



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

## Application for Permit to Drill

### APD Package Report

Date Printed: 10/18/2024 03:30 PM

APD ID: 10400097905

Well Status: AAPD

APD Received Date: 04/11/2024 11:56 AM

Well Name: POKER LAKE UNIT 22 DTD

Operator: XTO PERMIAN OPERATING LLC

Well Number: 403H

#### 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)

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

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
**APPLICATION FOR PERMIT TO DRILL OR REENTER**

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER 1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other 1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		5. Lease Serial No. NMNM02862 6. If Indian, Allottee or Tribe Name  7. If Unit or CA Agreement, Name and No. NMNM071016X/POKER LAKE UNIT 8. Lease Name and Well No. POKER LAKE UNIT 22 DTD 403H 9. API Well No. <b>30-015-55585</b>
2. Name of Operator XTO PERMIAN OPERATING LLC		10. Field and Pool, or Exploratory PURPLE SAGE/WOLFCAMP (GAS) 11. Sec., T. R. M. or Blk. and Survey or Area SEC 22/T24S/R30E/NMP
3a. Address 6401 HOLIDAY HILL ROAD BLDG 5, MIDLAND, TX 7970	3b. Phone No. (include area code) (432) 683-2277	
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NWNE / 233 FNL / 1327 FEL / LAT 32.209941 / LONG -103.864569 At proposed prod. zone SENE / 2627 FNL / 495 FEL / LAT 32.174406 / LONG -103.861813		12. County or Parish EDDY 13. State NM
14. Distance in miles and direction from nearest town or post office* 15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) <b>233 feet</b>	16. No of acres in lease 17. Spacing Unit dedicated to this well 1600.0	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. <b>30 feet</b>	19. Proposed Depth 11396 feet / 24221 feet	20. BLM/BIA Bond No. in file FED: COB000050
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3430 feet	22. Approximate date work will start* 02/26/2025	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.<br>2. A Drilling Plan.<br>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). | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).<br>5. Operator certification.<br>6. Such other site specific information and/or plans as may be requested by the BLM. |
|---|---|

25. Signature (Electronic Submission)	Name (Printed/Typed) TAMI COPELAND / Ph: (432) 682-8873	Date 04/11/2024
Title REG TECH II		
Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) CODY LAYTON / Ph: (575) 234-5959	Date 10/18/2024
Title Assistant Field Manager Lands & Minerals 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 a new 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: NWNE / 233 FNL / 1327 FEL / TWSP: 24S / RANGE: 30E / SECTION: 22 / LAT: 32.209941 / LONG: -103.864569 ( TVD: 0 feet, MD: 0 feet )

PPP: NENE / 100 FNL / 496 FEL / TWSP: 24S / RANGE: 30E / SECTION: 22 / LAT: 32.210323 / LONG: -103.861882 ( TVD: 11396 feet, MD: 11900 feet )

PPP: NESE / 2632 FSL / 489 FEL / TWSP: 24S / RANGE: 30E / SECTION: 22 / LAT: 32.203355 / LONG: -103.861869 ( TVD: 11396 feet, MD: 14500 feet )

BHL: SENE / 2627 FNL / 495 FEL / TWSP: 24S / RANGE: 30E / SECTION: 34 / LAT: 32.174406 / LONG: -103.861813 ( TVD: 11396 feet, MD: 24221 feet )

### BLM Point of Contact

Name: MARIAH HUGHES

Title: Land Law Examiner

Phone: (575) 234-5972

Email: mhughes@blm.gov

CONFIDENTIAL

**Review and Appeal Rights**

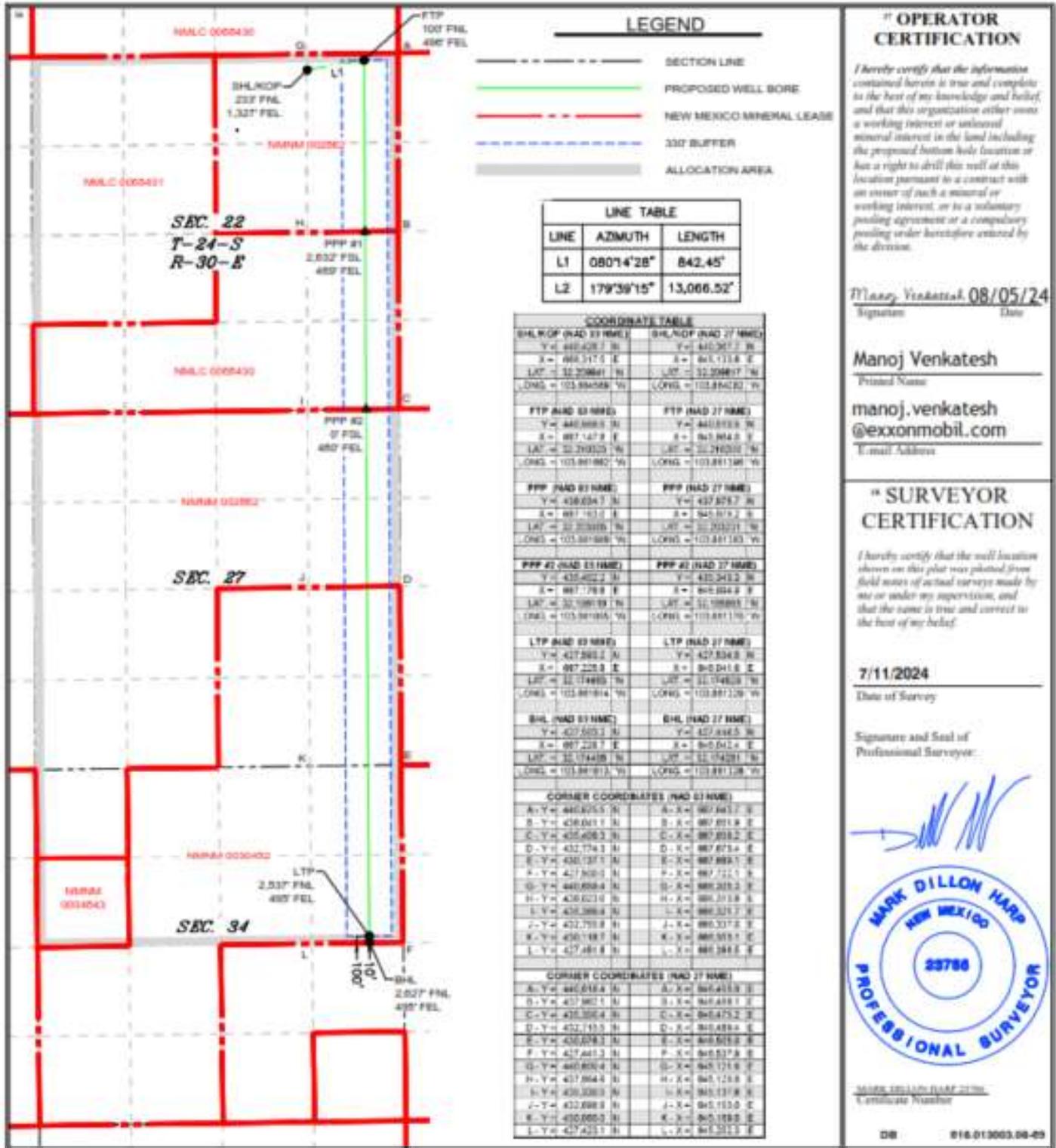
A person contesting a decision shall request a State Director review. This request must be filed within 20 working days of receipt of the Notice with the appropriate State Director (see 43 CFR 3165.3). The State Director review decision may be appealed to the Interior Board of Land Appeals, 801 North 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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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

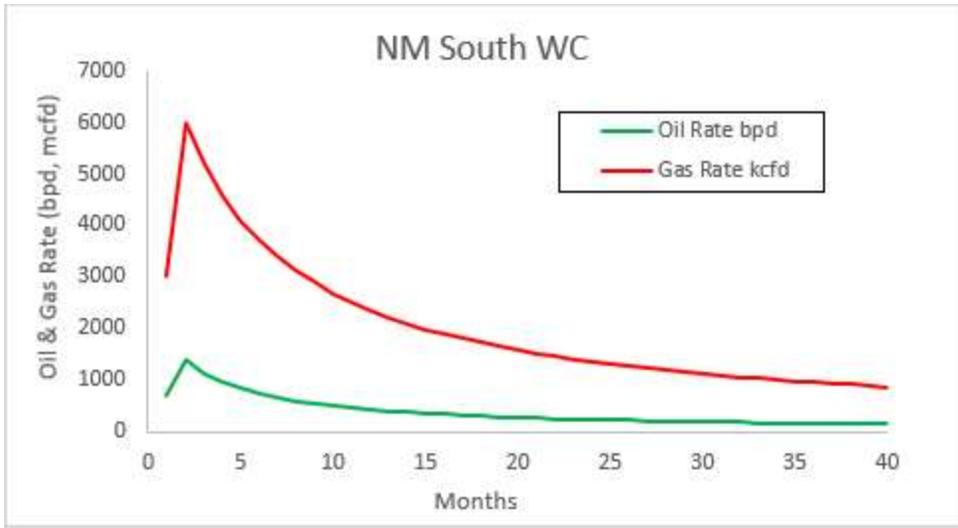
- Conduct and document AVO inspections on the frequency set forth in Part 27 to detect and repair any onsite leaks as quickly and efficiently as is feasible.

#### 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
<b>OIL CONSERVATION DIVISION</b> <b>(Only applicable when submitted as a standalone form)</b>
Approved By:
Title:
Approval Date:
Conditions of Approval:





# Drilling Plan Data Report

10/18/2024

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

APD ID: 10400097905

Submission Date: 04/11/2024

Highlighted data reflects the most recent changes

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 22 DTD

Well Number: 403H

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
14339058	QUATERNARY	3430	0	0	ALLUVIUM	USEABLE WATER	N
14339059	RUSTLER	2268	1162	1162	ANHYDRITE, SANDSTONE	USEABLE WATER	N
14339060	SALADO	1865	1565	1565	SALT	NONE	N
14339061	BASE OF SALT	-328	3758	3758	SALT	NONE	N
14339054	DELAWARE	-522	3952	3952	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	N
14339052	BRUSHY CANYON	-3068	6498	6498	SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	N
14339062	BONE SPRING	-4392	7822	7822	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	N
14339056	BONE SPRING 1ST	-5101	8531	8531	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	N
14339057	BONE SPRING 2ND	-5686	9116	9116	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	N
14339053	BONE SPRING 3RD	-6512	9942	9942	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	N
14339055	WOLFCAMP	-7697	11127	11127	SANDSTONE, SHALE	NATURAL GAS, OIL, OTHER : Produced Water	Y
14339065	WOLFCAMP	-7846	11276	11276	SANDSTONE, SHALE	NATURAL GAS, OIL, OTHER : Produced Water	Y

## Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M

Rating Depth: 11396

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

**Requesting Variance?** YES

**Variance request:** A variance is requested to allow use of a flex hose as the choke line from the BOP to the Choke Manifold. If this hose is used, a copy of the manufacturer's certification and pressure test chart will be kept on the rig. Attached is an example of a certification and pressure test chart. The manufacturer does not

**Operator Name:** XTO PERMIAN OPERATING LLC

**Well Name:** POKER LAKE UNIT 22 DTD

**Well Number:** 403H

require anchors. XTO requests a variance to be able to batch drill this well if necessary. In doing so, XTO will set casing and ensure that the well is cemented properly (unless approval is given for offline cementing) and the well is static. With floats holding, no pressure on the csg annulus, and the installation of a 10K TA cap as per Cactus recommendations, XTO will contact the BLM to skid the rig to drill the remaining wells on the pad. Once surface and both intermediate strings are all completed, XTO will begin drilling the production hole on each of the wells. A variance is requested to ONLY test broken pressure seals on the BOP equipment when moving from wellhead to wellhead which is in compliance with API Standard 53. API standard 53 states, that for pad drilling operation, moving from one wellhead to another within 21 days, pressure testing is required for pressure-containing and pressure-controlling connections when the integrity of a pressure seal is broken. We will request permission to ONLY retest broken pressure seals if the following conditions are met: 1. After a full BOP test is conducted on the first well on the pad 2. When skidding to drill an intermediate section that does not penetrate into the Wolfcamp.

