



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

Application for Permit to Drill

APD Package Report

Date Printed: 10/18/2024 01:32 PM

APD ID: 10400098106

Well Status: AAPD

APD Received Date: 04/17/2024 05:20 AM

Well Name: POKER LAKE UNIT 22 DTD

Operator: XTO PERMIAN OPERATING LLC

Well Number: 103H

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)
 - 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 checked="" type="checkbox"/> Single Zone <input 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 103H
3a. Address 6401 HOLIDAY HILL ROAD BLDG 5, MIDLAND, TX 79701	3b. Phone No. (include area code) (432) 683-2277	9. API Well No. 30-015-55583
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NWNW / 916 FNL / 113 FWL / LAT 32.207982 / LONG -103.877223 At proposed prod. zone SWNW / 2627 FNL / 393 FWL / LAT 32.174292 / LONG -103.87624		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) 113 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* 03/18/2025
		23. Estimated duration 45 days
24. Attachments		

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

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

25. Signature (Electronic Submission)	Name (Printed/Typed) RICHARD REDUS / Ph: (432) 682-8873	Date 04/17/2024
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 / 113 FWL / TWSP: 24S / RANGE: 30E / SECTION: 22 / LAT: 32.207982 / LONG: -103.877223 (TVD: 0 feet, MD: 0 feet)
PPP: NWNW / 100 FNL / 393 FWL / TWSP: 24S / RANGE: 30E / SECTION: 22 / LAT: 32.21023 / LONG: -103.876316 (TVD: 11302 feet, MD: 11800 feet)
PPP: NWNW / 0 FSL / 406 FWL / TWSP: 24S / RANGE: 30E / SECTION: 27 / LAT: 32.196008 / LONG: -103.876286 (TVD: 11302 feet, MD: 17100 feet)
PPP: SWSW / 1317 FSL / 403 FWL / TWSP: 24S / RANGE: 30E / SECTION: 22 / LAT: 32.199628 / LONG: -103.876294 (TVD: 11302 feet, MD: 15800 feet)
BHL: SWNW / 2627 FNL / 393 FWL / TWSP: 24S / RANGE: 30E / SECTION: 34 / LAT: 32.174292 / LONG: -103.87624 (TVD: 11302 feet, MD: 24139 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- 55583	Pool Code 98220	Pool Name PURPLE SAGE/WOLFCAMP (GAS)
Property Code 333192	Property Name POKER LAKE UNIT 22 DTD	Well Number 103H
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	113 FWL	32.207982	-103.877223	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	393 FWL	32.174292	-103.87624	EDDY

Dedicated Acres 1,600	Infill or Defining Well Infill	Defining Well API 1	Overlapping Spacing Unit (Y/N) N	Consolidation Code U
Order Numbers.			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	113 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	393 FWL	32.210230	-103.876316	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	393 FWL	32.174539	-103.876241	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.

Samantha Weis 10/21/2024

Signature Date

Samantha Weis

Printed Name

samantha.r.bartnik@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.

See Below

Signature and Seal of Professional Surveyor

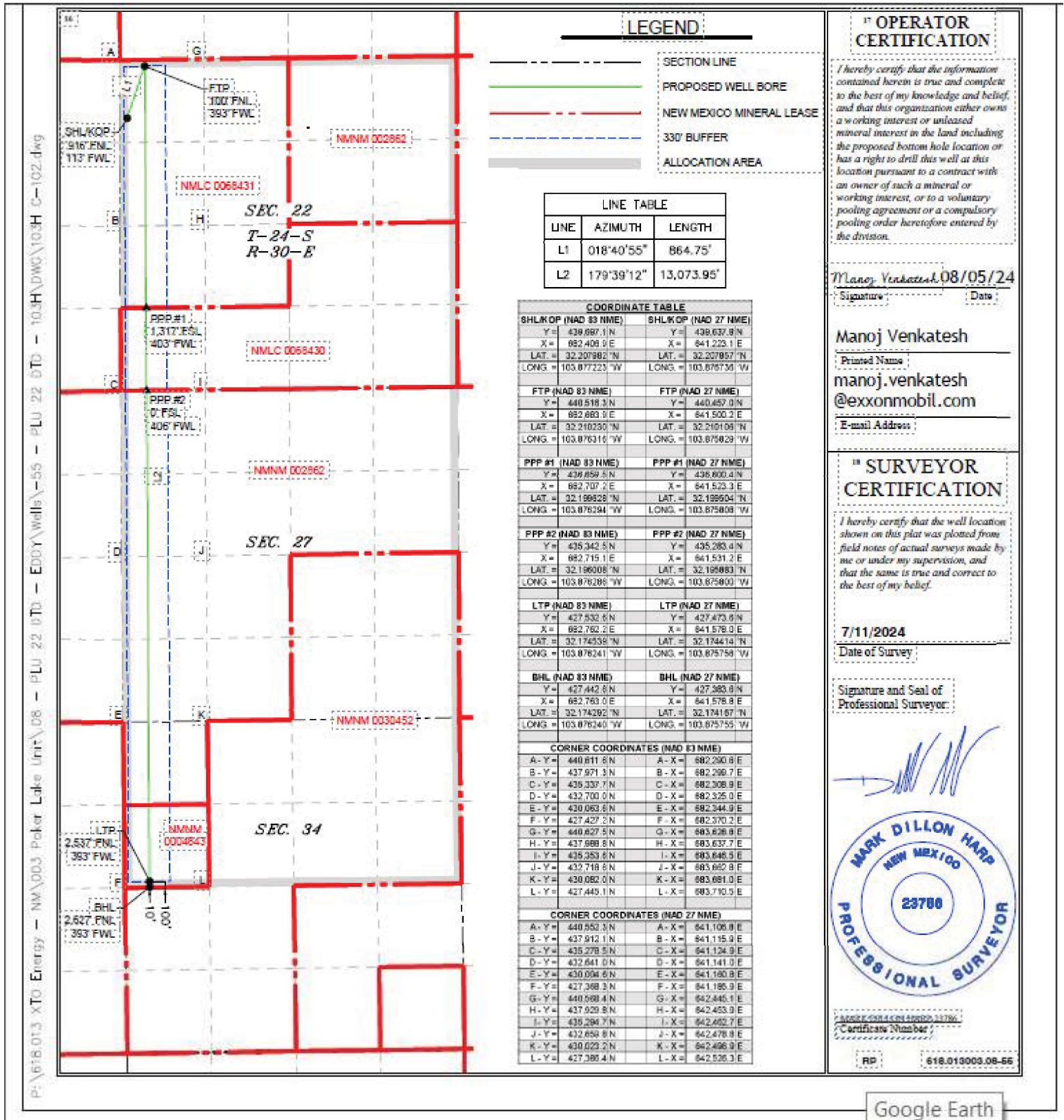
Certificate Number

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

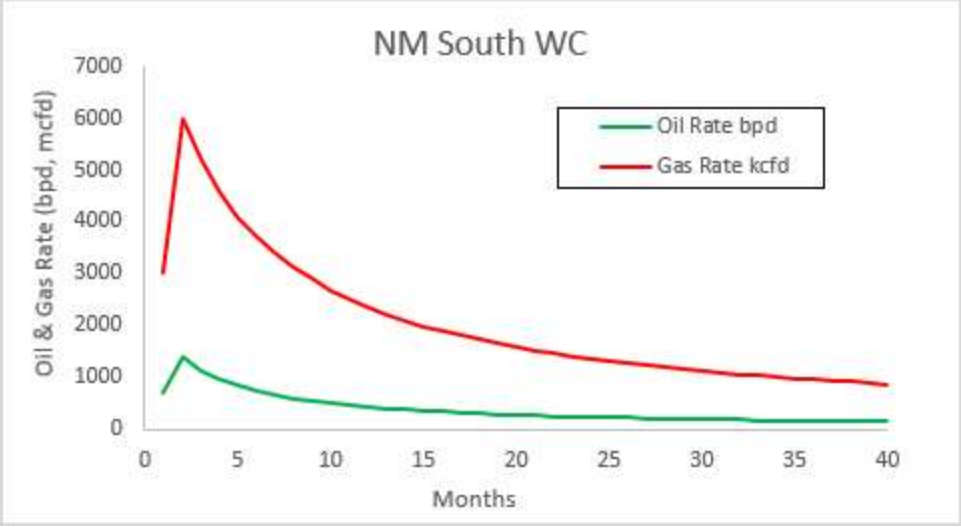
- Conduct and document AVO inspections on the frequency set forth in Part 27 to detect and repair any onsite leaks as quickly and efficiently as is feasible.

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:





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

Drilling Plan Data Report

10/18/2024

APD ID: 10400098106

Submission Date: 04/17/2024

Operator Name: XTO PERMIAN OPERATING LLC

Highlighted data
reflects the most
recent changes

Well Name: POKER LAKE UNIT 22 DTD

Well Number: 103H

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
14338978	QUATERNARY	3406	0	0	ALLUVIUM	USEABLE WATER	N
14338979	RUSTLER	2338	1068	1068	ANHYDRITE, SANDSTONE	USEABLE WATER	N
14338980	SALADO	1935	1471	1471	SALT	NONE	N
14338981	BASE OF SALT	-258	3664	3664	SALT	NONE	N
14338982	DELAWARE	-452	3858	3858	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : PRODUCED WATER	N
14338977	BRUSHY CANYON	-2998	6404	6404	SANDSTONE	NATURAL GAS, OIL, OTHER : PRODUCED WATER	N
14338983	BONE SPRING	-4322	7728	7728	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : PRODUCED WATER	N
14338984	BONE SPRING 1ST	-5031	8437	8437	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : PRODUCED WATER	N
14338985	BONE SPRING 2ND	-5616	9022	9022	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : PRODUCED WATER	N
14338975	BONE SPRING 3RD	-6442	9848	9848	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : PRODUCED WATER	N
14338976	WOLFCAMP	-7776	11182	11182	SANDSTONE, SHALE	NATURAL GAS, OIL, OTHER : PRODUCED WATER	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M

Rating Depth: 11302

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 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

Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** POKER LAKE UNIT 22 DTD**Well Number:** 103H

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_20240805131647.pdf

BOP Diagram Attachment:

5M10M_BOP_20240917142304.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	1.59	DRY	13.48	DRY	13.48
2	INTERMEDIATE	8.75	7.625	NEW	API	Y	0	10456	0	10386	3411	-6980	10456	L-80	29.7	FJ	2.29	1.61	DRY	2.12	DRY	2.12
3	PRODUCTION	6.75	5.5	NEW	NON API	Y	0	24139	0	11302	3411	-7896	24139	P-110	20	OTHER - Freedom HTQ/Talon HTQ	1.64	1.05	DRY	1.99	DRY	1.99

Casing Attachments

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 22 DTD

Well Number: 103H

Casing Attachments

Casing ID: 1	String	SURFACE
Inspection Document:		
Spec Document:		
Tapered String Spec:		
Casing Design Assumptions and Worksheet(s):		
PLU_22_DTD_103H_Csg_20240416164114.pdf		
Casing ID: 2	String	INTERMEDIATE
Inspection Document:		
Spec Document:		
Tapered String Spec:		
PLU_22_DTD_103H_Csg_20240416164455.pdf		
Casing Design Assumptions and Worksheet(s):		
PLU_22_DTD_103H_Csg_20240416164530.pdf		
Casing ID: 3	String	PRODUCTION
Inspection Document:		
Spec Document:		
Freedom_semi_premium_5.5_production_casing_20240805131918.pdf		
Talon__semiflush_5.5_production_casing_20240805131918.pdf		
Tapered String Spec:		
PLU_22_DTD_103H_Csg_20240805131853.pdf		
Casing Design Assumptions and Worksheet(s):		
PLU_22_DTD_103H_Csg_20240416164219.pdf		

Section 4 - Cement

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 22 DTD

Well Number: 103H

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	370	1.35	14.8	499.5	100	Class C	NA
INTERMEDIATE	Tail		6404	10456	720	1.33	14.8	957.6	100	Class C	NA
PRODUCTION	Lead		10156	10656	20	2.69	11.5	53.8	30	NeoCem	NA
PRODUCTION	Tail		10656	24139	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
10456	24139	OIL-BASED MUD	11.5	12							

Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** POKER LAKE UNIT 22 DTD**Well Number:** 103H

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	1045 6	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: 7052

Anticipated Surface Pressure: 4565

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_20240805131308.pdf

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 22 DTD

Well Number: 103H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

PLU_22_DTD_103H_DD_20240416165325.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

PLU_22_DTD_103H_Cmt_20240416165512.pdf

PLU_22_DTD_H2S_DiaA_20240805132629.pdf

PLU_22_DTD_H2S_DiaD_20240805132629.pdf

PLU_22_DTD_H2S_DiaB_20240805132630.pdf

PLU_22_DTD_H2S_DiaC_20240805132630.pdf

PLU_22_DTD_MBS_20240805132650.pdf

PLU_22_DTD_103H_RL_20240805132732.pdf

Other Variance attachment:

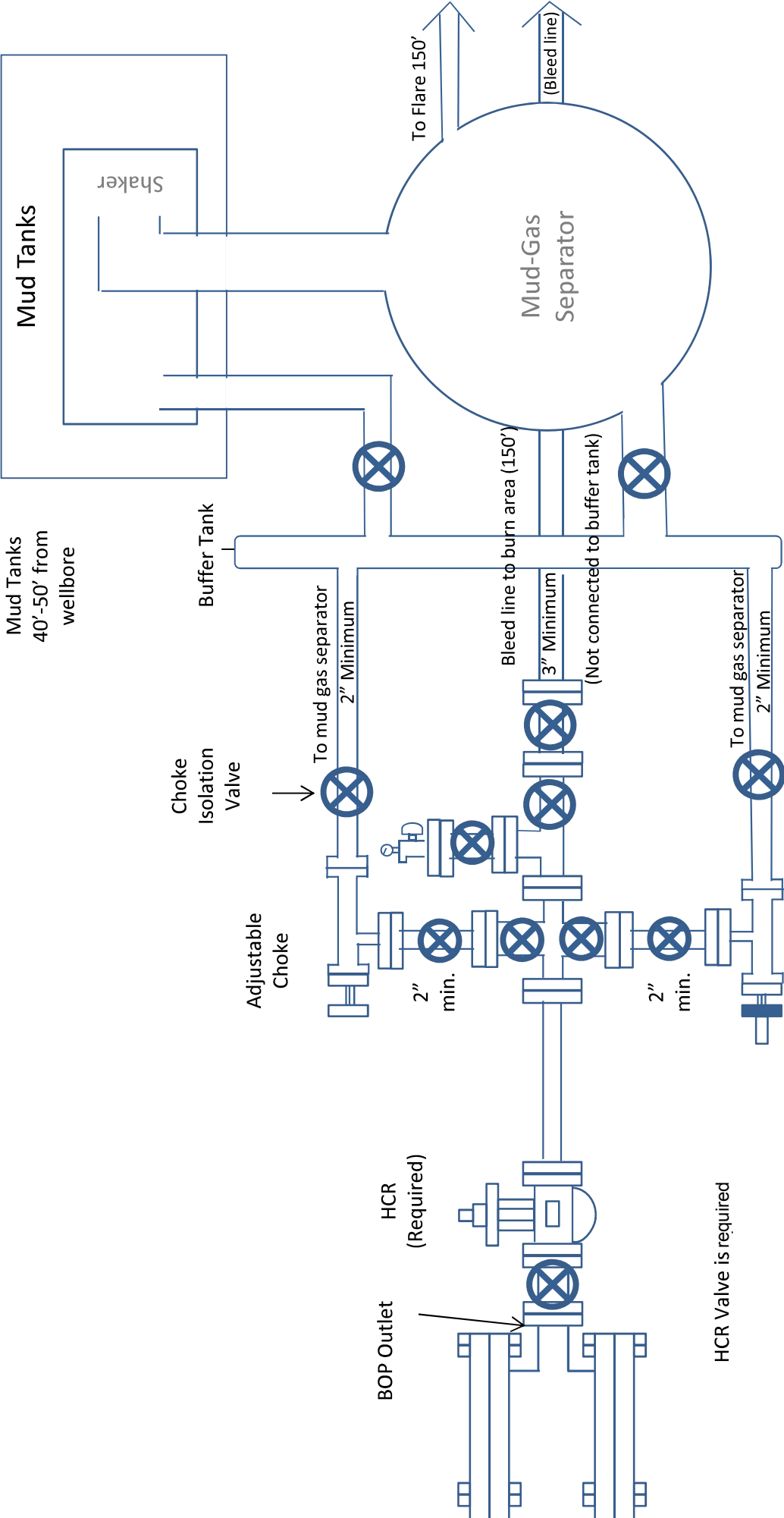
Spudder_Rig_Request_20240805132608.pdf

Updated_Flex_Hose_20240805132610.pdf

Offline_Cement_Variance_Surf___Interm_Csg_20240805132610.pdf

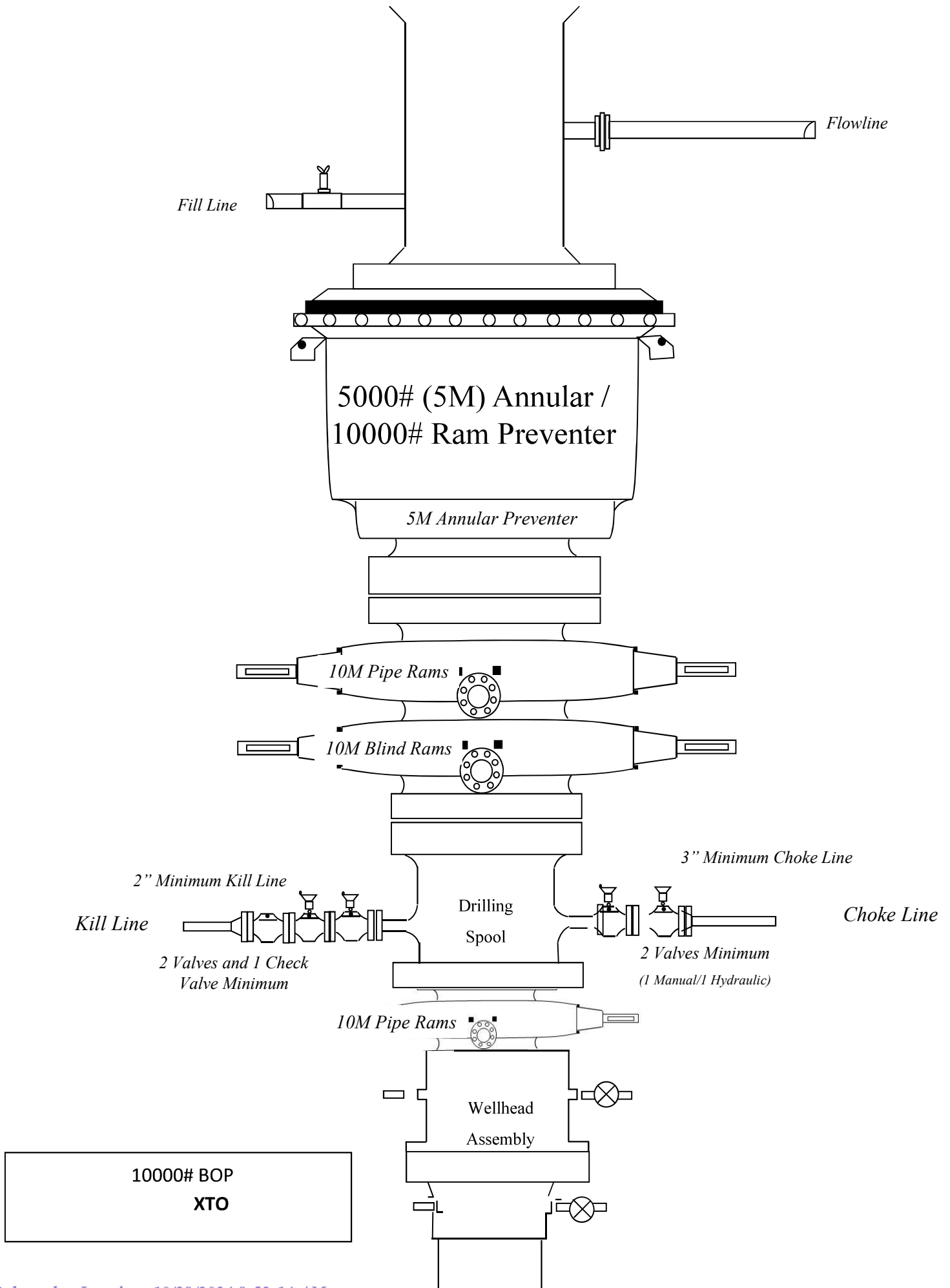
BOP_Break_Test_Variance_20240807134931.pdf

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



5M Choke Manifold Diagram
XTO

**Drilling Operations
Choke Manifold
5M Service**



Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0' – 1168'	9.625	40	J-55	BTC	New	1.59	5.39	13.48
8.75	0' – 4000'	7.625	29.7	RY P-110	Flush Joint	New	2.21	2.92	1.80
8.75	4000' – 10456'	7.625	29.7	HC L-80	Flush Joint	New	1.61	2.29	2.12
6.75	0' – 10356'	5.5	20	RY P-110	Semi-Premium	New	1.05	1.79	1.99
6.75	10356' - 24139'	5.5	20	RY P-110	Semi-Flush	New	1.05	1.64	1.99

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

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

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

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

Production Casing:

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.

**BLACK GOLD®**

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

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

*NEW CHOKE HOSE
INSTALLED 02-10-2024*

CERTIFICATE OF CONFORMANCE

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

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

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

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

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



H3-15/16

1/25/2024 11:48:06 AM

TEST REPORT

CUSTOMER

Company: Nabors Industries Inc.

Production description: 74621/66-1531

Sales order #: 529480

Customer reference: FG1213

TEST OBJECT

Serial number: H3-012524-1

Lot number:

Description: 74621/66-1531

Hose ID: 3" 16C CK

Part number:

TEST INFORMATION

Test procedure: GTS-04-053

Test pressure: 15000.00 psi

Test pressure hold: 3600.00 sec

Work pressure: 10000.00 psi

Work pressure hold: 900.00 sec

Length difference: 0.00 %

Length difference: 0.00 inch

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

Part number:

Description:

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

Part number:

Description:

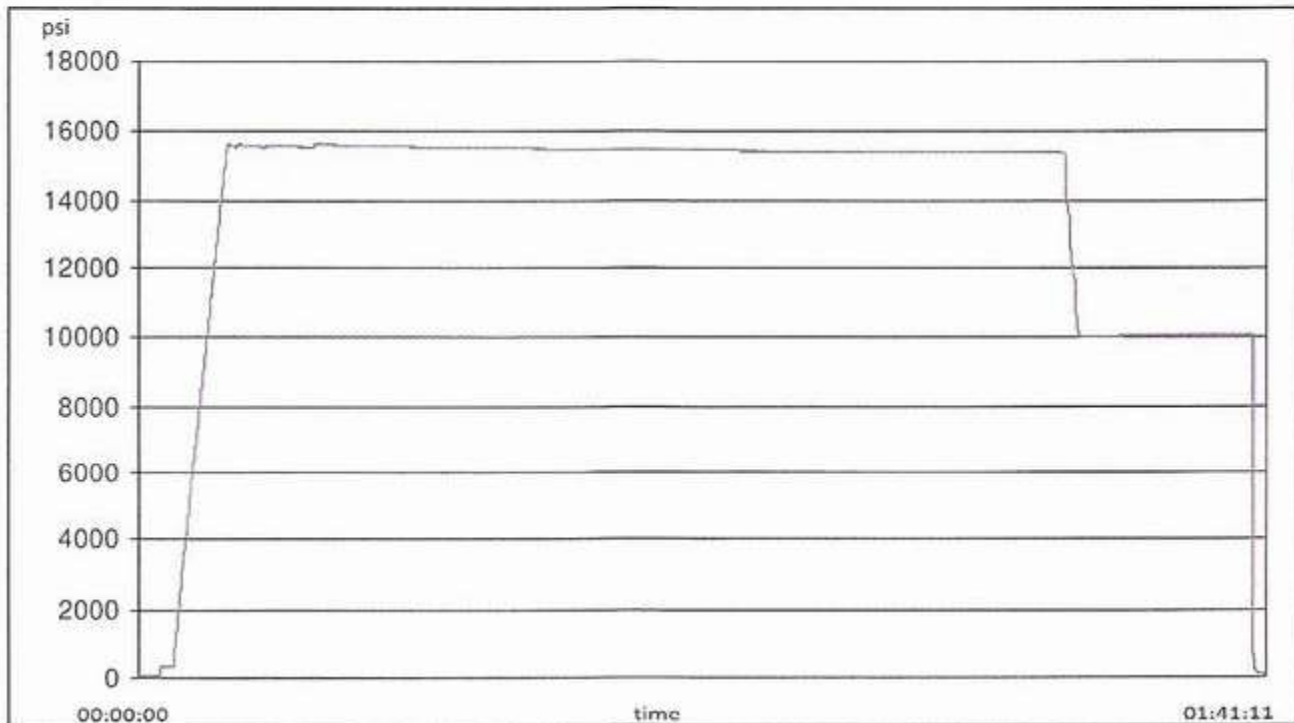
Visual check:

