.000	40.156	39.451	128.422	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
12400.000	90.000	179.658	11177.997	19.773	0.000	39.826	-0.000	19.773	0.000	0.000	40.234	39.480	132.192	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
12500.000	90.000	179.658	11177.997	19.935	0.000	39.932	-0.000	19.935	0.000	0.000	40.323	39.507	-44.287	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
12600.000	90.000	179.658	11177.997	20.106	0.000	40.045	-0.000	20.106	0.000	0.000	40.421	39.533	-41.054	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
12700.000	90.000	179.658	11177.997	20.286	0.000	40.167	-0.000	20.286	0.000	0.000	40.529	39.558	-38.122	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
12800.000	90.000	179.658	11177.997	20.474	0.000	40.297	-0.000	20.474	0.000	0.000	40.647	39.581	-35.486	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
12900.000	90.000	179.658	11177.997	20.671	0.000	40.434	-0.000	20.671	0.000	0.000	40.774	39.604	-33.127	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
13000.000	90.000	179.658	11177.997	20.876	0.000	40.580	-0.000	20.876	0.000	0.000	40.910	39.626	-31.020	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22

13100.000	90.000	179.658	11177.997	21.088	0.000	40.733	-0.000	21.088	0.000	0.000	41.055	39.648	-29.139	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
13200.000	90.000	179.658	11177.997	21.308	0.000	40.894	-0.000	21.308	0.000	0.000	41.209	39.669	-27.455	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
13300.000	90.000	179.658	11177.997	21.536	0.000	41.063	-0.000	21.536	0.000	0.000	41.371	39.691	-25.946	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
13400.000	90.000	179.658	11177.997	21.770	0.000	41.239	-0.000	21.770	0.000	0.000	41.541	39.712	-24.588	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
13500.000	90.000	179.658	11177.997	22.012	0.000	41.422	-0.000	22.012	0.000	0.000	41.720	39.733	-23.362	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
13600.000	90.000	179.658	11177.997	22.260	0.000	41.613	-0.000	22.260	0.000	0.000	41.906	39.755	-22.251	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
13700.000	90.000	179.658	11177.997	22.514	0.000	41.811	-0.000	22.514	0.000	0.000	42.099	39.777	-21.241	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
13800.000	90.000	179.658	11177.997	22.775	0.000	42.016	-0.000	22.775	0.000	0.000	42.300	39.799	-20.319	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
13900.000	90.000	179.658	11177.997	23.042	0.000	42.228	-0.000	23.042	0.000	0.000	42.508	39.821	-19.475	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
14000.000	90.000	179.658	11177.997	23.315	0.000	42.447	-0.000	23.315	0.000	0.000	42.724	39.844	-18.700	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
14100.000	90.000	179.658	11177.997	23.593	0.000	42.672	-0.000	23.593	0.000	0.000	42.946	39.867	-17.986	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
14200.000	90.000	179.658	11177.997	23.876	0.000	42.905	-0.000	23.876	0.000	0.000	43.175	39.891	-17.325	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
14300.000	90.000	179.658	11177.997	24.165	0.000	43.144	-0.000	24.165	0.000	0.000	43.411	39.915	-16.713	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
14400.000	90.000	179.658	11177.997	24.459	0.000	43.389	-0.000	24.459	0.000	0.000	43.654	39.939	-16.144	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
14500.000	90.000	179.658	11177.997	24.758	0.000	43.641	-0.000	24.758	0.000	0.000	43.903	39.965	-15.614	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
14600.000	90.000	179.658	11177.997	25.061	0.000	43.899	-0.000	25.061	0.000	0.000	44.158	39.990	-15.119	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
14700.000	90.000	179.658	11177.997	25.369	0.000	44.163	-0.000	25.369	0.000	0.000	44.420	40.016	-14.655	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
14800.000	90.000	179.658	11177.997	25.681	0.000	44.434	-0.000	25.681	0.000	0.000	44.688	40.043	-14.220	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
14900.000	90.000	179.658	11177.997	25.997	0.000	44.710	-0.000	25.997	0.000	0.000	44.961	40.070	-13.812	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
15000.000	90.000	179.658	11177.997	26.318	0.000	44.992	-0.000	26.318	0.000	0.000	45.241	40.098	-13.427	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
15100.000	90.000	179.658	11177.997	26.642	0.000	45.279	-0.000	26.642	0.000	0.000	45.526	40.127	-13.064	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
15200.000	90.000	179.658	11177.997	26.970	0.000	45.572	-0.000	26.970	0.000	0.000	45.817	40.156	-12.721	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
15300.000	90.000	179.658	11177.997	27.302	0.000	45.871	-0.000	27.302	0.000	0.000	46.114	40.185	-12.396	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
15400.000	90.000	179.658	11177.997	27.637	0.000	46.175	-0.000	27.637	0.000	0.000	46.416	40.215	-12.088	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
15500.000	90.000	179.658	11177.997	27.976	0.000	46.485	-0.000	27.976	0.000	0.000	46.723	40.246	-11.796	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
15600.000	90.000	179.658	11177.997	28.318	0.000	46.799	-0.000	28.318	0.000	0.000	47.035	40.277	-11.518	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
15700.000	90.000	179.658	11177.997	28.663	0.000	47.119	-0.000	28.663	0.000	0.000	47.353	40.309	-11.253	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
15800.000	90.000	179.658	11177.997	29.011	0.000	47.443	-0.000	29.011	0.000	0.000	47.676	40.342	-11.001	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
15900.000	90.000	179.658	11177.997	29.361	0.000	47.773	-0.000	29.361	0.000	0.000	48.003	40.375	-10.761	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
16000.000	90.000	179.658	11177.997	29.715	0.000	48.107	-0.000	29.715	0.000	0.000	48.335	40.409	-10.531	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
16100.000	90.000	179.658	11177.997	30.072	0.000	48.446	-0.000	30.072	0.000	0.000	48.672	40.443	-10.312	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
16200.000	90.000	179.658	11177.997	30.431	0.000	48.789	-0.000	30.431	0.000	0.000	49.014	40.478	-10.102	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
16300.000	90.000	179.658	11177.997	30.792	0.000	49.137	-0.000	30.792	0.000	0.000	49.360	40.513	-9.900	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
16400.000	90.000	179.658	11177.997	31.156	0.000	49.489	-0.000	31.156	0.000	0.000	49.710	40.549	-9.707	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22