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

**Choke Diagram Attachment:**

5MCM\_20240806105655.pdf

**BOP Diagram Attachment:**

5M10M\_BOP\_20240917131258.pdf

**Section 3 - Casing**

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	12.25	9.625	NEW	API	N	0	1262	0	1262	3430	2168	1262	J-55	40	BUTT	4.99	1.58	DRY	12.48	DRY	12.48
2	INTERMEDIATE	8.75	7.625	NEW	API	Y	0	10546	0	10479	3411	-7049	10546	L-80	29.7	FJ	2.27	1.6	DRY	2.09	DRY	2.09
3	PRODUCTION	6.75	5.5	NEW	NON API	Y	0	24221	0	11396	3411	-7966	24221	P-110	20	OTHER - Freedom HTQ/Talon HTQ	1.63	1.05	DRY	1.98	DRY	1.98

**Casing Attachments**

**Operator Name:** XTO PERMIAN OPERATING LLC

**Well Name:** POKER LAKE UNIT 22 DTD

**Well Number:** 403H

**Casing Attachments**

---

**Casing ID:** 1            **String**      SURFACE

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

**Casing Design Assumptions and Worksheet(s):**

POKER\_LAKE\_UNIT\_22\_DTD\_403H\_Csg\_20240406184734.pdf

---

**Casing ID:** 2            **String**      INTERMEDIATE

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

POKER\_LAKE\_UNIT\_22\_DTD\_403H\_Csg\_20240406185313.pdf

**Casing Design Assumptions and Worksheet(s):**

POKER\_LAKE\_UNIT\_22\_DTD\_403H\_Csg\_20240406185412.pdf

---

**Casing ID:** 3            **String**      PRODUCTION

**Inspection Document:**

**Spec Document:**

Freedom\_5.5000\_20.0000\_0.3610\_\_P110\_RY\_20240709104325.pdf

Talon\_HTQ\_RD\_5.5000\_20.0000\_0.3610\_\_P110\_RY\_20240709104315.pdf

**Tapered String Spec:**

POKER\_LAKE\_UNIT\_22\_DTD\_403H\_Csg\_20240406184933.pdf

**Casing Design Assumptions and Worksheet(s):**

POKER\_LAKE\_UNIT\_22\_DTD\_403H\_Csg\_20240406185016.pdf

---

**Section 4 - Cement**

**Operator Name:** XTO PERMIAN OPERATING LLC

**Well Name:** POKER LAKE UNIT 22 DTD

**Well Number:** 403H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	1262	320	1.87	10.5	598.4	100	EconoCem-HLTRRC	NA
SURFACE	Tail		0	1262	130	1.35	14.8	175.5	100	Class C	2% CaCl
INTERMEDIATE	Lead		0	6498	370	1.35	14.8	499.5	100	Class C	NA
INTERMEDIATE	Tail		6498	10546	730	1.33	14.8	970.9	100	Class C	NA
PRODUCTION	Lead		10246	10746	20	2.69	11.5	53.8	30	NeoCem	NA
PRODUCTION	Tail		10746	24221	960	1.51	13.2	1449.6	30	VersaCem	NA

### Section 5 - Circulating Medium

**Mud System Type:** Closed

**Will an air or gas system be Used?** NO

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

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

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

**Describe the mud monitoring system utilized:** Spud with fresh water/native mud. Drill out from under surface casing with Saturated Salt solution. Saturated Salt mud will be used while drilling through the salt formation. Use fibrous materials as needed to control seepage and lost circulation. Pump viscous sweeps as needed for hole cleaning. Pump speed will be recorded on a daily drilling report after mudding up. A Pason or Totco will be used to detect changes in loss or gain of mud volume. A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system.

### Circulating Medium Table

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

**Operator Name:** XTO PERMIAN OPERATING LLC

**Well Name:** POKER LAKE UNIT 22 DTD

**Well Number:** 403H

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
1054 6	2422 1	OIL-BASED MUD	11.5	12							
0	1262	WATER-BASED MUD	8.4	8.9							
3952	1054 6	OTHER : BDE/OBM	9	9.5							

### Section 6 - Test, Logging, Coring

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

Open hole logging will not be done on this well.

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

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

**Coring operation description for the well:**

No coring is planned for the well.

### Section 7 - Pressure

**Anticipated Bottom Hole Pressure:** 7111

**Anticipated Surface Pressure:** 4603

**Anticipated Bottom Hole Temperature(F):** 200

**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\_20240806105441.pdf

**Operator Name:** XTO PERMIAN OPERATING LLC

**Well Name:** POKER LAKE UNIT 22 DTD

**Well Number:** 403H

### Section 8 - Other Information

**Proposed horizontal/directional/multi-lateral plan submission:**

POKER\_LAKE\_UNIT\_22\_DTD\_403H\_DD\_20240406190008.pdf

**Other proposed operations facets description:**

**Other proposed operations facets attachment:**

POKER\_LAKE\_UNIT\_22\_DTD\_403H\_Cmt\_20240406190125.pdf

PLU\_22\_DTD\_MBS\_20240610083723.pdf

POKER\_LAKE\_UNIT\_22\_DTD\_403H\_RL\_20240709101250.pdf

PLU\_22\_DTD\_H2S\_DiaA\_20240709101317.pdf

PLU\_22\_DTD\_H2S\_DiaB\_20240709101317.pdf

PLU\_22\_DTD\_H2S\_DiaC\_20240709101317.pdf

PLU\_22\_DTD\_H2S\_DiaD\_20240709101404.pdf

**Other Variance attachment:**

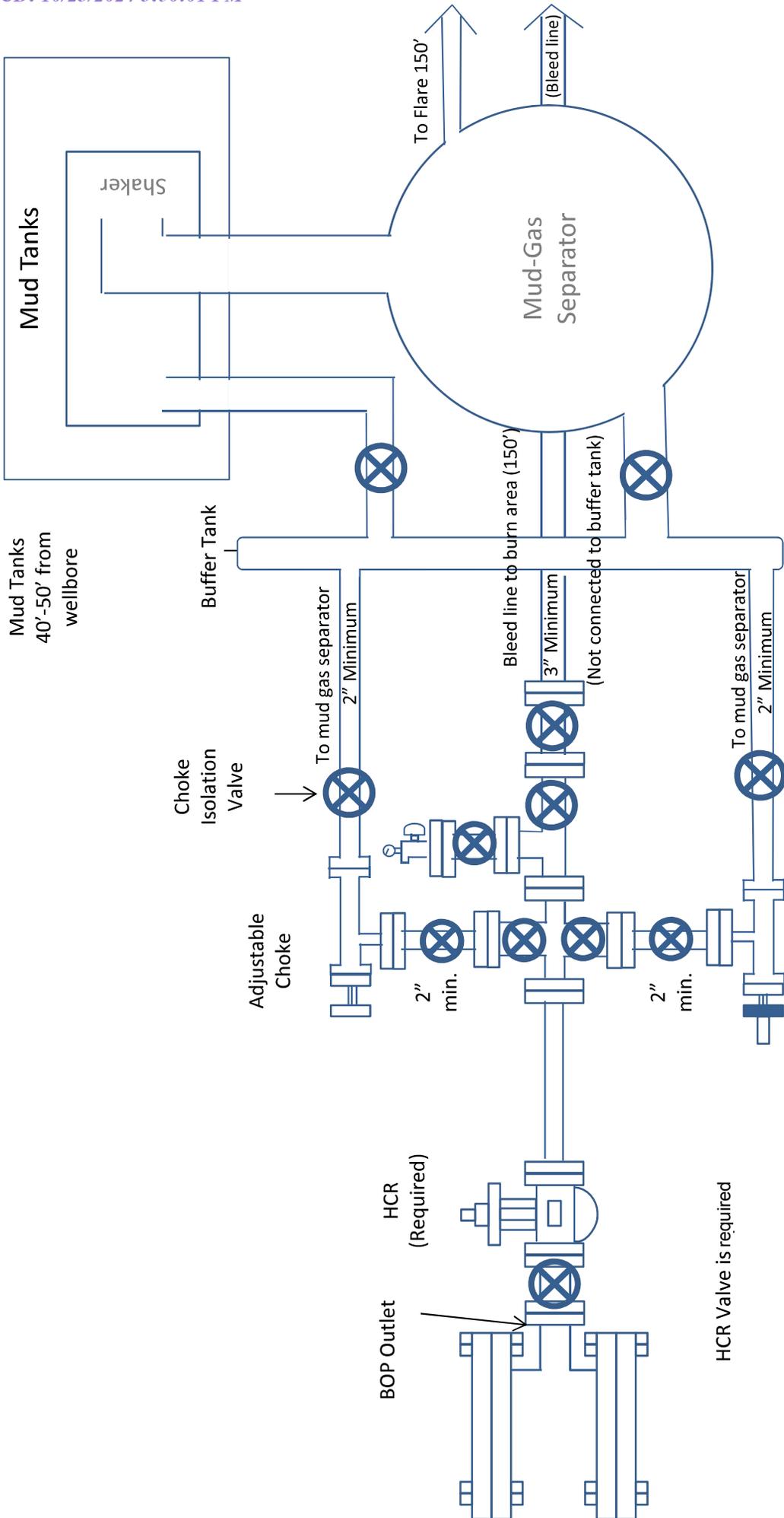
Spudder\_Rig\_Request\_20240806111351.pdf

Offline\_Cement\_Variance\_Surf\_\_Interm\_Csg\_20240806111351.pdf

Updated\_Flex\_Hose\_20240806111351.pdf

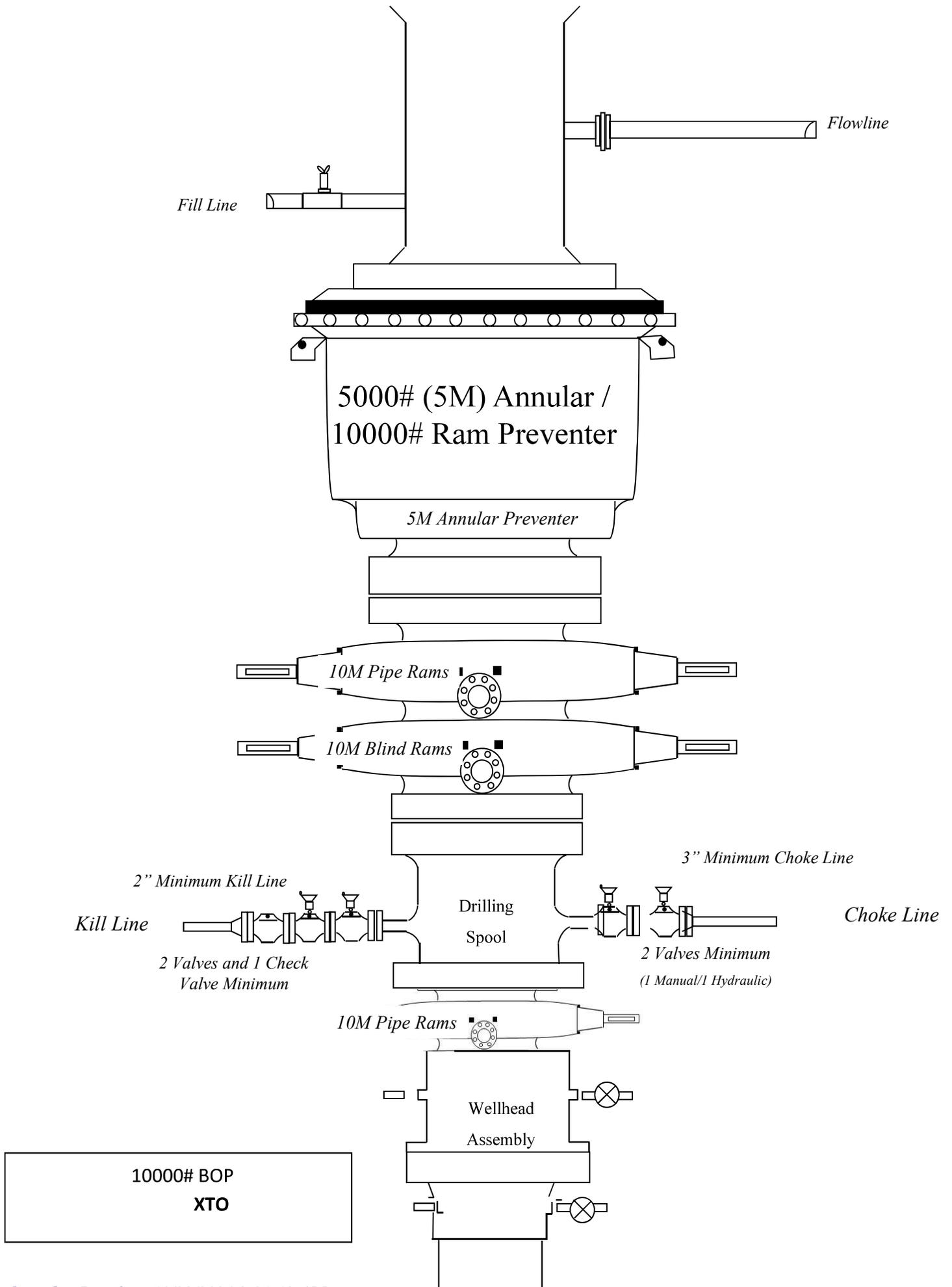
BOP\_Break\_Test\_Variance\_20240912121651.pdf

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



5M Choke Manifold Diagram XTO

### Drilling Operations Choke Manifold 5M Service



### Casing Assumptions

#### Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0' – 1262'	9.625	40	J-55	BTC	New	1.58	4.99	12.48
8.75	0' – 4000'	7.625	29.7	RY P-110	Flush Joint	New	2.20	2.92	1.78
8.75	4000' – 10546'	7.625	29.7	HC L-80	Flush Joint	New	1.60	2.27	2.09
6.75	0' – 10446'	5.5	20	RY P-110	Semi-Premium	New	1.05	1.78	1.98
6.75	10446' - 24221'	5.5	20	RY P-110	Semi-Flush	New	1.05	1.63	1.98

### **Cement Variance Request**

#### **Intermediate Casing:**

XTO requests to pump a two stage cement job on the 7-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brush Canyon (6498') and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If cement is not visually confirmed to circulate to surface, the final cement top after the second stage job will be verified by Echo-meter. If necessary, a top out consisting of 1,500 sack of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. If cement is still unable to circulate to surface, another Echo-meter run will be performed for cement top verification.