Pressure test result: PASS

Length measurement result:

Length: 45 feet

Test operator: Travis





H3-15/1b

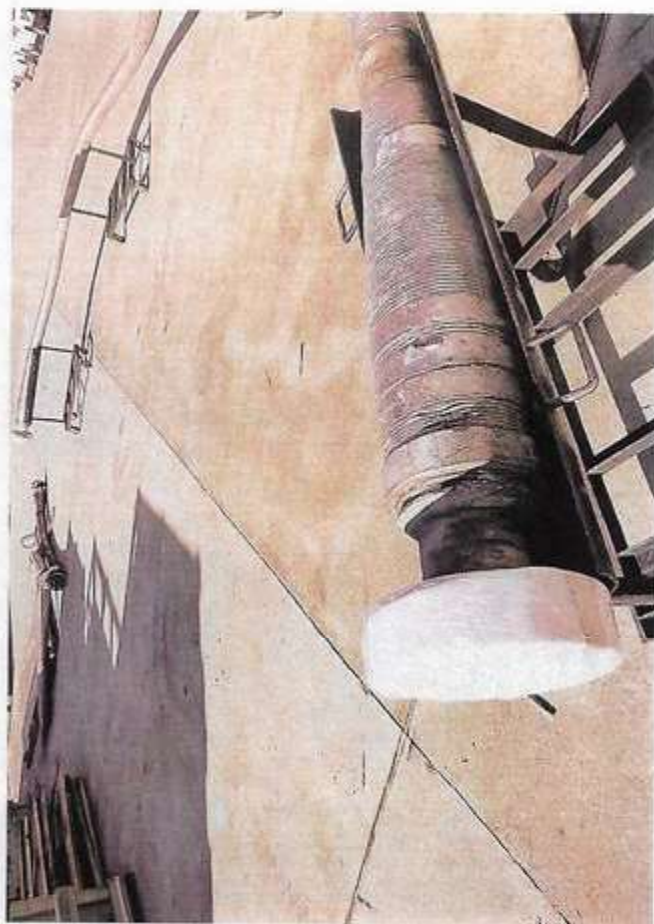
1/25/2024 11:48:06 AM

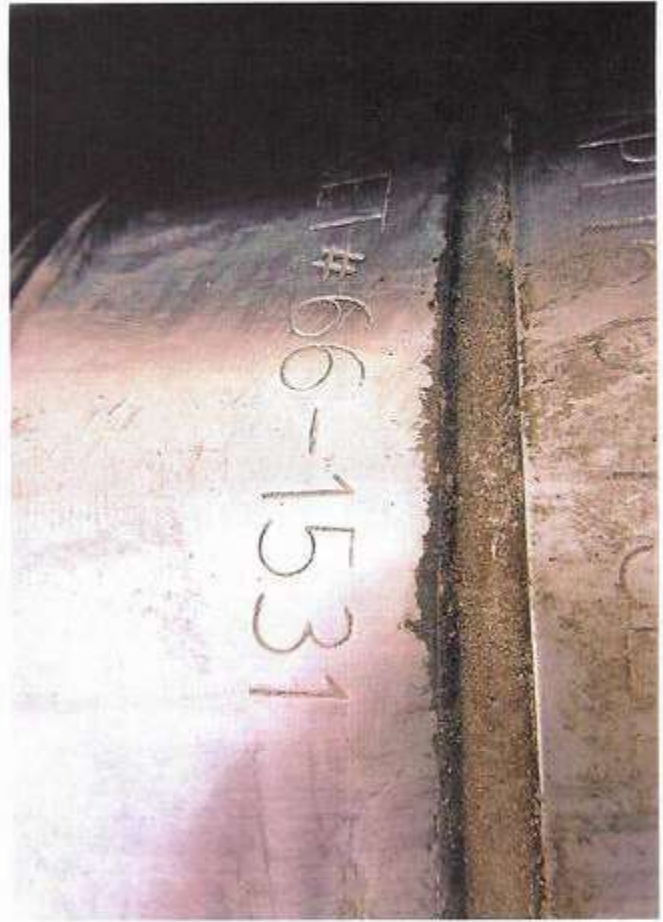
TEST REPORT

GAUGE TRACEABILITY

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

Comment





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.

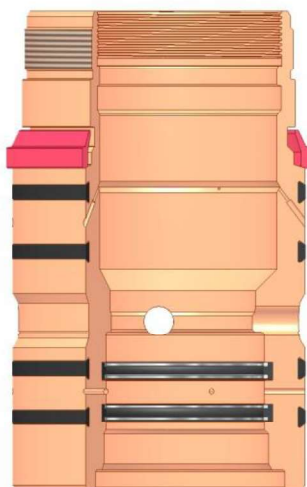
1. Cement Program

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

2. Offline Cementing Procedure

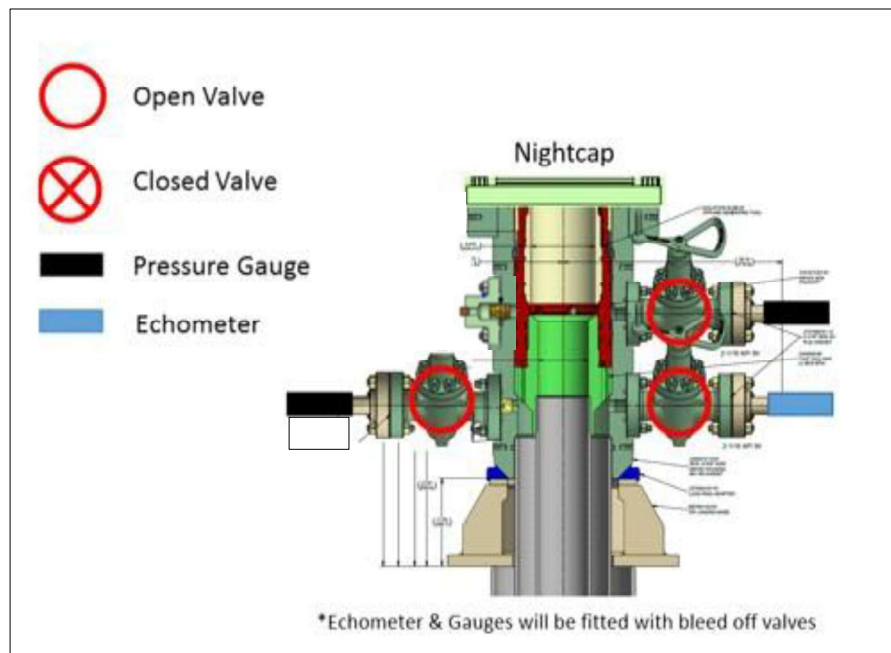
The operational sequence will be as follows. If a well control event occurs, the BLM will be contacted for approval prior to conducting offline cementing operations.

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.



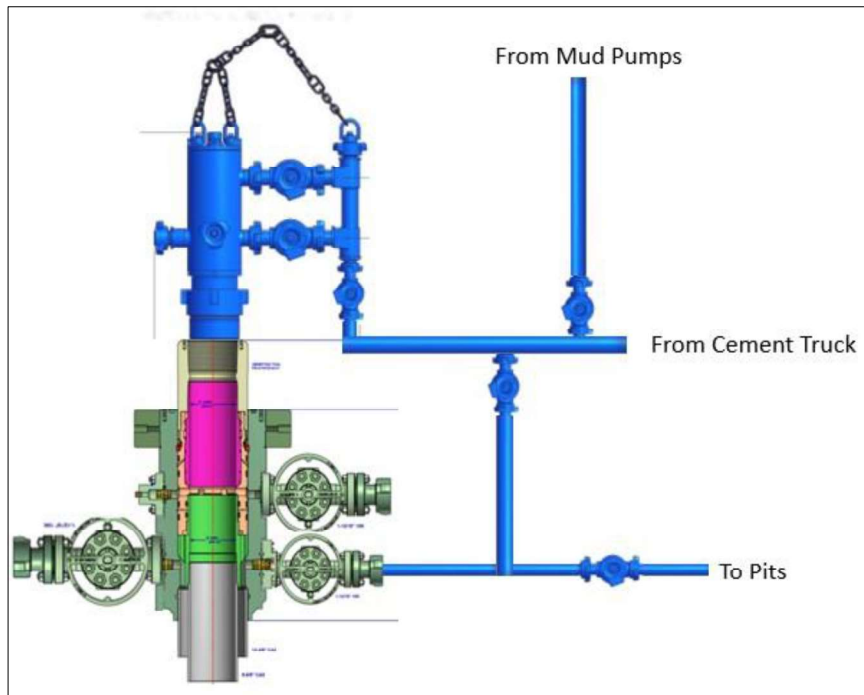
Annular packoff with both external and internal seals

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.

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

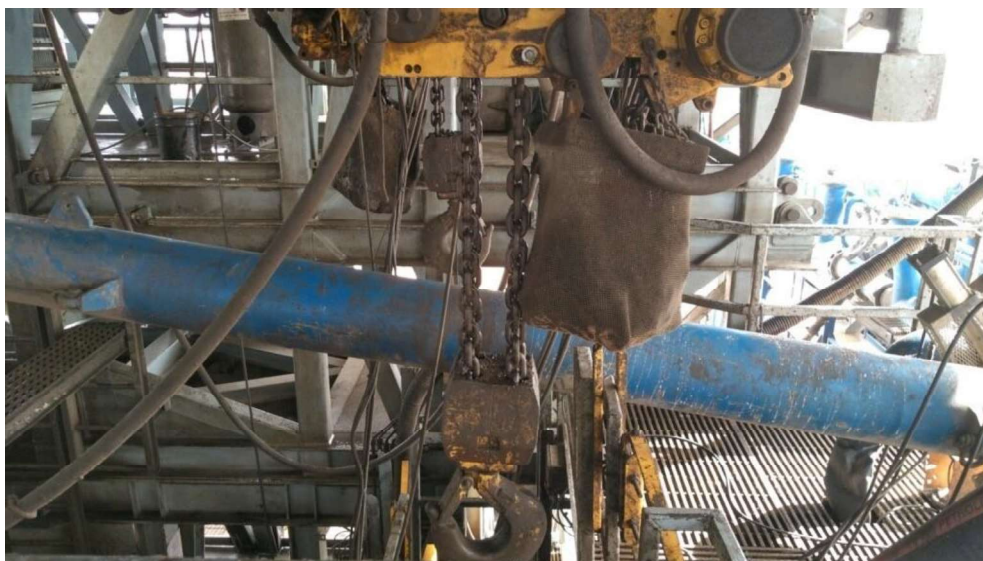


Figure 2: BOP Winch System

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

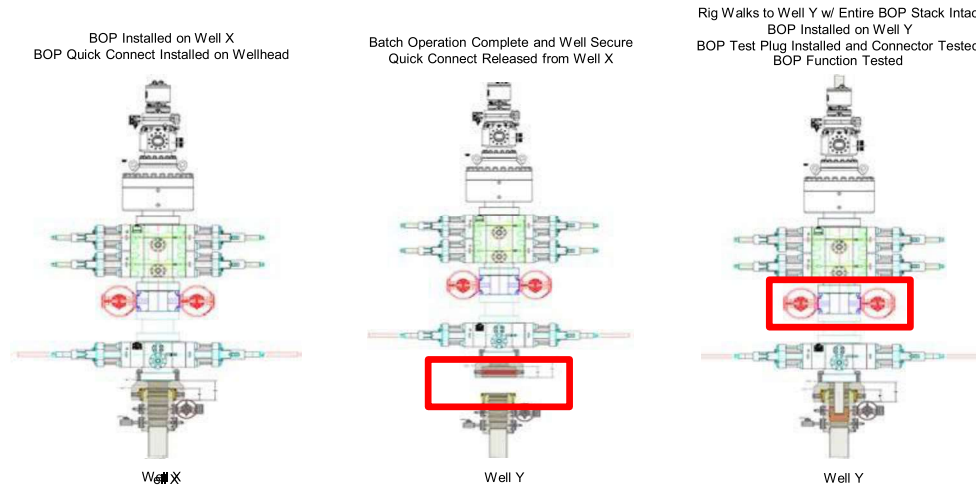
each BOP nipple up, XTO Energy performs a choke drill with the rig crew prior to drilling out every casing shoe. This is additional training for the rig crew that exceeds the requirements of the CFR Title 43 Part 3170.