16500.000	90.000	179.658	11177.997	31.522	0.000	49.846	-0.000	31.522	0.000	0.000	50.065	40.586	-9.522	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
16600.000	90.000	179.658	11177.997	31.891	0.000	50.207	-0.000	31.891	0.000	0.000	50.424	40.623	-9.344	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
16700.000	90.000	179.658	11177.997	32.262	0.000	50.572	-0.000	32.262	0.000	0.000	50.787	40.661	-9.173	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
16800.000	90.000	179.658	11177.997	32.635	0.000	50.940	-0.000	32.635	0.000	0.000	51.154	40.700	-9.008	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
16900.000	90.000	179.658	11177.997	33.009	0.000	51.313	-0.000	33.009	0.000	0.000	51.525	40.739	-8.850	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
17000.000	90.000	179.658	11177.997	33.386	0.000	51.690	-0.000	33.386	0.000	0.000	51.900	40.779	-8.697	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
17100.000	90.000	179.658	11177.997	33.765	0.000	52.070	-0.000	33.765	0.000	0.000	52.279	40.819	-8.550	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
17200.000	90.000	179.658	11177.997	34.146	0.000	52.454	-0.000	34.146	0.000	0.000	52.661	40.860	-8.407	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
17300.000	90.000	179.658	11177.997	34.528	0.000	52.842	-0.000	34.528	0.000	0.000	53.047	40.901	-8.270	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
17400.000	90.000	179.658	11177.997	34.912	0.000	53.233	-0.000	34.912	0.000	0.000	53.437	40.943	-8.138	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
17500.000	90.000	179.658	11177.997	35.298	0.000	53.628	-0.000	35.298	0.000	0.000	53.830	40.986	-8.010	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
17600.000	90.000	179.658	11177.997	35.686	0.000	54.026	-0.000	35.686	0.000	0.000	54.226	41.029	-7.886	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
17700.000	90.000	179.658	11177.997	36.075	0.000	54.427	-0.000	36.075	0.000	0.000	54.626	41.073	-7.766	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
17800.000	90.000	179.658	11177.997	36.465	0.000	54.832	-0.000	36.465	0.000	0.000	55.029	41.117	-7.649	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
17900.000	90.000	179.658	11177.997	36.857	0.000	55.239	-0.000	36.857	0.000	0.000	55.435	41.162	-7.537	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
18000.000	90.000	179.658	11177.997	37.250	0.000	55.650	-0.000	37.250	0.000	0.000	55.844	41.208	-7.428	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
18100.000	90.000	179.658	11177.997	37.645	0.000	56.064	-0.000	37.645	0.000	0.000	56.256	41.254	-7.322	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
18200.000	90.000	179.658	11177.997	38.041	0.000	56.480	-0.000	38.041	0.000	0.000	56.671	41.301	-7.219	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
18300.000	90.000	179.658	11177.997	38.439	0.000	56.900	-0.000	38.439	0.000	0.000	57.089	41.348	-7.120	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
18400.000	90.000	179.658	11177.997	38.837	0.000	57.322	-0.000	38.837	0.000	0.000	57.510	41.396	-7.023	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
18500.000	90.000	179.658	11177.997	39.237	0.000	57.748	-0.000	39.237	0.000	0.000	57.934	41.445	-6.929	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
18600.000	90.000	179.658	11177.997	39.638	0.000	58.175	-0.000	39.638	0.000	0.000	58.360	41.494	-6.837	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
18700.000	90.000	179.658	11177.997	40.040	0.000	58.606	-0.000	40.040	0.000	0.000	58.789	41.543	-6.748	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
18800.000	90.000	179.658	11177.997	40.444	0.000	59.039	-0.000	40.444	0.000	0.000	59.221	41.594	-6.662	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
18900.000	90.000	179.658	11177.997	40.848	0.000	59.475	-0.000	40.848	0.000	0.000	59.655	41.644	-6.578	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
19000.000	90.000	179.658	11177.997	41.253	0.000	59.913	-0.000	41.253	0.000	0.000	60.092	41.696	-6.496	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
19100.000	90.000	179.658	11177.997	41.660	0.000	60.353	-0.000	41.660	0.000	0.000	60.531	41.748	-6.416	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
19200.000	90.000	179.658	11177.997	42.067	0.000	60.796	-0.000	42.067	0.000	0.000	60.973	41.800	-6.338	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
19300.000	90.000	179.658	11177.997	42.476	0.000	61.241	-0.000	42.476	0.000	0.000	61.416	41.853	-6.263	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
19400.000	90.000	179.658	11177.997	42.885	0.000	61.688	-0.000	42.885	0.000	0.000	61.862	41.907	-6.189	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
19500.000	90.000	179.658	11177.997	43.295	0.000	62.138	-0.000	43.295	0.000	0.000	62.311	41.961	-6.117	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
19600.000	90.000	179.658	11177.997	43.706	0.000	62.590	-0.000	43.706	0.000	0.000	62.761	42.016	-6.047	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
19700.000	90.000	179.658	11177.997	44.118	0.000	63.044	-0.000	44.118	0.000	0.000	63.214	42.071	-5.978	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
19800.000	90.000	179.658	11177.997	44.531	0.000	63.500	-0.000	44.531	0.000	0.000	63.669	42.127	-5.911	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22