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

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

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

#### **Production Casing:**

XTO requests the option to offline cement and remediate (if needed) surface and intermediate casing strings where batch drilling is approved and if unplanned remediation is needed. XTO will ensure well is static with no pressure on the csg annulus, as with all other casing strings where batch drilling operations occur before moving off the rig. The TA cap will also be installed when applicable per Cactus procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops. Offline cement operations will then be conducted after the rig is moved off the current well to the next well in the batch sequence.

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

Description of Operations:

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

## XTO Permian Operating, LLC Offline Cementing Variance Request

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

### 1. Cement Program

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

### 2. Offline Cementing Procedure

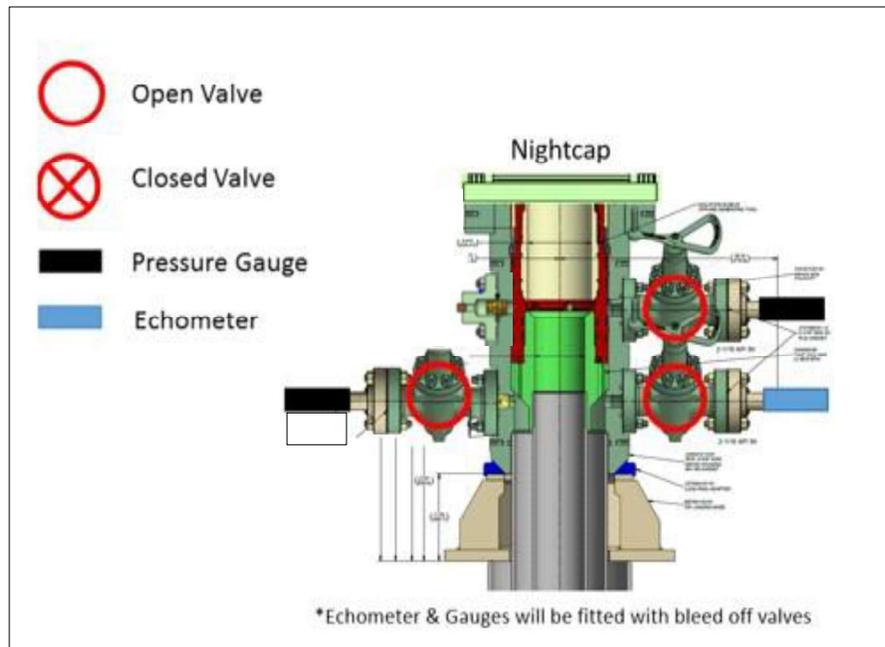
The operational sequence will be as follows. If a well control event occurs, the BLM will be contacted for approval prior to conducting offline cementing operations.

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



Annular packoff with both external and internal seals

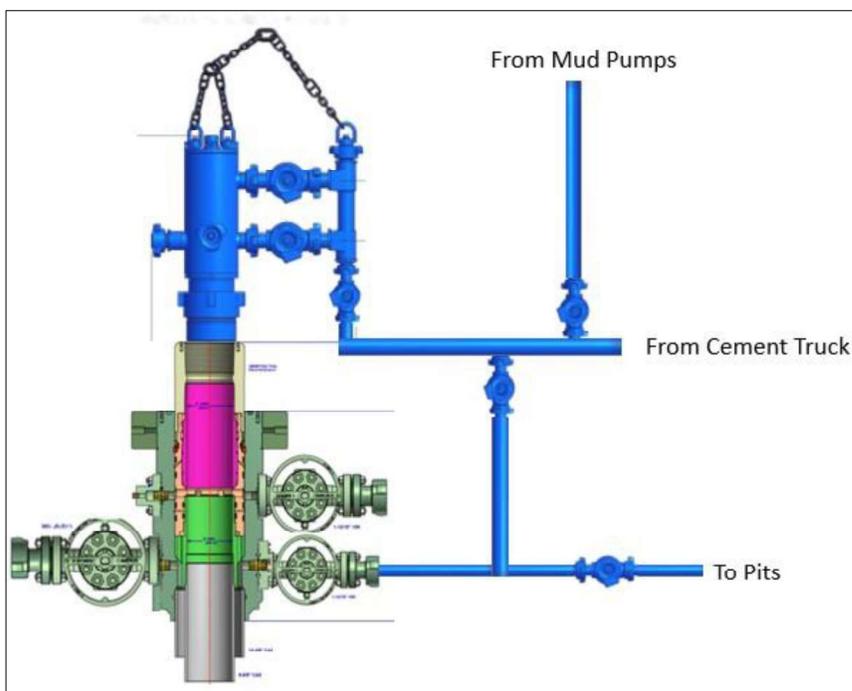
## XTO Permian Operating, LLC Offline Cementing Variance Request



Wellhead diagram during skidding operations

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

### XTO Permian Operating, LLC Offline Cementing Variance Request



Wellhead diagram during offline cementing operations

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



# BLACK GOLD®

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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.

<b>CUSTOMER:</b>	NABORS DRILLING TECHNOLOGIES USA DBA NABORS DRILLING USA
<b>CUSTOMER P.O.#:</b>	15582803 (TAG NABORS PO #15582803 SN 74621 ASSET 66-1531)
<b>CUSTOMER P/N:</b>	IMR RETEST SN 74621 ASSET #66-1531
<b>PART DESCRIPTION:</b>	RETEST OF CUSTOMER 3" X 45 FT 16C CHOKE & KILL HOSE ASSEMBLY C/W 4 1/16" 10K FLANGES
<b>SALES ORDER #:</b>	529480
<b>QUANTITY:</b>	1
<b>SERIAL #:</b>	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:

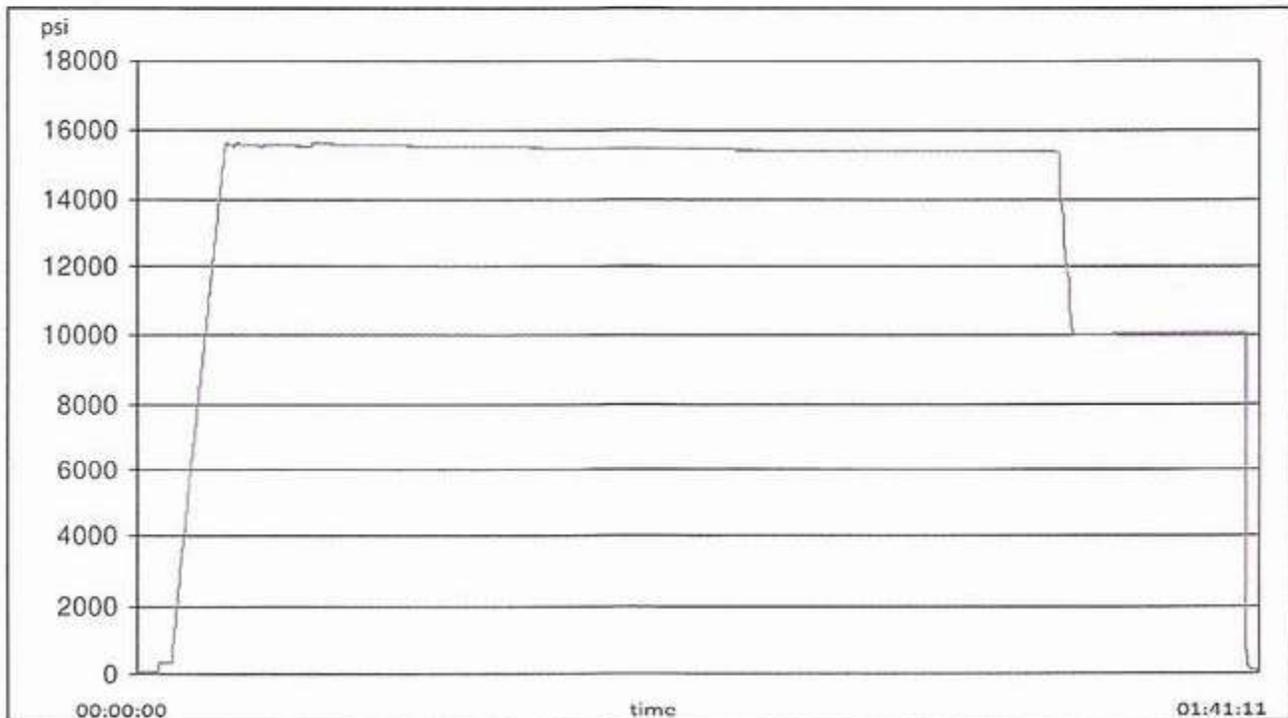
### TEST INFORMATION

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

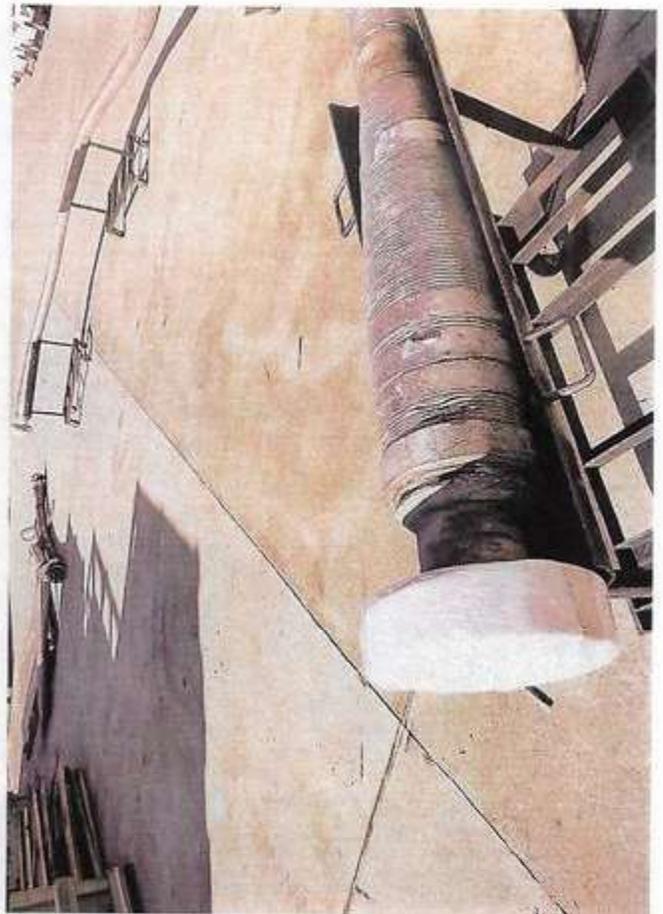
1/25/2024 11:48:06 AM

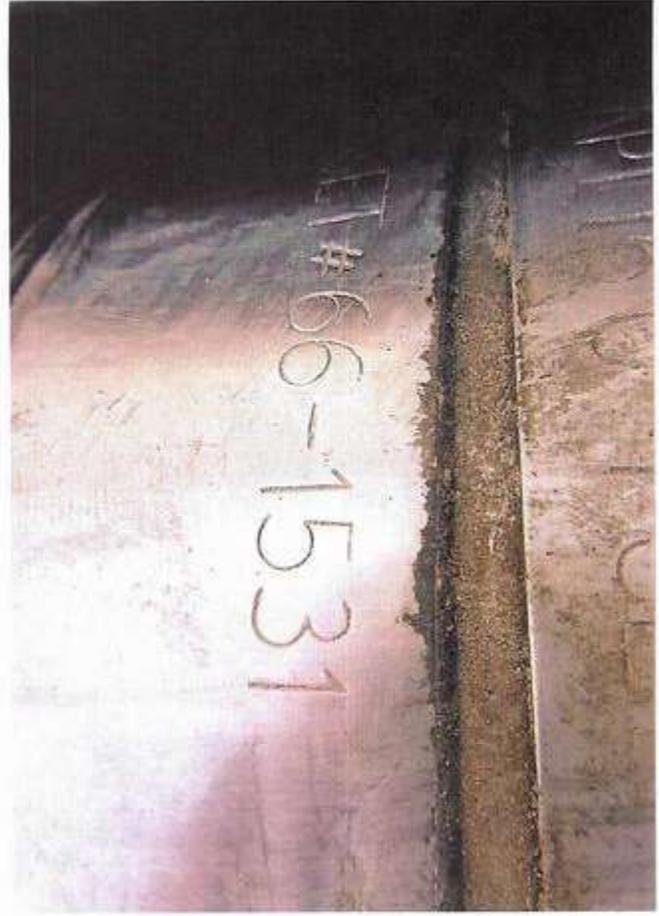
# TEST REPORT

## 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







**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.

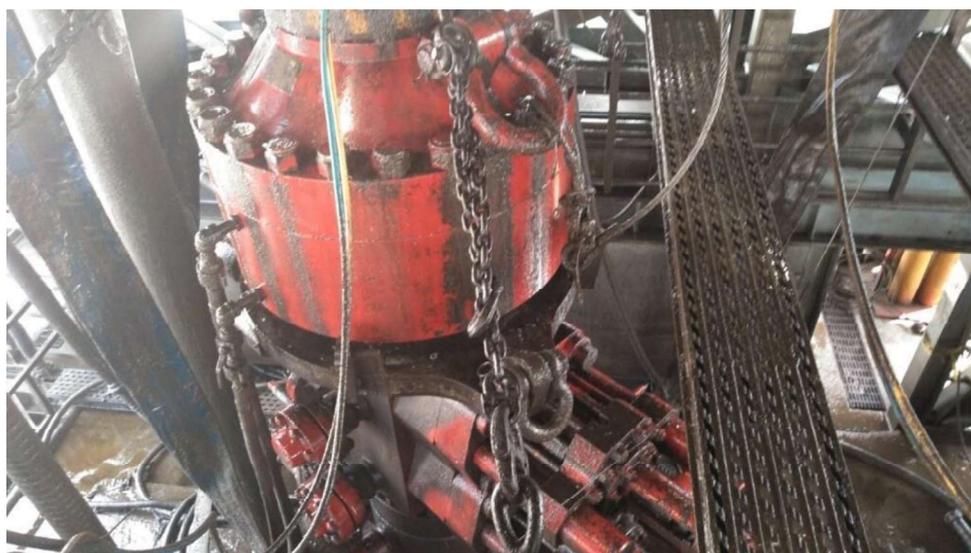


Figure 1: Winch System attached to BOP Stack

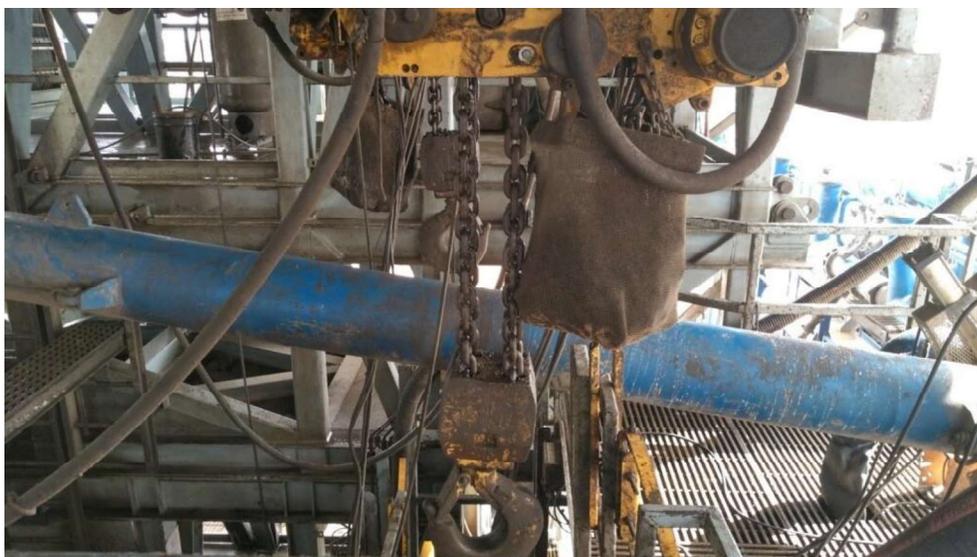


Figure 2: BOP Winch System

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.

API STANDARD 53			
Table C.4—Initial Pressure Testing, Surface BOP Stacks			
Component to be Pressure Tested	Pressure Test—Low Pressure <sup>ac</sup> psig (MPa)	Pressure Test—High Pressure <sup>ac</sup>	
		Change Out of Component, Elastomer, or Ring Gasket	No Change Out of Component, Elastomer, or Ring Gasket
Annular preventer <sup>b</sup>	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 <sup>bd</sup>	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 <sup>e</sup>	250 to 350 (1.72 to 2.41)	RWP of ram preventers or wellhead system, whichever is lower	ITP
Choke manifold—downstream of chokes <sup>e</sup>	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	

<sup>a</sup> 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.

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

<sup>c</sup> 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.

<sup>d</sup> 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.

<sup>e</sup> 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.

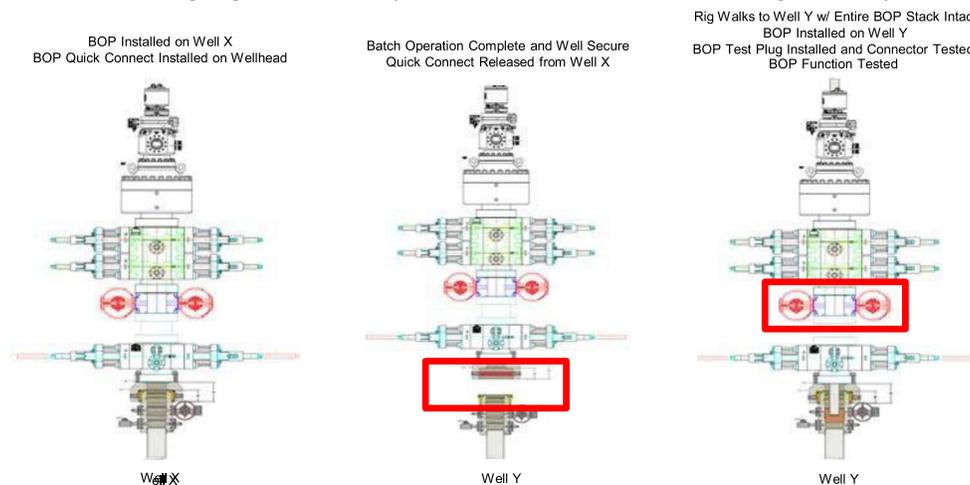
XTO Energy feels break testing and our current procedures meet the intent of CFR Title 43 Part 317 0and often exceed it. There has been no evidence that break testing results in more components failing than seen on full BOP tests. XTO Energy's internal standards requires complete BOPE tests more often 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.

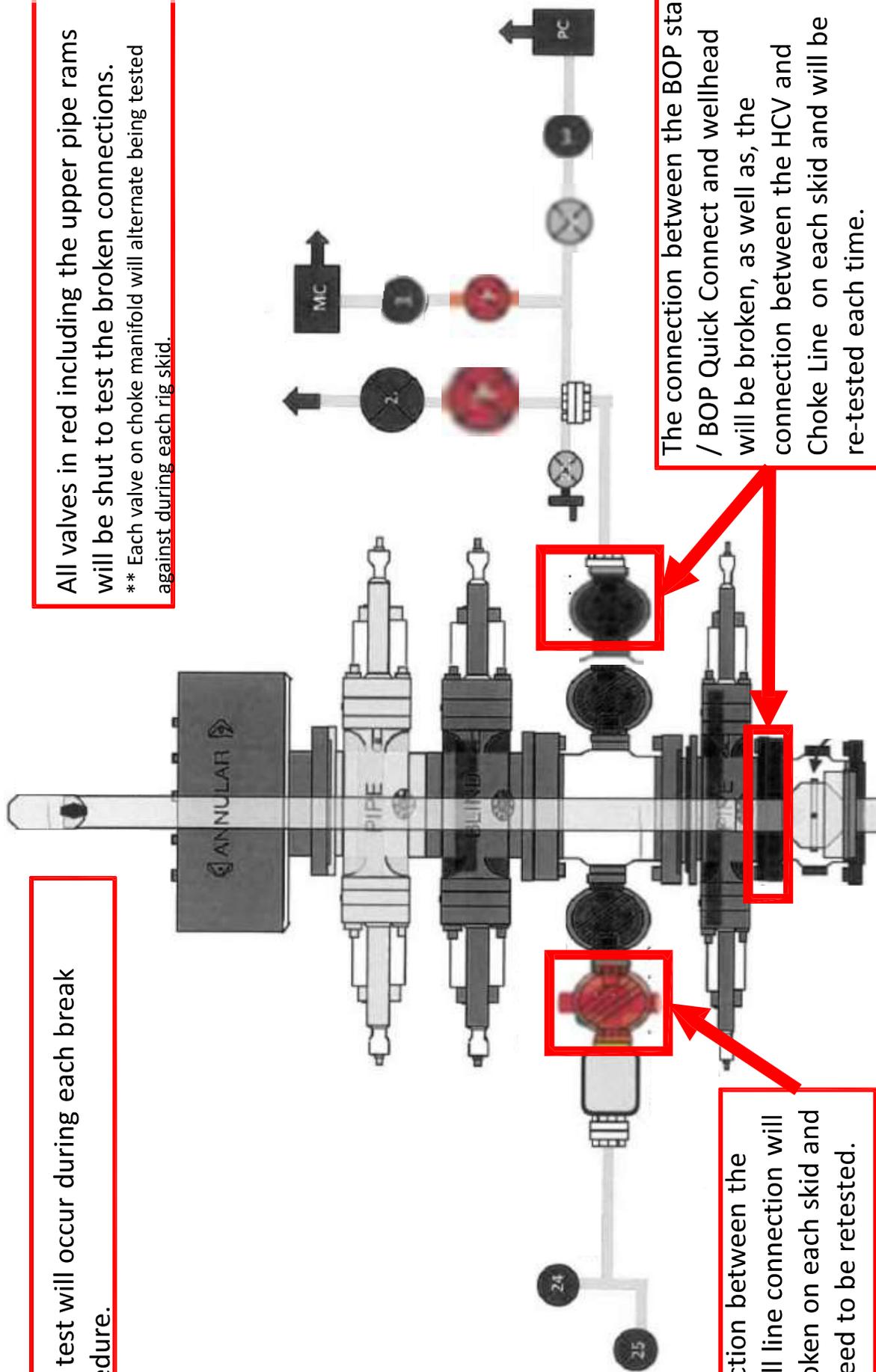
The BOP will be secured by a hydraulic carrier or cradle. The BLM will be contacted if a Well Control event occurs prior to the commencement of a BOPE Break Testing operation.

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.

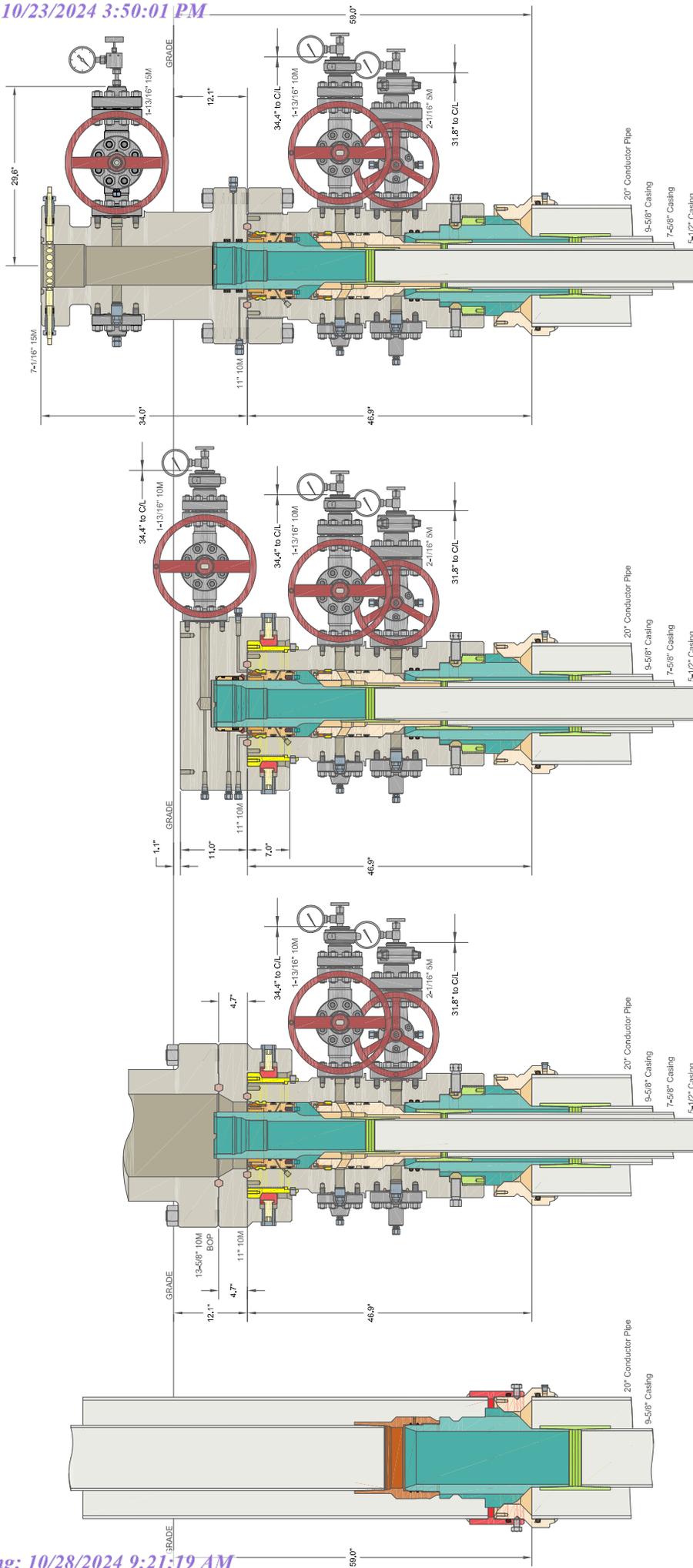
Only **ONE** test will occur during each break test procedure.