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



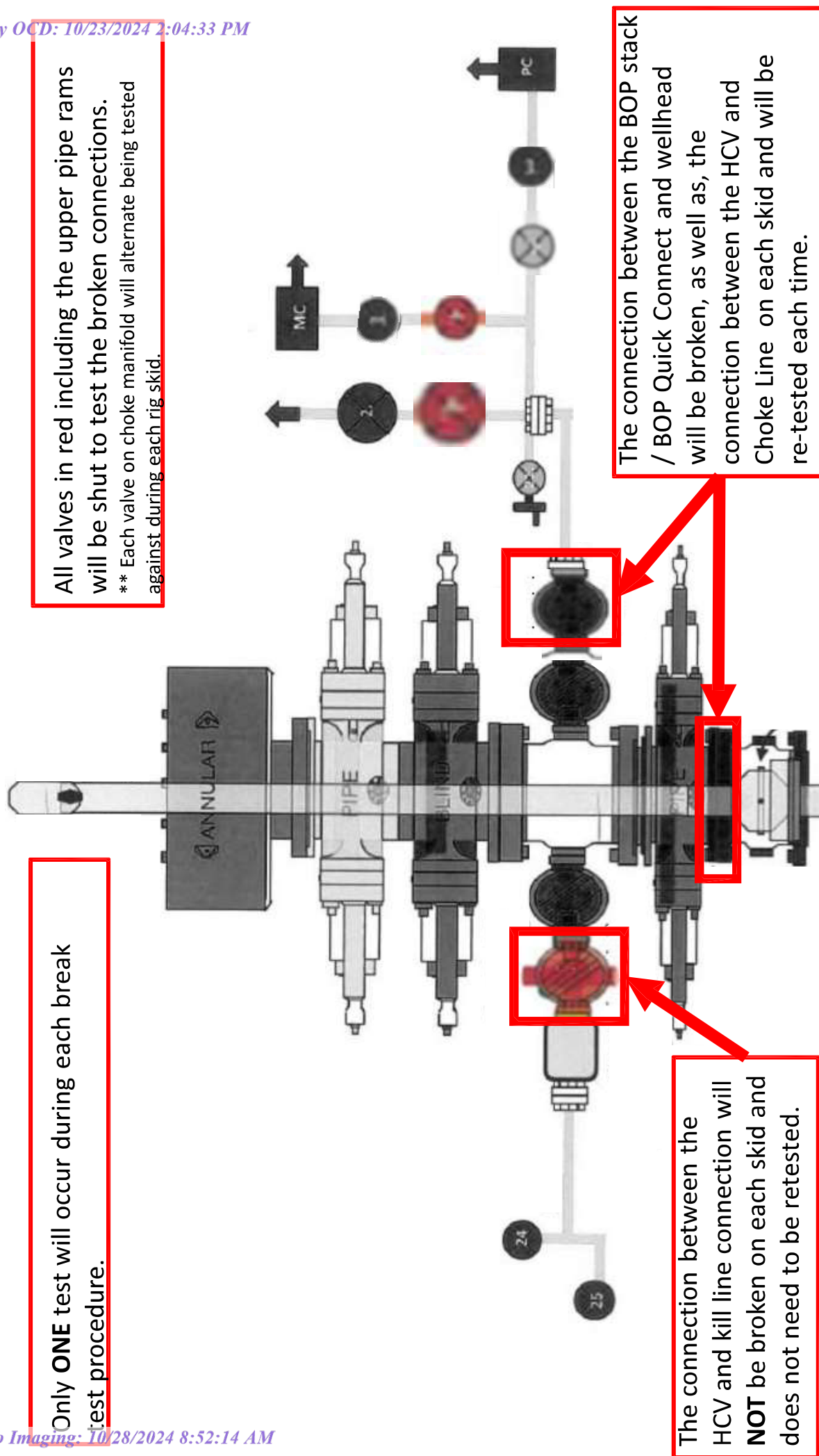
Summary

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.





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Well Plan Report - Poker Lake Unit 22 DTD South 103H

Measured Depth: 24139.00 ft
TVD RKB: 11302.00 ft
Location
Cartographic Reference System: New Mexico East - NAD 27
Northing: 439637.80 ft
Easting: 641223.10 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 103H

Measured		TVD		Y Offset		X Offset		Build		Turn		Dogleg	
Depth	Inclination	Azimuth	RKB	(ft)	(ft)	(ft)	(ft)	Rate	(Deg/100ft)	Rate	(Deg/100ft)	Rate	(Deg/100ft) Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1579.40	9.59	18.69	1577.17	37.91	12.82	264.28	277.10	2.00	0.00	0.00	2.00	0.00	2.00
6290.88	9.59	18.69	6222.83	781.29	264.28	277.10	277.10	0.00	0.00	0.00	0.00	0.00	0.00
6770.28	0.00	0.00	6700.00	819.20	277.10	277.10	277.10	-2.00	0.00	0.00	2.00	0.00	2.00
10656.08	0.00	0.00	10585.80	819.20	277.10	277.10	277.10	0.00	0.00	0.00	0.00	0.00	0.00
11781.08	90.00	179.66	11302.00	103.02	281.39	283.18	283.18	8.00	0.00	0.00	8.00	0.00	8.00
12080.73	90.00	179.66	11302.00	-196.63	283.18	355.37	355.37	0.00	0.00	0.00	0.00	0.00	0.00 LTP 2
24139.00	90.00	179.66	11302.00	-12254.68	355.37			0.00	0.00	0.00	0.00	0.00	0.00 BHL 2

Position Uncertainty Poker Lake Unit 22 DTD South 103H

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

(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000 MWD+IFR1+MS
100.000	0.000	0.000	100.000	0.000	0.700	0.000	0.350	0.000	2.300	0.000	0.000	0.751	0.220 112.264 MWD+IFR1+MS
200.000	0.000	0.000	200.000	0.000	1.112	0.000	0.861	0.000	2.310	0.000	0.000	1.259	0.627 122.711 MWD+IFR1+MS
300.000	0.000	0.000	300.000	0.000	1.497	0.000	1.271	0.000	2.325	0.000	0.000	1.698	0.986 125.469 MWD+IFR1+MS
400.000	0.000	0.000	400.000	0.000	1.871	0.000	1.658	0.000	2.347	0.000	0.000	2.108	1.344 126.713 MWD+IFR1+MS
500.000	0.000	0.000	500.000	0.000	2.240	0.000	2.034	0.000	2.374	0.000	0.000	2.503	1.701 127.419 MWD+IFR1+MS
600.000	0.000	0.000	600.000	0.000	2.607	0.000	2.405	0.000	2.407	0.000	0.000	2.888	2.059 127.873 MWD+IFR1+MS
700.000	0.000	0.000	700.000	0.000	2.971	0.000	2.773	0.000	2.444	0.000	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	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	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	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	0.000	4.752	3.849 128.859 MWD+IFR1+MS
1200.000	2.000	18.688	1199.980	0.000	5.193	0.000	4.337	0.000	2.692	0.000	0.000	5.302	4.206 127.839 MWD+IFR1+MS
1300.000	4.000	18.688	1299.838	0.000	5.958	0.000	4.716	0.000	2.752	0.000	0.000	6.086	4.563 125.922 MWD+IFR1+MS
1400.000	6.000	18.688	1399.452	0.000	6.648	0.000	5.092	0.000	2.818	0.000	0.000	6.798	4.918 125.011 MWD+IFR1+MS
1500.000	8.000	18.688	1498.702	0.000	7.283	0.000	5.464	0.000	2.891	0.000	0.000	7.457	5.272 124.482 MWD+IFR1+MS
1579.402	9.588	18.688	1577.168	0.000	7.654	0.000	5.749	0.000	2.949	0.000	0.000	7.849	5.553 124.244 MWD+IFR1+MS
1600.000	9.588	18.688	1597.478	0.000	7.711	0.000	5.819	0.000	2.960	0.000	0.000	7.905	5.626 124.207 MWD+IFR1+MS
1700.000	9.588	18.688	1696.081	0.000	7.988	0.000	6.171	0.000	3.032	0.000	0.000	8.176	5.987 124.283 MWD+IFR1+MS
1800.000	9.588	18.688	1794.684	0.000	8.287	0.000	6.543	0.000	3.110	0.000	0.000	8.475	6.357 124.710 MWD+IFR1+MS
1900.000	9.588	18.688	1893.288	0.000	8.592	0.000	6.914	0.000	3.189	0.000	0.000	8.780	6.728 125.123 MWD+IFR1+MS
2000.000	9.588	18.688	1991.891	0.000	8.903	0.000	7.286	0.000	3.272	0.000	0.000	9.090	7.098 125.522 MWD+IFR1+MS
2100.000	9.588	18.688	2090.494	0.000	9.218	0.000	7.657	0.000	3.357	0.000	0.000	9.404	7.467 125.908 MWD+IFR1+MS
2200.000	9.588	18.688	2189.097	0.000	9.538	0.000	8.028	0.000	3.444	0.000	0.000	9.723	7.837 126.280 MWD+IFR1+MS
2300.000	9.588	18.688	2287.700	0.000	9.862	0.000	8.399	0.000	3.533	0.000	0.000	10.046	8.207 126.638 MWD+IFR1+MS
2400.000	9.588	18.688	2386.303	0.000	10.190	0.000	8.769	0.000	3.624	0.000	0.000	10.372	8.576 126.984 MWD+IFR1+MS
2500.000	9.588	18.688	2484.906	0.000	10.521	0.000	9.140	0.000	3.717	0.000	0.000	10.701	8.946 127.317 MWD+IFR1+MS
2600.000	9.588	18.688	2583.509	0.000	10.856	0.000	9.511	0.000	3.812	0.000	0.000	11.033	9.315 127.638 MWD+IFR1+MS
2700.000	9.588	18.688	2682.112	0.000	11.192	0.000	9.881	0.000	3.909	0.000	0.000	11.367	9.684 127.947 MWD+IFR1+MS
2800.000	9.588	18.688	2780.715	0.000	11.532	0.000	10.252	0.000	4.007	0.000	0.000	11.704	10.054 128.245 MWD+IFR1+MS
2900.000	9.588	18.688	2879.318	0.000	11.874	0.000	10.622	0.000	4.107	0.000	0.000	12.043	10.423 128.531 MWD+IFR1+MS
3000.000	9.588	18.688	2977.921	0.000	12.217	0.000	10.993	0.000	4.209	0.000	0.000	12.384	10.792 128.807 MWD+IFR1+MS
3100.000	9.588	18.688	3076.524	0.000	12.563	0.000	11.363	0.000	4.312	0.000	0.000	12.727	11.162 129.072 MWD+IFR1+MS