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19900.000	90.000	179.658	11177.997	44.944	0.000	63.958	-0.000	44.944	0.000	0.000	64.125	42.183	-5.846	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
20000.000	90.000	179.658	11177.997	45.359	0.000	64.418	-0.000	45.359	0.000	0.000	64.584	42.240	-5.782	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
20100.000	90.000	179.658	11177.997	45.774	0.000	64.880	-0.000	45.774	0.000	0.000	65.045	42.297	-5.720	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
20200.000	90.000	179.658	11177.997	46.189	0.000	65.343	-0.000	46.189	0.000	0.000	65.507	42.355	-5.659	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
20300.000	90.000	179.658	11177.997	46.606	0.000	65.809	-0.000	46.606	0.000	0.000	65.972	42.414	-5.600	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
20400.000	90.000	179.658	11177.997	47.023	0.000	66.277	-0.000	47.023	0.000	0.000	66.438	42.473	-5.541	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
20500.000	90.000	179.658	11177.997	47.441	0.000	66.746	-0.000	47.441	0.000	0.000	66.906	42.533	-5.484	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
20600.000	90.000	179.658	11177.997	47.860	0.000	67.217	-0.000	47.860	0.000	0.000	67.376	42.593	-5.429	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
20700.000	90.000	179.658	11177.997	48.279	0.000	67.690	-0.000	48.279	0.000	0.000	67.848	42.653	-5.374	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
20800.000	90.000	179.658	11177.997	48.699	0.000	68.164	-0.000	48.699	0.000	0.000	68.321	42.715	-5.321	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
20900.000	90.000	179.658	11177.997	49.119	0.000	68.640	-0.000	49.119	0.000	0.000	68.796	42.776	-5.269	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
21000.000	90.000	179.658	11177.997	49.540	0.000	69.118	-0.000	49.540	0.000	0.000	69.273	42.838	-5.218	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
21100.000	90.000	179.658	11177.997	49.962	0.000	69.597	-0.000	49.962	0.000	0.000	69.751	42.901	-5.168	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
21200.000	90.000	179.658	11177.997	50.384	0.000	70.078	-0.000	50.384	0.000	0.000	70.230	42.965	-5.119	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
21300.000	90.000	179.658	11177.997	50.807	0.000	70.560	-0.000	50.807	0.000	0.000	70.712	43.028	-5.071	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
21400.000	90.000	179.658	11177.997	51.230	0.000	71.044	-0.000	51.230	0.000	0.000	71.194	43.093	-5.024	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
21500.000	90.000	179.658	11177.997	51.654	0.000	71.529	-0.000	51.654	0.000	0.000	71.679	43.158	-4.977	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
21600.000	90.000	179.658	11177.997	52.078	0.000	72.016	-0.000	52.078	0.000	0.000	72.164	43.223	-4.932	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
21700.000	90.000	179.658	11177.997	52.503	0.000	72.504	-0.000	52.503	0.000	0.000	72.651	43.289	-4.888	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
21800.000	90.000	179.658	11177.997	52.929	0.000	72.993	-0.000	52.929	0.000	0.000	73.140	43.355	-4.844	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
21900.000	90.000	179.658	11177.997	53.355	0.000	73.484	-0.000	53.355	0.000	0.000	73.629	43.422	-4.802	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
22000.000	90.000	179.658	11177.997	53.781	0.000	73.976	-0.000	53.781	0.000	0.000	74.120	43.489	-4.760	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
22100.000	90.000	179.658	11177.997	54.208	0.000	74.469	-0.000	54.208	0.000	0.000	74.613	43.557	-4.719	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
22200.000	90.000	179.658	11177.997	54.635	0.000	74.964	-0.000	54.635	0.000	0.000	75.106	43.626	-4.678	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
22300.000	90.000	179.658	11177.997	55.062	0.000	75.460	-0.000	55.062	0.000	0.000	75.601	43.695	-4.639	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
22400.000	90.000	179.658	11177.997	55.491	0.000	75.957	-0.000	55.491	0.000	0.000	76.097	43.764	-4.600	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
22500.000	90.000	179.658	11177.997	55.919	0.000	76.455	-0.000	55.919	0.000	0.000	76.594	43.834	-4.562	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
22600.000	90.000	179.658	11177.997	56.348	0.000	76.954	-0.000	56.348	0.000	0.000	77.093	43.904	-4.524	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
22700.000	90.000	179.658	11177.997	56.777	0.000	77.455	-0.000	56.777	0.000	0.000	77.592	43.975	-4.488	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
22800.000	90.000	179.658	11177.997	57.207	0.000	77.956	-0.000	57.207	0.000	0.000	78.093	44.046	-4.451	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
22900.000	90.000	179.658	11177.997	57.637	0.000	78.459	-0.000	57.637	0.000	0.000	78.595	44.118	-4.416	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
23000.000	90.000	179.658	11177.997	58.067	0.000	78.963	-0.000	58.067	0.000	0.000	79.098	44.190	-4.381	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
23100.000	90.000	179.658	11177.997	58.498	0.000	79.468	-0.000	58.498	0.000	0.000	79.602	44.263	-4.347	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
23200.000	90.000	179.658	11177.997	58.929	0.000	79.974	-0.000	58.929	0.000	0.000	80.107	44.336	-4.313	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22