All valves in red including the upper pipe rams will be shut to test the broken connections.  
\*\* Each valve on choke manifold will alternate being tested against during each rig skid.



The connection between the BOP stack / BOP Quick Connect and wellhead will be broken, as well as, the connection between the HCV and Choke Line on each skid and will be re-tested each time.

The connection between the HCV and kill line connection will **NOT** be broken on each skid and does not need to be retested.



ALL DIMENSIONS APPROXIMATE

XTO ENERGY INC  
ICARUS PAD

DRAWN	DLE	18JAN21
APPRV		

DRAWING NO. HBE0000479

**CACTUS WELLHEAD LLC**

20" x 9-5/8" x 7-5/8" x 5-1/2" MBU-T-CFL-R-DBLO Wellhead  
With 11" 10M x 7-1/16" 15M CTH+DBLHPS Tubing Head  
And 9-5/8", 7-5/8" & 5-1/2" Pin Bottom Mandrel Casing Hangers

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# Well Plan Report - Poker Lake Unit 22 DTD South 403H

**Measured Depth:** 24221.45 ft  
**TVD RKB:** 11396.00 ft  
**Location**  
 Cartographic Reference System: New Mexico East - NAD 27  
**Northing:** 440367.70 ft  
**Easting:** 645133.80 ft  
**RKB:** 3462.00 ft  
**Ground Level:** 3430.00 ft  
**North Reference:** Grid  
**Convergence Angle:** 0.25 Deg

## Plan Sections Poker Lake Unit 22 DTD South 403H

Measured Depth (ft)	Inclination (Deg)	Azimuth (Deg)	RKB (ft)	TVD	Y Offset (ft)	X Offset (ft)	Build		Turn		Dogleg	
							Rate (Deg/100ft)					
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
1566.00	9.32	80.24	1563.95		6.41	37.27	2.00	0.00	0.00	2.00	0.00	2.00
6300.61	9.32	80.24	6236.05		136.39	792.93	0.00	0.00	0.00	0.00	0.00	0.00
6766.60	0.00	0.00	6700.00		142.80	830.20	-2.00	0.00	0.00	2.00	0.00	2.00
10746.40	0.00	0.00	10679.80		142.80	830.20	0.00	0.00	0.00	0.00	0.00	0.00
11871.40	90.00	179.66	11396.00		-573.38	834.49	8.00	0.00	0.00	8.00	0.00	8.00
24131.32	90.00	179.66	11396.00		-12833.08	907.88	0.00	0.00	0.00	0.00	0.00	0.00 LTP 25
24221.45	90.00	179.66	11396.00		-12923.21	908.42	0.00	0.00	0.00	0.00	0.00	0.00 BHL 25

## Position Uncertainty Poker Lake Unit 22 DTD South 403H

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



3200.000	9.320	80.240	3176.378	11.142	0.000	11.420	0.000	4.360	0.000	0.000	11.436	11.106	92.825	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
3300.000	9.320	80.240	3275.058	11.501	0.000	11.782	0.000	4.464	0.000	0.000	11.798	11.460	92.931	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
3400.000	9.320	80.240	3373.738	11.860	0.000	12.143	0.000	4.570	0.000	0.000	12.160	11.814	93.035	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
3500.000	9.320	80.240	3472.418	12.219	0.000	12.505	0.000	4.677	0.000	0.000	12.523	12.168	93.136	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
3600.000	9.320	80.240	3571.098	12.579	0.000	12.867	0.000	4.785	0.000	0.000	12.886	12.522	93.235	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
3700.000	9.320	80.240	3669.778	12.938	0.000	13.230	0.000	4.895	0.000	0.000	13.248	12.876	93.332	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
3800.000	9.320	80.240	3768.458	13.298	0.000	13.592	0.000	5.007	0.000	0.000	13.611	13.230	93.426	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
3900.000	9.320	80.240	3867.137	13.657	0.000	13.954	0.000	5.120	0.000	0.000	13.974	13.585	93.519	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
4000.000	9.320	80.240	3965.817	14.017	0.000	14.317	0.000	5.234	0.000	0.000	14.338	13.940	93.608	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
4100.000	9.320	80.240	4064.497	14.377	0.000	14.679	0.000	5.350	0.000	0.000	14.701	14.295	93.696	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
4200.000	9.320	80.240	4163.177	14.737	0.000	15.042	0.000	5.467	0.000	0.000	15.064	14.649	93.782	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
4300.000	9.320	80.240	4261.857	15.097	0.000	15.405	0.000	5.586	0.000	0.000	15.428	15.004	93.865	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
4400.000	9.320	80.240	4360.537	15.458	0.000	15.768	0.000	5.706	0.000	0.000	15.792	15.360	93.947	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
4500.000	9.320	80.240	4459.217	15.818	0.000	16.131	0.000	5.828	0.000	0.000	16.155	15.715	94.027	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
4600.000	9.320	80.240	4557.897	16.178	0.000	16.494	0.000	5.952	0.000	0.000	16.519	16.070	94.104	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
4700.000	9.320	80.240	4656.577	16.539	0.000	16.857	0.000	6.077	0.000	0.000	16.883	16.425	94.180	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
4800.000	9.320	80.240	4755.257	16.899	0.000	17.220	0.000	6.204	0.000	0.000	17.247	16.781	94.255	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
4900.000	9.320	80.240	4853.937	17.260	0.000	17.583	0.000	6.332	0.000	0.000	17.611	17.136	94.327	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
5000.000	9.320	80.240	4952.617	17.620	0.000	17.946	0.000	6.462	0.000	0.000	17.975	17.492	94.399	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
5100.000	9.320	80.240	5051.297	17.981	0.000	18.309	0.000	6.594	0.000	0.000	18.339	17.848	94.468	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
5200.000	9.320	80.240	5149.977	18.342	0.000	18.673	0.000	6.728	0.000	0.000	18.703	18.203	94.536	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
5300.000	9.320	80.240	5248.657	18.702	0.000	19.036	0.000	6.863	0.000	0.000	19.067	18.559	94.603	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
5400.000	9.320	80.240	5347.337	19.063	0.000	19.399	0.000	7.001	0.000	0.000	19.431	18.915	94.669	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
5500.000	9.320	80.240	5446.016	19.424	0.000	19.763	0.000	7.140	0.000	0.000	19.795	19.271	94.733	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
5600.000	9.320	80.240	5544.696	19.785	0.000	20.126	0.000	7.281	0.000	0.000	20.160	19.627	94.796	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
5700.000	9.320	80.240	5643.376	20.146	0.000	20.490	0.000	7.423	0.000	0.000	20.524	19.983	94.858	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
5800.000	9.320	80.240	5742.056	20.507	0.000	20.853	0.000	7.568	0.000	0.000	20.888	20.339	94.918	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
5900.000	9.320	80.240	5840.736	20.868	0.000	21.217	0.000	7.715	0.000	0.000	21.253	20.695	94.978	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
6000.000	9.320	80.240	5939.416	21.229	0.000	21.581	0.000	7.864	0.000	0.000	21.617	21.051	95.037	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
6100.000	9.320	80.240	6038.096	21.590	0.000	21.944	0.000	8.014	0.000	0.000	21.981	21.407	95.094	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
6200.000	9.320	80.240	6136.776	21.951	0.000	22.308	0.000	8.167	0.000	0.000	22.346	21.763	95.151	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
6300.607	9.320	80.240	6236.055	22.314	0.000	22.674	0.000	8.323	0.000	0.000	22.713	22.122	95.207	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
6400.000	7.332	80.240	6334.395	22.683	0.000	23.034	0.000	8.479	0.000	0.000	23.074	22.476	95.263	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
6500.000	5.332	80.240	6433.780	23.029	0.000	23.394	0.000	8.635	0.000	0.000	23.434	22.832	95.336	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22

Well Plan Report

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6600.000	3.332	80.240	6533.490	23.349	0.000	23.751	0.000	8.789	0.000	0.000	23.792	23.188	95.424	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
6700.000	1.332	80.240	6633.402	23.641	0.000	24.105	0.000	8.940	0.000	0.000	24.146	23.542	95.516	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
6766.604	0.000	0.000	6700.000	24.372	0.000	23.780	0.000	9.040	0.000	0.000	24.378	23.774	95.502	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
6800.000	0.000	0.000	6733.396	24.487	0.000	23.895	0.000	9.090	0.000	0.000	24.493	23.889	95.460	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
6900.000	0.000	0.000	6833.396	24.832	0.000	24.238	0.000	9.241	0.000	0.000	24.837	24.233	95.335	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
7000.000	0.000	0.000	6933.396	25.177	0.000	24.582	0.000	9.394	0.000	0.000	25.182	24.577	95.214	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
7100.000	0.000	0.000	7033.396	25.523	0.000	24.926	0.000	9.550	0.000	0.000	25.527	24.921	95.097	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
7200.000	0.000	0.000	7133.396	25.868	0.000	25.271	0.000	9.709	0.000	0.000	25.873	25.266	94.983	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
7300.000	0.000	0.000	7233.396	26.214	0.000	25.616	0.000	9.870	0.000	0.000	26.219	25.612	94.872	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
7400.000	0.000	0.000	7333.396	26.561	0.000	25.961	0.000	10.035	0.000	0.000	26.565	25.957	94.765	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
7500.000	0.000	0.000	7433.396	26.908	0.000	26.307	0.000	10.202	0.000	0.000	26.911	26.303	94.660	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
7600.000	0.000	0.000	7533.396	27.255	0.000	26.653	0.000	10.372	0.000	0.000	27.258	26.649	94.559	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
7700.000	0.000	0.000	7633.396	27.602	0.000	27.000	0.000	10.544	0.000	0.000	27.606	26.996	94.460	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
7800.000	0.000	0.000	7733.396	27.950	0.000	27.346	0.000	10.720	0.000	0.000	27.953	27.343	94.364	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
7900.000	0.000	0.000	7833.396	28.297	0.000	27.693	0.000	10.898	0.000	0.000	28.301	27.690	94.270	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
8000.000	0.000	0.000	7933.396	28.646	0.000	28.041	0.000	11.079	0.000	0.000	28.649	28.037	94.179	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
8100.000	0.000	0.000	8033.396	28.994	0.000	28.388	0.000	11.263	0.000	0.000	28.997	28.385	94.090	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
8200.000	0.000	0.000	8133.396	29.343	0.000	28.736	0.000	11.450	0.000	0.000	29.346	28.733	94.003	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
8300.000	0.000	0.000	8233.396	29.691	0.000	29.084	0.000	11.640	0.000	0.000	29.694	29.081	93.919	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
8400.000	0.000	0.000	8333.396	30.041	0.000	29.433	0.000	11.833	0.000	0.000	30.043	29.430	93.837	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
8500.000	0.000	0.000	8433.396	30.390	0.000	29.781	0.000	12.028	0.000	0.000	30.392	29.779	93.757	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
8600.000	0.000	0.000	8533.396	30.739	0.000	30.130	0.000	12.227	0.000	0.000	30.742	30.128	93.679	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
8700.000	0.000	0.000	8633.396	31.089	0.000	30.479	0.000	12.428	0.000	0.000	31.092	30.477	93.602	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
8800.000	0.000	0.000	8733.396	31.439	0.000	30.828	0.000	12.633	0.000	0.000	31.441	30.826	93.528	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
8900.000	0.000	0.000	8833.396	31.789	0.000	31.178	0.000	12.840	0.000	0.000	31.791	31.176	93.455	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
9000.000	0.000	0.000	8933.396	32.139	0.000	31.528	0.000	13.051	0.000	0.000	32.142	31.525	93.384	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
9100.000	0.000	0.000	9033.396	32.490	0.000	31.877	0.000	13.264	0.000	0.000	32.492	31.875	93.315	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
9200.000	0.000	0.000	9133.396	32.841	0.000	32.228	0.000	13.481	0.000	0.000	32.843	32.226	93.247	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
9300.000	0.000	0.000	9233.396	33.191	0.000	32.578	0.000	13.700	0.000	0.000	33.193	32.576	93.181	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
9400.000	0.000	0.000	9333.396	33.542	0.000	32.928	0.000	13.923	0.000	0.000	33.544	32.926	93.116	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
9500.000	0.000	0.000	9433.396	33.894	0.000	33.279	0.000	14.148	0.000	0.000	33.895	33.277	93.053	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
9600.000	0.000	0.000	9533.396	34.245	0.000	33.630	0.000	14.377	0.000	0.000	34.247	33.628	92.991	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
9700.000	0.000	0.000	9633.396	34.596	0.000	33.981	0.000	14.608	0.000	0.000	34.598	33.979	92.930	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
9800.000	0.000	0.000	9733.396	34.948	0.000	34.332	0.000	14.843	0.000	0.000	34.949	34.330	92.871	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22

