



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

Application for Permit to Drill

APD Package Report

Date Printed: 10/18/2024 01:31 PM

APD ID: 10400098107

Well Status: AAPD

APD Received Date: 04/17/2024 05:19 AM

Well Name: POKER LAKE UNIT 22 DTD

Operator: XTO PERMIAN OPERATING LLC

Well Number: 106H

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: 4 file(s)
- SUPO Report
- SUPO Attachments
 - Existing Road Map: 1 file(s)
 - Attach Well map: 1 file(s)
 - Production Facilities 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. NMLC068431
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 106H
3a. Address 6401 HOLIDAY HILL ROAD BLDG 5, MIDLAND, TX 79701	3b. Phone No. (include area code) (432) 683-2277	9. API Well No. 30-015-55582
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NWNW / 916 FNL / 203 FWL / LAT 32.207983 / LONG -103.876932 At proposed prod. zone SWNW / 2627 FNL / 840 FWL / LAT 32.174303 / LONG -103.874795		10. Field and Pool, or Exploratory PURPLE SAGE/WOLFCAMP (GAS)
14. Distance in miles and direction from nearest town or post office*		11. Sec., T. R. M. or Blk. and Survey or Area SEC 22/T24S/R30E/NMP
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 203 feet		12. County or Parish EDDY
16. No of acres in lease		13. State NM
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		20. BLM/BIA Bond No. in file FED: COB000050
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3406 feet		22. Approximate date work will start* 03/17/2025
		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 04/17/2024
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.

Additional Operator Remarks

Location of Well

0. SHL: NWNW / 916 FNL / 203 FWL / TWSP: 24S / RANGE: 30E / SECTION: 22 / LAT: 32.207983 / LONG: -103.876932 (TVD: 0 feet, MD: 0 feet)
PPP: NWNW / 100 FNL / 840 FWL / TWSP: 24S / RANGE: 30E / SECTION: 22 / LAT: 32.210239 / LONG: -103.874871 (TVD: 11084 feet, MD: 11600 feet)
PPP: NWNW / 0 FSL / 853 FWL / TWSP: 24S / RANGE: 30E / SECTION: 27 / LAT: 32.196017 / LONG: -103.874841 (TVD: 11084 feet, MD: 16800 feet)
PPP: SWSW / 1317 FSL / 850 FWL / TWSP: 24S / RANGE: 30E / SECTION: 22 / LAT: 32.199638 / LONG: -103.874849 (TVD: 11084 feet, MD: 15500 feet)
BHL: SWNW / 2627 FNL / 840 FWL / TWSP: 24S / RANGE: 30E / SECTION: 34 / LAT: 32.174303 / LONG: -103.874795 (TVD: 11084 feet, MD: 23952 feet)

BLM Point of Contact

Name: MARIAH HUGHES
Title: Land Law Examiner
Phone: (575) 234-5972
Email: mhughes@blm.gov

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Review and Appeal Rights

A person contesting a decision shall request a State Director review. This request must be filed within 20 working days of receipt of the Notice with the appropriate State Director (see 43 CFR 3165.3). The State Director review decision may be appealed to the Interior Board of Land Appeals, 801 North Quincy Street, Suite 300, Arlington, VA 22203 (see 43 CFR 3165.4). Contact the above listed Bureau of Land Management office for further information.

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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	C-102 Revised July 9, 2024 Submit Electronically via OCD Permitting
		Submittal Type: <input checked="" type="checkbox"/> Initial Submittal <input type="checkbox"/> Amended Report <input type="checkbox"/> As Drilled

WELL LOCATION INFORMATION

API Number 30-015-55582	Pool Code 98220	Pool Name PURPLE SAGE/WOLFCAMP (GAS)
Property Code 333192	Property Name POKER LAKE UNIT 22 DTD	Well Number 106H
OGRID No. 373075	Operator Name XTO PERMIAN OPERATING LLC	Ground Level Elevation 3,406 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
D	22	24S	30E		916 FNL	203 FWL	32.207983	-103.876932	EDDY

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
E	34	24S	30E		2627 FNL	840 FWL	32.174292	-103.874795	EDDY

Dedicated Acres 1,600	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
D	22	24S	30E		916 FNL	203 FWL	32.207982	-103.877223	EDDY

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
D	22	24S	30E		100 FNL	840 FWL	32.210239	-103.874871	EDDY

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
E	34	24S	30E		2,537 FNL	840 FWL	32.174551	-103.874797	EDDY

Unitized Area or Area of Uniform Interest NMNM105422429	Spacing Unit Type <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical	Ground Floor Elevation: 3406 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

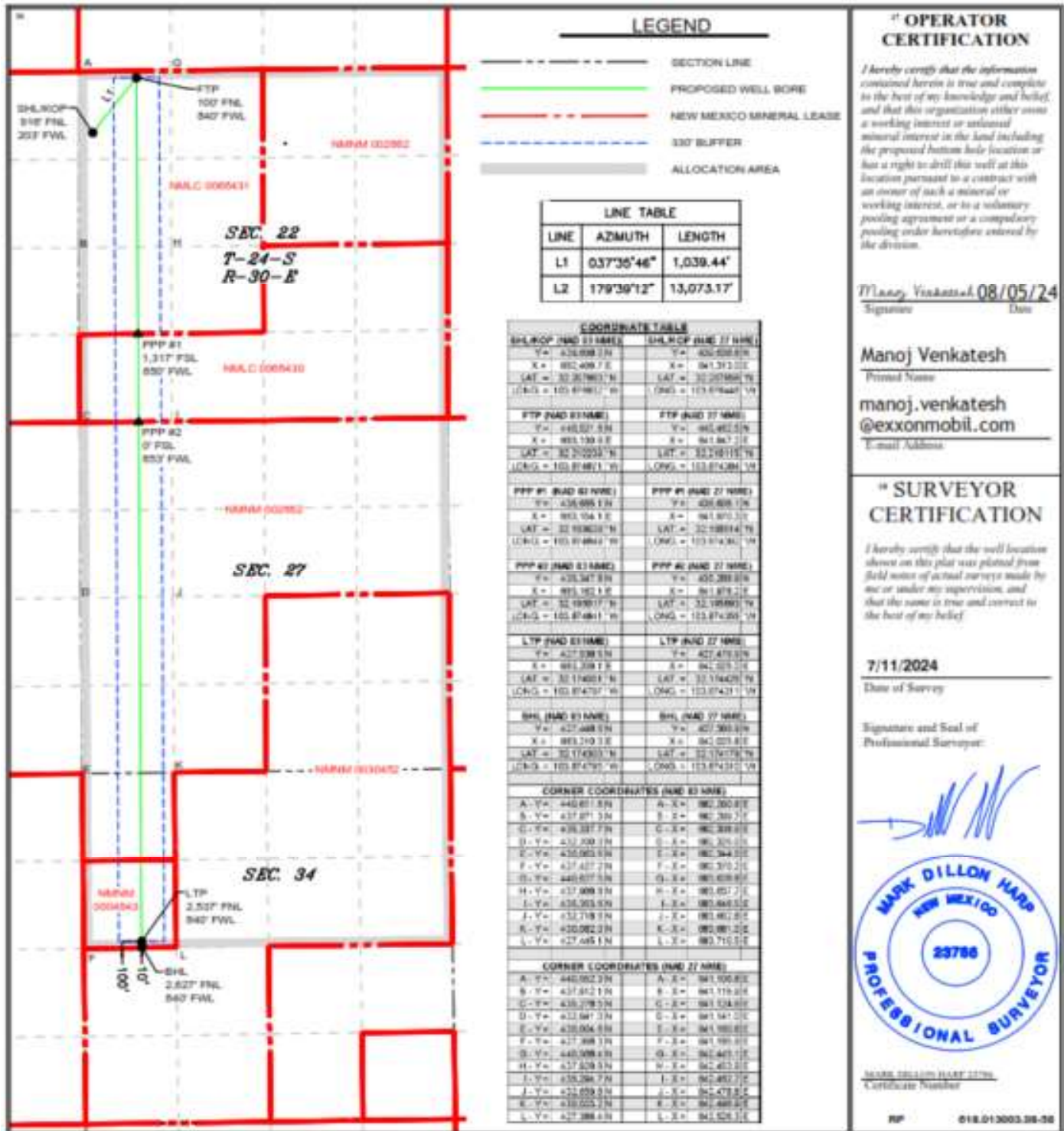
Certificate Number

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

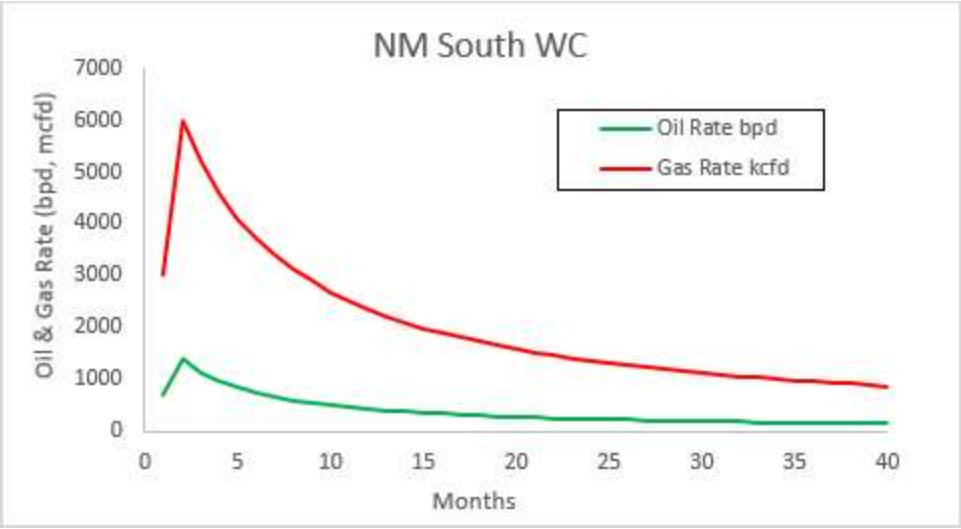
- Conduct and document AVO inspections on the frequency set forth in Part 27 to detect and repair any onsite leaks as quickly and efficiently as is feasible.

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: 10400098107

Submission Date: 04/17/2024

Highlighted data
reflects the most
recent changes

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 22 DTD

Well Number: 106H

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
14338988	QUATERNARY	3406	0	0	ALLUVIUM	USEABLE WATER	N
14338989	RUSTLER	2338	1068	1068	ANHYDRITE, SANDSTONE	USEABLE WATER	N
14338990	SALADO	1935	1471	1471	SALT	NONE	N
14338991	BASE OF SALT	-258	3664	3664	SALT	NONE	N
14338992	DELAWARE	-452	3858	3858	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : PRODUCED WATER	N
14338986	BRUSHY CANYON	-2998	6404	6404	SANDSTONE	NATURAL GAS, OIL, OTHER : PRODUCED WATER	N
14338993	BONE SPRING	-4322	7728	7728	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : PRODUCED WATER	N
14338994	BONE SPRING 1ST	-5031	8437	8437	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : PRODUCED WATER	N
14338995	BONE SPRING 2ND	-5616	9022	9022	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : PRODUCED WATER	N
14338997	BONE SPRING 3RD	-6442	9848	9848	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : PRODUCED WATER	N
14338987	WOLFCAMP	-7627	11033	11033	SANDSTONE, SHALE	NATURAL GAS, OIL, OTHER : PRODUCED WATER	Y
14338996	WOLFCAMP	-7648	11054	11054	SANDSTONE, SHALE	NATURAL GAS, OIL, OTHER : PRODUCED WATER	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M

Rating Depth: 11084

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:** 106H

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:

5MCM_20240805152309.pdf

BOP Diagram Attachment:

5M10M_BOP_20240917092259.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	1168	0	1168	3406	2238	1168	J-55	40	BUTT	5.39	1.62	DRY	13.48	DRY	13.48
2	INTERMEDIATE	8.75	7.625	NEW	API	Y	0	10270	0	10167	3411	-6761	10270	L-80	29.7	FJ	2.33	1.58	DRY	2.18	DRY	2.18
3	PRODUCTION	6.75	5.5	NEW	NON API	Y	0	23952	0	11084	3411	-7678	23952	P-110	20	OTHER - Freedom HTQ/Talon HTQ	1.63	1.05	DRY	2.01	DRY	2.01

Casing Attachments

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 22 DTD

Well Number: 106H

Casing Attachments

Casing ID: 1	String	SURFACE
Inspection Document:		
Spec Document:		
Tapered String Spec:		
Casing Design Assumptions and Worksheet(s):		
PLU_22_DTD_106H_Csg_20240416152827.pdf		
Casing ID: 2	String	INTERMEDIATE
Inspection Document:		
Spec Document:		
Tapered String Spec:		
PLU_22_DTD_106H_Csg_20240416153428.pdf		
Casing Design Assumptions and Worksheet(s):		
PLU_22_DTD_106H_Csg_20240416153439.pdf		
Casing ID: 3	String	PRODUCTION
Inspection Document:		
Spec Document:		
Freedom_semi_premium_5.5_production_casing_20240805152415.pdf		
Talon__semiflush_5.5_production_casing_20240805152415.pdf		
Tapered String Spec:		
PLU_22_DTD_106H_Csg_20240416153126.pdf		
Casing Design Assumptions and Worksheet(s):		
PLU_22_DTD_106H_Csg_20240416153225.pdf		

