



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

*Application for Permit to Drill*

**APD Package Report**

Date Printed: 10/07/2024 04:43 PM

APD ID: 10400097907

Well Status: AAPD

APD Received Date: 04/11/2024 12:02 PM

Well Name: POKER LAKE UNIT 22 DTD

Operator: XTO PERMIAN OPERATING LLC

Well Number: 404H

APD Package Report Contents

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

- Bond Report
- Bond Attachments
  - None

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

## APPLICATION FOR PERMIT TO DRILL OR REENTER

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

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NMNM02862
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		6. If Indian, Allottee or Tribe Name
1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		7. If Unit or CA Agreement, Name and No. NMNM071016X/POKER LAKE UNIT
2. Name of Operator XTO PERMIAN OPERATING LLC		8. Lease Name and Well No. POKER LAKE UNIT 22 DTD 404H
3a. Address 6401 HOLIDAY HILL ROAD BLDG 5, MIDLAND, TX 79701	3b. Phone No. (include area code) (432) 683-2277	9. API Well No. 30-015-55523
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NENE / 233 FNL / 1297 FEL / LAT 32.209942 / LONG -103.864472 At proposed prod. zone SENE / 2627 FNL / 429 FEL / LAT 32.174407 / LONG -103.861599		10. Field and Pool, or Exploratory WILDCAT G-06 S243026M/BONE SPRIN
14. Distance in miles and direction from nearest town or post office*		11. Sec., T. R. M. or Blk. and Survey or Area SEC 22/T24S/R30E/NMP
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 233 feet		12. County or Parish EDDY
16. No of acres in lease		13. State NM
17. Spacing Unit dedicated to this well 800.0		
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 30 feet		
19. Proposed Depth 9883 feet / 22714 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* 03/15/2025		23. Estimated duration 45 days
24. Attachments		

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

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

25. Signature (Electronic Submission)	Name (Printed/Typed) 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 10/04/2024
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 an evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

**BURDEN HOURS STATEMENT:** Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Connection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.



## Additional Operator Remarks

### Location of Well

0. SHL: NENE / 233 FNL / 1297 FEL / TWSP: 24S / RANGE: 30E / SECTION: 22 / LAT: 32.209942 / LONG: -103.864472 ( TVD: 0 feet, MD: 0 feet )

PPP: NENE / 100 FNL / 430 FEL / TWSP: 24S / RANGE: 30E / SECTION: 22 / LAT: 32.210325 / LONG: -103.861669 ( TVD: 9883 feet, MD: 10400 feet )

PPP: NESE / 2632 FSL / 423 FEL / TWSP: 24S / RANGE: 30E / SECTION: 22 / LAT: 32.203357 / LONG: -103.861656 ( TVD: 9883 feet, MD: 13000 feet )

BHL: SENE / 2627 FNL / 429 FEL / TWSP: 24S / RANGE: 30E / SECTION: 34 / LAT: 32.174407 / LONG: -103.861599 ( TVD: 9883 feet, MD: 22714 feet )

### BLM Point of Contact

Name: MARIAH HUGHES

Title: Land Law Examiner

Phone: (575) 234-5972

Email: mhughes@blm.gov

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### **Review and Appeal Rights**

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

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Santa Fe Main Office Phone: (505) 476-3441 Fax: (55) 476-3462 General Information Phone: (505) 629-6116  Online Phone Directory Visit: <a href="https://www.emnrd.nm.gov/ocd/contact-us/">https://www.emnrd.nm.gov/ocd/contact-us/</a>	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	C-102 Revised July 9, 2024 Submit Electronically via OCD Permitting
		Submittal Type: <input type="checkbox"/> Initial Submittal <input type="checkbox"/> Amended Report <input type="checkbox"/> As Drilled

## WELL LOCATION INFORMATION

API Number □□□□□□	Pool Code □□□□	Pool Name □ □□□□□ □□□□□□□□□□ M□□□□□ □□R□□
Property Code	Property Name □□□□R □□□□ □□□□ □□ D□D	Well Number □□□□
OGRID No. □□□□□□	Operator Name □□□ □□RM□□□ □□□R□□□□□□□□	Ground Level Elevation □□□□□
Surface Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input type="checkbox"/> Federal		Mineral Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input type="checkbox"/> Federal

## Surface Location

UL □	Section □□	Township □□□	Range □□□	Lot	Ft. from N/S □□□□□□□	Ft. from E/W □□□□□□□□	Latitude □□□□□□□□	Longitude □□□□□□□□□□	County □DD□
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## Bottom Hole Location

UL □	Section □□	Township □□□	Range □□□	Lot	Ft. from N/S □□□□□□□	Ft. from E/W □□□□□□□	Latitude □□□□□□□□	Longitude □□□□□□□□□□	County □DD□
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Dedicated Acres □□□□□□	Infill or Defining Well □□□□	Defining Well API □□□□□□□□□□	Overlapping Spacing Unit (Y/N) □□	Consolidation Code □
Order Numbers. □□			Well setbacks are under Common Ownership: <input type="checkbox"/> Yes <input type="checkbox"/> No	

## Kick Off Point (KOP)

UL □	Section □□	Township □□□	Range □□□	Lot	Ft. from N/S □□□□□□□	Ft. from E/W □□□□□□□□	Latitude □□□□□□□□	Longitude □□□□□□□□□□	County □DD□
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## First Take Point (FTP)

UL □	Section □□	Township □□□	Range □□□	Lot	Ft. from N/S □□□□□□□	Ft. from E/W □□□□□□□	Latitude □□□□□□□□	Longitude □□□□□□□□□□	County
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## Last Take Point (LTP)

UL □	Section □□	Township □□□	Range □□□	Lot	Ft. from N/S □□□□□□□	Ft. from E/W □□□□□□□	Latitude □□□□□□□□	Longitude □□□□□□□□□□	County □DD□
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Unitized Area or Area of Uniform Interest □M□M□□□□□□□□	Spacing Unit Type <input type="checkbox"/> Horizontal <input type="checkbox"/> Vertical	Ground Floor Elevation: □□□□□
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## OPERATOR CERTIFICATIONS

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.

Samantha Weiss  
Signature Date

□□□ □□□□ □ □□  
Printed Name

□□□ □□□□□□□□□□ □□□□□ □□□□□□  
Email Address

## SURVEYOR CERTIFICATIONS

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

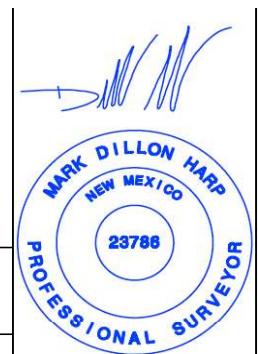
Signature and Seal of Professional Surveyor