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9900.000	0.000	0.000	9833.396	35.300	0.000	34.683	0.000	15.080	0.000	0.000	35.301	34.681	92.813	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
10000.000	0.000	0.000	9933.396	35.651	0.000	35.034	0.000	15.321	0.000	0.000	35.653	35.033	92.756	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
10100.000	0.000	0.000	10033.396	36.003	0.000	35.386	0.000	15.565	0.000	0.000	36.005	35.384	92.700	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
10200.000	0.000	0.000	10133.396	36.356	0.000	35.737	0.000	15.811	0.000	0.000	36.357	35.736	92.646	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
10300.000	0.000	0.000	10233.396	36.708	0.000	36.089	0.000	16.061	0.000	0.000	36.709	36.088	92.592	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
10400.000	0.000	0.000	10333.396	37.060	0.000	36.441	0.000	16.314	0.000	0.000	37.061	36.440	92.540	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
10500.000	0.000	0.000	10433.396	37.413	0.000	36.793	0.000	16.570	0.000	0.000	37.414	36.792	92.489	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
10600.000	0.000	0.000	10533.396	37.765	0.000	37.145	0.000	16.829	0.000	0.000	37.766	37.144	92.439	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
10700.000	0.000	0.000	10633.396	38.118	0.000	37.498	0.000	17.091	0.000	0.000	38.119	37.497	92.389	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
10746.404	0.000	0.000	10679.800	38.282	0.000	37.661	0.000	17.214	0.000	0.000	38.283	37.660	92.367	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
10800.000	4.288	179.657	10733.346	38.340	0.000	37.844	-0.000	17.356	0.000	0.000	38.464	37.843	92.344	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
10900.000	12.288	179.657	10832.221	37.976	0.000	38.169	-0.000	17.616	0.000	0.000	38.784	38.167	92.329	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
11000.000	20.288	179.657	10928.130	37.029	0.000	38.482	-0.000	17.863	0.000	0.000	39.088	38.480	92.390	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
11100.000	28.288	179.657	11019.205	35.532	0.000	38.779	-0.000	18.093	0.000	0.000	39.365	38.777	92.603	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
11200.000	36.288	179.657	11103.674	33.542	0.000	39.055	-0.000	18.302	0.000	0.000	39.608	39.053	93.072	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
11300.000	44.288	179.657	11179.893	31.147	0.000	39.306	-0.000	18.487	0.000	0.000	39.811	39.304	93.960	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
11400.000	52.288	179.657	11246.378	28.468	0.000	39.531	-0.000	18.650	0.000	0.000	39.972	39.526	95.542	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
11500.000	60.288	179.657	11301.835	25.678	0.000	39.724	-0.000	18.790	0.000	0.000	40.093	39.716	98.299	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
11600.000	68.288	179.657	11345.185	23.015	0.000	39.885	-0.000	18.910	0.000	0.000	40.180	39.868	102.992	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
11700.000	76.288	179.657	11375.584	20.804	0.000	40.010	-0.000	19.012	0.000	0.000	40.242	39.978	110.254	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
11800.000	84.288	179.657	11392.441	19.432	0.000	40.099	-0.000	19.100	0.000	0.000	40.292	40.039	118.802	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
11871.404	90.000	179.657	11395.997	19.156	0.000	40.139	-0.000	19.156	0.000	0.000	40.322	40.056	123.567	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
11900.000	90.000	179.657	11395.997	19.178	0.000	40.151	-0.000	19.178	0.000	0.000	40.334	40.058	125.031	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
12000.000	90.000	179.657	11395.997	19.261	0.000	40.200	-0.000	19.261	0.000	0.000	40.379	40.069	130.221	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
12100.000	90.000	179.657	11395.997	19.354	0.000	40.258	-0.000	19.354	0.000	0.000	40.433	40.079	134.874	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
12200.000	90.000	179.657	11395.997	19.458	0.000	40.324	-0.000	19.458	0.000	0.000	40.495	40.091	-41.019	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
12300.000	90.000	179.657	11395.997	19.572	0.000	40.398	-0.000	19.572	0.000	0.000	40.566	40.102	-37.428	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
12400.000	90.000	179.657	11395.997	19.695	0.000	40.481	-0.000	19.695	0.000	0.000	40.646	40.114	-34.305	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
12500.000	90.000	179.657	11395.997	19.828	0.000	40.571	-0.000	19.828	0.000	0.000	40.734	40.126	-31.590	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
12600.000	90.000	179.657	11395.997	19.971	0.000	40.670	-0.000	19.971	0.000	0.000	40.830	40.139	-29.226	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
12700.000	90.000	179.657	11395.997	20.122	0.000	40.777	-0.000	20.122	0.000	0.000	40.935	40.151	-27.161	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
12800.000	90.000	179.657	11395.997	20.283	0.000	40.891	-0.000	20.283	0.000	0.000	41.048	40.165	-25.348	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
12900.000	90.000	179.657	11395.997	20.453	0.000	41.014	-0.000	20.453	0.000	0.000	41.169	40.179	-23.749	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
13000.000	90.000	179.657	11395.997	20.631	0.000	41.145	-0.000	20.631	0.000	0.000	41.298	40.193	-22.331	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22

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13100.000	90.000	179.657	11395.997	20.818	0.000	41.283	-0.000	20.818	0.000	0.000	41.434	40.208	-21.068	MWD+IFR1+SAG+MS+GS_XTO_PLU
13200.000	90.000	179.657	11395.997	21.013	0.000	41.429	-0.000	21.013	0.000	0.000	41.579	40.223	-19.936	MWD+IFR1+SAG+MS+GS_XTO_PLU
13300.000	90.000	179.657	11395.997	21.215	0.000	41.582	-0.000	21.215	0.000	0.000	41.731	40.239	-18.917	MWD+IFR1+SAG+MS+GS_XTO_PLU
13400.000	90.000	179.657	11395.997	21.426	0.000	41.743	-0.000	21.426	0.000	0.000	41.891	40.256	-17.996	MWD+IFR1+SAG+MS+GS_XTO_PLU
13500.000	90.000	179.657	11395.997	21.644	0.000	41.912	-0.000	21.644	0.000	0.000	42.058	40.273	-17.160	MWD+IFR1+SAG+MS+GS_XTO_PLU
13600.000	90.000	179.657	11395.997	21.869	0.000	42.088	-0.000	21.869	0.000	0.000	42.233	40.291	-16.398	MWD+IFR1+SAG+MS+GS_XTO_PLU
13700.000	90.000	179.657	11395.997	22.102	0.000	42.271	-0.000	22.102	0.000	0.000	42.415	40.309	-15.700	MWD+IFR1+SAG+MS+GS_XTO_PLU
13800.000	90.000	179.657	11395.997	22.341	0.000	42.461	-0.000	22.341	0.000	0.000	42.604	40.328	-15.060	MWD+IFR1+SAG+MS+GS_XTO_PLU
13900.000	90.000	179.657	11395.997	22.586	0.000	42.658	-0.000	22.586	0.000	0.000	42.801	40.348	-14.470	MWD+IFR1+SAG+MS+GS_XTO_PLU
14000.000	90.000	179.657	11395.997	22.839	0.000	42.863	-0.000	22.839	0.000	0.000	43.004	40.368	-13.925	MWD+IFR1+SAG+MS+GS_XTO_PLU
14100.000	90.000	179.657	11395.997	23.097	0.000	43.074	-0.000	23.097	0.000	0.000	43.214	40.389	-13.420	MWD+IFR1+SAG+MS+GS_XTO_PLU
14200.000	90.000	179.657	11395.997	23.361	0.000	43.292	-0.000	23.361	0.000	0.000	43.431	40.411	-12.951	MWD+IFR1+SAG+MS+GS_XTO_PLU
14300.000	90.000	179.657	11395.997	23.631	0.000	43.516	-0.000	23.631	0.000	0.000	43.655	40.433	-12.514	MWD+IFR1+SAG+MS+GS_XTO_PLU
14400.000	90.000	179.657	11395.997	23.907	0.000	43.748	-0.000	23.907	0.000	0.000	43.885	40.456	-12.106	MWD+IFR1+SAG+MS+GS_XTO_PLU
14500.000	90.000	179.657	11395.997	24.188	0.000	43.985	-0.000	24.188	0.000	0.000	44.121	40.479	-11.724	MWD+IFR1+SAG+MS+GS_XTO_PLU
14600.000	90.000	179.657	11395.997	24.474	0.000	44.229	-0.000	24.474	0.000	0.000	44.365	40.503	-11.367	MWD+IFR1+SAG+MS+GS_XTO_PLU
14700.000	90.000	179.657	11395.997	24.766	0.000	44.480	-0.000	24.766	0.000	0.000	44.614	40.528	-11.030	MWD+IFR1+SAG+MS+GS_XTO_PLU
14800.000	90.000	179.657	11395.997	25.062	0.000	44.736	-0.000	25.062	0.000	0.000	44.869	40.553	-10.714	MWD+IFR1+SAG+MS+GS_XTO_PLU
14900.000	90.000	179.657	11395.997	25.363	0.000	44.998	-0.000	25.363	0.000	0.000	45.131	40.579	-10.416	MWD+IFR1+SAG+MS+GS_XTO_PLU
15000.000	90.000	179.657	11395.997	25.668	0.000	45.267	-0.000	25.668	0.000	0.000	45.398	40.606	-10.134	MWD+IFR1+SAG+MS+GS_XTO_PLU
15100.000	90.000	179.657	11395.997	25.978	0.000	45.541	-0.000	25.978	0.000	0.000	45.671	40.633	-9.868	MWD+IFR1+SAG+MS+GS_XTO_PLU
15200.000	90.000	179.657	11395.997	26.292	0.000	45.821	-0.000	26.292	0.000	0.000	45.950	40.661	-9.615	MWD+IFR1+SAG+MS+GS_XTO_PLU
15300.000	90.000	179.657	11395.997	26.610	0.000	46.106	-0.000	26.610	0.000	0.000	46.235	40.690	-9.376	MWD+IFR1+SAG+MS+GS_XTO_PLU
15400.000	90.000	179.657	11395.997	26.932	0.000	46.397	-0.000	26.932	0.000	0.000	46.525	40.719	-9.148	MWD+IFR1+SAG+MS+GS_XTO_PLU
15500.000	90.000	179.657	11395.997	27.257	0.000	46.694	-0.000	27.257	0.000	0.000	46.821	40.749	-8.932	MWD+IFR1+SAG+MS+GS_XTO_PLU
15600.000	90.000	179.657	11395.997	27.587	0.000	46.996	-0.000	27.587	0.000	0.000	47.122	40.779	-8.726	MWD+IFR1+SAG+MS+GS_XTO_PLU
15700.000	90.000	179.657	11395.997	27.920	0.000	47.303	-0.000	27.920	0.000	0.000	47.428	40.810	-8.530	MWD+IFR1+SAG+MS+GS_XTO_PLU
15800.000	90.000	179.657	11395.997	28.256	0.000	47.615	-0.000	28.256	0.000	0.000	47.739	40.842	-8.343	MWD+IFR1+SAG+MS+GS_XTO_PLU
15900.000	90.000	179.657	11395.997	28.595	0.000	47.932	-0.000	28.595	0.000	0.000	48.055	40.875	-8.164	MWD+IFR1+SAG+MS+GS_XTO_PLU
16000.000	90.000	179.657	11395.997	28.938	0.000	48.254	-0.000	28.938	0.000	0.000	48.376	40.908	-7.992	MWD+IFR1+SAG+MS+GS_XTO_PLU
16100.000	90.000	179.657	11395.997	29.284	0.000	48.581	-0.000	29.284	0.000	0.000	48.702	40.941	-7.829	MWD+IFR1+SAG+MS+GS_XTO_PLU
16200.000	90.000	179.657	11395.997	29.632	0.000	48.913	-0.000	29.632	0.000	0.000	49.033	40.976	-7.672	MWD+IFR1+SAG+MS+GS_XTO_PLU
16300.000	90.000	179.657	11395.997	29.984	0.000	49.249	-0.000	29.984	0.000	0.000	49.368	41.010	-7.521	MWD+IFR1+SAG+MS+GS_XTO_PLU
16400.000	90.000	179.657	11395.997	30.338	0.000	49.590	-0.000	30.338	0.000	0.000	49.708	41.046	-7.377	MWD+IFR1+SAG+MS+GS_XTO_PLU