Section 4 - Cement

Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** POKER LAKE UNIT 22 DTD**Well Number:** 106H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	1168	290	1.87	10.5	542.3	100	EconoCem-HLTRRC	NA
SURFACE	Tail		0	1168	130	1.35	14.8	175.5	100	Class C	2% CaCl
INTERMEDIATE	Lead		0	6404	350	1.35	14.8	472.5	100	Class C	NA
INTERMEDIATE	Tail		6404	10270	720	1.33	14.8	957.6	100	Class C	NA
PRODUCTION	Lead		9970	10470	20	2.69	11.5	53.8	30	NeoCem	NA
PRODUCTION	Tail		10470	23952	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
10270	23952	OIL-BASED MUD	11.8	12.3							

Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** POKER LAKE UNIT 22 DTD**Well Number:** 106H

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
3858	1027 0	OTHER : BDE/OBM	9	9.5							
0	1168	WATER-BASED MUD	8.4	8.9							
1168	3858	SALT SATURATED	10.5	11							

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: 7089

Anticipated Surface Pressure: 4650

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_20240805152147.pdf

Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** POKER LAKE UNIT 22 DTD**Well Number:** 106H**Section 8 - Other Information****Proposed horizontal/directional/multi-lateral plan submission:**

PLU_22_DTD_106H_DD_20240416151735.pdf

Other proposed operations facets description:**Other proposed operations facets attachment:**

PLU_22_DTD_106H_Cmt_20240416152125.pdf

PLU_22_DTD_H2S_DiaA_20240805152834.pdf

PLU_22_DTD_H2S_DiaC_20240805152835.pdf

PLU_22_DTD_H2S_DiaD_20240805152835.pdf

PLU_22_DTD_MBS_20240805152835.pdf

PLU_22_DTD_H2S_DiaB_20240805152835.pdf

PLU_22_DTD_106H_RL_20240805152908.pdf

Other Variance attachment:

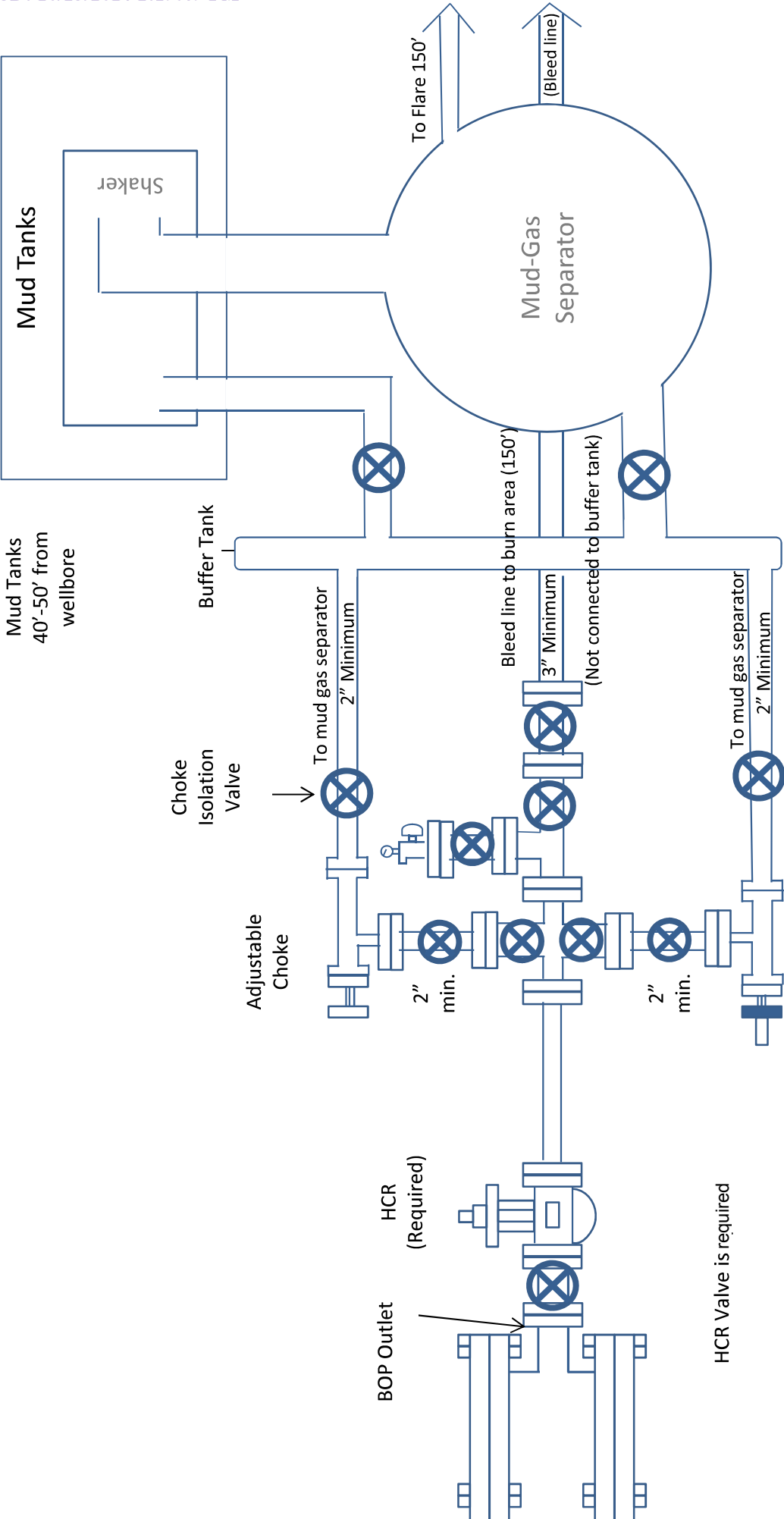
Spudder_Rig_Request_20240805152810.pdf

Offline_Cement_Variance_Surf___Interm_Csg_20240805152810.pdf

Updated_Flex_Hose_20240805152811.pdf

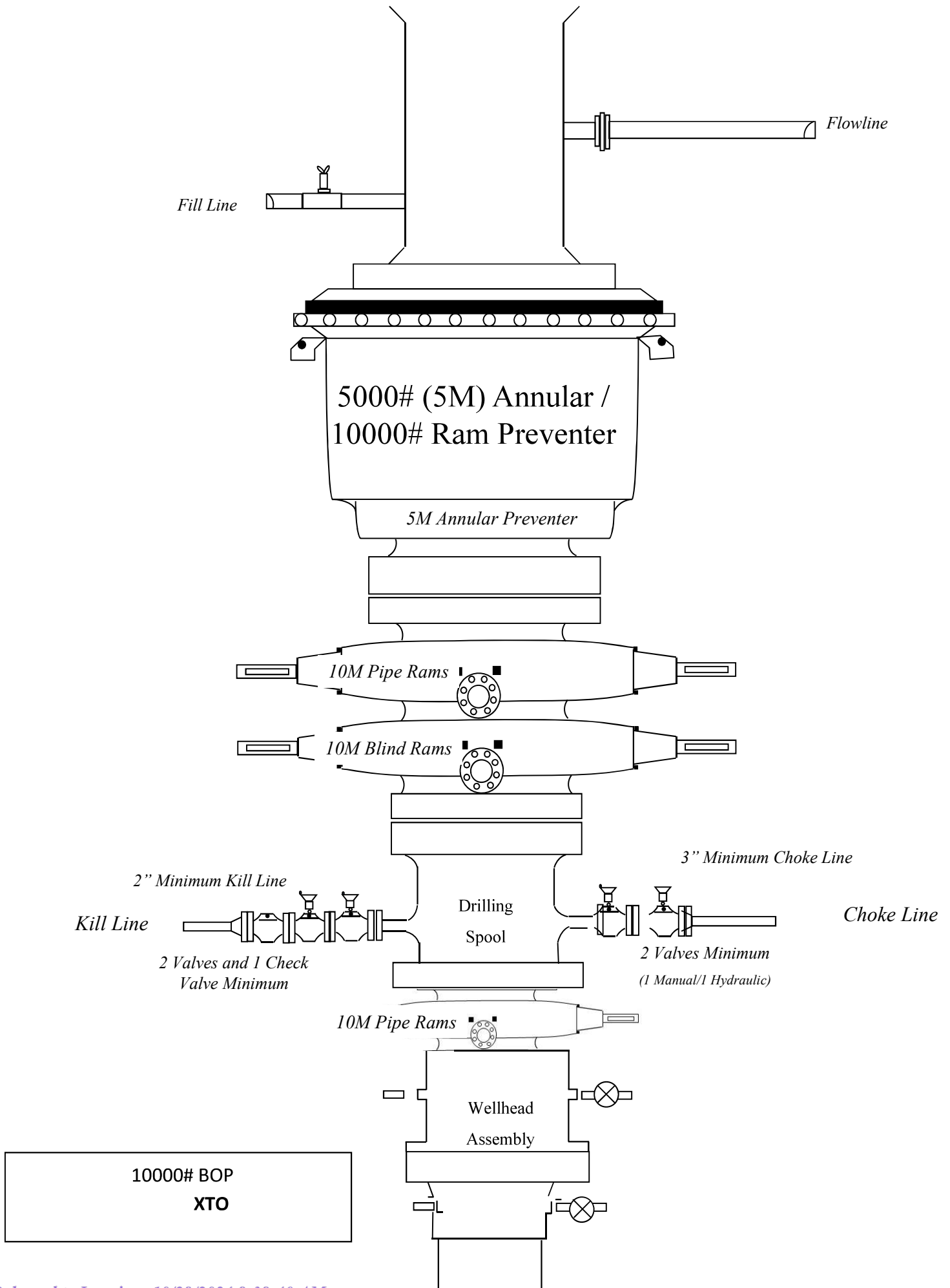
BOP_Break_Test_Variance_20240807134454.pdf

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 Assumptions

Casing Design									
Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0' – 1168'	9.625	40	J-55	BTC	New	1.62	5.39	13.48
8.75	0' – 4000'	7.625	29.7	RY P-110	Flush Joint	New	2.17	2.92	1.83
8.75	4000' – 10270'	7.625	29.7	HC L-80	Flush Joint	New	1.58	2.33	2.18
6.75	0' – 10170'	5.5	20	RY P-110	Semi-Premium	New	1.05	1.78	2.01
6.75	10170' - 23952'	5.5	20	RY P-110	Semi-Flush	New	1.05	1.63	2.01

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 (6404') 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.

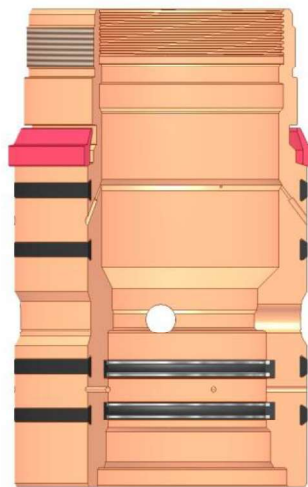
1. Cement Program

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

2. Offline Cementing Procedure

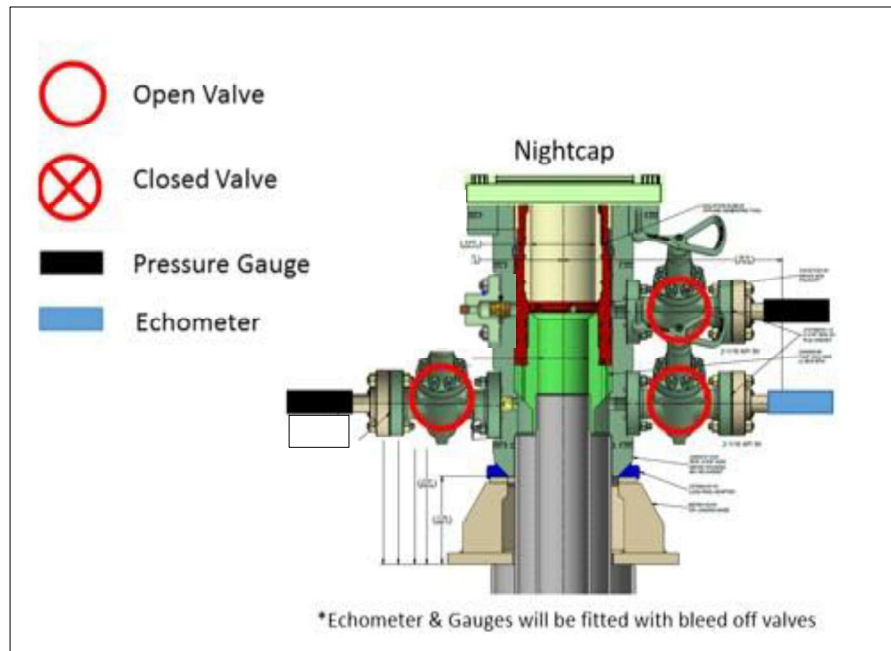
The operational sequence will be as follows. If a well control event occurs, the BLM will be contacted for approval prior to conducting offline cementing operations.