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3/4/24, 9:49 PM	23300.000	90.000	179.658	11177.997	59.361	0.000	80.480	-0.000	59.361	0.000	0.000	80.613	44.410	-4.280	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
	23400.000	90.000	179.658	11177.997	59.793	0.000	80.988	-0.000	59.793	0.000	0.000	81.120	44.484	-4.247	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
	23500.000	90.000	179.658	11177.997	60.225	0.000	81.497	-0.000	60.225	0.000	0.000	81.628	44.559	-4.215	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
	23600.000	90.000	179.658	11177.997	60.657	0.000	82.007	-0.000	60.657	0.000	0.000	82.137	44.634	-4.183	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
	23700.000	90.000	179.658	11177.997	61.090	0.000	82.518	-0.000	61.090	0.000	0.000	82.647	44.709	-4.152	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
	23800.000	90.000	179.658	11177.997	61.523	0.000	83.029	-0.000	61.523	0.000	0.000	83.158	44.786	-4.122	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
	23900.000	90.000	179.658	11177.997	61.957	0.000	83.542	-0.000	61.957	0.000	0.000	83.670	44.862	-4.092	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
	23983.421	90.000	179.658	11177.997	62.318	0.000	83.970	-0.000	62.318	0.000	0.000	84.097	44.926	-4.067	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
	24000.000	90.000	179.658	11177.997	62.390	0.000	84.055	-0.000	62.390	0.000	0.000	84.182	44.939	-4.062	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
	24073.360	90.000	179.658	11177.997	62.709	0.000	84.432	-0.000	62.709	0.000	0.000	84.558	44.996	-4.041	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22

Poker Lake Unit 22 DTD South 406H

Plan Targets

Target Name	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape
FTP 28	11500.16	440515.80	646412.00	7716.00	RECTANGLE
SHL 27	12417.55	440370.20	645209.97	7692.89	RECTANGLE
LTP 28	23983.32	427540.60	646489.50	7716.00	RECTANGLE
BHL 28	24073.32	427450.60	646490.40	7716.00	RECTANGLE

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO
LEASE NO.:	NMNM02862
LOCATION:	Sec. 22, T.24 S, R 30 E
COUNTY:	Eddy County, New Mexico ▼
WELL NAME & NO.:	Poker Lake Unit 22 DTD 406H
SURFACE HOLE FOOTAGE:	233'/N & 1237'/E
BOTTOM HOLE FOOTAGE:	2627'/N & 47'E