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16500.000	90.000	179.657	11395.997	30.695	0.000	49.935	-0.000	30.695	0.000	0.000	50.053	41.082	-7.238	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
16600.000	90.000	179.657	11395.997	31.054	0.000	50.284	-0.000	31.054	0.000	0.000	50.401	41.119	-7.104	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
16700.000	90.000	179.657	11395.997	31.416	0.000	50.638	-0.000	31.416	0.000	0.000	50.754	41.156	-6.976	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
16800.000	90.000	179.657	11395.997	31.780	0.000	50.996	-0.000	31.780	0.000	0.000	51.111	41.194	-6.852	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
16900.000	90.000	179.657	11395.997	32.147	0.000	51.358	-0.000	32.147	0.000	0.000	51.472	41.233	-6.733	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
17000.000	90.000	179.657	11395.997	32.515	0.000	51.724	-0.000	32.515	0.000	0.000	51.837	41.272	-6.618	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
17100.000	90.000	179.657	11395.997	32.886	0.000	52.094	-0.000	32.886	0.000	0.000	52.206	41.312	-6.508	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
17200.000	90.000	179.657	11395.997	33.259	0.000	52.468	-0.000	33.259	0.000	0.000	52.579	41.353	-6.401	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
17300.000	90.000	179.657	11395.997	33.634	0.000	52.845	-0.000	33.634	0.000	0.000	52.956	41.394	-6.297	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
17400.000	90.000	179.657	11395.997	34.011	0.000	53.226	-0.000	34.011	0.000	0.000	53.336	41.436	-6.198	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
17500.000	90.000	179.657	11395.997	34.390	0.000	53.611	-0.000	34.390	0.000	0.000	53.720	41.478	-6.101	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
17600.000	90.000	179.657	11395.997	34.770	0.000	53.999	-0.000	34.770	0.000	0.000	54.108	41.521	-6.008	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
17700.000	90.000	179.657	11395.997	35.153	0.000	54.391	-0.000	35.153	0.000	0.000	54.499	41.565	-5.917	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
17800.000	90.000	179.657	11395.997	35.537	0.000	54.786	-0.000	35.537	0.000	0.000	54.893	41.609	-5.830	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
17900.000	90.000	179.657	11395.997	35.923	0.000	55.184	-0.000	35.923	0.000	0.000	55.290	41.654	-5.745	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
18000.000	90.000	179.657	11395.997	36.310	0.000	55.586	-0.000	36.310	0.000	0.000	55.691	41.699	-5.662	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
18100.000	90.000	179.657	11395.997	36.699	0.000	55.991	-0.000	36.699	0.000	0.000	56.095	41.745	-5.583	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
18200.000	90.000	179.657	11395.997	37.089	0.000	56.398	-0.000	37.089	0.000	0.000	56.502	41.792	-5.505	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
18300.000	90.000	179.657	11395.997	37.481	0.000	56.809	-0.000	37.481	0.000	0.000	56.912	41.839	-5.430	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
18400.000	90.000	179.657	11395.997	37.874	0.000	57.223	-0.000	37.874	0.000	0.000	57.325	41.887	-5.357	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
18500.000	90.000	179.657	11395.997	38.268	0.000	57.640	-0.000	38.268	0.000	0.000	57.741	41.935	-5.286	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
18600.000	90.000	179.657	11395.997	38.664	0.000	58.059	-0.000	38.664	0.000	0.000	58.160	41.984	-5.217	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
18700.000	90.000	179.657	11395.997	39.061	0.000	58.481	-0.000	39.061	0.000	0.000	58.581	42.033	-5.150	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
18800.000	90.000	179.657	11395.997	39.459	0.000	58.906	-0.000	39.459	0.000	0.000	59.005	42.084	-5.084	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
18900.000	90.000	179.657	11395.997	39.859	0.000	59.334	-0.000	39.859	0.000	0.000	59.432	42.134	-5.021	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
19000.000	90.000	179.657	11395.997	40.260	0.000	59.764	-0.000	40.260	0.000	0.000	59.882	42.186	-4.959	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
19100.000	90.000	179.657	11395.997	40.661	0.000	60.197	-0.000	40.661	0.000	0.000	60.294	42.237	-4.899	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
19200.000	90.000	179.657	11395.997	41.064	0.000	60.632	-0.000	41.064	0.000	0.000	60.728	42.290	-4.840	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
19300.000	90.000	179.657	11395.997	41.468	0.000	61.070	-0.000	41.468	0.000	0.000	61.165	42.343	-4.783	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
19400.000	90.000	179.657	11395.997	41.873	0.000	61.510	-0.000	41.873	0.000	0.000	61.604	42.396	-4.727	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
19500.000	90.000	179.657	11395.997	42.279	0.000	61.952	-0.000	42.279	0.000	0.000	62.046	42.451	-4.673	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
19600.000	90.000	179.657	11395.997	42.686	0.000	62.396	-0.000	42.686	0.000	0.000	62.490	42.505	-4.620	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
19700.000	90.000	179.657	11395.997	43.094	0.000	62.843	-0.000	43.094	0.000	0.000	62.936	42.561	-4.568	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
19800.000	90.000	179.657	11395.997	43.503	0.000	63.292	-0.000	43.503	0.000	0.000	63.384	42.617	-4.517	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22

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19900.000	90.000	179.657	11395.997	43.913	0.000	63.835	42.673	-4.468	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
20000.000	90.000	179.657	11395.997	44.324	0.000	64.287	42.730	-4.420	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
20100.000	90.000	179.657	11395.997	44.735	0.000	64.742	42.788	-4.373	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
20200.000	90.000	179.657	11395.997	45.147	0.000	65.199	42.846	-4.327	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
20300.000	90.000	179.657	11395.997	45.560	0.000	65.657	42.904	-4.282	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
20400.000	90.000	179.657	11395.997	45.974	0.000	66.118	42.964	-4.238	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
20500.000	90.000	179.657	11395.997	46.389	0.000	66.580	43.023	-4.195	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
20600.000	90.000	179.657	11395.997	46.804	0.000	67.044	43.084	-4.153	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
20700.000	90.000	179.657	11395.997	47.220	0.000	67.510	43.145	-4.112	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
20800.000	90.000	179.657	11395.997	47.637	0.000	67.978	43.206	-4.072	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
20900.000	90.000	179.657	11395.997	48.055	0.000	68.448	43.268	-4.032	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
21000.000	90.000	179.657	11395.997	48.473	0.000	68.919	43.330	-3.994	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
21100.000	90.000	179.657	11395.997	48.892	0.000	69.392	43.393	-3.956	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
21200.000	90.000	179.657	11395.997	49.311	0.000	69.867	43.457	-3.919	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
21300.000	90.000	179.657	11395.997	49.731	0.000	70.343	43.521	-3.882	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
21400.000	90.000	179.657	11395.997	50.152	0.000	70.820	43.586	-3.847	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
21500.000	90.000	179.657	11395.997	50.573	0.000	71.300	43.651	-3.812	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
21600.000	90.000	179.657	11395.997	50.995	0.000	71.781	43.716	-3.778	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
21700.000	90.000	179.657	11395.997	51.417	0.000	72.263	43.783	-3.744	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
21800.000	90.000	179.657	11395.997	51.840	0.000	72.746	43.849	-3.712	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
21900.000	90.000	179.657	11395.997	52.263	0.000	73.232	43.917	-3.679	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
22000.000	90.000	179.657	11395.997	52.687	0.000	73.718	43.984	-3.648	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
22100.000	90.000	179.657	11395.997	53.112	0.000	74.206	44.053	-3.617	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
22200.000	90.000	179.657	11395.997	53.537	0.000	74.695	44.121	-3.586	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
22300.000	90.000	179.657	11395.997	53.962	0.000	75.186	44.191	-3.557	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
22400.000	90.000	179.657	11395.997	54.388	0.000	75.677	44.260	-3.527	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
22500.000	90.000	179.657	11395.997	54.814	0.000	76.170	44.331	-3.498	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
22600.000	90.000	179.657	11395.997	55.241	0.000	76.665	44.401	-3.470	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
22700.000	90.000	179.657	11395.997	55.668	0.000	77.160	44.473	-3.442	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
22800.000	90.000	179.657	11395.997	56.096	0.000	77.657	44.544	-3.415	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
22900.000	90.000	179.657	11395.997	56.524	0.000	78.155	44.617	-3.388	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
23000.000	90.000	179.657	11395.997	56.952	0.000	78.653	44.689	-3.362	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
23100.000	90.000	179.657	11395.997	57.381	0.000	79.154	44.763	-3.336	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
23200.000	90.000	179.657	11395.997	57.811	0.000	79.655	44.836	-3.311	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22

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23300.000	90.000	179.657	11395.997	58.240	0.000	80.084	-0.000	58.240	0.000	0.000	80.157	44.911	-3.286	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
23400.000	90.000	179.657	11395.997	58.670	0.000	80.588	-0.000	58.670	0.000	0.000	80.660	44.985	-3.261	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
23500.000	90.000	179.657	11395.997	59.101	0.000	81.093	-0.000	59.101	0.000	0.000	81.165	45.060	-3.237	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
23600.000	90.000	179.657	11395.997	59.531	0.000	81.599	-0.000	59.531	0.000	0.000	81.670	45.136	-3.213	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
23700.000	90.000	179.657	11395.997	59.962	0.000	82.106	-0.000	59.962	0.000	0.000	82.176	45.212	-3.190	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
23800.000	90.000	179.657	11395.997	60.394	0.000	82.613	-0.000	60.394	0.000	0.000	82.684	45.289	-3.167	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
23900.000	90.000	179.657	11395.997	60.826	0.000	83.122	-0.000	60.826	0.000	0.000	83.192	45.366	-3.144	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
24000.000	90.000	179.657	11395.997	61.258	0.000	83.632	-0.000	61.258	0.000	0.000	83.701	45.443	-3.122	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
24100.000	90.000	179.657	11395.997	61.690	0.000	84.143	-0.000	61.690	0.000	0.000	84.212	45.521	-3.100	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
24131.322	90.000	179.657	11395.997	61.826	0.000	84.302	-0.000	61.826	0.000	0.000	84.371	45.546	-3.093	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
24200.000	90.000	179.657	11395.997	62.123	0.000	84.653	-0.000	62.123	0.000	0.000	84.722	45.600	-3.078	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
24221.454	90.000	179.657	11395.997	62.216	0.000	84.763	-0.000	62.216	0.000	0.000	84.831	45.617	-3.074	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22

Poker Lake Unit 22 DTD South 403H

Plan Targets	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape
FTP 25	11596.85	440510.50	645964.00	7934.00	RECTANGLE
SHL 25	12127.53	440369.21	645149.66	7843.59	RECTANGLE
LTP 25	24131.46	427534.50	646041.60	7934.00	RECTANGLE
BHL 25	24221.44	427444.50	646042.40	7934.00	RECTANGLE

## PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

<b>OPERATOR'S NAME:</b> XTO <b>LEASE NO.:</b> NMNM02862 <b>LOCATION:</b> Sec. 22, T.24 S, R 30 E <b>COUNTY:</b> <span style="border: 1px solid black; padding: 2px;">Eddy County, New Mexico ▼</span>
<b>WELL NAME &amp; NO.:</b> Poker Lake Unit 22 DTD 403H <b>SURFACE HOLE FOOTAGE:</b> 233'/N & 1327'/E <b>BOTTOM HOLE FOOTAGE:</b> 2627'/N & 495'E

COA

<b>H<sub>2</sub>S</b>	<input checked="" type="radio"/> No		<input type="radio"/> Yes	
<b>Potash / WIPP</b>	<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.)				
<b>Cave / Karst</b>	<input checked="" type="radio"/> Low	<input type="radio"/> Medium	<input type="radio"/> High	<input type="radio"/> Critical
<b>Wellhead</b>	<input type="radio"/> Conventional	<input checked="" type="radio"/> Multibowl	<input type="radio"/> Both	<input type="radio"/> Diverter
<b>Cementing</b>	<input checked="" type="checkbox"/> Primary Squeeze	<input type="checkbox"/> Cont. Squeeze	<input checked="" type="checkbox"/> EchoMeter	<input type="checkbox"/> DV Tool
<b>Special Req</b>	<input type="checkbox"/> Capitan Reef	<input type="checkbox"/> Water Disposal	<input type="checkbox"/> COM	<input checked="" type="checkbox"/> Unit
<b>Waste Prev.</b>	<input type="radio"/> Self-Certification	<input type="radio"/> Waste Min. Plan	<input checked="" type="radio"/> APD Submitted prior to 06/10/2024	
<b>Additional Language</b>	<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 (H<sub>2</sub>S) monitors shall be installed prior to drilling out the surface shoe. If H<sub>2</sub>S 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 **800** feet (a minimum of **70 feet (Eddy County)** into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.
  - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping

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

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

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

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

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

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

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

### **C. PRESSURE CONTROL**

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

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

#### **D. SPECIAL REQUIREMENT (S)**

##### **Unit Wells**

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

##### **Commercial Well Determination**

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

##### **BOPE Break Testing Variance**

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

**Offline Cementing**

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

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

**Casing Clearance**

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

## GENERAL REQUIREMENTS

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

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

### Contact Eddy County Petroleum Engineering Inspection Staff:

Email or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220;  
[BLM\\_NM\\_CFO\\_DrillingNotifications@BLM.GOV](mailto: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 2<sup>nd</sup> 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 2<sup>nd</sup> 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 10/6/2024**  
575-234-5998 / zstevens@blm.gov



## HYDROGEN SULFIDE (H<sub>2</sub>S) CONTINGENCY PLAN

### Assumed 100 ppm ROE = 3000'

100 ppm H<sub>2</sub>S concentration shall trigger activation of this plan.