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.



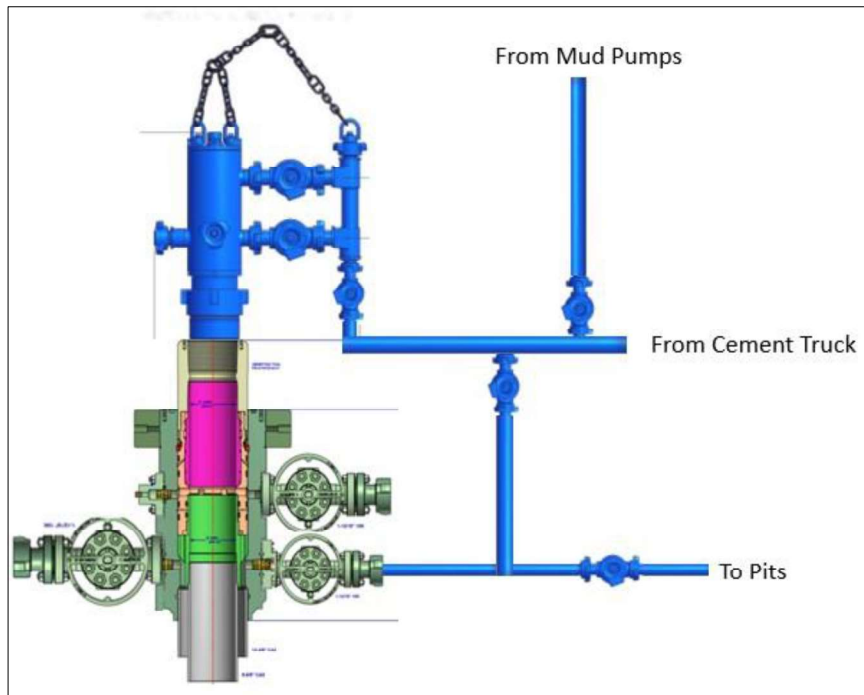
Annular packoff with both external and internal seals

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:

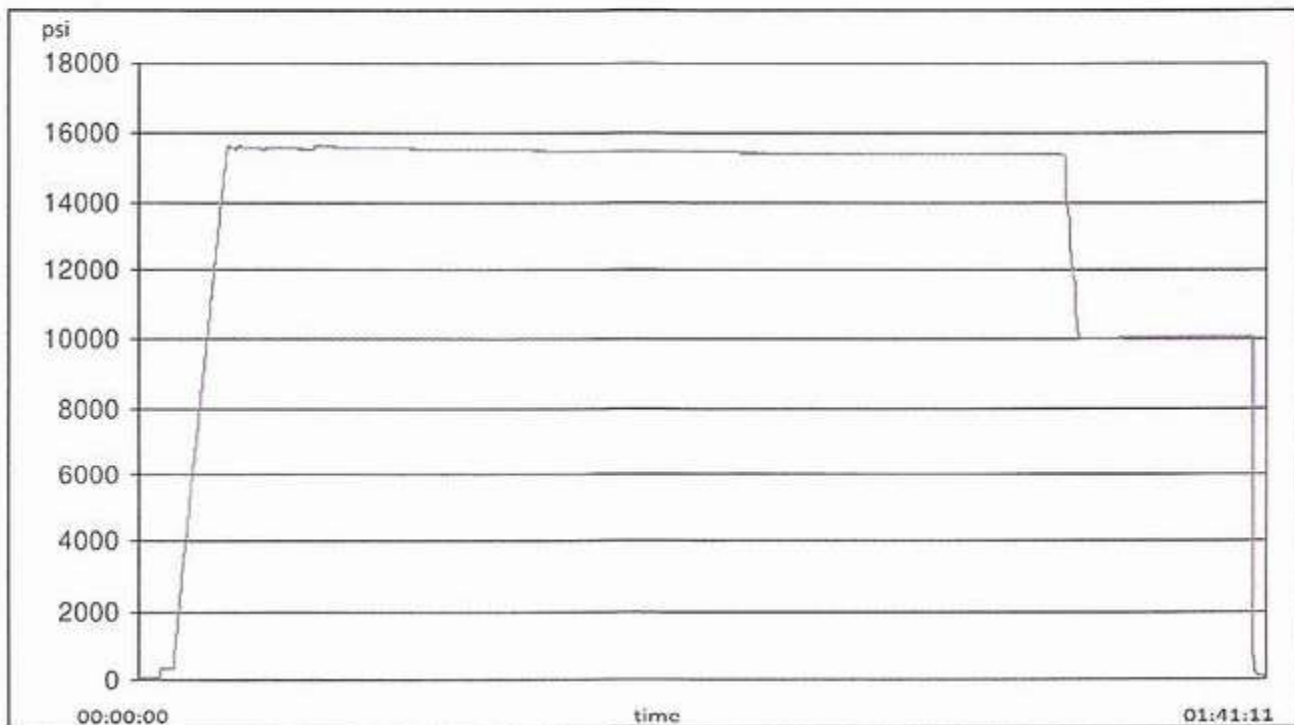
Visual check:

Pressure test result: PASS

Length measurement result:

Length: 45 feet

Test operator: Travis





H3-15/1b

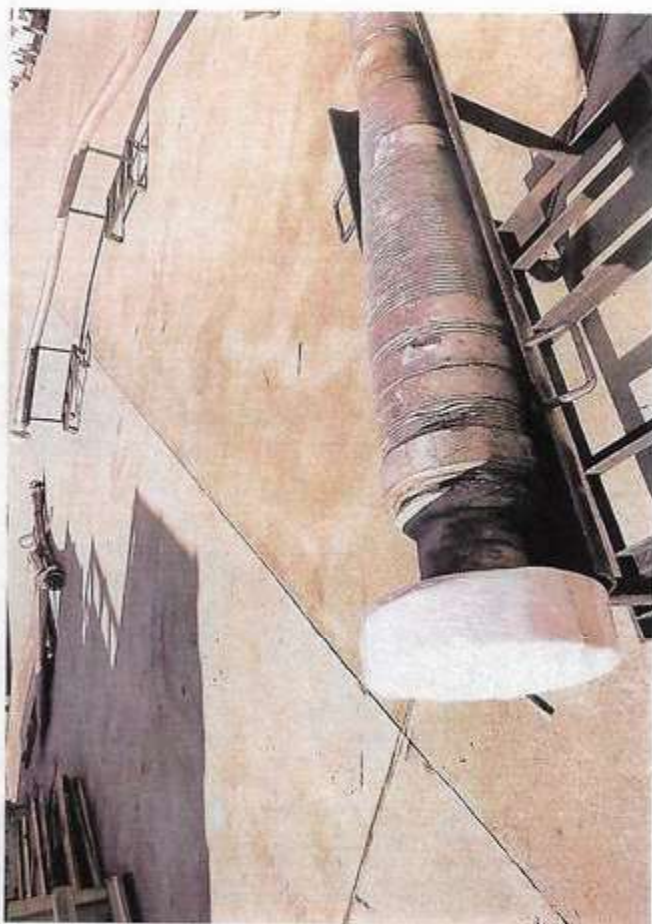
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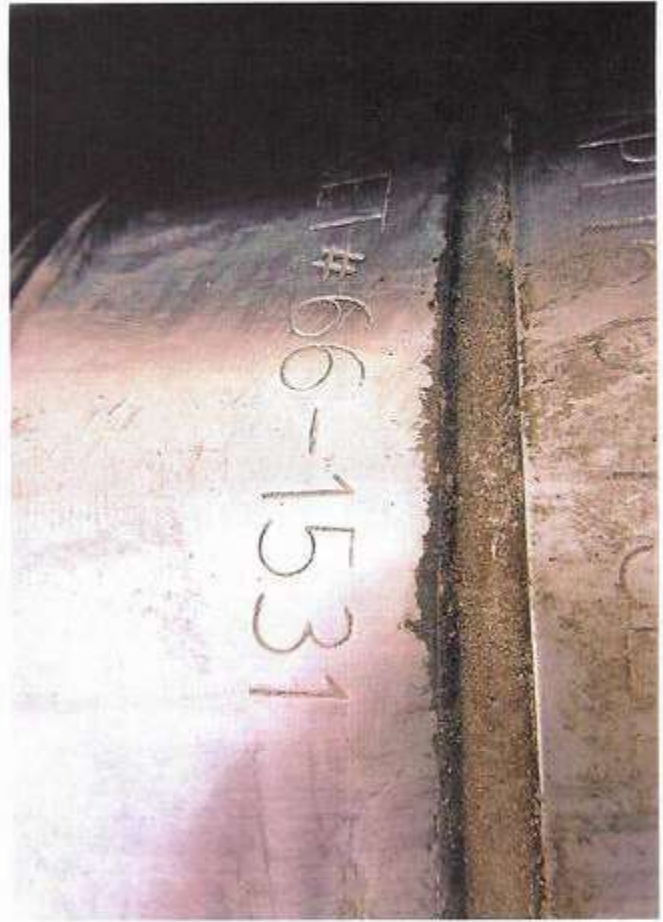
TEST REPORT

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





Subject: Request for a Variance Allowing break Testing of the Blowout Preventer Equipment (BOPE)

XTO Energy requests a variance to ONLY test broken pressure seals on the BOPE and function test BOP when skidding a drilling rig between multiple wells on a pad.

Background

Onshore Oil and Gas Order CFR Title 43 Part 3170, Drilling Operations, Sections III.A.2.i.iv.B states that the BOP test must be performed whenever any seal subject to test pressure is broken. The current interpretation of the Bureau of Land Management (BLM) requires a complete BOP test and not just a test of the affected component. CFR Title 43 Part 3170 states, "Some situation may exist either on a well-by-well basis or field-wide basis whereby it is commonly accepted practice to vary a particular minimum standard(s) established in this order. This situation can be resolved by requesting a variance...". XTO Energy feels the break testing the BOPE is such a situation. Therefore, as per CFR Title 43 Part 3170, XTO Energy submits this request for the variance.

Supporting Documentation

CFR Title 43 Part 3170 became effective on December 19, 1988 and has remained the standard for regulating BLM onshore drilling operations for over 30 years. During this time there have been significant changes in drilling technology. BLM continues to use the variance request process to allow for the use of modern technology and acceptable engineering practices that have arisen since CFR Title 43 Part 3170 was originally released. The XTO Energy drilling rig fleet has many modern upgrades that allow the intact BOP stack to be moved between well slots on a multi-well pad, as well as, wellhead designs that incorporate quick connects facilitating release of the BOP from the wellhead without breaking any BOP stack components apart. These technologies have been used extensively offshore, and other regulators, API, and many operators around the world have endorsed break testing as safe and reliable.



Figure 1: Winch System attached to BOP Stack

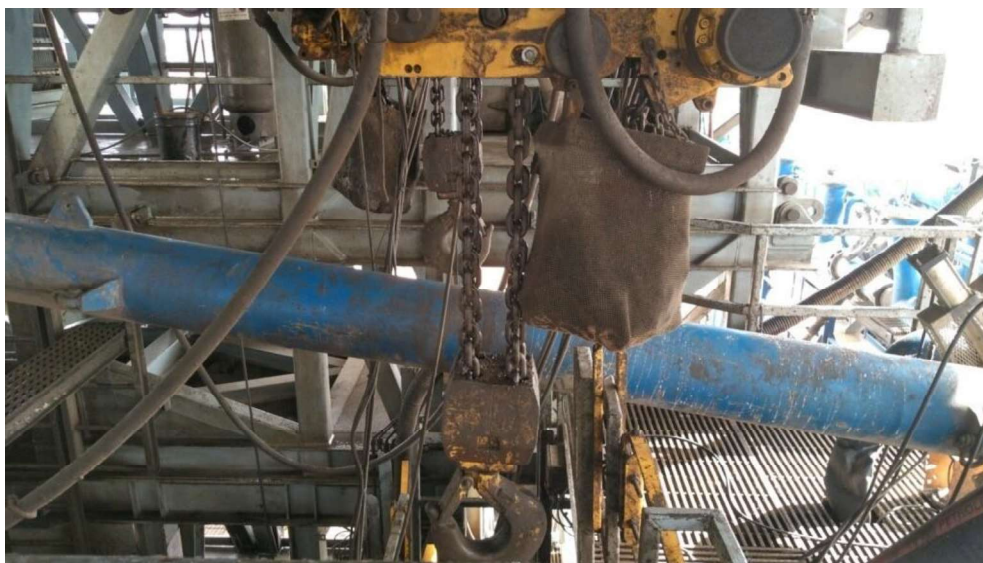


Figure 2: BOP Winch System

American Petroleum Institute (API) standards, specification and recommended practices are considered the industry standard and are consistently utilized and referenced by the industry. CFR Title 43 Part 3170 recognizes API recommended Practices (RP) 53 in its original development. API Standard 53, *Well Control Equipment Systems for Drilling Wells* (Fifth Edition, December 2018, Annex C, Table C.4) recognizes break testing as an acceptable practice. Specifically, API Standard 53, Section 5.3.7.1 states “A pressure test of the pressure containing component shall be performed following the disconnection or repair, limited to the affected component.” See Table C.4 below for reference.