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3200.000	9.588	18.688	3175.128	12.911	0.000	11.733	0.000	4.417	0.000	0.000	13.071	11.531	129.326	MWD+IFR1+MS
3300.000	9.588	18.688	3273.731	13.260	0.000	12.104	0.000	4.523	0.000	0.000	13.417	11.900	129.571	MWD+IFR1+MS
3400.000	9.588	18.688	3372.334	13.611	0.000	12.474	0.000	4.630	0.000	0.000	13.765	12.270	129.806	MWD+IFR1+MS
3500.000	9.588	18.688	3470.937	13.963	0.000	12.844	0.000	4.739	0.000	0.000	14.113	12.639	130.032	MWD+IFR1+MS
3600.000	9.588	18.688	3569.540	14.316	0.000	13.214	0.000	4.850	0.000	0.000	14.463	13.008	130.249	MWD+IFR1+MS
3700.000	9.588	18.688	3668.143	14.671	0.000	13.584	0.000	4.962	0.000	0.000	14.814	13.378	130.457	MWD+IFR1+MS
3800.000	9.588	18.688	3766.746	15.026	0.000	13.955	0.000	5.075	0.000	0.000	15.166	13.747	130.656	MWD+IFR1+MS
3900.000	9.588	18.688	3865.349	15.383	0.000	14.325	0.000	5.190	0.000	0.000	15.519	14.117	130.848	MWD+IFR1+MS
4000.000	9.588	18.688	3963.952	15.741	0.000	14.695	0.000	5.306	0.000	0.000	15.873	14.486	131.031	MWD+IFR1+MS
4100.000	9.588	18.688	4062.555	16.100	0.000	15.065	0.000	5.424	0.000	0.000	16.228	14.856	131.206	MWD+IFR1+MS
4200.000	9.588	18.688	4161.158	16.459	0.000	15.435	0.000	5.543	0.000	0.000	16.583	15.225	131.375	MWD+IFR1+MS
4300.000	9.588	18.688	4259.761	16.819	0.000	15.805	0.000	5.664	0.000	0.000	16.940	15.595	131.535	MWD+IFR1+MS
4400.000	9.588	18.688	4358.364	17.180	0.000	16.175	0.000	5.786	0.000	0.000	17.297	15.965	131.689	MWD+IFR1+MS
4500.000	9.588	18.688	4456.968	17.542	0.000	16.545	0.000	5.910	0.000	0.000	17.654	16.334	131.836	MWD+IFR1+MS
4600.000	9.588	18.688	4555.571	17.904	0.000	16.915	0.000	6.036	0.000	0.000	18.012	16.704	131.976	MWD+IFR1+MS
4700.000	9.588	18.688	4654.174	18.267	0.000	17.285	0.000	6.163	0.000	0.000	18.371	17.074	132.110	MWD+IFR1+MS
4800.000	9.588	18.688	4752.777	18.631	0.000	17.655	0.000	6.291	0.000	0.000	18.730	17.443	132.238	MWD+IFR1+MS
4900.000	9.588	18.688	4851.380	18.995	0.000	18.025	0.000	6.422	0.000	0.000	19.090	17.813	132.359	MWD+IFR1+MS
5000.000	9.588	18.688	4949.983	19.359	0.000	18.395	0.000	6.554	0.000	0.000	19.451	18.183	132.475	MWD+IFR1+MS
5100.000	9.588	18.688	5048.586	19.725	0.000	18.765	0.000	6.688	0.000	0.000	19.811	18.553	132.585	MWD+IFR1+MS
5200.000	9.588	18.688	5147.189	20.090	0.000	19.135	0.000	6.823	0.000	0.000	20.172	18.923	132.689	MWD+IFR1+MS
5300.000	9.588	18.688	5245.792	20.456	0.000	19.505	0.000	6.960	0.000	0.000	20.534	19.293	132.788	MWD+IFR1+MS
5400.000	9.588	18.688	5344.395	20.822	0.000	19.875	0.000	7.099	0.000	0.000	20.896	19.663	132.882	MWD+IFR1+MS
5500.000	9.588	18.688	5442.998	21.189	0.000	20.245	0.000	7.240	0.000	0.000	21.258	20.032	132.970	MWD+IFR1+MS
5600.000	9.588	18.688	5541.601	21.556	0.000	20.615	0.000	7.383	0.000	0.000	21.621	20.402	133.054	MWD+IFR1+MS
5700.000	9.588	18.688	5640.205	21.924	0.000	20.985	0.000	7.528	0.000	0.000	21.984	20.772	133.133	MWD+IFR1+MS
5800.000	9.588	18.688	5738.808	22.292	0.000	21.355	0.000	7.674	0.000	0.000	22.347	21.142	133.207	MWD+IFR1+MS
5900.000	9.588	18.688	5837.411	22.660	0.000	21.725	0.000	7.823	0.000	0.000	22.711	21.512	133.277	MWD+IFR1+MS
6000.000	9.588	18.688	5936.014	23.028	0.000	22.095	0.000	7.973	0.000	0.000	23.075	21.882	133.342	MWD+IFR1+MS
6100.000	9.588	18.688	6034.617	23.397	0.000	22.464	0.000	8.125	0.000	0.000	23.439	22.253	133.403	MWD+IFR1+MS
6200.000	9.588	18.688	6133.220	23.766	0.000	22.834	0.000	8.280	0.000	0.000	23.803	22.623	133.459	MWD+IFR1+MS
6290.881	9.588	18.688	6222.832	24.100	0.000	23.169	0.000	8.422	0.000	0.000	24.133	22.959	133.469	MWD+IFR1+MS
6300.000	9.406	18.688	6231.826	24.136	0.000	23.202	0.000	8.436	0.000	0.000	24.165	22.992	133.452	MWD+IFR1+MS
6400.000	7.406	18.688	6330.747	24.539	0.000	23.564	0.000	8.595	0.000	0.000	24.548	23.359	132.981	MWD+IFR1+MS

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6500.000	5.406	18.688	6430.117	24.986	0.000	23.927	0.000	8.755	0.000	0.000	25.005	23.723	131.957	MWD+IFR1+MS
6600.000	3.406	18.688	6529.817	25.395	0.000	24.286	0.000	8.910	0.000	0.000	25.455	24.081	131.103	MWD+IFR1+MS
6700.000	1.406	18.688	6629.724	25.768	0.000	24.639	0.000	9.060	0.000	0.000	25.898	24.434	130.393	MWD+IFR1+MS
6770.284	0.000	0.000	6700.000	25.562	0.000	25.302	0.000	9.165	0.000	0.000	26.163	24.679	129.956	MWD+IFR1+MS
6800.000	0.000	0.000	6729.716	25.662	0.000	25.401	0.000	9.209	0.000	0.000	26.261	24.782	129.913	MWD+IFR1+MS
6900.000	0.000	0.000	6829.716	25.999	0.000	25.737	0.000	9.358	0.000	0.000	26.590	25.126	129.860	MWD+IFR1+MS
7000.000	0.000	0.000	6929.716	26.340	0.000	26.079	0.000	9.510	0.000	0.000	26.928	25.470	129.836	MWD+IFR1+MS
7100.000	0.000	0.000	7029.716	26.682	0.000	26.420	0.000	9.664	0.000	0.000	27.267	25.815	129.812	MWD+IFR1+MS
7200.000	0.000	0.000	7129.716	27.024	0.000	26.762	0.000	9.822	0.000	0.000	27.606	26.161	129.789	MWD+IFR1+MS
7300.000	0.000	0.000	7229.716	27.366	0.000	27.105	0.000	9.982	0.000	0.000	27.946	26.506	129.766	MWD+IFR1+MS
7400.000	0.000	0.000	7329.716	27.709	0.000	27.447	0.000	10.145	0.000	0.000	28.286	26.852	129.743	MWD+IFR1+MS
7500.000	0.000	0.000	7429.716	28.052	0.000	27.791	0.000	10.310	0.000	0.000	28.627	27.199	129.721	MWD+IFR1+MS
7600.000	0.000	0.000	7529.716	28.396	0.000	28.134	0.000	10.479	0.000	0.000	28.967	27.545	129.699	MWD+IFR1+MS
7700.000	0.000	0.000	7629.716	28.740	0.000	28.478	0.000	10.650	0.000	0.000	29.309	27.892	129.678	MWD+IFR1+MS
7800.000	0.000	0.000	7729.716	29.084	0.000	28.823	0.000	10.825	0.000	0.000	29.651	28.240	129.657	MWD+IFR1+MS
7900.000	0.000	0.000	7829.716	29.429	0.000	29.167	0.000	11.002	0.000	0.000	29.993	28.587	129.636	MWD+IFR1+MS
8000.000	0.000	0.000	7929.716	29.774	0.000	29.512	0.000	11.182	0.000	0.000	30.335	28.935	129.615	MWD+IFR1+MS
8100.000	0.000	0.000	8029.716	30.119	0.000	29.858	0.000	11.364	0.000	0.000	30.678	29.283	129.595	MWD+IFR1+MS
8200.000	0.000	0.000	8129.716	30.465	0.000	30.203	0.000	11.550	0.000	0.000	31.022	29.631	129.575	MWD+IFR1+MS
8300.000	0.000	0.000	8229.716	30.811	0.000	30.549	0.000	11.739	0.000	0.000	31.365	29.980	129.556	MWD+IFR1+MS
8400.000	0.000	0.000	8329.716	31.157	0.000	30.895	0.000	11.931	0.000	0.000	31.709	30.329	129.537	MWD+IFR1+MS
8500.000	0.000	0.000	8429.716	31.504	0.000	31.242	0.000	12.125	0.000	0.000	32.054	30.678	129.518	MWD+IFR1+MS
8600.000	0.000	0.000	8529.716	31.850	0.000	31.589	0.000	12.323	0.000	0.000	32.398	31.027	129.499	MWD+IFR1+MS
8700.000	0.000	0.000	8629.716	32.197	0.000	31.936	0.000	12.523	0.000	0.000	32.743	31.376	129.481	MWD+IFR1+MS
8800.000	0.000	0.000	8729.716	32.545	0.000	32.283	0.000	12.727	0.000	0.000	33.088	31.726	129.463	MWD+IFR1+MS
8900.000	0.000	0.000	8829.716	32.892	0.000	32.631	0.000	12.933	0.000	0.000	33.434	32.076	129.445	MWD+IFR1+MS
9000.000	0.000	0.000	8929.716	33.240	0.000	32.978	0.000	13.143	0.000	0.000	33.779	32.426	129.427	MWD+IFR1+MS
9100.000	0.000	0.000	9029.716	33.588	0.000	33.326	0.000	13.355	0.000	0.000	34.125	32.776	129.410	MWD+IFR1+MS
9200.000	0.000	0.000	9129.716	33.936	0.000	33.674	0.000	13.571	0.000	0.000	34.472	33.126	129.393	MWD+IFR1+MS
9300.000	0.000	0.000	9229.716	34.284	0.000	34.023	0.000	13.789	0.000	0.000	34.818	33.477	129.376	MWD+IFR1+MS
9400.000	0.000	0.000	9329.716	34.633	0.000	34.371	0.000	14.011	0.000	0.000	35.165	33.827	129.359	MWD+IFR1+MS
9500.000	0.000	0.000	9429.716	34.982	0.000	34.720	0.000	14.236	0.000	0.000	35.512	34.178	129.343	MWD+IFR1+MS
9600.000	0.000	0.000	9529.716	35.331	0.000	35.069	0.000	14.463	0.000	0.000	35.859	34.529	129.327	MWD+IFR1+MS
9700.000	0.000	0.000	9629.716	35.680	0.000	35.419	0.000	14.694	0.000	0.000	36.206	34.880	129.311	MWD+IFR1+MS