Certificate Number

M□R□ D□□□□ □  
□□R□ □□□□

Date of Survey

□□□□□□□□



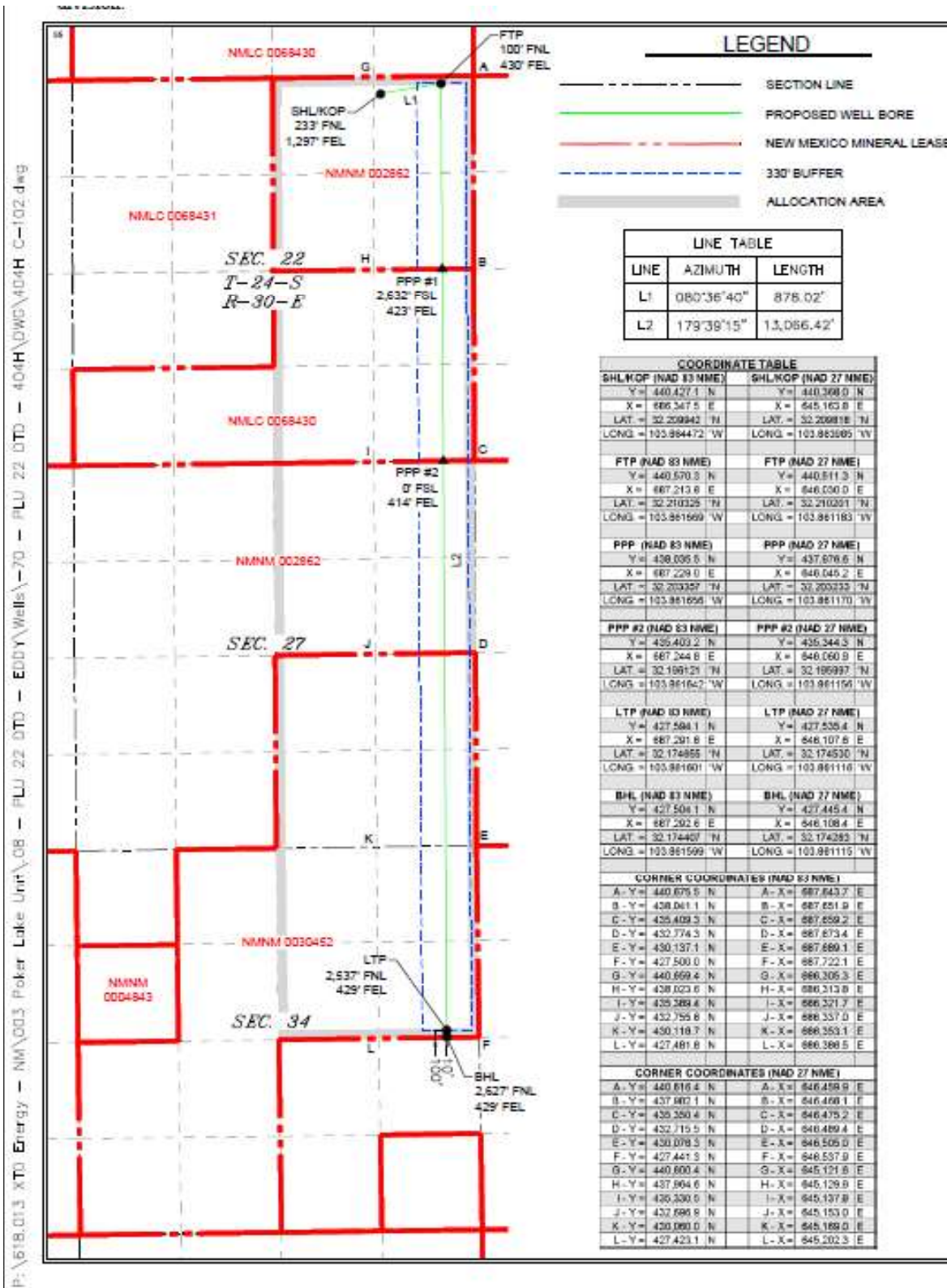
MARK DILLON HARP 23786  
Certificate Number

DB 618.013003.08-70

Note: No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.



State of New Mexico  
Energy, Minerals and Natural Resources Department

Submit Electronically  
Via E-permitting

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

## NATURAL GAS MANAGEMENT PLAN

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

### Section 1 – Plan Description

Effective May 25, 2021

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

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

If Other, please describe: \_\_\_\_\_

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

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

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

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

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

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



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

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

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

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

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

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

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

### **IX. Anticipated Natural Gas Production:**

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

### **X. Natural Gas Gathering System (NGGS):**

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

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

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

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

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

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

### **Section 3 - Certifications**

**Effective May 25, 2021**

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

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

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

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

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

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

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

### **Section 4 - Notices**

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

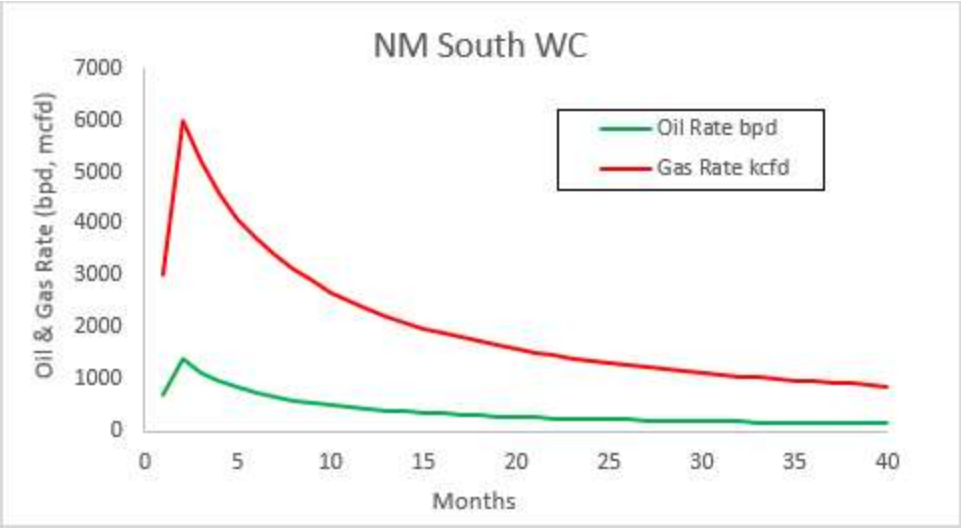
(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit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

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

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

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: 10/03/2024
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

10/07/2024

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

APD ID: 10400097907

Submission Date: 04/11/2024

Operator Name: XTO PERMIAN OPERATING LLC

Highlighted data  
reflects the most  
recent changes

Well Name: POKER LAKE UNIT 22 DTD

Well Number: 404H

Well Type: OIL 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
14265014	QUATERNARY	3430	0	0	ALLUVIUM	USEABLE WATER	N
14265015	RUSTLER	2268	1162	1162	ANHYDRITE, SANDSTONE	USEABLE WATER	N
14265016	SALADO	1865	1565	1565	SALT	NONE	N
14265017	BASE OF SALT	-328	3758	3758	SALT	NONE	N
14265018	DELAWARE	-522	3952	3952	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	N
14265013	BRUSHY CANYON	-3068	6498	6498	SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	N
14265019	BONE SPRING	-4392	7822	7822	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	Y
14265020	BONE SPRING 1ST	-5101	8531	8531	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	Y
14265021	BONE SPRING 2ND	-5686	9116	9116	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	Y
14265012	BONE SPRING 2ND	-6448	9878	9878	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	Y

## Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M

Rating Depth: 9883

**Equipment:** Once the permanent WH is installed on the surface casing, the blow out preventer equipment (BOP) will consist of a 5M Hydril and a 5M Double Ram BOP. XTO will use a Multi-Bowl system which is attached.

Requesting Variance? YES

**Variance request:** A variance is requested to allow use of a flex hose as the choke line from the BOP to the Choke Manifold. If this hose is used, a copy of the manufacturer's certification and pressure test chart will be kept on the rig. Attached is an example of a certification and pressure test chart. The manufacturer does not require anchors. XTO requests a variance to be able to batch drill this well if necessary. In doing so, XTO will set casing and ensure that the well is cemented properly (unless approval is given for offline cementing) and 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



**Operator Name:** XTO PERMIAN OPERATING LLC**Well Name:** POKER LAKE UNIT 22 DTD**Well Number:** 404H

on each of the wells. A variance is requested to ONLY test broken pressure seals on the BOP equipment when moving from wellhead to wellhead which is in compliance with API Standard 53. API standard 53 states, that for pad drilling operation, moving from one wellhead to another within 21 days, pressure testing is required for pressure-containing and pressure-controlling connections when the integrity of a pressure seal is broken. We will request permission to ONLY retest broken pressure seals if the following conditions are met: 1. After a full BOP test is conducted on the first well on the pad 2. When skidding to drill an intermediate section that does not penetrate into the Wolfcamp.