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API STANDARD 53

Table C.4—Initial Pressure Testing, Surface BOP Stacks

Component to be Pressure Tested	Pressure Test—Low Pressure ^{a,c} psig (MPa)	Pressure Test—High Pressure ^{a,c}	
		Change Out of Component, Elastomer, or Ring Gasket	No Change Out of Component, Elastomer, or Ring Gasket
Annular preventer ^b	250 to 350 (1.72 to 2.41)	RWP of annular preventer	MASP or 70% annular RWP, whichever is lower.
Fixed pipe, variable bore, blind, and BSR preventers ^{b,d}	250 to 350 (1.72 to 2.41)	RWP of ram preventer or wellhead system, whichever is lower	ITP
Choke and kill line and BOP side outlet valves below ram preventers (both sides)	250 to 350 (1.72 to 2.41)	RWP of side outlet valve or wellhead system, whichever is lower	ITP
Choke manifold—upstream of chokes ^e	250 to 350 (1.72 to 2.41)	RWP of ram preventers or wellhead system, whichever is lower	ITP
Choke manifold—downstream of chokes ^e	250 to 350 (1.72 to 2.41)	RWP of valve(s), line(s), or MASP for the well program, whichever is lower	
Kelly, kelly valves, drill pipe safety valves, IBOPs	250 to 350 (1.72 to 2.41)	MASP for the well program	

^a Pressure test evaluation periods shall be a minimum of five minutes.

No visible leaks.

The pressure shall remain stable during the evaluation period. The pressure shall not decrease below the intended test pressure.

^b Annular(s) and VBR(s) shall be pressure tested on the largest and smallest OD drill pipe to be used in well program.

^c For pad drilling operations, moving from one wellhead to another within the 21 days, pressure testing is required for pressure-containing and pressure-controlling connections when the integrity of a pressure seal is broken.

^d For surface offshore operations, the ram BOPs shall be pressure tested with the ram locks engaged and the closing and locking pressure vented during the initial test. For land operations, the ram BOPs shall be pressure tested with the ram locks engaged and the closing and locking pressure vented at commissioning and annually.

^e Adjustable chokes are not required to be full sealing devices. Pressure testing against a closed choke is not required.

The Bureau of Safety and Environmental Enforcement (BSEE), Department of Interior, has also utilized the API standards, specification and best practices in the development of its offshore oil and gas regulations and incorporates them by reference within its regulations.

Break testing has been approved by the BLM in the past with other operators based on the detailed information provided in this document.

XTO Energy feels break testing and our current procedures meet the intent of CFR Title 43 Part 317 0and often exceed it. There has been no evidence that break testing results in more components failing than seen on full BOP tests. XTO Energy's internal standards requires complete BOPE tests more often than that of CFR Title 43 Part 3170 (Every 21 days). In addition to function testing the annular, pipe rams and blind rams after

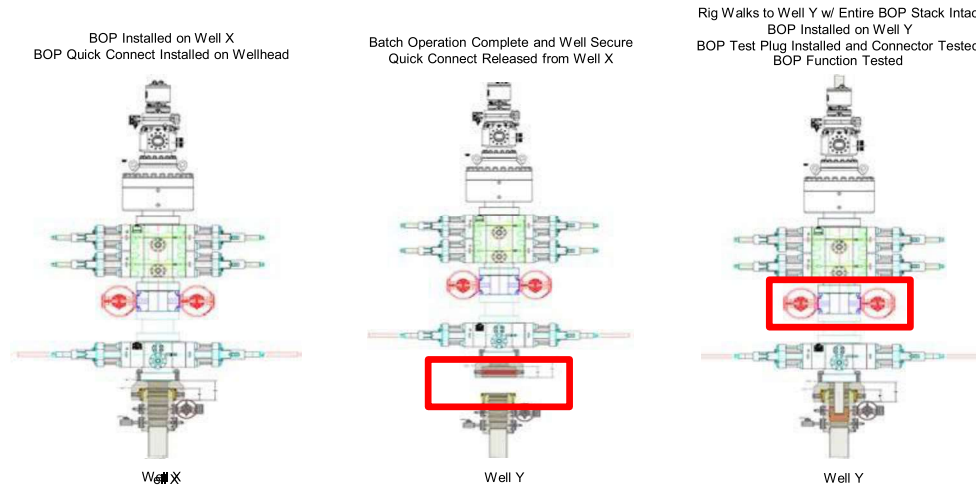
each BOP nipple up, XTO Energy performs a choke drill with the rig crew prior to drilling out every casing shoe. This is additional training for the rig crew that exceeds the requirements of the CFR Title 43 Part 3170.

Procedures

1. XTO Energy will use this document for our break testing plan for New Mexico Delaware basin. The summary below will be referenced in the APD or Sundry Notice and receive approval prior to implementing this variance.
2. XTO Energy will perform BOP break testing on multi-wells pads where multiple intermediate sections can be drilled and cased within the 21-day BOP test window.
 - a. A full BOP test will be conducted on the first well on the pad.
 - b. The first intermediate hole section drilled on the pad will be the deepest. All of the remaining hole sections will be the same depth or shallower.
 - i. Our Lower WC targets set the intermediate casing shoe no deeper than the Wolfcamp B.
 - ii. Our Upper WC targets set the intermediate casing shoe shallower than the Wolfcamp B.
 - c. A Full BOP test will be required if the intermediate hole section being drilled has a MASP over 5M.
 - d. A full BOP test will be required prior to drilling any production hole.
3. After performing a complete BOP test on the first well, the intermediate hole section will be drilled and cased, two breaks would be made on the BOP equipment.
 - a. Between the HCV valve and choke line connection
 - b. Between the BOP quick connect and the wellhead
4. The BOP is then lifted and removed from the wellhead by a hydraulic system.
5. After skidding to the next well, the BOP is moved to the wellhead by the same hydraulic system and installed.
6. The connections mentioned in 3a and 3b will then be reconnected.
7. Install test plug into the wellhead using test joint or drill pipe.
8. A shell test is performed against the upper pipe rams testing the two breaks.
9. The shell test will consist of a 250 psi low test and a high test to the value submitted in the APD or Sundry (e.g. 5,000 psi or 10,000psi).
10. Function test will be performed on the following components: lower pipe rams, blind rams, and annular.

11. For a multi-well pad the same two breaks on the BOP would be made and on the next wells and steps 4 through 10 would be repeated.
12. A second break test would only be done if the intermediate hole section being drilled could not be completed within the 21 day BOP test window.

Note: Picture below highlights BOP components that will be tested during batch operations



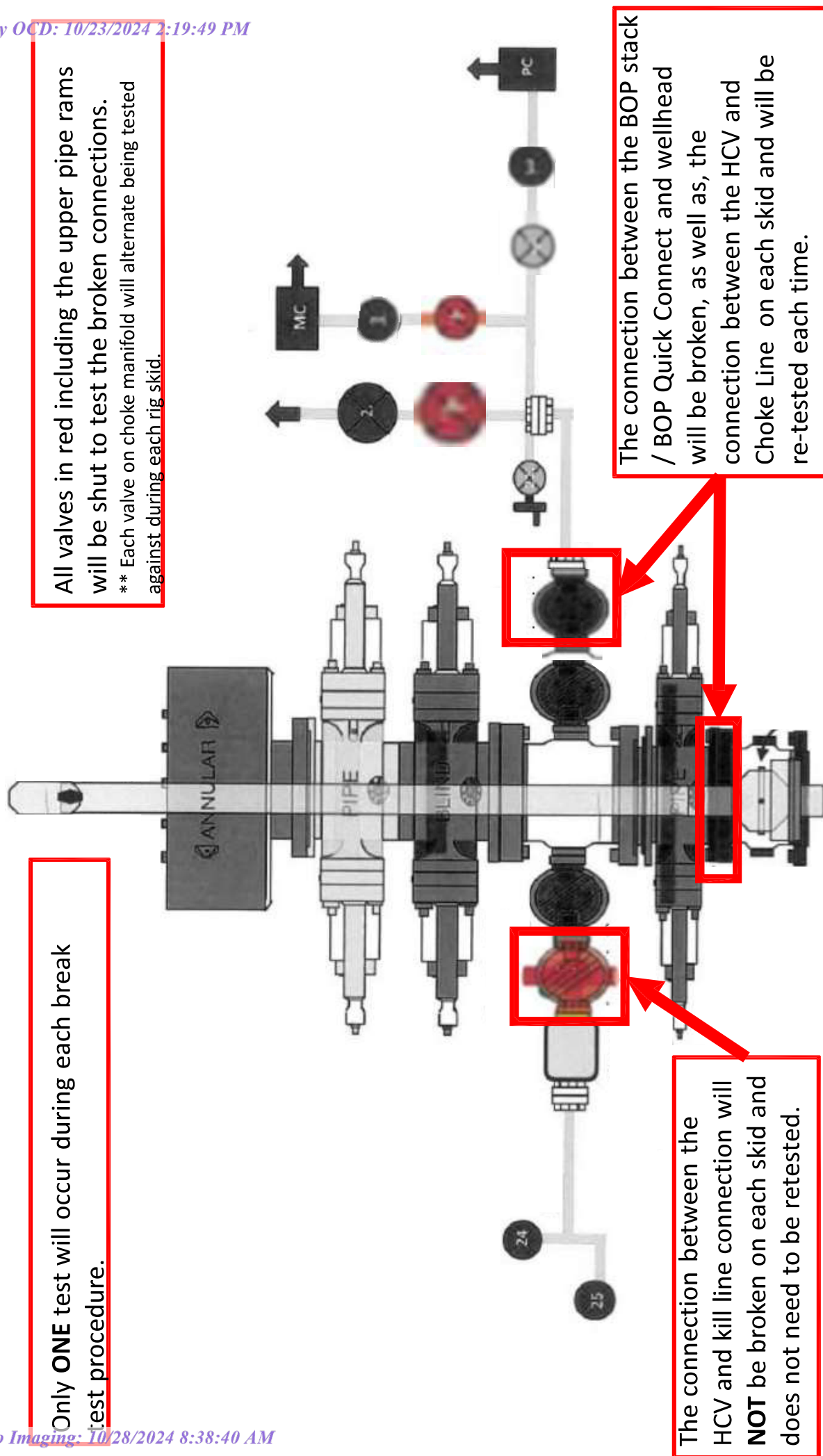
Summary

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.

The BOP will be secured by a hydraulic carrier or cradle. The BLM will be contacted if a Well Control event occurs prior to the commencement of a BOPE Break Testing operation.

Based on discussions with the BLM on February 27th 2020 and the supporting documentation submitted to the BLM, 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. The first intermediate hole section drilled on the pad will be the deepest. All of the remaining hole sections will be the same depth or shallower.
3. Full BOP test will be required if the intermediate hole section being drilled has a MASP over 5M.
4. Full BOP test will be required prior to drilling the production hole.





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

DRAWING NO.

HB E0000479

ALL DIMENSIONS APPROXIMATE

Well Plan Report - Poker Lake Unit 22 DTD South 106H

Measured Depth: 23952.41 ft
TVD RKB: 11084.00 ft
Location
Cartographic Reference System: New Mexico East - NAD 27
Northing: 439638.80 ft
Easting: 641313.00 ft
RKB: 3438.00 ft
Ground Level: 3406.00 ft
North Reference: Grid
Convergence Angle: 0.24 Deg

Plan Sections Poker Lake Unit 22 DTD South 106H

Measured	Depth (ft)	Inclination (Deg)	Azimuth (Deg)	TVD		Y Offset (ft)	X Offset (ft)	Build		Turn Rate (Deg/100ft)	Dogleg	
				RKB	(ft)			Rate (Deg/100ft)	Error		Rate (Deg/100ft)	Target
	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	
	1685.88	11.72	37.59	1681.81		47.30	36.42	2.00		0.00	2.00	
	6216.69	11.72	37.59	6118.19		776.40	597.78	0.00		0.00	0.00	
	6802.57	0.00	0.00	6700.00		823.70	634.20	-2.00		0.00	2.00	
	10470.37	0.00	0.00	10367.80		823.70	634.20	0.00		0.00	0.00	
	11595.37	90.00	179.66	11084.00		107.52	638.49	8.00		0.00	8.00	
	12242.84	90.00	179.66	11084.00		-539.95	642.36	0.00		0.00	0.00	LTP 3
	23952.41	90.00	179.66	11084.00		-12249.30	712.46	0.00		0.00	0.00	BHL 3