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9800.000	0.000	0.000	9729.716	36.029	0.000	35.768	0.000	14.928	0.000	0.000	36.554	35.232	129.296	MWD+IFR1+MS
9900.000	0.000	0.000	9829.716	36.379	0.000	36.117	0.000	15.165	0.000	0.000	36.902	35.583	129.280	MWD+IFR1+MS
10000.000	0.000	0.000	9929.716	36.729	0.000	36.467	0.000	15.405	0.000	0.000	37.250	35.935	129.265	MWD+IFR1+MS
10100.000	0.000	0.000	10029.716	37.079	0.000	36.817	0.000	15.648	0.000	0.000	37.598	36.286	129.250	MWD+IFR1+MS
10200.000	0.000	0.000	10129.716	37.429	0.000	37.167	0.000	15.894	0.000	0.000	37.946	36.638	129.235	MWD+IFR1+MS
10300.000	0.000	0.000	10229.716	37.779	0.000	37.517	0.000	16.143	0.000	0.000	38.295	36.990	129.221	MWD+IFR1+MS
10400.000	0.000	0.000	10329.716	38.129	0.000	37.868	0.000	16.396	0.000	0.000	38.644	37.342	129.206	MWD+IFR1+MS
10500.000	0.000	0.000	10429.716	38.480	0.000	38.218	0.000	16.651	0.000	0.000	38.993	37.695	129.192	MWD+IFR1+MS
10600.000	0.000	0.000	10529.716	38.830	0.000	38.569	0.000	16.909	0.000	0.000	39.342	38.047	129.178	MWD+IFR1+MS
10656.080	0.000	0.000	10585.800	39.025	0.000	38.764	0.000	17.056	0.000	0.000	39.534	38.245	129.155	MWD+IFR1+MS
10700.000	3.514	179.657	10629.692	38.946	0.000	38.915	-0.000	17.170	0.000	0.000	39.680	38.394	128.971	MWD+IFR1+MS
10800.000	11.514	179.657	10728.753	38.871	0.000	39.217	-0.000	17.454	0.000	0.000	40.373	38.842	119.104	MWD+IFR1+MS
10900.000	19.514	179.657	10825.032	38.736	0.000	39.501	-0.000	17.864	0.000	0.000	41.496	39.244	109.141	MWD+IFR1+MS
11000.000	27.514	179.657	10916.654	38.058	0.000	39.761	-0.000	18.457	0.000	0.000	42.535	39.548	104.874	MWD+IFR1+MS
11100.000	35.514	179.657	11001.836	36.919	0.000	39.994	-0.000	19.275	0.000	0.000	43.424	39.799	102.782	MWD+IFR1+MS
11200.000	43.514	179.657	11078.921	35.430	0.000	40.198	-0.000	20.329	0.000	0.000	44.140	40.009	101.702	MWD+IFR1+MS
11300.000	51.514	179.657	11146.408	33.739	0.000	40.373	-0.000	21.603	0.000	0.000	44.682	40.184	101.185	MWD+IFR1+MS
11400.000	59.514	179.657	11202.983	32.031	0.000	40.518	-0.000	23.061	0.000	0.000	45.060	40.324	101.020	MWD+IFR1+MS
11500.000	67.514	179.657	11247.545	30.528	0.000	40.632	-0.000	24.650	0.000	0.000	45.295	40.430	101.088	MWD+IFR1+MS
11600.000	75.514	179.657	11279.227	29.468	0.000	40.716	-0.000	26.315	0.000	0.000	45.416	40.505	101.299	MWD+IFR1+MS
11700.000	83.514	179.657	11297.413	29.071	0.000	40.770	-0.000	27.996	0.000	0.000	45.462	40.549	101.559	MWD+IFR1+MS
11781.080	90.000	179.657	11301.997	28.932	0.000	40.789	-0.000	28.932	0.000	0.000	45.471	40.562	101.722	MWD+IFR1+MS
11800.000	90.000	179.657	11301.997	28.970	0.000	40.790	-0.000	28.970	0.000	0.000	45.473	40.562	101.750	MWD+IFR1+MS
11900.000	90.000	179.657	11301.997	29.136	0.000	40.811	-0.000	29.136	0.000	0.000	45.481	40.576	101.933	MWD+IFR1+MS
12000.000	90.000	179.657	11301.997	29.326	0.000	40.848	-0.000	29.326	0.000	0.000	45.491	40.606	102.154	MWD+IFR1+MS
12080.730	90.000	179.657	11301.997	29.491	0.000	40.887	-0.000	29.491	0.000	0.000	45.500	40.639	102.353	MWD+IFR1+MS
12100.000	90.000	179.657	11301.997	29.532	0.000	40.897	-0.000	29.532	0.000	0.000	45.502	40.647	102.402	MWD+IFR1+MS
12200.000	90.000	179.657	11301.997	29.757	0.000	40.960	-0.000	29.757	0.000	0.000	45.514	40.701	102.688	MWD+IFR1+MS
12300.000	90.000	179.657	11301.997	30.004	0.000	41.040	-0.000	30.004	0.000	0.000	45.528	40.772	103.020	MWD+IFR1+MS
12400.000	90.000	179.657	11301.997	30.270	0.000	41.134	-0.000	30.270	0.000	0.000	45.544	40.856	103.397	MWD+IFR1+MS
12500.000	90.000	179.657	11301.997	30.554	0.000	41.243	-0.000	30.554	0.000	0.000	45.561	40.952	103.821	MWD+IFR1+MS
12600.000	90.000	179.657	11301.997	30.855	0.000	41.365	-0.000	30.855	0.000	0.000	45.581	41.061	104.299	MWD+IFR1+MS
12700.000	90.000	179.657	11301.997	31.173	0.000	41.501	-0.000	31.173	0.000	0.000	45.602	41.183	104.837	MWD+IFR1+MS
12800.000	90.000	179.657	11301.997	31.507	0.000	41.650	-0.000	31.507	0.000	0.000	45.625	41.316	105.442	MWD+IFR1+MS

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12900.000	90.000	179.657	11301.997	31.857	0.000	41.813	-0.000	31.857	0.000	0.000	45.651	41.461	106.124	MWD+IFR1+MS
13000.000	90.000	179.657	11301.997	32.222	0.000	41.990	-0.000	32.222	0.000	0.000	45.680	41.617	106.893	MWD+IFR1+MS
13100.000	90.000	179.657	11301.997	32.602	0.000	42.179	-0.000	32.602	0.000	0.000	45.712	41.784	107.763	MWD+IFR1+MS
13200.000	90.000	179.657	11301.997	32.997	0.000	42.382	-0.000	32.997	0.000	0.000	45.748	41.960	108.749	MWD+IFR1+MS
13300.000	90.000	179.657	11301.997	33.405	0.000	42.597	-0.000	33.405	0.000	0.000	45.788	42.146	109.869	MWD+IFR1+MS
13400.000	90.000	179.657	11301.997	33.826	0.000	42.825	-0.000	33.826	0.000	0.000	45.833	42.340	111.144	MWD+IFR1+MS
13500.000	90.000	179.657	11301.997	34.261	0.000	43.065	-0.000	34.261	0.000	0.000	45.884	42.540	112.599	MWD+IFR1+MS
13600.000	90.000	179.657	11301.997	34.707	0.000	43.318	-0.000	34.707	0.000	0.000	45.943	42.747	114.262	MWD+IFR1+MS
13700.000	90.000	179.657	11301.997	35.166	0.000	43.582	-0.000	35.166	0.000	0.000	46.010	42.957	116.163	MWD+IFR1+MS
13800.000	90.000	179.657	11301.997	35.636	0.000	43.859	-0.000	35.636	0.000	0.000	46.087	43.170	118.331	MWD+IFR1+MS
13900.000	90.000	179.657	11301.997	36.116	0.000	44.146	-0.000	36.116	0.000	0.000	46.176	43.382	120.792	MWD+IFR1+MS
14000.000	90.000	179.657	11301.997	36.608	0.000	44.446	-0.000	36.608	0.000	0.000	46.281	43.591	123.561	MWD+IFR1+MS
14100.000	90.000	179.657	11301.997	37.109	0.000	44.756	-0.000	37.109	0.000	0.000	46.403	43.794	126.634	MWD+IFR1+MS
14200.000	90.000	179.657	11301.997	37.620	0.000	45.077	-0.000	37.620	0.000	0.000	46.546	43.989	129.976	MWD+IFR1+MS
14300.000	90.000	179.657	11301.997	38.140	0.000	45.409	-0.000	38.140	0.000	0.000	46.712	44.171	133.520	MWD+IFR1+MS
14400.000	90.000	179.657	11301.997	38.670	0.000	45.751	-0.000	38.670	0.000	0.000	46.903	44.339	42.835	MWD+IFR1+MS
14500.000	90.000	179.657	11301.997	39.208	0.000	46.103	-0.000	39.208	0.000	0.000	47.121	44.491	39.208	MWD+IFR1+MS
14600.000	90.000	179.657	11301.997	39.754	0.000	46.466	-0.000	39.754	0.000	0.000	47.365	44.628	35.713	MWD+IFR1+MS
14700.000	90.000	179.657	11301.997	40.308	0.000	46.838	-0.000	40.308	0.000	0.000	47.634	44.749	32.442	MWD+IFR1+MS
14800.000	90.000	179.657	11301.997	40.869	0.000	47.219	-0.000	40.869	0.000	0.000	47.928	44.856	29.452	MWD+IFR1+MS
14900.000	90.000	179.657	11301.997	41.438	0.000	47.610	-0.000	41.438	0.000	0.000	48.244	44.951	26.767	MWD+IFR1+MS
15000.000	90.000	179.657	11301.997	42.014	0.000	48.010	-0.000	42.014	0.000	0.000	48.580	45.036	24.385	MWD+IFR1+MS
15100.000	90.000	179.657	11301.997	42.596	0.000	48.418	-0.000	42.596	0.000	0.000	48.934	45.111	22.285	MWD+IFR1+MS
15200.000	90.000	179.657	11301.997	43.185	0.000	48.835	-0.000	43.185	0.000	0.000	49.304	45.180	20.441	MWD+IFR1+MS
15300.000	90.000	179.657	11301.997	43.780	0.000	49.261	-0.000	43.780	0.000	0.000	49.689	45.242	18.821	MWD+IFR1+MS
15400.000	90.000	179.657	11301.997	44.381	0.000	49.695	-0.000	44.381	0.000	0.000	50.088	45.300	17.398	MWD+IFR1+MS
15500.000	90.000	179.657	11301.997	44.987	0.000	50.136	-0.000	44.987	0.000	0.000	50.499	45.354	16.143	MWD+IFR1+MS
15600.000	90.000	179.657	11301.997	45.599	0.000	50.585	-0.000	45.599	0.000	0.000	50.922	45.405	15.033	MWD+IFR1+MS
15700.000	90.000	179.657	11301.997	46.216	0.000	51.042	-0.000	46.216	0.000	0.000	51.356	45.453	14.047	MWD+IFR1+MS
15800.000	90.000	179.657	11301.997	46.839	0.000	51.507	-0.000	46.839	0.000	0.000	51.799	45.499	13.169	MWD+IFR1+MS
15900.000	90.000	179.657	11301.997	47.466	0.000	51.978	-0.000	47.466	0.000	0.000	52.252	45.544	12.382	MWD+IFR1+MS
16000.000	90.000	179.657	11301.997	48.097	0.000	52.456	-0.000	48.097	0.000	0.000	52.713	45.587	11.676	MWD+IFR1+MS
16100.000	90.000	179.657	11301.997	48.733	0.000	52.941	-0.000	48.733	0.000	0.000	53.183	45.629	11.038	MWD+IFR1+MS
16200.000	90.000	179.657	11301.997	49.374	0.000	53.433	-0.000	49.374	0.000	0.000	53.662	45.670	10.461	MWD+IFR1+MS