#### **Emergency Procedures**

In the event of a release of gas containing H<sub>2</sub>S, 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 H<sub>2</sub>S 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 H<sub>2</sub>S, 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 (SO<sub>2</sub>). 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 H<sub>2</sub>S and SO<sub>2</sub>**

Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H <sub>2</sub> S	1.189 Air = 1	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO <sub>2</sub>	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:**

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

**HOSPITALS:**

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

**AGENT NOTIFICATIONS:**

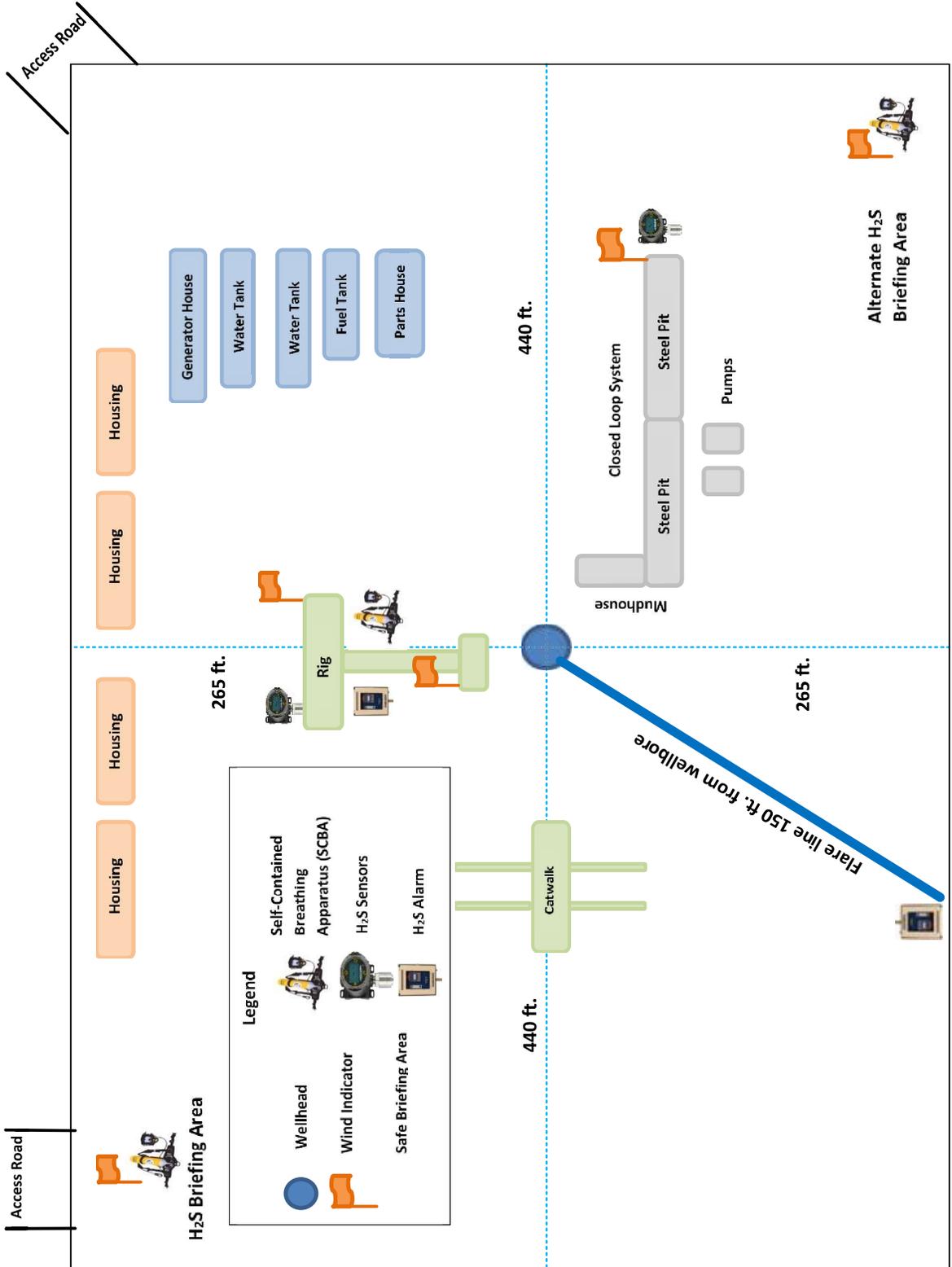
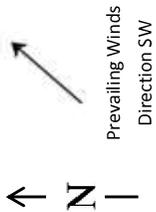
**For Lea County:**

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

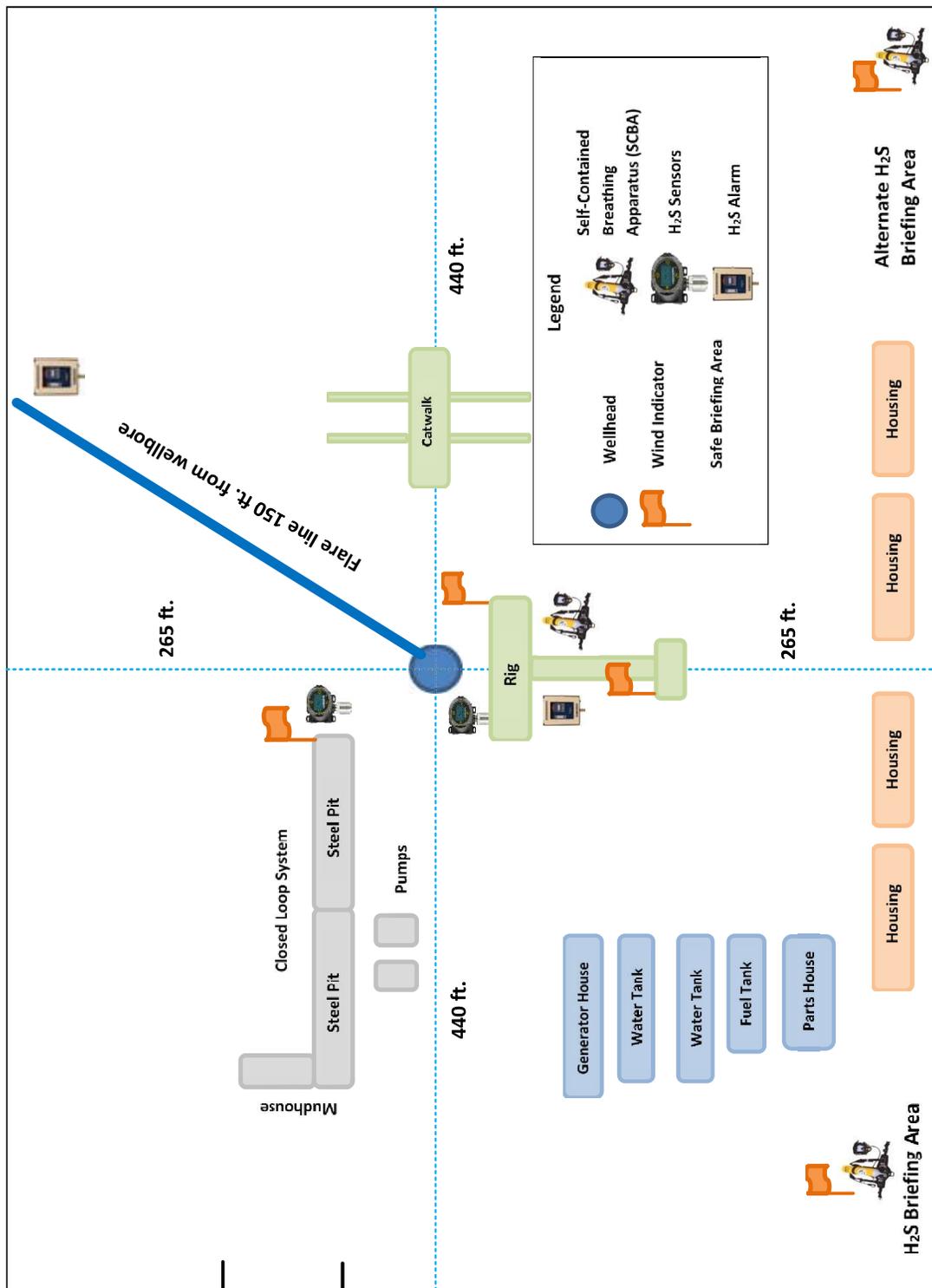
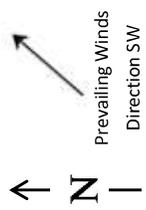
**For Eddy County:**

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

# H2S Briefing Areas and Alarm Locations



# H2S Briefing Areas and Alarm Locations



**Legend**

- Wellhead
- Wind Indicator
- Safe Briefing Area
- Self-Contained Breathing Apparatus (SCBA)
- H<sub>2</sub>S Sensors
- H<sub>2</sub>S Alarm



- Housing
- Housing
- Housing
- Housing

**Operator Name:** XTO PERMIAN OPERATING LLC

**Well Name:** POKER LAKE UNIT 22 DTD

**Well Number:** 403H

**Reserve Pit**

**Reserve Pit being used?** NO

**Temporary disposal of produced water into reserve pit?** NO

**Reserve pit length (ft.)**                      **Reserve pit width (ft.)**

**Reserve pit depth (ft.)**    **Reserve pit volume (cu. yd.)**

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

**Reserve pit liner**

**Reserve pit liner specifications and installation description**

**Cuttings Area**

**Cuttings Area being used?** NO

**Are you storing cuttings on location?** Y

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

**Cuttings area length (ft.)**    **Cuttings area width (ft.)**

**Cuttings area depth (ft.)**    **Cuttings area volume (cu. yd.)**

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

**WCuttings area liner**

**Cuttings area liner specifications and installation description**

**Section 8 - Ancillary**

**Are you requesting any Ancillary Facilities?:** N

**Ancillary Facilities**

**Comments:**

**Section 9 - Well Site**

**Well Site Layout Diagram:**

POKER\_LAKE\_UNIT\_22\_DTD\_403H\_Well\_20240406183756.pdf

**Comments:** Multi-well pad.

**Operator Name:** XTO PERMIAN OPERATING LLC

**Well Name:** POKER LAKE UNIT 22 DTD

**Well Number:** 403H

**Section 10 - Plans for Surface Reclamation**

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

**Multiple Well Pad Number:** D

**Recontouring**

PLU\_22\_DTD\_IR1\_20240406165542.pdf

PLU\_22\_DTD\_IR2\_20240406165542.pdf

PLU\_22\_DTD\_IR3\_20240406165542.pdf

PLU\_22\_DTD\_IR4\_20240406165542.pdf

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

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

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

**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 plans and form in mixed alluvium and/or Aeolian sands. Bippus soils are found on alluvial fans and floodplains and form in mixed alluvium. The Simona~Bippus soils are dominant to the east and the Simona Gravelly Fine Sandy Loams are dominant to the West. Dominant vegetation species include: mesquite, sumac snakeweed, and various forbs and grasses. Ground cover is minimal, offering 90 percent visibility

**Existing Vegetation at the well pad**

**Operator Name:** XTO PERMIAN OPERATING LLC

**Well Name:** POKER LAKE UNIT 22 DTD

**Well Number:** 403H

**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 395311

**CONDITIONS**

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID:	373075
	Action Number:	395311
	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