Position Uncertainty Poker Lake Unit 22 DTD South 106H

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

Well Plan Report

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(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000 MWD+IFR1+MS
100.000	0.000	0.000	100.000	0.000	0.700	0.000	0.350	0.000	2.300	0.000	0.751	0.220	112.264 MWD+IFR1+MS
200.000	0.000	0.000	200.000	0.000	1.112	0.000	0.861	0.000	2.310	0.000	1.259	0.627	122.711 MWD+IFR1+MS
300.000	0.000	0.000	300.000	0.000	1.497	0.000	1.271	0.000	2.325	0.000	1.698	0.986	125.469 MWD+IFR1+MS
400.000	0.000	0.000	400.000	0.000	1.871	0.000	1.658	0.000	2.347	0.000	2.108	1.344	126.713 MWD+IFR1+MS
500.000	0.000	0.000	500.000	0.000	2.240	0.000	2.034	0.000	2.374	0.000	2.503	1.701	127.419 MWD+IFR1+MS
600.000	0.000	0.000	600.000	0.000	2.607	0.000	2.405	0.000	2.407	0.000	2.888	2.059	127.873 MWD+IFR1+MS
700.000	0.000	0.000	700.000	0.000	2.971	0.000	2.773	0.000	2.444	0.000	3.267	2.417	128.190 MWD+IFR1+MS
800.000	0.000	0.000	800.000	0.000	3.334	0.000	3.138	0.000	2.486	0.000	3.642	2.775	128.423 MWD+IFR1+MS
900.000	0.000	0.000	900.000	0.000	3.696	0.000	3.502	0.000	2.532	0.000	4.014	3.133	128.602 MWD+IFR1+MS
1000.000	0.000	0.000	1000.000	0.000	4.058	0.000	3.865	0.000	2.582	0.000	4.384	3.491	128.744 MWD+IFR1+MS
1100.000	0.000	0.000	1100.000	0.000	4.419	0.000	4.228	0.000	2.635	0.000	4.752	3.849	128.859 MWD+IFR1+MS
1200.000	2.000	37.594	1199.980	0.000	5.288	0.000	4.219	0.000	2.692	0.000	5.295	4.214	131.349 MWD+IFR1+MS
1300.000	4.000	37.594	1299.838	0.000	6.037	0.000	4.610	0.000	2.752	0.000	6.068	4.582	134.931 MWD+IFR1+MS
1400.000	6.000	37.594	1399.452	0.000	6.714	0.000	4.996	0.000	2.818	0.000	6.774	4.942	-43.374 MWD+IFR1+MS
1500.000	8.000	37.594	1498.702	0.000	7.339	0.000	5.377	0.000	2.891	0.000	7.430	5.300	-42.395 MWD+IFR1+MS
1600.000	10.000	37.594	1597.465	0.000	7.921	0.000	5.756	0.000	2.974	0.000	8.046	5.658	-41.758 MWD+IFR1+MS
1685.884	11.718	37.594	1681.809	0.000	8.322	0.000	6.073	0.000	3.046	0.000	8.476	5.965	-41.491 MWD+IFR1+MS
1700.000	11.718	37.594	1695.631	0.000	8.360	0.000	6.122	0.000	3.052	0.000	8.514	6.015	-41.517 MWD+IFR1+MS
1800.000	11.718	37.594	1793.547	0.000	8.628	0.000	6.481	0.000	3.129	0.000	8.775	6.379	-41.482 MWD+IFR1+MS
1900.000	11.718	37.594	1891.463	0.000	8.918	0.000	6.859	0.000	3.211	0.000	9.063	6.756	-41.102 MWD+IFR1+MS
2000.000	11.718	37.594	1989.379	0.000	9.216	0.000	7.238	0.000	3.296	0.000	9.357	7.133	-40.730 MWD+IFR1+MS
2100.000	11.718	37.594	2087.295	0.000	9.519	0.000	7.616	0.000	3.384	0.000	9.657	7.510	-40.365 MWD+IFR1+MS
2200.000	11.718	37.594	2185.211	0.000	9.829	0.000	7.994	0.000	3.474	0.000	9.962	7.887	-40.009 MWD+IFR1+MS
2300.000	11.718	37.594	2283.127	0.000	10.144	0.000	8.373	0.000	3.567	0.000	10.273	8.264	-39.661 MWD+IFR1+MS
2400.000	11.718	37.594	2381.043	0.000	10.463	0.000	8.751	0.000	3.663	0.000	10.588	8.641	-39.321 MWD+IFR1+MS
2500.000	11.718	37.594	2478.959	0.000	10.788	0.000	9.129	0.000	3.760	0.000	10.907	9.017	-38.989 MWD+IFR1+MS
2600.000	11.718	37.594	2576.875	0.000	11.116	0.000	9.507	0.000	3.860	0.000	11.230	9.394	-38.665 MWD+IFR1+MS
2700.000	11.718	37.594	2674.791	0.000	11.447	0.000	9.885	0.000	3.962	0.000	11.557	9.771	-38.349 MWD+IFR1+MS
2800.000	11.718	37.594	2772.707	0.000	11.782	0.000	10.263	0.000	4.065	0.000	11.886	10.148	-38.040 MWD+IFR1+MS
2900.000	11.718	37.594	2870.623	0.000	12.120	0.000	10.641	0.000	4.171	0.000	12.219	10.525	-37.740 MWD+IFR1+MS
3000.000	11.718	37.594	2968.539	0.000	12.461	0.000	11.019	0.000	4.278	0.000	12.554	10.902	-37.447 MWD+IFR1+MS
3100.000	11.718	37.594	3066.455	0.000	12.805	0.000	11.397	0.000	4.387	0.000	12.892	11.278	-37.161 MWD+IFR1+MS

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3200.000	11.718	37.594	3164.372	13.150	0.000	11.775	0.000	4.497	0.000	0.000	13.232	11.655	-36.883	MWD+IFR1+MS
3300.000	11.718	37.594	3262.288	13.498	0.000	12.153	0.000	4.610	0.000	0.000	13.574	12.032	-36.613	MWD+IFR1+MS
3400.000	11.718	37.594	3360.204	13.849	0.000	12.531	0.000	4.723	0.000	0.000	13.917	12.409	-36.350	MWD+IFR1+MS
3500.000	11.718	37.594	3458.120	14.200	0.000	12.909	0.000	4.838	0.000	0.000	14.263	12.786	-36.094	MWD+IFR1+MS
3600.000	11.718	37.594	3556.036	14.554	0.000	13.287	0.000	4.955	0.000	0.000	14.611	13.164	-35.845	MWD+IFR1+MS
3700.000	11.718	37.594	3653.952	14.910	0.000	13.665	0.000	5.073	0.000	0.000	14.959	13.541	-35.603	MWD+IFR1+MS
3800.000	11.718	37.594	3751.868	15.266	0.000	14.043	0.000	5.193	0.000	0.000	15.310	13.918	-35.369	MWD+IFR1+MS
3900.000	11.718	37.594	3849.784	15.625	0.000	14.421	0.000	5.314	0.000	0.000	15.662	14.295	-35.141	MWD+IFR1+MS
4000.000	11.718	37.594	3947.700	15.984	0.000	14.798	0.000	5.437	0.000	0.000	16.014	14.672	-34.920	MWD+IFR1+MS
4100.000	11.718	37.594	4045.616	16.345	0.000	15.176	0.000	5.562	0.000	0.000	16.369	15.050	-34.705	MWD+IFR1+MS
4200.000	11.718	37.594	4143.532	16.707	0.000	15.554	0.000	5.687	0.000	0.000	16.724	15.427	-34.498	MWD+IFR1+MS
4300.000	11.718	37.594	4241.448	17.070	0.000	15.932	0.000	5.815	0.000	0.000	17.080	15.804	-34.296	MWD+IFR1+MS
4400.000	11.718	37.594	4339.364	17.434	0.000	16.310	0.000	5.943	0.000	0.000	17.437	16.182	-34.101	MWD+IFR1+MS
4500.000	11.718	37.594	4437.280	17.799	0.000	16.688	0.000	6.074	0.000	0.000	17.795	16.559	-33.913	MWD+IFR1+MS
4600.000	11.718	37.594	4535.196	18.165	0.000	17.065	0.000	6.206	0.000	0.000	18.154	16.937	-33.731	MWD+IFR1+MS
4700.000	11.718	37.594	4633.112	18.531	0.000	17.443	0.000	6.339	0.000	0.000	18.514	17.314	-33.554	MWD+IFR1+MS
4800.000	11.718	37.594	4731.028	18.899	0.000	17.821	0.000	6.474	0.000	0.000	18.874	17.692	-33.384	MWD+IFR1+MS
4900.000	11.718	37.594	4828.944	19.267	0.000	18.199	0.000	6.611	0.000	0.000	19.236	18.069	-33.220	MWD+IFR1+MS
5000.000	11.718	37.594	4926.860	19.636	0.000	18.577	0.000	6.749	0.000	0.000	19.597	18.447	-33.062	MWD+IFR1+MS
5100.000	11.718	37.594	5024.776	20.005	0.000	18.954	0.000	6.889	0.000	0.000	19.960	18.825	-32.910	MWD+IFR1+MS
5200.000	11.718	37.594	5122.692	20.376	0.000	19.332	0.000	7.031	0.000	0.000	20.323	19.202	-32.763	MWD+IFR1+MS
5300.000	11.718	37.594	5220.609	20.746	0.000	19.710	0.000	7.174	0.000	0.000	20.687	19.580	-32.623	MWD+IFR1+MS
5400.000	11.718	37.594	5318.525	21.118	0.000	20.088	0.000	7.319	0.000	0.000	21.051	19.958	-32.487	MWD+IFR1+MS
5500.000	11.718	37.594	5416.441	21.489	0.000	20.465	0.000	7.466	0.000	0.000	21.416	20.336	-32.358	MWD+IFR1+MS
5600.000	11.718	37.594	5514.357	21.862	0.000	20.843	0.000	7.614	0.000	0.000	21.781	20.713	-32.234	MWD+IFR1+MS
5700.000	11.718	37.594	5612.273	22.235	0.000	21.221	0.000	7.765	0.000	0.000	22.146	21.091	-32.115	MWD+IFR1+MS
5800.000	11.718	37.594	5710.189	22.608	0.000	21.599	0.000	7.917	0.000	0.000	22.512	21.469	-32.002	MWD+IFR1+MS
5900.000	11.718	37.594	5808.105	22.982	0.000	21.976	0.000	8.071	0.000	0.000	22.879	21.847	-31.894	MWD+IFR1+MS
6000.000	11.718	37.594	5906.021	23.356	0.000	22.354	0.000	8.226	0.000	0.000	23.246	22.225	-31.791	MWD+IFR1+MS
6100.000	11.718	37.594	6003.937	23.730	0.000	22.732	0.000	8.384	0.000	0.000	23.613	22.603	-31.693	MWD+IFR1+MS
6200.000	11.718	37.594	6101.853	24.105	0.000	23.110	0.000	8.544	0.000	0.000	23.981	22.981	-31.601	MWD+IFR1+MS
6216.687	11.718	37.594	6118.191	24.167	0.000	23.172	0.000	8.571	0.000	0.000	24.040	23.044	-31.639	MWD+IFR1+MS
6300.000	10.051	37.594	6200.002	24.505	0.000	23.479	0.000	8.706	0.000	0.000	24.351	23.355	-31.894	MWD+IFR1+MS
6400.000	8.051	37.594	6298.752	24.955	0.000	23.848	0.000	8.870	0.000	0.000	24.795	23.723	-32.630	MWD+IFR1+MS