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

**Choke Diagram Attachment:**

PLU\_22\_DTD\_5MCM\_20240406094552.pdf

**BOP Diagram Attachment:**

PLU\_22\_DTD\_5MBOP\_20240523092128.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	1.84	DRY	12.48	DRY	12.48
2	INTERMEDIATE	8.75	7.625	NEW	API	Y	0	9039	0	8967	3411	-5537	9039	L-80	29.7	FJ	2.64	2.14	DRY	2.71	DRY	2.71
3	PRODUCTION	6.75	5.5	NEW	NON API	Y	0	22714	0	9883	3411	-6453	22714	P-110	20	OTHER - Freedom HTQ/Talcon HTQ	2.06	1.05	DRY	2.18	DRY	2.18

### Casing Attachments

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 22 DTDWell Number: 404H

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_404H_Csg_20240406194048.pdf		
Casing ID: 2	String	INTERMEDIATE
Inspection Document:		
Spec Document:		
Tapered String Spec:		
POKER_LAKE_UNIT_22_DTD_404H_Csg_20240406194725.pdf		
Casing Design Assumptions and Worksheet(s):		
POKER_LAKE_UNIT_22_DTD_404H_Csg_20240406194825.pdf		
Casing ID: 3	String	PRODUCTION
Inspection Document:		
Spec Document:		
Freedom_5.5000_20.0000_0.3610__P110_RY_20240709113814.pdf		
Talon_HTQ_RD_5.5000_20.0000_0.3610__P110_RY_20240709113814.pdf		
Tapered String Spec:		
POKER_LAKE_UNIT_22_DTD_404H_Csg_20240406194209.pdf		
Casing Design Assumptions and Worksheet(s):		
POKER_LAKE_UNIT_22_DTD_404H_Csg_20240406194258.pdf		

Section 4 - Cement

**Operator Name:** XTO PERMIAN OPERATING LLC**Well Name:** POKER LAKE UNIT 22 DTD**Well Number:** 404H

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	230	1.35	14.8	310.5	100	Class C	NA
INTERMEDIATE	Tail		6498	9039	730	1.33	14.8	970.9	100	Class C	NA
PRODUCTION	Lead		8739	9239	20	2.69	11.5	53.8	30	NeoCem	NA
PRODUCTION	Tail		9239	22714	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:** 404H

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
9039	2271 4	OIL-BASED MUD	10.5	11							
0	1262	WATER-BASED MUD	8.4	8.9							
3952	9039	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:** 5653

**Anticipated Surface Pressure:** 3478

**Anticipated Bottom Hole Temperature(F):** 185

**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\_20240912084357.pdf

**Operator Name:** XTO PERMIAN OPERATING LLC**Well Name:** POKER LAKE UNIT 22 DTD**Well Number:** 404H**Section 8 - Other Information****Proposed horizontal/directional/multi-lateral plan submission:**

POKER\_LAKE\_UNIT\_22\_DTD\_404H\_DD\_20240406195503.pdf

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

POKER\_LAKE\_UNIT\_22\_DTD\_404H\_Cmt\_20240406195640.pdf

PLU\_22\_DTD\_MBS\_20240610084335.pdf

POKER\_LAKE\_UNIT\_22\_DTD\_404H\_RL\_20240709113324.pdf

PLU\_22\_DTD\_H2S\_DiaA\_20240709113355.pdf

PLU\_22\_DTD\_H2S\_DiaB\_20240709113355.pdf

PLU\_22\_DTD\_H2S\_DiaC\_20240709113355.pdf

PLU\_22\_DTD\_H2S\_DiaD\_20240709113443.pdf

**Other Variance attachment:**

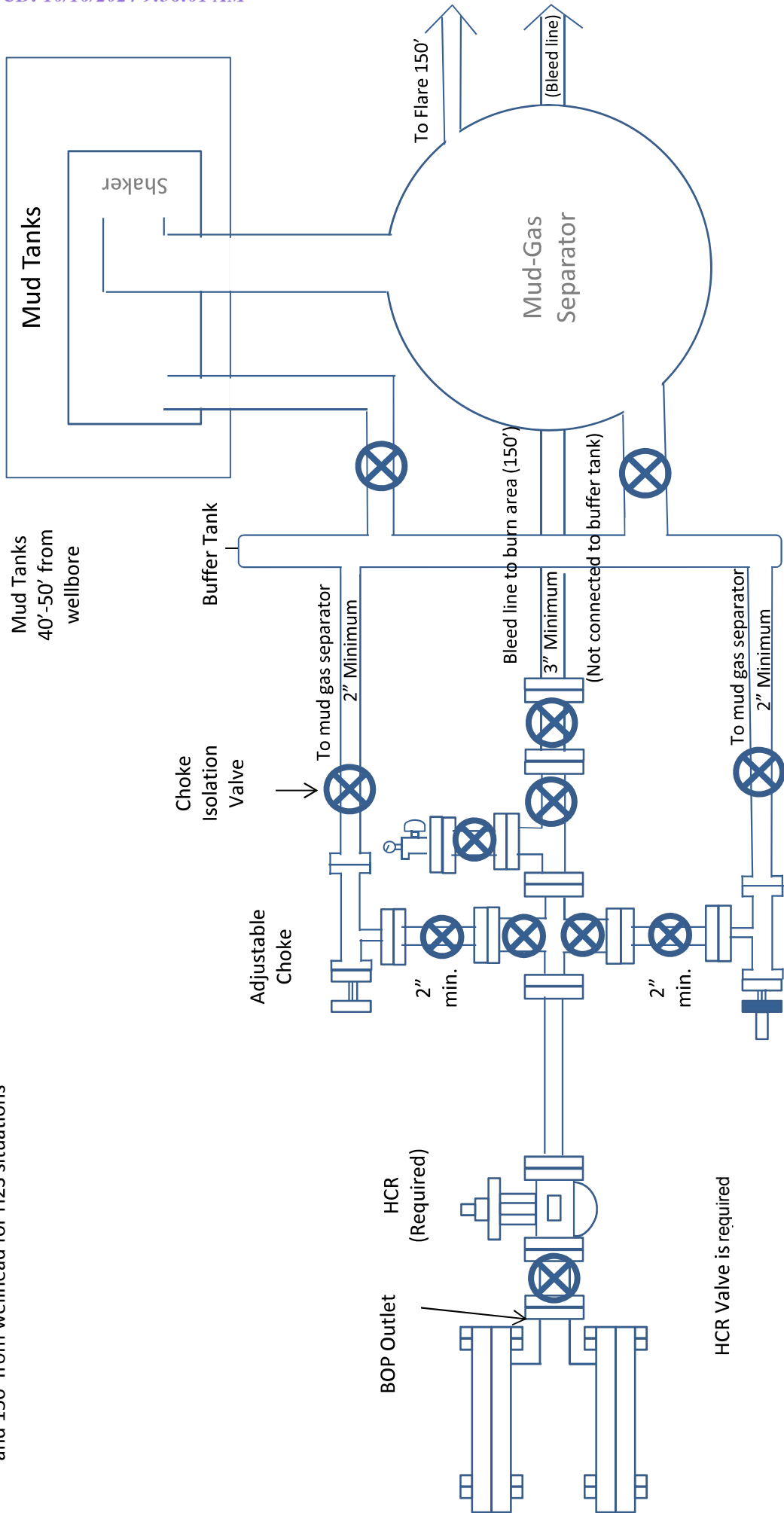
Offline\_Cement\_Variance\_Surf\_\_\_Interm\_Csg\_20240806120913.pdf