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16300.000	90.000	179.657	11301.997	50.018	0.000	53.931	-0.000	50.018	0.000	0.000	54.147	45.710	-9.936	MWD+IFR1+MS
16400.000	90.000	179.657	11301.997	50.667	0.000	54.435	-0.000	50.667	0.000	0.000	54.640	45.750	-9.458	MWD+IFR1+MS
16500.000	90.000	179.657	11301.997	51.319	0.000	54.945	-0.000	51.319	0.000	0.000	55.140	45.790	-9.020	MWD+IFR1+MS
16600.000	90.000	179.657	11301.997	51.975	0.000	55.461	-0.000	51.975	0.000	0.000	55.647	45.829	-8.618	MWD+IFR1+MS
16700.000	90.000	179.657	11301.997	52.634	0.000	55.983	-0.000	52.634	0.000	0.000	56.160	45.868	-8.248	MWD+IFR1+MS
16800.000	90.000	179.657	11301.997	53.297	0.000	56.511	-0.000	53.297	0.000	0.000	56.680	45.907	-7.907	MWD+IFR1+MS
16900.000	90.000	179.657	11301.997	53.963	0.000	57.043	-0.000	53.963	0.000	0.000	57.205	45.946	-7.591	MWD+IFR1+MS
17000.000	90.000	179.657	11301.997	54.633	0.000	57.581	-0.000	54.633	0.000	0.000	57.736	45.985	-7.298	MWD+IFR1+MS
17100.000	90.000	179.657	11301.997	55.305	0.000	58.125	-0.000	55.305	0.000	0.000	58.273	46.025	-7.026	MWD+IFR1+MS
17200.000	90.000	179.657	11301.997	55.980	0.000	58.673	-0.000	55.980	0.000	0.000	58.815	46.064	-6.772	MWD+IFR1+MS
17300.000	90.000	179.657	11301.997	56.658	0.000	59.226	-0.000	56.658	0.000	0.000	59.363	46.103	-6.536	MWD+IFR1+MS
17400.000	90.000	179.657	11301.997	57.339	0.000	59.783	-0.000	57.339	0.000	0.000	59.915	46.143	-6.314	MWD+IFR1+MS
17500.000	90.000	179.657	11301.997	58.023	0.000	60.345	-0.000	58.023	0.000	0.000	60.473	46.183	-6.106	MWD+IFR1+MS
17600.000	90.000	179.657	11301.997	58.709	0.000	60.912	-0.000	58.709	0.000	0.000	61.035	46.223	-5.911	MWD+IFR1+MS
17700.000	90.000	179.657	11301.997	59.397	0.000	61.483	-0.000	59.397	0.000	0.000	61.601	46.263	-5.728	MWD+IFR1+MS
17800.000	90.000	179.657	11301.997	60.088	0.000	62.058	-0.000	60.088	0.000	0.000	62.172	46.304	-5.555	MWD+IFR1+MS
17900.000	90.000	179.657	11301.997	60.781	0.000	62.637	-0.000	60.781	0.000	0.000	62.748	46.345	-5.393	MWD+IFR1+MS
18000.000	90.000	179.657	11301.997	61.476	0.000	63.220	-0.000	61.476	0.000	0.000	63.327	46.386	-5.239	MWD+IFR1+MS
18100.000	90.000	179.657	11301.997	62.173	0.000	63.807	-0.000	62.173	0.000	0.000	63.911	46.428	-5.093	MWD+IFR1+MS
18200.000	90.000	179.657	11301.997	62.873	0.000	64.398	-0.000	62.873	0.000	0.000	64.498	46.470	-4.955	MWD+IFR1+MS
18300.000	90.000	179.657	11301.997	63.574	0.000	64.992	-0.000	63.574	0.000	0.000	65.090	46.513	-4.824	MWD+IFR1+MS
18400.000	90.000	179.657	11301.997	64.278	0.000	65.590	-0.000	64.278	0.000	0.000	65.685	46.556	-4.700	MWD+IFR1+MS
18500.000	90.000	179.657	11301.997	64.983	0.000	66.192	-0.000	64.983	0.000	0.000	66.283	46.599	-4.582	MWD+IFR1+MS
18600.000	90.000	179.657	11301.997	65.690	0.000	66.797	-0.000	65.690	0.000	0.000	66.886	46.643	-4.470	MWD+IFR1+MS
18700.000	90.000	179.657	11301.997	66.399	0.000	67.405	-0.000	66.399	0.000	0.000	67.491	46.687	-4.363	MWD+IFR1+MS
18800.000	90.000	179.657	11301.997	67.109	0.000	68.016	-0.000	67.109	0.000	0.000	68.100	46.731	-4.261	MWD+IFR1+MS
18900.000	90.000	179.657	11301.997	67.821	0.000	68.630	-0.000	67.821	0.000	0.000	68.712	46.776	-4.163	MWD+IFR1+MS
19000.000	90.000	179.657	11301.997	68.535	0.000	69.248	-0.000	68.535	0.000	0.000	69.327	46.822	-4.070	MWD+IFR1+MS
19100.000	90.000	179.657	11301.997	69.250	0.000	69.868	-0.000	69.250	0.000	0.000	69.945	46.868	-3.981	MWD+IFR1+MS
19200.000	90.000	179.657	11301.997	69.967	0.000	70.491	-0.000	69.967	0.000	0.000	70.567	46.914	-3.896	MWD+IFR1+MS
19300.000	90.000	179.657	11301.997	70.685	0.000	71.117	-0.000	70.685	0.000	0.000	71.191	46.961	-3.815	MWD+IFR1+MS
19400.000	90.000	179.657	11301.997	71.405	0.000	71.745	-0.000	71.405	0.000	0.000	71.817	47.008	-3.736	MWD+IFR1+MS
19500.000	90.000	179.657	11301.997	72.126	0.000	72.377	-0.000	72.126	0.000	0.000	72.447	47.055	-3.661	MWD+IFR1+MS
19600.000	90.000	179.657	11301.997	72.848	0.000	73.011	-0.000	72.848	0.000	0.000	73.079	47.104	-3.589	MWD+IFR1+MS

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Well Plan Report														
19700.000	90.000	179.657	11301.997	73.571	0.000	73.647	-0.000	73.571	0.000	0.000	73.714	47.152	-3.520	MWD+IFR1+MS
19800.000	90.000	179.657	11301.997	74.296	0.000	74.286	-0.000	74.296	0.000	0.000	74.351	47.201	-3.453	MWD+IFR1+MS
19900.000	90.000	179.657	11301.997	75.022	0.000	74.927	-0.000	75.022	0.000	0.000	74.991	47.251	-3.389	MWD+IFR1+MS
20000.000	90.000	179.657	11301.997	75.749	0.000	75.570	-0.000	75.749	0.000	0.000	75.633	47.301	-3.328	MWD+IFR1+MS
20100.000	90.000	179.657	11301.997	76.478	0.000	76.216	-0.000	76.478	0.000	0.000	76.277	47.351	-3.268	MWD+IFR1+MS
20200.000	90.000	179.657	11301.997	77.207	0.000	76.864	-0.000	77.207	0.000	0.000	76.924	47.402	-3.211	MWD+IFR1+MS
20300.000	90.000	179.657	11301.997	77.938	0.000	77.514	-0.000	77.938	0.000	0.000	77.572	47.453	-3.156	MWD+IFR1+MS
20400.000	90.000	179.657	11301.997	78.669	0.000	78.166	-0.000	78.669	0.000	0.000	78.223	47.505	-3.102	MWD+IFR1+MS
20500.000	90.000	179.657	11301.997	79.402	0.000	78.820	-0.000	79.402	0.000	0.000	78.876	47.557	-3.051	MWD+IFR1+MS
20600.000	90.000	179.657	11301.997	80.135	0.000	79.477	-0.000	80.135	0.000	0.000	79.531	47.610	-3.001	MWD+IFR1+MS
20700.000	90.000	179.657	11301.997	80.870	0.000	80.135	-0.000	80.870	0.000	0.000	80.188	47.663	-2.953	MWD+IFR1+MS
20800.000	90.000	179.657	11301.997	81.605	0.000	80.795	-0.000	81.605	0.000	0.000	80.847	47.717	-2.907	MWD+IFR1+MS
20900.000	90.000	179.657	11301.997	82.341	0.000	81.457	-0.000	82.341	0.000	0.000	81.508	47.771	-2.862	MWD+IFR1+MS
21000.000	90.000	179.657	11301.997	83.079	0.000	82.120	-0.000	83.079	0.000	0.000	82.171	47.826	-2.818	MWD+IFR1+MS
21100.000	90.000	179.657	11301.997	83.817	0.000	82.786	-0.000	83.817	0.000	0.000	82.835	47.881	-2.776	MWD+IFR1+MS
21200.000	90.000	179.657	11301.997	84.556	0.000	83.453	-0.000	84.556	0.000	0.000	83.502	47.936	-2.735	MWD+IFR1+MS
21300.000	90.000	179.657	11301.997	85.295	0.000	84.122	-0.000	85.295	0.000	0.000	84.170	47.992	-2.696	MWD+IFR1+MS
21400.000	90.000	179.657	11301.997	86.036	0.000	84.792	-0.000	86.036	0.000	0.000	84.839	48.049	-2.657	MWD+IFR1+MS
21500.000	90.000	179.657	11301.997	86.777	0.000	85.464	-0.000	86.777	0.000	0.000	85.510	48.106	-2.620	MWD+IFR1+MS
21600.000	90.000	179.657	11301.997	87.519	0.000	86.138	-0.000	87.519	0.000	0.000	86.183	48.163	-2.584	MWD+IFR1+MS
21700.000	90.000	179.657	11301.997	88.262	0.000	86.813	-0.000	88.262	0.000	0.000	86.857	48.221	-2.549	MWD+IFR1+MS
21800.000	90.000	179.657	11301.997	89.006	0.000	87.490	-0.000	89.006	0.000	0.000	87.533	48.280	-2.515	MWD+IFR1+MS
21900.000	90.000	179.657	11301.997	89.750	0.000	88.168	-0.000	89.750	0.000	0.000	88.211	48.339	-2.481	MWD+IFR1+MS
22000.000	90.000	179.657	11301.997	90.495	0.000	88.847	-0.000	90.495	0.000	0.000	88.889	48.398	-2.449	MWD+IFR1+MS
22100.000	90.000	179.657	11301.997	91.241	0.000	89.528	-0.000	91.241	0.000	0.000	89.570	48.458	-2.418	MWD+IFR1+MS
22200.000	90.000	179.657	11301.997	91.987	0.000	90.210	-0.000	91.987	0.000	0.000	90.251	48.518	-2.387	MWD+IFR1+MS
22300.000	90.000	179.657	11301.997	92.734	0.000	90.894	-0.000	92.734	0.000	0.000	90.934	48.579	-2.358	MWD+IFR1+MS
22400.000	90.000	179.657	11301.997	93.481	0.000	91.579	-0.000	93.481	0.000	0.000	91.618	48.640	-2.329	MWD+IFR1+MS
22500.000	90.000	179.657	11301.997	94.229	0.000	92.265	-0.000	94.229	0.000	0.000	92.304	48.701	-2.301	MWD+IFR1+MS
22600.000	90.000	179.657	11301.997	94.978	0.000	92.952	-0.000	94.978	0.000	0.000	92.991	48.763	-2.274	MWD+IFR1+MS
22700.000	90.000	179.657	11301.997	95.727	0.000	93.641	-0.000	95.727	0.000	0.000	93.679	48.826	-2.247	MWD+IFR1+MS
22800.000	90.000	179.657	11301.997	96.477	0.000	94.331	-0.000	96.477	0.000	0.000	94.368	48.889	-2.221	MWD+IFR1+MS
22900.000	90.000	179.657	11301.997	97.228	0.000	95.022	-0.000	97.228	0.000	0.000	95.058	48.952	-2.196	MWD+IFR1+MS
23000.000	90.000	179.657	11301.997	97.978	0.000	95.714	-0.000	97.978	0.000	0.000	95.750	49.016	-2.171	MWD+IFR1+MS