COA

H ₂ S	<input checked="" type="radio"/> No <input type="radio"/> Yes			
Potash / WIPP	<input checked="" type="radio"/> None	<input type="radio"/> Secretary	<input type="radio"/> R-111-Q	<input type="checkbox"/> Open Annulus <input type="checkbox"/> WIPP
Choose an option (including blank option.)				
Cave / Karst	<input checked="" type="radio"/> Low	<input type="radio"/> Medium	<input type="radio"/> High	<input type="radio"/> Critical
Wellhead	<input type="radio"/> Conventional	<input checked="" type="radio"/> Multibowl	<input type="radio"/> Both	<input type="radio"/> Diverter
Cementing	<input checked="" type="checkbox"/> Primary Squeeze	<input type="checkbox"/> Cont. Squeeze	<input checked="" type="checkbox"/> EchoMeter	<input type="checkbox"/> DV Tool
Special Req	<input type="checkbox"/> Capitan Reef	<input type="checkbox"/> Water Disposal	<input type="checkbox"/> COM	<input checked="" type="checkbox"/> Unit
Waste Prev.	<input type="radio"/> Self-Certification	<input type="radio"/> Waste Min. Plan	<input checked="" type="radio"/> APD Submitted prior to 06/10/2024	
Additional Language	<input checked="" type="checkbox"/> Flex Hose	<input checked="" type="checkbox"/> Casing Clearance	<input type="checkbox"/> Pilot Hole	<input checked="" type="checkbox"/> Break Testing
	<input type="checkbox"/> Four-String	<input checked="" type="checkbox"/> Offline Cementing	<input type="checkbox"/> Fluid-Filled	

A. HYDROGEN SULFIDE

Hydrogen Sulfide (H₂S) monitors shall be installed prior to drilling out the surface shoe. If H₂S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet 43 CFR 3176 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

1. The 9-5/8 inch surface casing shall be set at approximately **950** feet (a minimum of **70 feet** (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping

- cement and ideally between 8-10 hours after completing the cement job.
- b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or **500 pounds compressive strength**, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.

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

2. The minimum required fill of cement behind the **7-5/8** inch intermediate casing is: Operator has proposed to cement in two stages by conventionally cementing the first stage and performing a bradenhead squeeze on the second stage, contingent upon no returns to surface.
 - a. **First stage:** Operator will cement with intent to reach the top of the **Brushy Canyon at 6498'**.
 - b. **Second stage:** Operator will perform bradenhead squeeze and top-out. Cement to surface. If cement does not reach surface, the appropriate BLM office shall be notified.

Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst.

Operator has proposed to pump down **Surface X Intermediate 1** annulus after primary cementing stage. **Operator must run Echo-meter to verify Cement Slurry/Fluid top in the annulus OR operator shall run a CBL from TD of the Surface casing to tieback requirements listed above after the second stage BH to verify TOC.** Submit results to the BLM. No displacement fluid/wash out shall be utilized at the top of the cement slurry between second stage BH and top out. Operator must use a limited flush fluid volume of 1 bbl following backside cementing procedures.

If cement does not reach surface, the next casing string must come to surface.

3. The minimum required fill of cement behind the **5-1/2** inch production casing is: Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).

2. Operator has proposed a multi-bowl wellhead assembly. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one-inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172 must be followed.

D. SPECIAL REQUIREMENT (S)

Unit Wells

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

Commercial Well Determination

A commercial well determination shall be submitted after production has been established for at least six months. **(This is not necessary for secondary recovery unit wells)**

BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for intervals utilizing a 5M BOPE or less. **(Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP.)**
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer **(575-706-2779)** prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted **(575-361-2822 Eddy County)** 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per **43 CFR 3172**.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

Offline Cementing

Contact the BLM prior to the commencement of any offline cementing procedure.

Engineer may elect to vary this language. Speak with Chris about implementing changes and whether that change seems reasonable.

Casing Clearance

String does not meet 0.422" clearance requirement per 43 CFR 3172. Cement tieback requirement increased 100' for Production casing tieback. Operator may contact approving engineer to discuss changing casing set depth or grade to meet clearance requirement.

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

Contact Eddy County Petroleum Engineering Inspection Staff:

Email or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220;
BLM_NM_CFO_DrillingNotifications@BLM.GOV; (575) 361-2822

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - i. Notify the BLM when moving in and removing the Spudder Rig.
 - ii. Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - iii. BOP/BOPE test to be conducted per **43 CFR 3172** as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
3. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-Q potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR 3172**.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's

requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.

3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - ii. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - iii. Manufacturer representative shall install the test plug for the initial BOP test.
 - iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
 - v. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - i. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - ii. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve

open. (only applies to single stage cement jobs, prior to the cement setting up.)