Spudder\_Rig\_Request\_20240806120913.pdf

Updated\_Flex\_Hose\_20240806120913.pdf

BOP\_Break\_Test\_Variance\_20240912074216.pdf

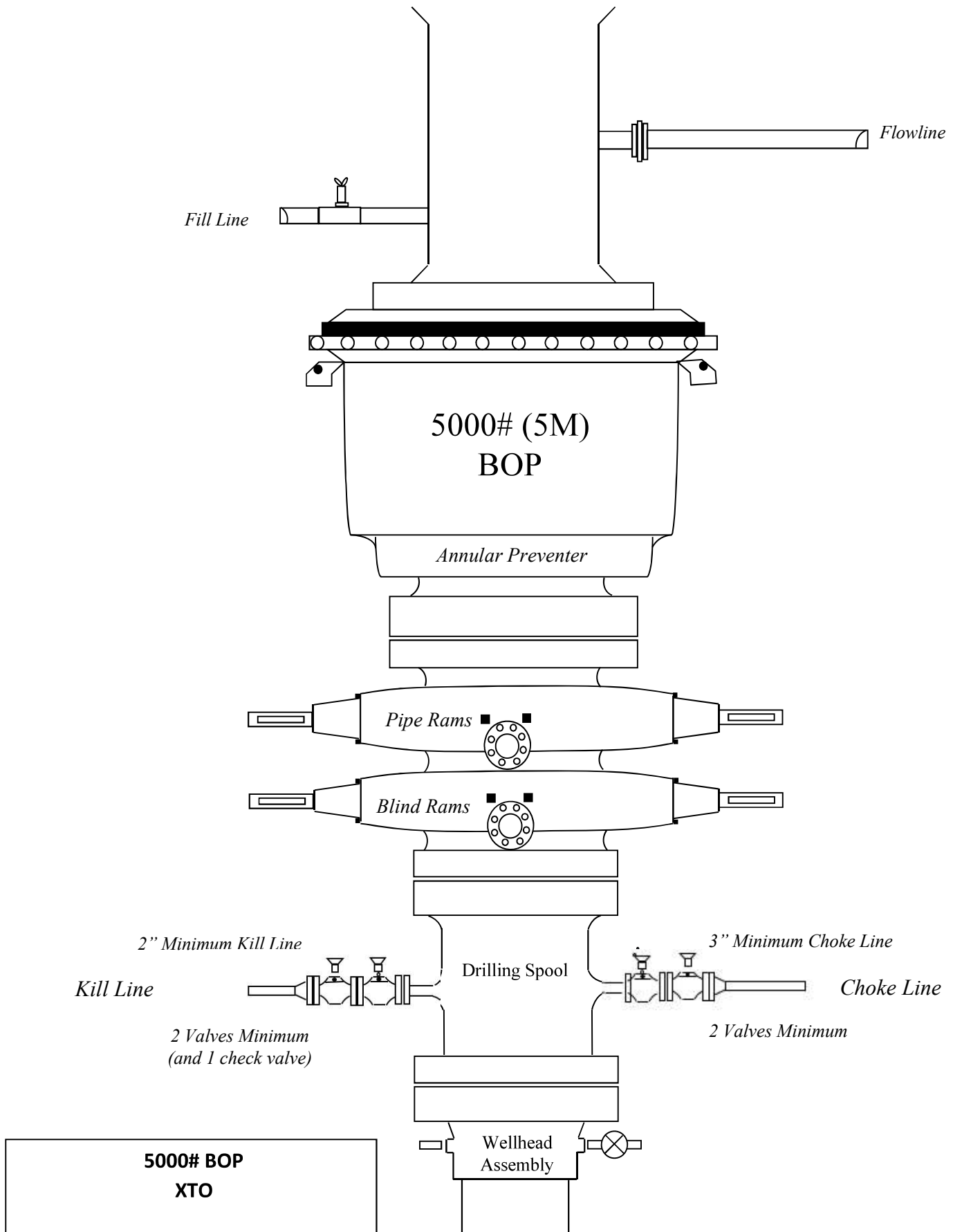
Bleed line will discharge 100' from wellhead for non-H2S situations and 150' from wellhead for H2S situations



5M Choke Manifold Diagram  
XTO

**Drilling Operations  
Choke Manifold  
5M Service**





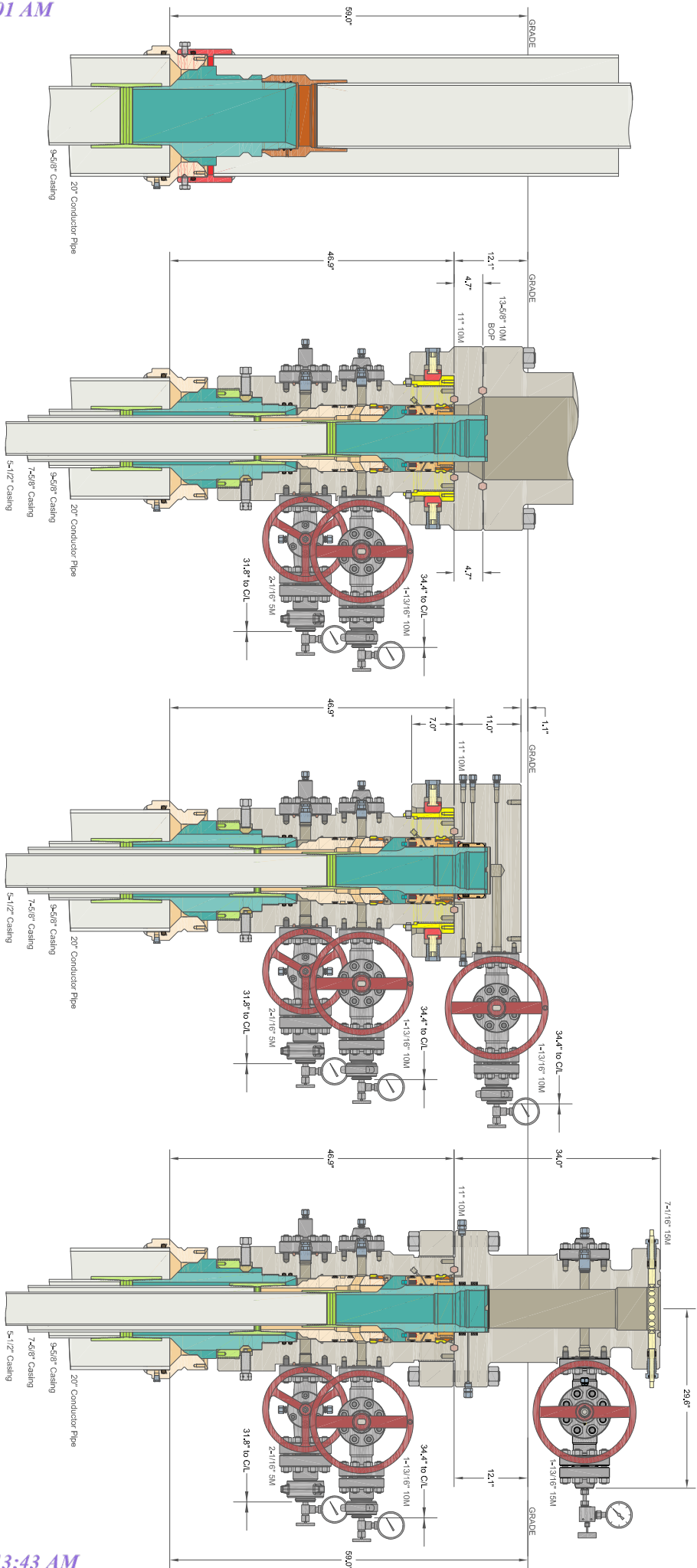
Casing Assumptions

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	1.84	4.99	12.48
8.75	0' – 4000'	7.625	29.7	RY P-110	Flush Joint	New	2.94	2.92	2.08
8.75	4000' – 9039'	7.625	29.7	HC L-80	Flush Joint	New	2.14	2.64	2.71
6.75	0' – 8939'	5.5	20	RY P-110	Semi-Premium	New	1.05	2.27	2.18
6.75	8939' - 22714'	5.5	20	RY P-110	Semi-Flush	New	1.05	2.06	2.18

### Intermediate Casing:

[illegible][illegible]

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CACTUS WELLHEAD LLC		ALL DIMENSIONS APPROXIMATE	
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		XTO ENERGY INC ICARUS PAD	
DRAWN	DLE	18JAN2020	
APPRV			
DRAWING NO.	HBE0000479		