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6500.000	6.051	37.594	6397.991	25.384	0.000	24.213	0.000	9.030	0.000	0.000	25.252	24.086	-33.323	MWD+IFR1+MS
6600.000	4.051	37.594	6497.597	25.776	0.000	24.571	0.000	9.183	0.000	0.000	25.700	24.441	-33.888	MWD+IFR1+MS
6700.000	2.051	37.594	6597.450	26.129	0.000	24.923	0.000	9.331	0.000	0.000	26.140	24.790	-34.346	MWD+IFR1+MS
6802.572	0.000	0.000	6700.000	25.649	0.000	26.082	0.000	9.479	0.000	0.000	26.559	25.155	-36.010	MWD+IFR1+MS
6900.000	0.000	0.000	6797.428	26.012	0.000	26.401	0.000	9.619	0.000	0.000	26.898	25.497	-36.947	MWD+IFR1+MS
7000.000	0.000	0.000	6897.428	26.350	0.000	26.729	0.000	9.765	0.000	0.000	27.226	25.836	-37.108	MWD+IFR1+MS
7100.000	0.000	0.000	6997.428	26.689	0.000	27.057	0.000	9.915	0.000	0.000	27.556	26.174	-37.268	MWD+IFR1+MS
7200.000	0.000	0.000	7097.428	27.029	0.000	27.387	0.000	10.067	0.000	0.000	27.886	26.514	-37.427	MWD+IFR1+MS
7300.000	0.000	0.000	7197.428	27.369	0.000	27.717	0.000	10.221	0.000	0.000	28.216	26.854	-37.584	MWD+IFR1+MS
7400.000	0.000	0.000	7297.428	27.709	0.000	28.048	0.000	10.379	0.000	0.000	28.548	27.194	-37.740	MWD+IFR1+MS
7500.000	0.000	0.000	7397.428	28.050	0.000	28.380	0.000	10.539	0.000	0.000	28.880	27.535	-37.893	MWD+IFR1+MS
7600.000	0.000	0.000	7497.428	28.391	0.000	28.712	0.000	10.703	0.000	0.000	29.212	27.876	-38.045	MWD+IFR1+MS
7700.000	0.000	0.000	7597.428	28.732	0.000	29.045	0.000	10.869	0.000	0.000	29.545	28.217	-38.196	MWD+IFR1+MS
7800.000	0.000	0.000	7697.428	29.075	0.000	29.378	0.000	11.038	0.000	0.000	29.879	28.559	-38.344	MWD+IFR1+MS
7900.000	0.000	0.000	7797.428	29.417	0.000	29.712	0.000	11.210	0.000	0.000	30.214	28.902	-38.492	MWD+IFR1+MS
8000.000	0.000	0.000	7897.428	29.760	0.000	30.047	0.000	11.385	0.000	0.000	30.549	29.245	-38.637	MWD+IFR1+MS
8100.000	0.000	0.000	7997.428	30.103	0.000	30.382	0.000	11.563	0.000	0.000	30.884	29.588	-38.781	MWD+IFR1+MS
8200.000	0.000	0.000	8097.428	30.447	0.000	30.718	0.000	11.744	0.000	0.000	31.220	29.931	-38.923	MWD+IFR1+MS
8300.000	0.000	0.000	8197.428	30.790	0.000	31.054	0.000	11.928	0.000	0.000	31.557	30.275	-39.064	MWD+IFR1+MS
8400.000	0.000	0.000	8297.428	31.135	0.000	31.391	0.000	12.115	0.000	0.000	31.894	30.619	-39.203	MWD+IFR1+MS
8500.000	0.000	0.000	8397.428	31.479	0.000	31.728	0.000	12.306	0.000	0.000	32.232	30.963	-39.341	MWD+IFR1+MS
8600.000	0.000	0.000	8497.428	31.824	0.000	32.066	0.000	12.499	0.000	0.000	32.570	31.308	-39.477	MWD+IFR1+MS
8700.000	0.000	0.000	8597.428	32.169	0.000	32.404	0.000	12.695	0.000	0.000	32.908	31.653	-39.612	MWD+IFR1+MS
8800.000	0.000	0.000	8697.428	32.515	0.000	32.742	0.000	12.894	0.000	0.000	33.247	31.998	-39.745	MWD+IFR1+MS
8900.000	0.000	0.000	8797.428	32.860	0.000	33.081	0.000	13.096	0.000	0.000	33.586	32.344	-39.877	MWD+IFR1+MS
9000.000	0.000	0.000	8897.428	33.206	0.000	33.421	0.000	13.301	0.000	0.000	33.926	32.690	-40.007	MWD+IFR1+MS
9100.000	0.000	0.000	8997.428	33.552	0.000	33.760	0.000	13.510	0.000	0.000	34.266	33.036	-40.136	MWD+IFR1+MS
9200.000	0.000	0.000	9097.428	33.899	0.000	34.100	0.000	13.721	0.000	0.000	34.607	33.382	-40.264	MWD+IFR1+MS
9300.000	0.000	0.000	9197.428	34.246	0.000	34.441	0.000	13.936	0.000	0.000	34.947	33.729	-40.390	MWD+IFR1+MS
9400.000	0.000	0.000	9297.428	34.593	0.000	34.782	0.000	14.153	0.000	0.000	35.289	34.075	-40.515	MWD+IFR1+MS
9500.000	0.000	0.000	9397.428	34.940	0.000	35.123	0.000	14.374	0.000	0.000	35.630	34.422	-40.638	MWD+IFR1+MS
9600.000	0.000	0.000	9497.428	35.287	0.000	35.465	0.000	14.598	0.000	0.000	35.972	34.770	-40.760	MWD+IFR1+MS
9700.000	0.000	0.000	9597.428	35.635	0.000	35.806	0.000	14.825	0.000	0.000	36.314	35.117	-40.881	MWD+IFR1+MS
9800.000	0.000	0.000	9697.428	35.983	0.000	36.149	0.000	15.055	0.000	0.000	36.657	35.465	-41.001	MWD+IFR1+MS

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9900.000	0.000	0.000	9797.428	36.331	0.000	36.491	0.000	15.288	0.000	0.000	37.000	35.813	-41.119	MWD+IFR1+MS
10000.000	0.000	0.000	9897.428	36.679	0.000	36.834	0.000	15.525	0.000	0.000	37.343	36.161	-41.236	MWD+IFR1+MS
10100.000	0.000	0.000	9997.428	37.028	0.000	37.177	0.000	15.764	0.000	0.000	37.687	36.509	-41.352	MWD+IFR1+MS
10200.000	0.000	0.000	10097.428	37.376	0.000	37.520	0.000	16.007	0.000	0.000	38.030	36.857	-41.467	MWD+IFR1+MS
10300.000	0.000	0.000	10197.428	37.725	0.000	37.864	0.000	16.253	0.000	0.000	38.374	37.206	-41.580	MWD+IFR1+MS
10400.000	0.000	0.000	10297.428	38.074	0.000	38.208	0.000	16.502	0.000	0.000	38.719	37.555	-41.692	MWD+IFR1+MS
10470.370	0.000	0.000	10367.800	38.318	0.000	38.449	0.000	16.679	0.000	0.000	38.958	37.800	-41.762	MWD+IFR1+MS
10500.000	2.370	179.657	10397.422	38.269	0.000	38.551	-0.000	16.753	0.000	0.000	39.053	37.899	-41.796	MWD+IFR1+MS
10600.000	10.370	179.657	10496.723	38.180	0.000	38.852	-0.000	17.022	0.000	0.000	39.612	38.391	127.377	MWD+IFR1+MS
10700.000	18.370	179.657	10593.516	38.156	0.000	39.136	-0.000	17.407	0.000	0.000	40.696	38.867	111.963	MWD+IFR1+MS
10800.000	26.370	179.657	10685.915	37.588	0.000	39.396	-0.000	17.974	0.000	0.000	41.755	39.188	105.915	MWD+IFR1+MS
10900.000	34.370	179.657	10772.122	36.555	0.000	39.629	-0.000	18.768	0.000	0.000	42.673	39.446	103.173	MWD+IFR1+MS
11000.000	42.370	179.657	10850.460	35.162	0.000	39.835	-0.000	19.807	0.000	0.000	43.421	39.661	101.812	MWD+IFR1+MS
11100.000	50.370	179.657	10919.404	33.549	0.000	40.012	-0.000	21.075	0.000	0.000	43.993	39.838	101.170	MWD+IFR1+MS
11200.000	58.370	179.657	10977.611	31.895	0.000	40.159	-0.000	22.537	0.000	0.000	44.398	39.980	100.969	MWD+IFR1+MS
11300.000	66.370	179.657	11023.948	30.410	0.000	40.277	-0.000	24.140	0.000	0.000	44.655	40.088	101.065	MWD+IFR1+MS
11400.000	74.370	179.657	11057.515	29.328	0.000	40.364	-0.000	25.826	0.000	0.000	44.795	40.163	101.365	MWD+IFR1+MS
11500.000	82.370	179.657	11077.657	28.866	0.000	40.422	-0.000	27.537	0.000	0.000	44.854	40.206	101.774	MWD+IFR1+MS
11595.370	90.000	179.657	11083.997	29.012	0.000	40.448	-0.000	29.012	0.000	0.000	44.873	40.218	102.160	MWD+IFR1+MS
11600.000	90.000	179.657	11083.997	29.020	0.000	40.448	-0.000	29.020	0.000	0.000	44.874	40.217	102.175	MWD+IFR1+MS
11700.000	90.000	179.657	11083.997	29.196	0.000	40.466	-0.000	29.196	0.000	0.000	44.889	40.221	102.555	MWD+IFR1+MS
11800.000	90.000	179.657	11083.997	29.395	0.000	40.502	-0.000	29.395	0.000	0.000	44.906	40.241	102.977	MWD+IFR1+MS
11900.000	90.000	179.657	11083.997	29.614	0.000	40.553	-0.000	29.614	0.000	0.000	44.925	40.275	103.437	MWD+IFR1+MS
12000.000	90.000	179.657	11083.997	29.852	0.000	40.618	-0.000	29.852	0.000	0.000	44.946	40.321	103.937	MWD+IFR1+MS
12100.000	90.000	179.657	11083.997	30.109	0.000	40.697	-0.000	30.109	0.000	0.000	44.969	40.380	104.483	MWD+IFR1+MS
12200.000	90.000	179.657	11083.997	30.384	0.000	40.790	-0.000	30.384	0.000	0.000	44.995	40.452	105.078	MWD+IFR1+MS
12242.840	90.000	179.657	11083.997	30.505	0.000	40.832	-0.000	30.505	0.000	0.000	45.006	40.484	105.342	MWD+IFR1+MS
12300.000	90.000	179.657	11083.997	30.672	0.000	40.892	-0.000	30.672	0.000	0.000	45.022	40.531	105.710	MWD+IFR1+MS
12400.000	90.000	179.657	11083.997	30.979	0.000	41.012	-0.000	30.979	0.000	0.000	45.052	40.625	106.415	MWD+IFR1+MS
12500.000	90.000	179.657	11083.997	31.305	0.000	41.147	-0.000	31.305	0.000	0.000	45.085	40.733	107.193	MWD+IFR1+MS
12600.000	90.000	179.657	11083.997	31.648	0.000	41.296	-0.000	31.648	0.000	0.000	45.122	40.851	108.047	MWD+IFR1+MS
12700.000	90.000	179.657	11083.997	32.006	0.000	41.459	-0.000	32.006	0.000	0.000	45.163	40.980	108.986	MWD+IFR1+MS
12800.000	90.000	179.657	11083.997	32.379	0.000	41.635	-0.000	32.379	0.000	0.000	45.207	41.118	110.019	MWD+IFR1+MS
12900.000	90.000	179.657	11083.997	32.766	0.000	41.824	-0.000	32.766	0.000	0.000	45.257	41.266	111.158	MWD+IFR1+MS

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13000.000	90.000	179.657	11083.997	33.168	0.000	42.027	-0.000	33.168	0.000	0.000	45.312	41.422	112.415	MWD+IFR1+MS
13100.000	90.000	179.657	11083.997	33.583	0.000	42.242	-0.000	33.583	0.000	0.000	45.373	41.585	113.801	MWD+IFR1+MS
13200.000	90.000	179.657	11083.997	34.011	0.000	42.470	-0.000	34.011	0.000	0.000	45.442	41.754	115.330	MWD+IFR1+MS
13300.000	90.000	179.657	11083.997	34.452	0.000	42.711	-0.000	34.452	0.000	0.000	45.519	41.927	117.014	MWD+IFR1+MS
13400.000	90.000	179.657	11083.997	34.905	0.000	42.964	-0.000	34.905	0.000	0.000	45.606	42.104	118.863	MWD+IFR1+MS
13500.000	90.000	179.657	11083.997	35.369	0.000	43.229	-0.000	35.369	0.000	0.000	45.703	42.283	120.884	MWD+IFR1+MS
13600.000	90.000	179.657	11083.997	35.845	0.000	43.506	-0.000	35.845	0.000	0.000	45.813	42.462	123.079	MWD+IFR1+MS
13700.000	90.000	179.657	11083.997	36.331	0.000	43.794	-0.000	36.331	0.000	0.000	45.938	42.638	125.440	MWD+IFR1+MS
13800.000	90.000	179.657	11083.997	36.828	0.000	44.094	-0.000	36.828	0.000	0.000	46.078	42.811	127.951	MWD+IFR1+MS
13900.000	90.000	179.657	11083.997	37.334	0.000	44.405	-0.000	37.334	0.000	0.000	46.236	42.978	130.583	MWD+IFR1+MS
14000.000	90.000	179.657	11083.997	37.850	0.000	44.727	-0.000	37.850	0.000	0.000	46.412	43.138	133.299	MWD+IFR1+MS
14100.000	90.000	179.657	11083.997	38.375	0.000	45.060	-0.000	38.375	0.000	0.000	46.609	43.288	43.949	MWD+IFR1+MS
14200.000	90.000	179.657	11083.997	38.909	0.000	45.403	-0.000	38.909	0.000	0.000	46.826	43.430	41.211	MWD+IFR1+MS
14300.000	90.000	179.657	11083.997	39.452	0.000	45.757	-0.000	39.452	0.000	0.000	47.064	43.561	38.538	MWD+IFR1+MS
14400.000	90.000	179.657	11083.997	40.002	0.000	46.120	-0.000	40.002	0.000	0.000	47.323	43.682	35.970	MWD+IFR1+MS
14500.000	90.000	179.657	11083.997	40.560	0.000	46.493	-0.000	40.560	0.000	0.000	47.602	43.793	33.542	MWD+IFR1+MS
14600.000	90.000	179.657	11083.997	41.125	0.000	46.876	-0.000	41.125	0.000	0.000	47.901	43.896	31.274	MWD+IFR1+MS
14700.000	90.000	179.657	11083.997	41.698	0.000	47.268	-0.000	41.698	0.000	0.000	48.218	43.989	29.176	MWD+IFR1+MS
14800.000	90.000	179.657	11083.997	42.277	0.000	47.669	-0.000	42.277	0.000	0.000	48.552	44.075	27.251	MWD+IFR1+MS
14900.000	90.000	179.657	11083.997	42.863	0.000	48.079	-0.000	42.863	0.000	0.000	48.902	44.155	25.494	MWD+IFR1+MS
15000.000	90.000	179.657	11083.997	43.455	0.000	48.498	-0.000	43.455	0.000	0.000	49.267	44.228	23.894	MWD+IFR1+MS
15100.000	90.000	179.657	11083.997	44.054	0.000	48.925	-0.000	44.054	0.000	0.000	49.646	44.297	22.442	MWD+IFR1+MS
15200.000	90.000	179.657	11083.997	44.657	0.000	49.360	-0.000	44.657	0.000	0.000	50.038	44.361	21.123	MWD+IFR1+MS
15300.000	90.000	179.657	11083.997	45.267	0.000	49.803	-0.000	45.267	0.000	0.000	50.443	44.422	19.926	MWD+IFR1+MS
15400.000	90.000	179.657	11083.997	45.882	0.000	50.254	-0.000	45.882	0.000	0.000	50.859	44.479	18.838	MWD+IFR1+MS
15500.000	90.000	179.657	11083.997	46.502	0.000	50.712	-0.000	46.502	0.000	0.000	51.286	44.534	17.848	MWD+IFR1+MS
15600.000	90.000	179.657	11083.997	47.127	0.000	51.178	-0.000	47.127	0.000	0.000	51.723	44.586	16.944	MWD+IFR1+MS
15700.000	90.000	179.657	11083.997	47.756	0.000	51.651	-0.000	47.756	0.000	0.000	52.170	44.637	16.119	MWD+IFR1+MS
15800.000	90.000	179.657	11083.997	48.390	0.000	52.131	-0.000	48.390	0.000	0.000	52.626	44.686	15.363	MWD+IFR1+MS
15900.000	90.000	179.657	11083.997	49.029	0.000	52.618	-0.000	49.029	0.000	0.000	53.091	44.733	14.670	MWD+IFR1+MS
16000.000	90.000	179.657	11083.997	49.672	0.000	53.111	-0.000	49.672	0.000	0.000	53.564	44.779	14.031	MWD+IFR1+MS
16100.000	90.000	179.657	11083.997	50.318	0.000	53.610	-0.000	50.318	0.000	0.000	54.045	44.824	13.443	MWD+IFR1+MS
16200.000	90.000	179.657	11083.997	50.969	0.000	54.116	-0.000	50.969	0.000	0.000	54.534	44.869	12.898	MWD+IFR1+MS
16300.000	90.000	179.657	11083.997	51.623	0.000	54.628	-0.000	51.623	0.000	0.000	55.030	44.913	12.394	MWD+IFR1+MS