23100.000	90.000	179.657	11301.997	98.354	0.000	96.144	-0.000	98.354	0.000	0.000	96.187	55.644	-2.436	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
23200.000	90.000	179.657	11301.997	98.356	0.000	96.315	-0.000	98.356	0.000	0.000	96.357	55.727	-2.431	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
23300.000	90.000	179.657	11301.997	98.360	0.000	96.488	-0.000	98.360	0.000	0.000	96.531	55.811	-2.427	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
23400.000	90.000	179.657	11301.997	98.367	0.000	96.665	-0.000	98.367	0.000	0.000	96.708	55.895	-2.422	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
23500.000	90.000	179.657	11301.997	98.375	0.000	96.845	-0.000	98.375	0.000	0.000	96.888	55.980	-2.417	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
23600.000	90.000	179.657	11301.997	98.385	0.000	97.029	-0.000	98.385	0.000	0.000	97.071	56.065	-2.412	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
23700.000	90.000	179.657	11301.997	98.398	0.000	97.215	-0.000	98.398	0.000	0.000	97.257	56.150	-2.406	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
23800.000	90.000	179.657	11301.997	98.413	0.000	97.405	-0.000	98.413	0.000	0.000	97.446	56.235	-2.401	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
23900.000	90.000	179.657	11301.997	98.430	0.000	97.597	-0.000	98.430	0.000	0.000	97.639	56.321	-2.395	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
24000.000	90.000	179.657	11301.997	98.448	0.000	97.793	-0.000	98.448	0.000	0.000	97.834	56.408	-2.390	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
24100.000	90.000	179.657	11301.997	98.469	0.000	97.992	-0.000	98.469	0.000	0.000	98.033	56.494	-2.384	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
24139.000	90.000	179.657	11301.997	98.478	0.000	98.069	-0.000	98.478	0.000	0.000	98.111	56.528	-2.381	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22

Plan Targets

Poker Lake Unit 22 DTD South 103H

Target Name	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape
FTP 2	11497.48	440457.00	641500.20	7864.00	RECTANGLE
SHL 1	12657.65	439637.40	641207.07	8560.35	RECTANGLE
LTP 2	24048.51	427473.60	641578.00	7864.00	RECTANGLE
BHL 2	24138.52	427383.60	641578.80	7864.00	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 103H
SURFACE HOLE FOOTAGE:	916'/N & 113'/W
BOTTOM HOLE FOOTAGE:	2627'/N & 393'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

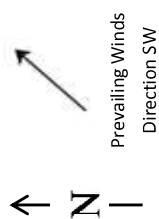
AGENT NOTIFICATIONS:**For Lea County:**

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

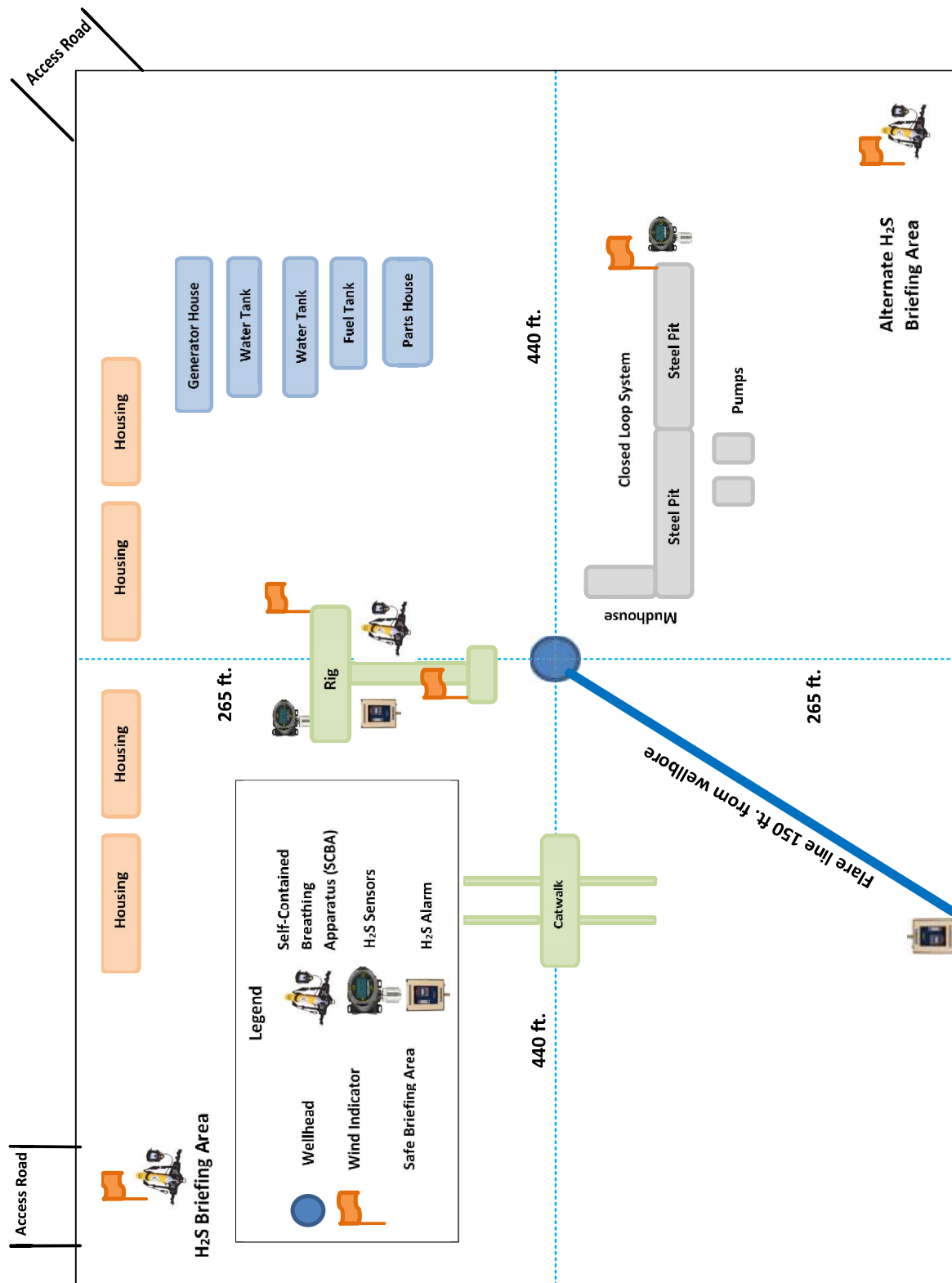
For Eddy County:

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

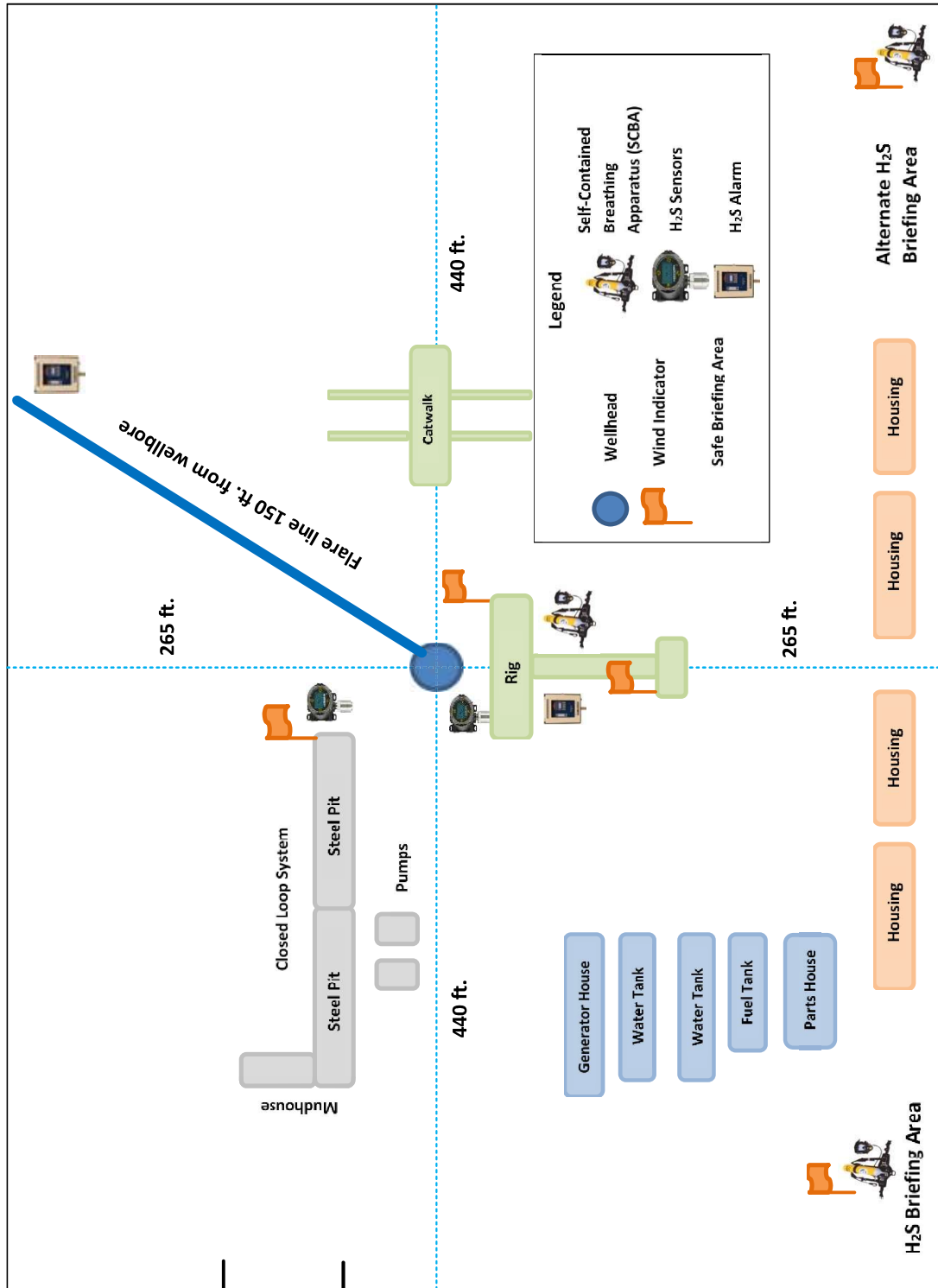
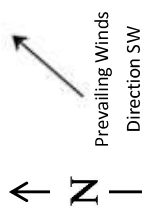
H2S Briefing Areas and Alarm Locations



Prevailing Winds
Direction SW



H2S Briefing Areas and Alarm Locations



Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 22 DTD

Well Number: 103H

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit? NO

Reserve pit length (ft.)

Reserve pit width (ft.)

Reserve pit depth (ft.)

Reserve pit volume (cu. yd.)

Is at least 50% of the reserve pit in cut?

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? Y

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

Cuttings area length (ft.)

Cuttings area width (ft.)

Cuttings area depth (ft.)

Cuttings area volume (cu. yd.)

Is at least 50% of the cuttings area in cut?

WCuttings area liner

Cuttings area liner specifications and installation description

Section 8 - Ancillary

Are you requesting any Ancillary Facilities?: N

Ancillary Facilities

Comments:

Section 9 - Well Site

Well Site Layout Diagram:

PLU_22_DTD_103H_Well_20240416163929.pdf

Comments: Multi-well pad.

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 22 DTD

Well Number: 103H

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_20240330135315.pdf

PLU_22_DTD_IR2_20240330135315.pdf

PLU_22_DTD_IR3_20240330135315.pdf

PLU_22_DTD_IR4_20240330135315.pdf

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

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

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

Disturbance Comments:

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

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

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

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

Existing Vegetation at the well pad

Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** POKER LAKE UNIT 22 DTD**Well Number:** 103H

Existing Vegetation Community at the road: 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

Existing Vegetation Community at the pipeline: 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

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

Existing Vegetation Community at other disturbances**Non native seed used?** N**Non native seed description:****Seedling transplant description:****Will seedlings be transplanted for this project?** N**Seedling transplant description****Will seed be harvested for use in site reclamation?** N**Seed harvest description:****Seed harvest description attachment:****Seed****Seed Table****Seed Summary****Total pounds/Acre:****Seed Type****Pounds/Acre****Seed reclamation****Operator Contact/Responsible Official**

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico

Energy, Minerals and Natural Resources

Oil Conservation Division

1220 S. St Francis Dr.

Santa Fe, NM 87505

CONDITIONS

Action 395243

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID:
	373075
	Action Number:
	395243
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