**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.

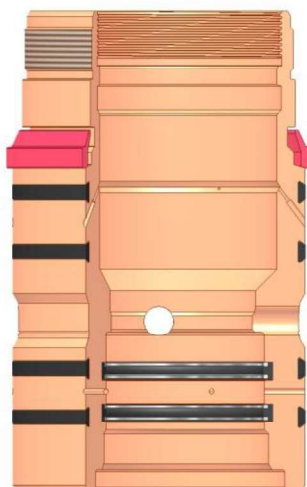
**1. Cement Program**

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

**2. Offline Cementing Procedure**

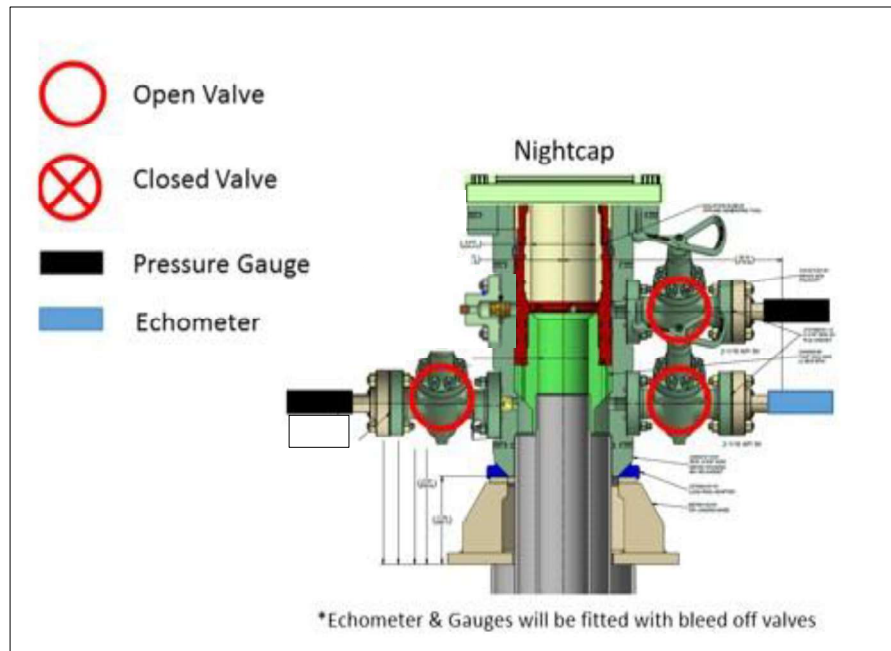
The operational sequence will be as follows. If a well control event occurs, the BLM will be contacted for approval prior to conducting offline cementing operations.

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

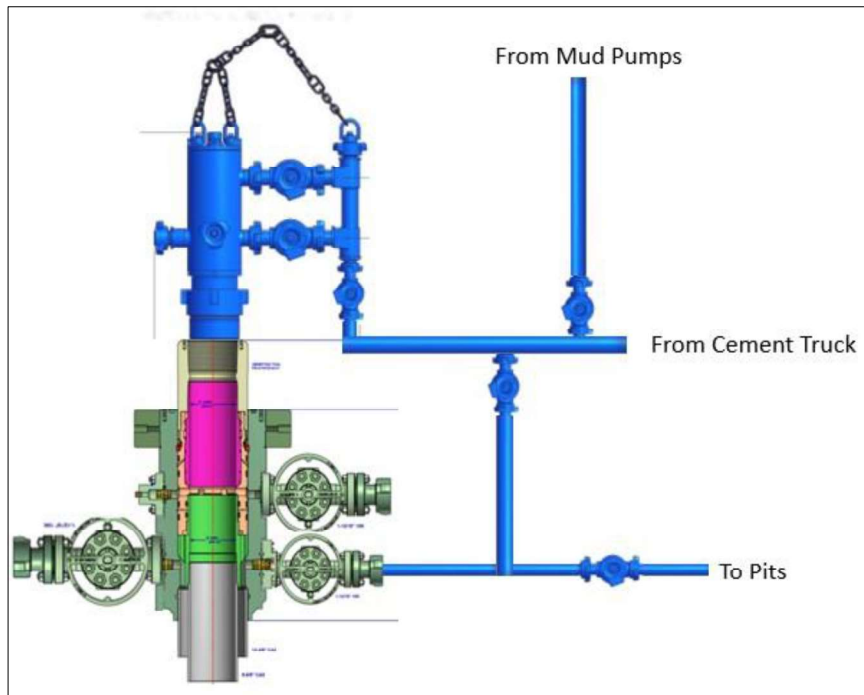
## XTO Permian Operating, LLC Offline Cementing Variance Request



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.

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

Description of Operations:

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

**BLACK GOLD®**

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

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

*NEW CHOKE HOSE  
INSTALLED 02-10-2024*

## CERTIFICATE OF CONFORMANCE

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

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

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

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

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



H3-15/16

1/25/2024 11:48:06 AM

# TEST REPORT

**CUSTOMER**

Company: Nabors Industries Inc.

Production description: 74621/66-1531

Sales order #: 529480

Customer reference: FG1213

**TEST OBJECT**

Serial number: H3-012524-1

Lot number:

Description: 74621/66-1531

Hose ID: 3" 16C CK

Part number:

**TEST INFORMATION**

Test procedure: GTS-04-053

Test pressure: 15000.00 psi

Test pressure hold: 3600.00 sec

Work pressure: 10000.00 psi

Work pressure hold: 900.00 sec

Length difference: 0.00 %

Length difference: 0.00 inch

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

Part number:

Description:

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

Part number:

Description:

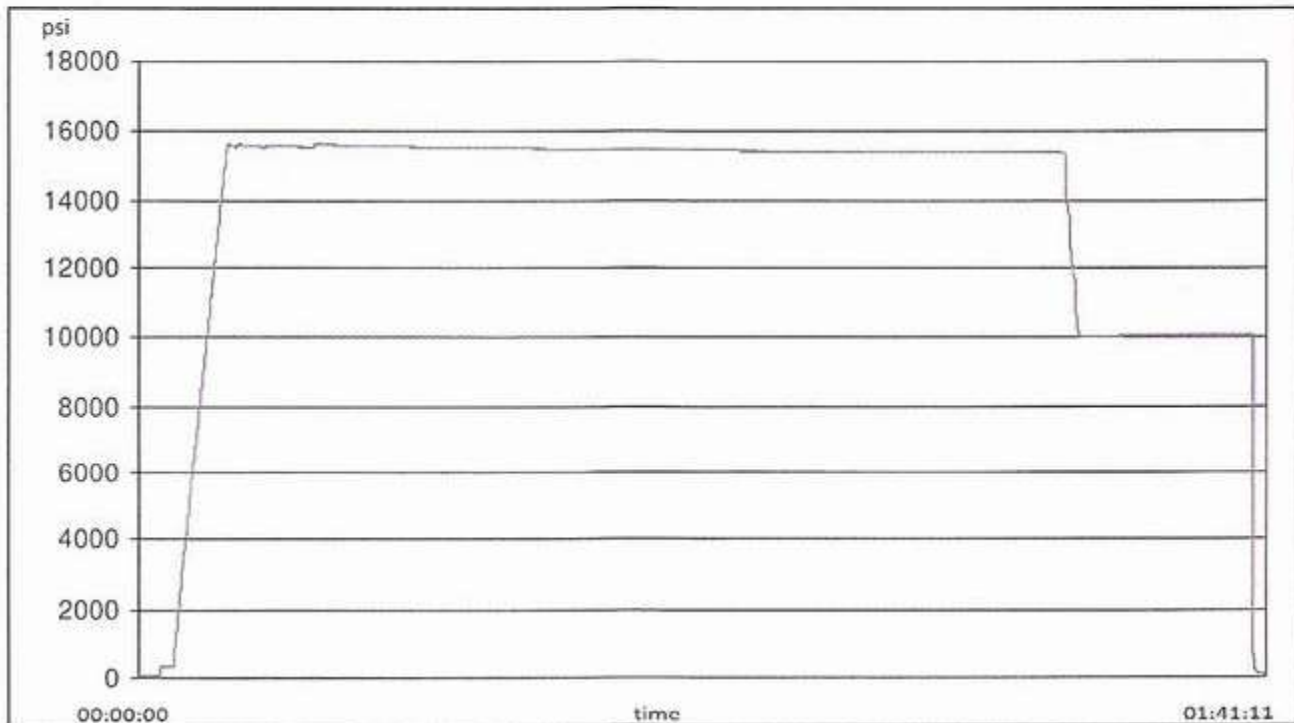
Visual check:

Pressure test result: PASS

Length measurement result:

Length: 45 feet

Test operator: Travis





H3-15/1b

1/25/2024 11:48:06 AM

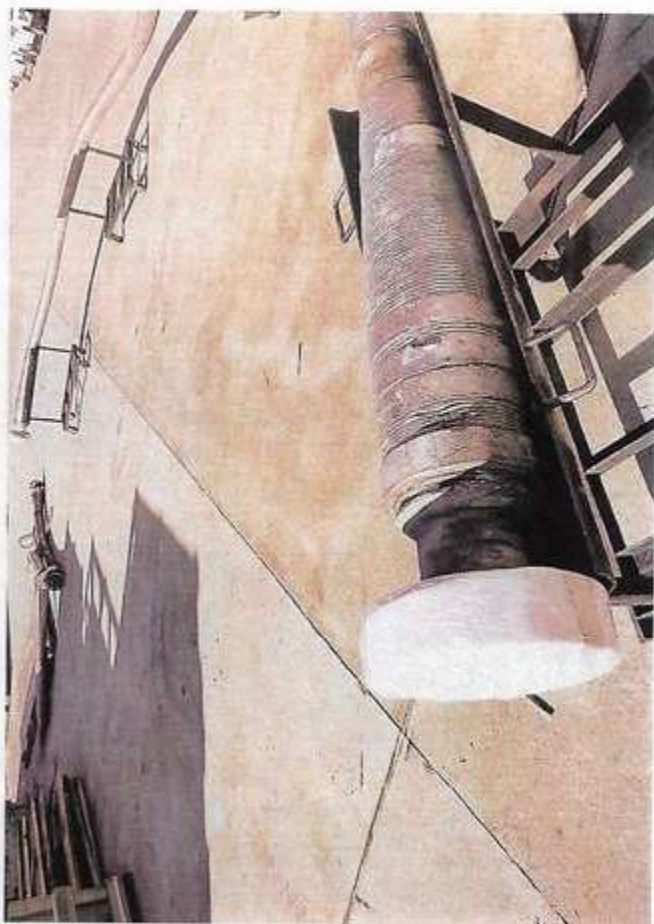
TEST REPORT

GAUGE TRACEABILITY

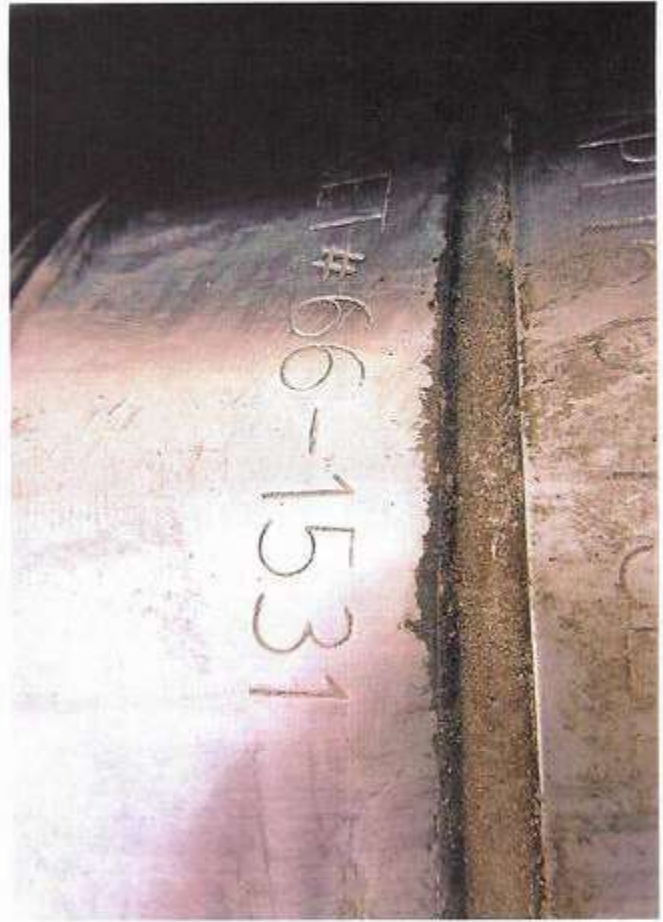
Description	Serial number	Calibration date	Calibration due date
S-25-A-W	110D3PHO	2023-06-06	2024-06-06
S-25-A-W	110IQWDG	2023-05-16	2024-05-16

Comment













**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

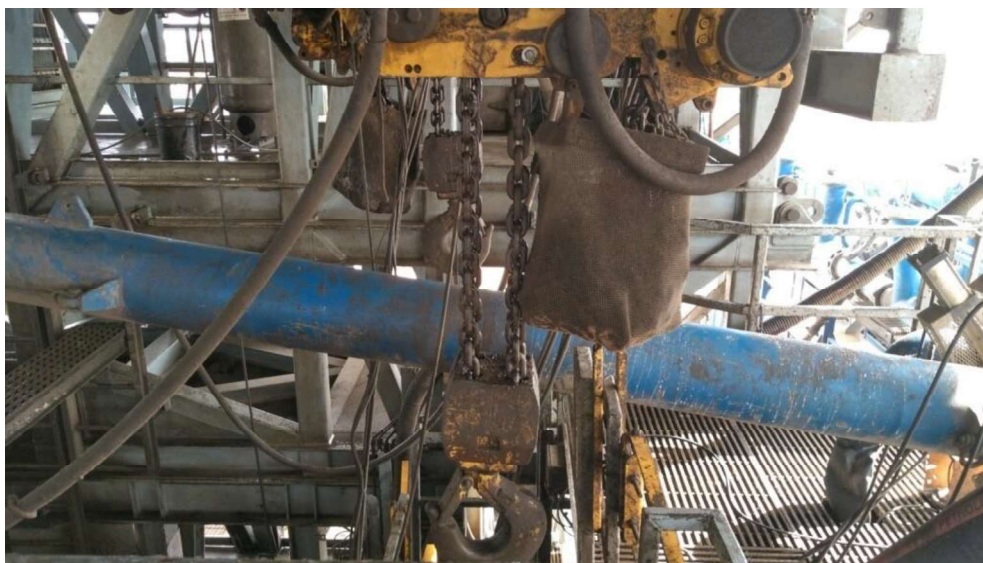


Figure 2: BOP Winch System

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.

62 API STANDARD 53			
Table C.4—Initial Pressure Testing, Surface BOP Stacks			
Component to be Pressure Tested	Pressure Test—Low Pressure <sup>a,c</sup> psig (MPa)	Pressure Test—High Pressure <sup>a,c</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>b,d</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

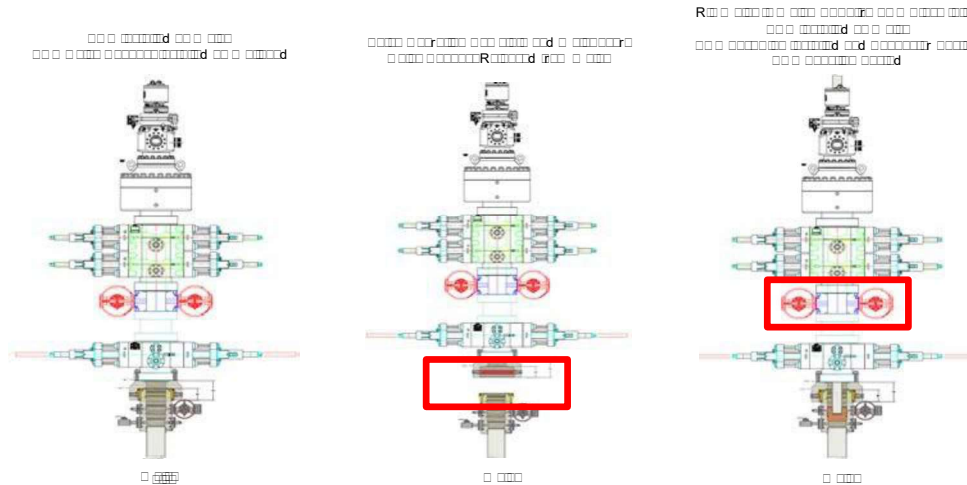
each BOP nipple up, XTO Energy performs a choke drill with the rig crew prior to drilling out every casing shoe. This is additional training for the rig crew that exceeds the requirements of the CFR Title 43 Part 3170.