- iii. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- iv. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- v. The results of the test shall be reported to the appropriate BLM office.
- vi. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- vii. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- viii. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR 3172**.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be

disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

Approved by Zota Stevens on 10/7/2024
575-234-5998 / zstevens@blm.gov



HYDROGEN SULFIDE (H₂S) CONTINGENCY PLAN

Assumed 100 ppm ROE = 3000'

100 ppm H₂S concentration shall trigger activation of this plan.

Emergency Procedures

In the event of a release of gas containing H₂S, the first responder(s) must

- Isolate the area and prevent entry by other persons into the 100 ppm ROE.
- Evacuate any public places encompassed by the 100 ppm ROE.
- Be equipped with H₂S monitors and air packs in order to control the release.
- Use the "buddy system" to ensure no injuries occur during the response
- Take precautions to avoid personal injury during this operation.
- Contact operator and/or local officials to aid in operation. See list of phone numbers attached.
- Have received training in the
 - o Detection of H₂S, and
 - o Measures for protection against the gas,
 - o Equipment used for protection and emergency response.

Ignition of Gas source

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO₂). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally, the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever this is an ignition of the gas.

Characteristics of H₂S and SO₂

Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H ₂ S	1.189 Air = 1	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO ₂	2.21 Air = 1	2 ppm	N/A	1000 ppm

Contacting Authorities

All XTO location personnel must liaison with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available including directions to site. The following call list of essential and potential responders has been prepared for use during a release. (Operator Name)'s response must be in coordination with the State of New Mexico's "Hazardous Materials Emergency Response Plan" (HMER).

CARLSBAD OFFICE – EDDY & LEA COUNTIES

3104 E. Greene St., Carlsbad, NM 88220
Carlsbad, NM

575-887-7329

XTO PERSONNEL:

Will Dacus, Drilling Manager	832-948-5021
Brian Dunn, Drilling Supervisor	832-653-0490
Robert Bartels, Construction Execution Planner	406-478-3617
Andy Owens, EH & S Manager	903-245-2602
Frank Fuentes, Production Foreman	575-689-3363

SHERIFF DEPARTMENTS:

Eddy County	575-887-7551
Lea County	575-396-3611

NEW MEXICO STATE POLICE:

575-392-5588

FIRE DEPARTMENTS:

	911
Carlsbad	575-885-2111
Eunice	575-394-2111
Hobbs	575-397-9308
Jal	575-395-2221
Lovington	575-396-2359

HOSPITALS:

	911
Carlsbad Medical Emergency	575-885-2111
Eunice Medical Emergency	575-394-2112
Hobbs Medical Emergency	575-397-9308
Jal Medical Emergency	575-395-2221
Lovington Medical Emergency	575-396-2359

AGENT NOTIFICATIONS:**For Lea County:**

Bureau of Land Management – Hobbs	575-393-3612
New Mexico Oil Conservation Division – Hobbs	575-393-6161

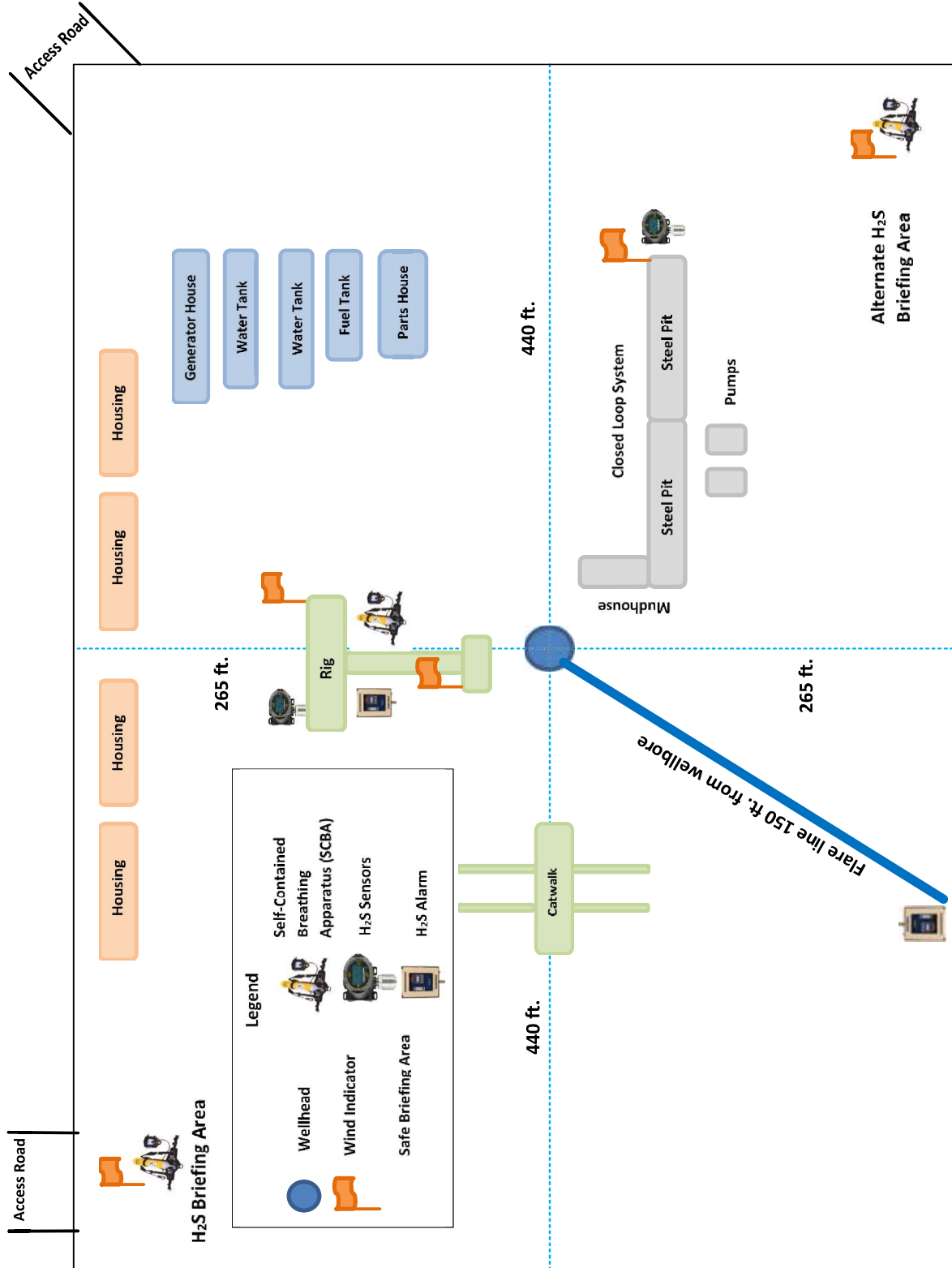
For Eddy County:

Bureau of Land Management - Carlsbad	575-234-5972
New Mexico Oil Conservation Division - Artesia	575-748-1283

H2S Briefing Areas and Alarm Locations



Prevailing Winds
Direction SW





Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** POKER LAKE UNIT 22 DTD**Well Number:** 406H**Reserve Pit****Reserve Pit being used?** NO**Temporary disposal of produced water into reserve pit?** NO**Reserve pit length (ft.)****Reserve pit width (ft.)****Reserve pit depth (ft.)****Reserve pit volume (cu. yd.)****Is at least 50% of the reserve pit in cut?****Reserve pit liner****Reserve pit liner specifications and installation description****Cuttings Area****Cuttings Area being used?** NO**Are you storing cuttings on location?** Y

Description of cuttings location Cuttings. The well will be drilled utilizing a closed-loop mud system. Drill cuttings will be held in roll-off style mud boxes and taken to a New Mexico Oil Conservation Division (NMOCD) approved disposal site. Drilling Fluids. These will be contained in steel mud pits and then taken to a NMOCD approved commercial disposal facility. Produced Fluids. Water produced from the well during completion will be held temporarily in steel tanks and then taken to a NMOCD approved commercial disposal facility. Oil produced during operations will be stored in tanks until sold.

Cuttings area length (ft.)**Cuttings area width (ft.)****Cuttings area depth (ft.)****Cuttings area volume (cu. yd.)****Is at least 50% of the cuttings area in cut?****WCuttings area liner****Cuttings area liner specifications and installation description****Section 8 - Ancillary****Are you requesting any Ancillary Facilities?:** N**Ancillary Facilities****Comments:****Section 9 - Well Site****Well Site Layout Diagram:**

POKER_LAKE_UNIT_22_DTD_406H_Well_20240407155221.pdf

Comments: Multi-well pad.

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 22 DTD

Well Number: 406H

Section 10 - Plans for Surface Reclamation

Type of disturbance: No New Surface Disturbance Multiple Well Pad Name: POKER LAKE UNIT 22 DTD

Multiple Well Pad Number: D

Recontouring

PLU_22_DTD_IR1_20240406165542.pdf

PLU_22_DTD_IR2_20240406165542.pdf

PLU_22_DTD_IR3_20240406165542.pdf

PLU_22_DTD_IR4_20240406165542.pdf

Drainage/Erosion control construction: Initial seedbed preparation will consist of recontouring to the appropriate interim or final reclamation standard. All compacted areas to be seeded will be ripped to a minimum depth of 18 inches with a minimum furrow spacing of 2 feet, followed by recontouring the surface and then evenly spreading the stockpiled topsoil. Prior to seeding, the seedbed will be scarified to a depth of no less than 4-6 inches

Drainage/Erosion control reclamation: Erosion features are equal to or less than surrounding area and erosion control is sufficient so that water naturally infiltrates into the soil and gully, headcutting, slumping, and deep or excessive rills (greater than 3 inches) are not observed.