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16400.000	90.000	179.657	11083.997	52.281	0.000	55.146	-0.000	52.281	0.000	0.000	55.533	44.956	-11.926	MWD+IFR1+MS
16500.000	90.000	179.657	11083.997	52.942	0.000	55.669	-0.000	52.942	0.000	0.000	56.043	44.999	-11.491	MWD+IFR1+MS
16600.000	90.000	179.657	11083.997	53.607	0.000	56.198	-0.000	53.607	0.000	0.000	56.559	45.041	-11.085	MWD+IFR1+MS
16700.000	90.000	179.657	11083.997	54.275	0.000	56.733	-0.000	54.275	0.000	0.000	57.081	45.083	-10.706	MWD+IFR1+MS
16800.000	90.000	179.657	11083.997	54.946	0.000	57.273	-0.000	54.946	0.000	0.000	57.610	45.126	-10.352	MWD+IFR1+MS
16900.000	90.000	179.657	11083.997	55.620	0.000	57.817	-0.000	55.620	0.000	0.000	58.144	45.168	-10.019	MWD+IFR1+MS
17000.000	90.000	179.657	11083.997	56.297	0.000	58.367	-0.000	56.297	0.000	0.000	58.684	45.209	-9.707	MWD+IFR1+MS
17100.000	90.000	179.657	11083.997	56.977	0.000	58.922	-0.000	56.977	0.000	0.000	59.229	45.251	-9.413	MWD+IFR1+MS
17200.000	90.000	179.657	11083.997	57.659	0.000	59.481	-0.000	57.659	0.000	0.000	59.779	45.293	-9.137	MWD+IFR1+MS
17300.000	90.000	179.657	11083.997	58.344	0.000	60.045	-0.000	58.344	0.000	0.000	60.334	45.335	-8.876	MWD+IFR1+MS
17400.000	90.000	179.657	11083.997	59.031	0.000	60.613	-0.000	59.031	0.000	0.000	60.895	45.378	-8.629	MWD+IFR1+MS
17500.000	90.000	179.657	11083.997	59.721	0.000	61.185	-0.000	59.721	0.000	0.000	61.460	45.420	-8.396	MWD+IFR1+MS
17600.000	90.000	179.657	11083.997	60.413	0.000	61.762	-0.000	60.413	0.000	0.000	62.029	45.463	-8.175	MWD+IFR1+MS
17700.000	90.000	179.657	11083.997	61.107	0.000	62.343	-0.000	61.107	0.000	0.000	62.603	45.505	-7.965	MWD+IFR1+MS
17800.000	90.000	179.657	11083.997	61.804	0.000	62.928	-0.000	61.804	0.000	0.000	63.181	45.548	-7.766	MWD+IFR1+MS
17900.000	90.000	179.657	11083.997	62.502	0.000	63.516	-0.000	62.502	0.000	0.000	63.764	45.591	-7.576	MWD+IFR1+MS
18000.000	90.000	179.657	11083.997	63.203	0.000	64.108	-0.000	63.203	0.000	0.000	64.350	45.635	-7.396	MWD+IFR1+MS
18100.000	90.000	179.657	11083.997	63.905	0.000	64.704	-0.000	63.905	0.000	0.000	64.940	45.679	-7.224	MWD+IFR1+MS
18200.000	90.000	179.657	11083.997	64.610	0.000	65.304	-0.000	64.610	0.000	0.000	65.534	45.723	-7.060	MWD+IFR1+MS
18300.000	90.000	179.657	11083.997	65.316	0.000	65.907	-0.000	65.316	0.000	0.000	66.132	45.767	-6.903	MWD+IFR1+MS
18400.000	90.000	179.657	11083.997	66.024	0.000	66.513	-0.000	66.024	0.000	0.000	66.733	45.812	-6.754	MWD+IFR1+MS
18500.000	90.000	179.657	11083.997	66.734	0.000	67.123	-0.000	66.734	0.000	0.000	67.338	45.857	-6.611	MWD+IFR1+MS
18600.000	90.000	179.657	11083.997	67.445	0.000	67.735	-0.000	67.445	0.000	0.000	67.946	45.903	-6.473	MWD+IFR1+MS
18700.000	90.000	179.657	11083.997	68.158	0.000	68.351	-0.000	68.158	0.000	0.000	68.558	45.948	-6.342	MWD+IFR1+MS
18800.000	90.000	179.657	11083.997	68.873	0.000	68.970	-0.000	68.873	0.000	0.000	69.172	45.995	-6.216	MWD+IFR1+MS
18900.000	90.000	179.657	11083.997	69.589	0.000	69.592	-0.000	69.589	0.000	0.000	69.790	46.041	-6.095	MWD+IFR1+MS
19000.000	90.000	179.657	11083.997	70.307	0.000	70.216	-0.000	70.307	0.000	0.000	70.410	46.088	-5.979	MWD+IFR1+MS
19100.000	90.000	179.657	11083.997	71.026	0.000	70.843	-0.000	71.026	0.000	0.000	71.034	46.135	-5.867	MWD+IFR1+MS
19200.000	90.000	179.657	11083.997	71.746	0.000	71.473	-0.000	71.746	0.000	0.000	71.660	46.183	-5.759	MWD+IFR1+MS
19300.000	90.000	179.657	11083.997	72.468	0.000	72.106	-0.000	72.468	0.000	0.000	72.289	46.231	-5.656	MWD+IFR1+MS
19400.000	90.000	179.657	11083.997	73.191	0.000	72.741	-0.000	73.191	0.000	0.000	72.921	46.280	-5.556	MWD+IFR1+MS
19500.000	90.000	179.657	11083.997	73.915	0.000	73.379	-0.000	73.915	0.000	0.000	73.556	46.329	-5.460	MWD+IFR1+MS
19600.000	90.000	179.657	11083.997	74.641	0.000	74.019	-0.000	74.641	0.000	0.000	74.193	46.378	-5.367	MWD+IFR1+MS
19700.000	90.000	179.657	11083.997	75.367	0.000	74.662	-0.000	75.367	0.000	0.000	74.832	46.428	-5.278	MWD+IFR1+MS

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19800.000	90.000	179.657	11083.997	76.095	0.000	75.306	-0.000	76.095	0.000	0.000	75.474	46.478	-5.191	MWD+IFR1+MS
19900.000	90.000	179.657	11083.997	76.824	0.000	75.953	-0.000	76.824	0.000	0.000	76.118	46.529	-5.108	MWD+IFR1+MS
20000.000	90.000	179.657	11083.997	77.554	0.000	76.603	-0.000	77.554	0.000	0.000	76.764	46.580	-5.027	MWD+IFR1+MS
20100.000	90.000	179.657	11083.997	78.285	0.000	77.254	-0.000	78.285	0.000	0.000	77.413	46.631	-4.949	MWD+IFR1+MS
20200.000	90.000	179.657	11083.997	79.017	0.000	77.907	-0.000	79.017	0.000	0.000	78.064	46.683	-4.873	MWD+IFR1+MS
20300.000	90.000	179.657	11083.997	79.751	0.000	78.563	-0.000	79.751	0.000	0.000	78.717	46.736	-4.800	MWD+IFR1+MS
20400.000	90.000	179.657	11083.997	80.485	0.000	79.220	-0.000	80.485	0.000	0.000	79.372	46.789	-4.729	MWD+IFR1+MS
20500.000	90.000	179.657	11083.997	81.220	0.000	79.879	-0.000	81.220	0.000	0.000	80.029	46.842	-4.660	MWD+IFR1+MS
20600.000	90.000	179.657	11083.997	81.956	0.000	80.541	-0.000	81.956	0.000	0.000	80.688	46.895	-4.594	MWD+IFR1+MS
20700.000	90.000	179.657	11083.997	82.693	0.000	81.204	-0.000	82.693	0.000	0.000	81.348	46.950	-4.529	MWD+IFR1+MS
20800.000	90.000	179.657	11083.997	83.430	0.000	81.869	-0.000	83.430	0.000	0.000	82.011	47.004	-4.466	MWD+IFR1+MS
20900.000	90.000	179.657	11083.997	84.169	0.000	82.535	-0.000	84.169	0.000	0.000	82.675	47.059	-4.405	MWD+IFR1+MS
21000.000	90.000	179.657	11083.997	84.908	0.000	83.203	-0.000	84.908	0.000	0.000	83.342	47.115	-4.346	MWD+IFR1+MS
21100.000	90.000	179.657	11083.997	85.649	0.000	83.873	-0.000	85.649	0.000	0.000	84.010	47.170	-4.288	MWD+IFR1+MS
21200.000	90.000	179.657	11083.997	86.390	0.000	84.545	-0.000	86.390	0.000	0.000	84.679	47.227	-4.232	MWD+IFR1+MS
21300.000	90.000	179.657	11083.997	87.131	0.000	85.218	-0.000	87.131	0.000	0.000	85.351	47.284	-4.178	MWD+IFR1+MS
21400.000	90.000	179.657	11083.997	87.874	0.000	85.893	-0.000	87.874	0.000	0.000	86.023	47.341	-4.125	MWD+IFR1+MS
21500.000	90.000	179.657	11083.997	88.617	0.000	86.569	-0.000	88.617	0.000	0.000	86.698	47.398	-4.073	MWD+IFR1+MS
21600.000	90.000	179.657	11083.997	89.361	0.000	87.247	-0.000	89.361	0.000	0.000	87.374	47.457	-4.023	MWD+IFR1+MS
21700.000	90.000	179.657	11083.997	90.106	0.000	87.926	-0.000	90.106	0.000	0.000	88.051	47.515	-3.974	MWD+IFR1+MS
21800.000	90.000	179.657	11083.997	90.851	0.000	88.606	-0.000	90.851	0.000	0.000	88.730	47.574	-3.927	MWD+IFR1+MS
21900.000	90.000	179.657	11083.997	91.597	0.000	89.288	-0.000	91.597	0.000	0.000	89.410	47.634	-3.880	MWD+IFR1+MS
22000.000	90.000	179.657	11083.997	92.344	0.000	89.972	-0.000	92.344	0.000	0.000	90.092	47.693	-3.835	MWD+IFR1+MS
22100.000	90.000	179.657	11083.997	93.091	0.000	90.656	-0.000	93.091	0.000	0.000	90.775	47.754	-3.791	MWD+IFR1+MS
22200.000	90.000	179.657	11083.997	93.839	0.000	91.342	-0.000	93.839	0.000	0.000	91.459	47.814	-3.748	MWD+IFR1+MS
22300.000	90.000	179.657	11083.997	94.588	0.000	92.029	-0.000	94.588	0.000	0.000	92.145	47.876	-3.706	MWD+IFR1+MS
22400.000	90.000	179.657	11083.997	95.337	0.000	92.718	-0.000	95.337	0.000	0.000	92.832	47.937	-3.665	MWD+IFR1+MS
22500.000	90.000	179.657	11083.997	96.086	0.000	93.407	-0.000	96.086	0.000	0.000	93.520	47.999	-3.625	MWD+IFR1+MS
22600.000	90.000	179.657	11083.997	96.837	0.000	94.098	-0.000	96.837	0.000	0.000	94.210	48.062	-3.586	MWD+IFR1+MS
22700.000	90.000	179.657	11083.997	97.587	0.000	94.790	-0.000	97.587	0.000	0.000	94.900	48.125	-3.548	MWD+IFR1+MS
22800.000	90.000	179.657	11083.997	98.339	0.000	95.483	-0.000	98.339	0.000	0.000	95.592	48.188	-3.511	MWD+IFR1+MS
22900.000	90.000	179.657	11083.997	99.090	0.000	96.177	-0.000	99.090	0.000	0.000	96.285	48.252	-3.474	MWD+IFR1+MS
23000.000	90.000	179.657	11083.997	99.843	0.000	96.872	-0.000	99.843	0.000	0.000	96.979	48.316	-3.439	MWD+IFR1+MS
23100.000	90.000	179.657	11083.997	100.595	0.000	97.568	-0.000	100.595	0.000	0.000	97.674	48.381	-3.404	MWD+IFR1+MS