### **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

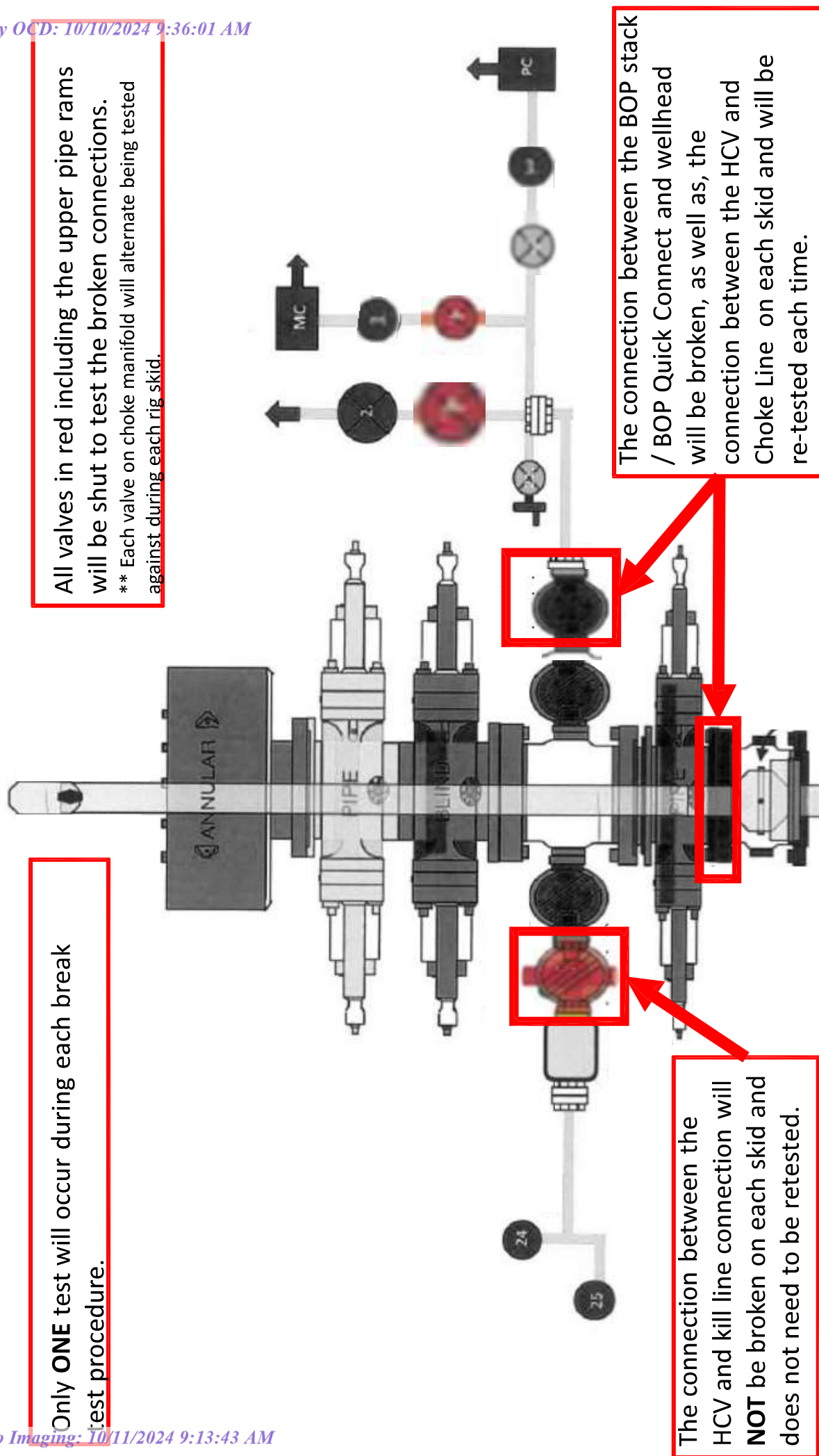
A variance is requested to **ONLY** test broken pressure seals on the BOP equipment when moving from wellhead to wellhead which is in compliance with API Standard 53. API Standard 53 states, that for pad drilling operation, moving from one wellhead to another within 21 days, pressure testing is required 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.





Well Plan Report - Poker Lake Unit 22 DTD South 404H

Measured Depth: 22714.25 ft  
TVD RKB: 9883.00 ft  
Location  
Cartographic Reference System: New Mexico East - NAD 27  
Northing: 440368.00 ft  
Easting: 645163.80 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 404H

Measured Depth (ft)	Inclination (Deg)	Azimuth (Deg)	TVD		Y Offset (ft)	X Offset (ft)	Build		Turn Rate (Deg/100ft)	Dogleg	
			RKB (ft)				Rate (Deg/100ft)			Rate (Deg/100ft)	Target
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	
1587.31	9.75	80.61	1584.97		6.75	40.79	2.00		0.00	2.00	
6285.18	9.75	80.61	6215.03		136.55	825.41	0.00		0.00	0.00	
6772.50	0.00	0.00	6700.00		143.30	866.20	-2.00		0.00	2.00	
9239.30	0.00	0.00	9166.80		143.30	866.20	0.00		0.00	0.00	
10364.30	90.00	179.66	9883.00		-572.88	870.49	8.00		0.00	8.00	
22624.11	90.00	179.66	9883.00		-12832.48	943.88	0.00		0.00	0.00	LTP 26
22714.25	90.00	179.66	9883.00		-12922.61	944.42	0.00		0.00	0.00	BHL 26

Position Uncertainty  
Poker Lake Unit 22 DTD South 404H

Measured	TVD	Highside	Lateral	Vertical	Magnitude	Semi-major	Semi-minor	Semi-Tool
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Depth (ft)	Inclination (°)	Azimuth (°)	RKB (ft)	Error (ft)	Bias (ft)	Error (ft)	Bias (ft)	Error (ft)	Bias (ft)	Error (ft)	Used
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
100.000	0.000	0.000	100.000	0.358	0.000	0.179	0.000	0.358	0.000	0.179	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
200.000	0.000	0.000	200.000	0.717	0.000	0.538	0.000	0.717	0.000	0.538	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
300.000	0.000	0.000	300.000	1.075	0.000	0.896	0.000	1.075	0.000	0.896	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
400.000	0.000	0.000	400.000	1.434	0.000	1.255	0.000	1.434	0.000	1.255	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
500.000	0.000	0.000	500.000	1.792	0.000	1.613	0.000	1.792	0.000	1.613	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
600.000	0.000	0.000	600.000	2.151	0.000	1.972	0.000	2.151	0.000	1.972	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
700.000	0.000	0.000	700.000	2.509	0.000	2.330	0.000	2.509	0.000	2.330	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
800.000	0.000	0.000	800.000	2.868	0.000	2.689	0.000	2.868	0.000	2.689	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
900.000	0.000	0.000	900.000	3.226	0.000	3.047	0.000	3.226	0.000	3.047	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
1000.000	0.000	0.000	1000.000	3.585	0.000	3.405	0.000	3.585	0.000	3.405	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
1100.000	0.000	0.000	1100.000	3.943	0.000	3.764	0.000	3.943	0.000	3.764	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
1200.000	2.000	80.606	1199.980	4.118	0.000	4.290	0.000	4.295	0.000	4.115	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
1300.000	4.000	80.606	1299.838	4.457	0.000	4.636	0.000	4.641	0.000	4.462	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
1400.000	6.000	80.606	1399.452	4.793	0.000	4.984	0.000	4.990	0.000	4.809	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
1500.000	8.000	80.606	1498.702	5.124	0.000	5.334	0.000	5.340	0.000	5.158	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
1587.312	9.746	80.606	1584.966	5.409	0.000	5.641	0.000	5.647	0.000	5.462	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
1600.000	9.746	80.606	1597.470	5.453	0.000	5.686	0.000	5.692	0.000	5.507	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
1700.000	9.746	80.606	1696.027	5.802	0.000	6.039	0.000	6.045	0.000	5.850	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
1800.000	9.746	80.606	1794.584	6.152	0.000	6.393	0.000	6.400	0.000	6.195	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
1900.000	9.746	80.606	1893.140	6.503	0.000	6.748	0.000	6.756	0.000	6.541	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
2000.000	9.746	80.606	1991.697	6.856	0.000	7.105	0.000	7.113	0.000	6.888	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
2100.000	9.746	80.606	2090.254	7.210	0.000	7.462	0.000	7.471	0.000	7.236	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
2200.000	9.746	80.606	2188.810	7.564	0.000	7.820	0.000	7.829	0.000	7.584	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
2300.000	9.746	80.606	2287.367	7.919	0.000	8.179	0.000	8.188	0.000	7.934	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
2400.000	9.746	80.606	2385.924	8.275	0.000	8.538	0.000	8.548	0.000	8.284	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
2500.000	9.746	80.606	2484.481	8.631	0.000	8.898	0.000	8.909	0.000	8.634	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
2600.000	9.746	80.606	2583.037	8.988	0.000	9.258	0.000	9.269	0.000	8.985	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
2700.000	9.746	80.606	2681.594	9.345	0.000	9.619	0.000	9.630	0.000	9.337	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
2800.000	9.746	80.606	2780.151	9.703	0.000	9.980	0.000	9.992	0.000	9.689	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
2900.000	9.746	80.606	2878.707	10.061	0.000	10.341	0.000	10.354	0.000	10.041	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22
3000.000	9.746	80.606	2977.264	10.419	0.000	10.702	0.000	10.716	0.000	10.394	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_22