Well pad proposed disturbance (acres):	Well pad interim reclamation (acres): 0	Well pad long term disturbance (acres): 0
Road proposed disturbance (acres):	Road interim reclamation (acres): 0	Road long term disturbance (acres): 0
Powerline proposed disturbance (acres):	Powerline interim reclamation (acres): 0	Powerline long term disturbance (acres): 0
Pipeline proposed disturbance (acres):	Pipeline interim reclamation (acres): 0	Pipeline long term disturbance (acres): 0
Other proposed disturbance (acres):	Other interim reclamation (acres): 0	Other long term disturbance (acres): 0
Total proposed disturbance: 0	Total interim reclamation: 0	Total long term disturbance: 0

Disturbance Comments:

Reconstruction method: The original stock piled topsoil will be spread over the areas being reclaimed and the original landform will be restored for all disturbed areas including well pads, production facilities, roads, pipelines, and utility corridors as close as possible to the original topography. The location will then be ripped and seeded.

Topsoil redistribution: The original stock piled topsoil will be spread over the areas being reclaimed and the original landform will be restored for all disturbed areas including well pads, production facilities, roads, pipelines, and utility corridors as close as possible to the original topography. The location will then be ripped and seeded.

Soil treatment: A self-sustaining, vigorous, diverse, native (or otherwise approved) plant community will be established on the site with a density sufficient to control erosion and invasion by non-native plants and to re-establish wildlife habitat or forage production. At a minimum, the established plant community will consist of species included in the seed mix and/or desirable species occurring in the surrounding natural vegetation

Existing Vegetation at the well pad: Soils are classified as Simona Gravelly Fine Sandy Loam and Simona-Bippus Complex. Simona soils are found on alluvial fans and plains and form in mixed alluvium and/or Aeolian sands. Bippus soils are found on alluvial fans and floodplains and form in mixed alluvium. The Simona~Bippus soils are dominant to the east and the Simona Gravelly Fine Sandy Loams are dominant to the West. Dominant vegetation species include: mesquite, sumac snakeweed, and various forbs and grasses. Ground cover is minimal, offering 90 percent visibility

Existing Vegetation at the well pad

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 22 DTD

Well Number: 406H

<style isBold="true"></style>Existing Vegetation Community at the road:</style> Soils are classified as Simona Gravelly Fine Sandy Loam and Simona-Bippus Complex. Simona soils are found on alluvial fans and plans and form in mixed alluvium and/or Aeolian sands. Bippus soils are found on alluvial fans and floodplains and form in mixed alluvium. The Simona~Bippus soils are dominant to the east and the Simona Gravelly Fine Sandy Loams are dominant to the West. Dominant vegetation species include: mesquite, sumac snakeweed, and various forbs and grasses. Ground cover is minimal, offering 90 percent visibility

Existing Vegetation Community at the road

<style isBold="true"></style>Existing Vegetation Community at the pipeline:</style> Soils are classified as Simona Gravelly Fine Sandy Loam and Simona-Bippus Complex. Simona soils are found on alluvial fans and plans and form in mixed alluvium and/or Aeolian sands. Bippus soils are found on alluvial fans and floodplains and form in mixed alluvium. The Simona~Bippus soils are dominant to the east and the Simona Gravelly Fine Sandy Loams are dominant to the West. Dominant vegetation species include: mesquite, sumac snakeweed, and various forbs and grasses. Ground cover is minimal, offering 90 percent visibility

Existing Vegetation Community at the pipeline

<style isBold="true"></style>Existing Vegetation Community at other disturbances:</style> Soils are classified as Simona Gravelly Fine Sandy Loam and Simona-Bippus Complex. Simona soils are found on alluvial fans and plans and form in mixed alluvium and/or Aeolian sands. Bippus soils are found on alluvial fans and floodplains and form in mixed alluvium. The Simona~Bippus soils are dominant to the east and the Simona Gravelly Fine Sandy Loams are dominant to the West. Dominant vegetation species include: mesquite, sumac snakeweed, and various forbs and grasses. Ground cover is minimal, offering 90 percent visibility

Existing Vegetation Community at other disturbances

Non native seed used? N

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? N

Seedling transplant description

Will seed be harvested for use in site reclamation? N

Seed harvest description:

Seed harvest description attachment:

Seed

Seed Table

Seed Summary

Total pounds/Acre:

Seed Type

Pounds/Acre

Seed reclamation

Operator Contact/Responsible Official

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

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

CONDITIONS

Action 383163

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID:
	373075
	Action Number:
	383163
Action Type:	
[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)	

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Notify OCD 24 hours prior to casing & cement	10/28/2024
ward.rikala	Will require a File As Drilled C-102 and a Directional Survey with the C-104	10/28/2024
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string	10/28/2024
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing	10/28/2024
ward.rikala	If cement does not circulate on any string, a CBL is required for that string of casing	10/28/2024
ward.rikala	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system	10/28/2024
ward.rikala	This well may require NSL/NSP	10/28/2024