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23200.000	90.000	179.657	11083.997	101.349	0.000	98.266	-0.000	101.349	0.000	0.000	98.370	48.446	-3.370 MWD+IFR1+MS
23300.000	90.000	179.657	11083.997	102.102	0.000	98.964	-0.000	102.102	0.000	0.000	99.067	48.512	-3.337 MWD+IFR1+MS
23400.000	90.000	179.657	11083.997	102.857	0.000	99.663	-0.000	102.857	0.000	0.000	99.765	48.578	-3.304 MWD+IFR1+MS
23500.000	90.000	179.657	11083.997	103.611	0.000	100.363	-0.000	103.611	0.000	0.000	100.464	48.644	-3.272 MWD+IFR1+MS
23600.000	90.000	179.657	11083.997	104.366	0.000	101.065	-0.000	104.366	0.000	0.000	101.164	48.711	-3.241 MWD+IFR1+MS
23700.000	90.000	179.657	11083.997	105.122	0.000	101.767	-0.000	105.122	0.000	0.000	101.865	48.778	-3.210 MWD+IFR1+MS
23800.000	90.000	179.657	11083.997	105.878	0.000	102.470	-0.000	105.878	0.000	0.000	102.567	48.846	-3.180 MWD+IFR1+MS
23900.000	90.000	179.657	11083.997	106.634	0.000	103.174	-0.000	106.634	0.000	0.000	103.270	48.914	-3.151 MWD+IFR1+MS
23952.410	90.000	179.657	11083.997	106.832	0.000	103.402	-0.000	106.832	0.000	0.000	103.517	55.635	-3.544 MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22

Poker Lake Unit 22 DTD South 106H									
Plan Targets									
Target Name	Measured Depth (ft)	Grid Northing (ft)		Grid Easting (ft)		TVD MSL	Target Shape		
FTP 3	11299.22	440462.50		641947.20		7646.00	RECTANGLE		
SHL 3	12325.82	439639.00		641326.77		7621.89	RECTANGLE		
LTP 3	23862.00	427479.90		642025.00		7646.00	RECTANGLE		
BHL 3	23952.00	427389.90		642025.80		7646.00	RECTANGLE		

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO
LEASE NO.:	NMLC068431
LOCATION:	Sec. 22, T.24 S, R 30 E
COUNTY:	Eddy County, New Mexico ▼
WELL NAME & NO.:	Poker Lake Unit 22 DTD 106H
SURFACE HOLE FOOTAGE:	916'/N & 203'/W
BOTTOM HOLE FOOTAGE:	2627'/N & 840'W

COA

H₂S	<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 6404'**.
 - 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

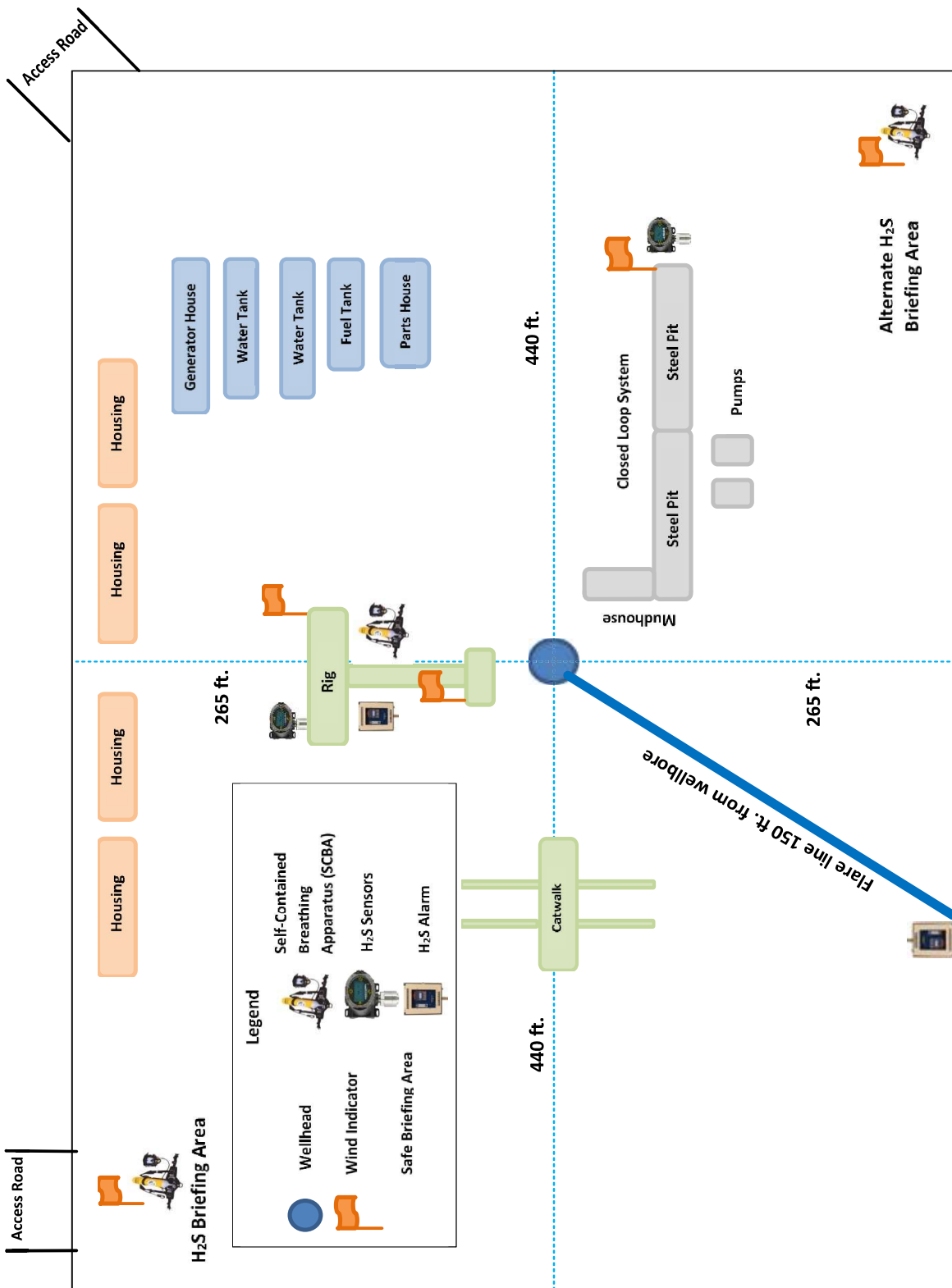
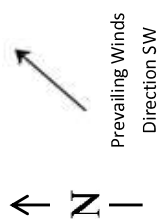
AGENT NOTIFICATIONS:**For Lea County:**

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

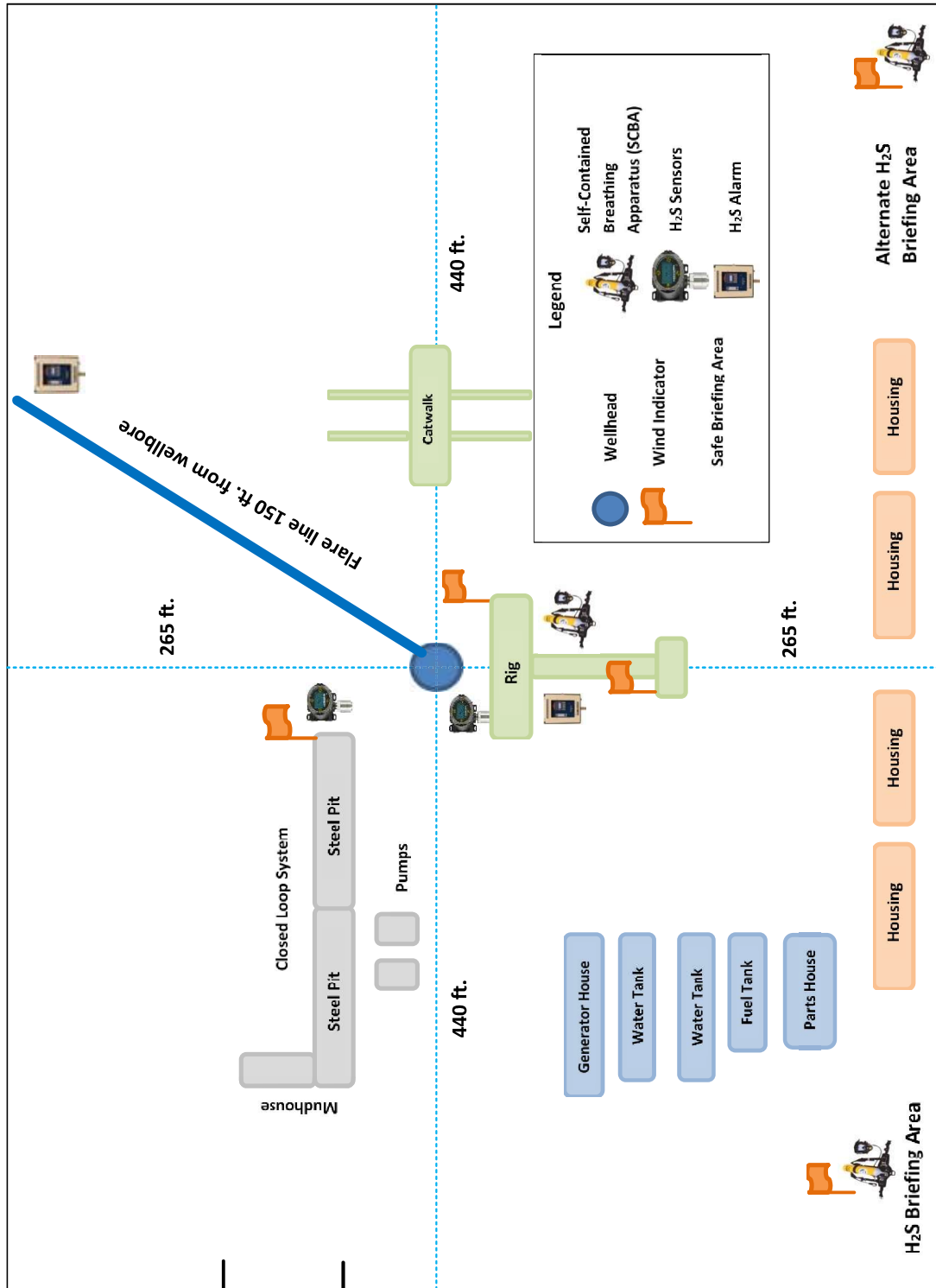
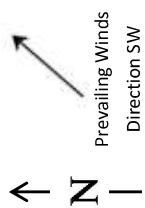
For Eddy County:

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

H2S Briefing Areas and Alarm Locations



H2S Briefing Areas and Alarm Locations



Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** POKER LAKE UNIT 22 DTD**Well Number:** 106H**Disposal location description:** A licensed 3rd party contractor will be used to haul and dispose of garbage.

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:**

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 22 DTD

Well Number: 106H

Section 9 - Well Site

Well Site Layout Diagram:
PLU_22_DTD_106H_Well_20240416135017.pdf
Comments: Multi-well pad.

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: A

Recontouring
PLU_22_DTD_IR1_20240416135318.pdf
PLU_22_DTD_IR2_20240416135318.pdf
PLU_22_DTD_IR3_20240416135318.pdf
PLU_22_DTD_IR4_20240416135318.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 gullying, 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) plan 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

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 22 DTD

Well Number: 106H

<style isBold="true">Existing Vegetation at the well pad:</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 at the well pad

<style isBold="true">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">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">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:

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 395258

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID:
	373075
	Action Number:
	395258
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