3100.000	9.746	80.606	3075.821	10.778	0.000	11.064	0.000	4.264	0.000	0.000	11.078	10.746	92.687	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
3200.000	9.746	80.606	3174.378	11.136	0.000	11.426	0.000	4.368	0.000	0.000	11.441	11.100	92.791	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
3300.000	9.746	80.606	3272.934	11.495	0.000	11.788	0.000	4.473	0.000	0.000	11.803	11.453	92.893	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
3400.000	9.746	80.606	3371.491	11.854	0.000	12.150	0.000	4.580	0.000	0.000	12.166	11.806	92.993	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
3500.000	9.746	80.606	3470.048	12.214	0.000	12.513	0.000	4.688	0.000	0.000	12.530	12.160	93.090	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
3600.000	9.746	80.606	3568.604	12.573	0.000	12.875	0.000	4.797	0.000	0.000	12.893	12.514	93.184	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
3700.000	9.746	80.606	3667.161	12.933	0.000	13.238	0.000	4.908	0.000	0.000	13.256	12.868	93.277	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
3800.000	9.746	80.606	3765.718	13.293	0.000	13.601	0.000	5.020	0.000	0.000	13.620	13.222	93.367	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
3900.000	9.746	80.606	3864.275	13.653	0.000	13.964	0.000	5.134	0.000	0.000	13.984	13.577	93.454	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
4000.000	9.746	80.606	3962.831	14.013	0.000	14.327	0.000	5.250	0.000	0.000	14.348	13.931	93.540	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
4100.000	9.746	80.606	4061.388	14.373	0.000	14.690	0.000	5.367	0.000	0.000	14.711	14.286	93.623	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
4200.000	9.746	80.606	4159.945	14.733	0.000	15.053	0.000	5.485	0.000	0.000	15.075	14.640	93.704	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
4300.000	9.746	80.606	4258.501	15.093	0.000	15.417	0.000	5.605	0.000	0.000	15.440	14.995	93.784	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
4400.000	9.746	80.606	4357.058	15.454	0.000	15.780	0.000	5.726	0.000	0.000	15.804	15.350	93.861	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
4500.000	9.746	80.606	4455.615	15.814	0.000	16.144	0.000	5.849	0.000	0.000	16.168	15.705	93.936	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
4600.000	9.746	80.606	4554.172	16.175	0.000	16.508	0.000	5.974	0.000	0.000	16.533	16.060	94.010	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
4700.000	9.746	80.606	4652.728	16.536	0.000	16.871	0.000	6.100	0.000	0.000	16.897	16.416	94.082	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
4800.000	9.746	80.606	4751.285	16.896	0.000	17.235	0.000	6.227	0.000	0.000	17.262	16.771	94.152	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
4900.000	9.746	80.606	4849.842	17.257	0.000	17.599	0.000	6.357	0.000	0.000	17.626	17.126	94.221	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
5000.000	9.746	80.606	4948.398	17.618	0.000	17.963	0.000	6.488	0.000	0.000	17.991	17.482	94.288	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
5100.000	9.746	80.606	5046.955	17.979	0.000	18.327	0.000	6.621	0.000	0.000	18.355	17.837	94.354	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
5200.000	9.746	80.606	5145.512	18.340	0.000	18.691	0.000	6.755	0.000	0.000	18.720	18.193	94.418	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
5300.000	9.746	80.606	5244.069	18.701	0.000	19.055	0.000	6.892	0.000	0.000	19.085	18.548	94.481	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
5400.000	9.746	80.606	5342.625	19.062	0.000	19.419	0.000	7.030	0.000	0.000	19.450	18.904	94.542	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
5500.000	9.746	80.606	5441.182	19.423	0.000	19.783	0.000	7.170	0.000	0.000	19.815	19.260	94.603	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
5600.000	9.746	80.606	5539.739	19.784	0.000	20.147	0.000	7.312	0.000	0.000	20.180	19.616	94.662	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
5700.000	9.746	80.606	5638.295	20.145	0.000	20.511	0.000	7.455	0.000	0.000	20.545	19.971	94.720	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
5800.000	9.746	80.606	5736.852	20.507	0.000	20.875	0.000	7.601	0.000	0.000	20.910	20.327	94.777	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
5900.000	9.746	80.606	5835.409	20.868	0.000	21.239	0.000	7.748	0.000	0.000	21.275	20.683	94.833	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
6000.000	9.746	80.606	5933.966	21.229	0.000	21.604	0.000	7.898	0.000	0.000	21.640	21.039	94.888	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
6100.000	9.746	80.606	6032.522	21.591	0.000	21.968	0.000	8.049	0.000	0.000	22.005	21.395	94.942	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
6200.000	9.746	80.606	6131.079	21.952	0.000	22.332	0.000	8.203	0.000	0.000	22.370	21.752	94.996	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
6285.185	9.746	80.606	6215.034	22.260	0.000	22.643	0.000	8.335	0.000	0.000	22.681	22.055	95.041	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
6300.000	9.450	80.606	6229.642	22.317	0.000	22.697	0.000	8.359	0.000	0.000	22.735	22.108	95.048	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22



6400.000	7.450	80.606	6328.552	22.686	0.000	23.059	0.000	8.516	0.000	0.000	23.099	22.464	95.104	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
6500.000	5.450	80.606	6427.914	23.029	0.000	23.419	0.000	8.672	0.000	0.000	23.459	22.820	95.177	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
6600.000	3.450	80.606	6527.607	23.346	0.000	23.776	0.000	8.825	0.000	0.000	23.816	23.175	95.265	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
6700.000	1.450	80.606	6627.511	23.635	0.000	24.129	0.000	8.977	0.000	0.000	24.170	23.530	95.356	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
6772.497	0.000	0.000	6700.000	24.417	0.000	23.788	0.000	9.085	0.000	0.000	24.423	23.782	95.343	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
6800.000	0.000	0.000	6727.503	24.512	0.000	23.882	0.000	9.126	0.000	0.000	24.517	23.876	95.309	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
6900.000	0.000	0.000	6827.503	24.856	0.000	24.225	0.000	9.275	0.000	0.000	24.861	24.220	95.188	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
7000.000	0.000	0.000	6927.503	25.200	0.000	24.568	0.000	9.428	0.000	0.000	25.205	24.563	95.070	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
7100.000	0.000	0.000	7027.503	25.545	0.000	24.912	0.000	9.583	0.000	0.000	25.550	24.907	94.956	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
7200.000	0.000	0.000	7127.503	25.890	0.000	25.256	0.000	9.741	0.000	0.000	25.895	25.252	94.846	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
7300.000	0.000	0.000	7227.503	26.236	0.000	25.601	0.000	9.902	0.000	0.000	26.240	25.596	94.738	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
7400.000	0.000	0.000	7327.503	26.582	0.000	25.946	0.000	10.065	0.000	0.000	26.586	25.942	94.633	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
7500.000	0.000	0.000	7427.503	26.928	0.000	26.291	0.000	10.232	0.000	0.000	26.932	26.287	94.531	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
7600.000	0.000	0.000	7527.503	27.275	0.000	26.637	0.000	10.401	0.000	0.000	27.278	26.633	94.433	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
7700.000	0.000	0.000	7627.503	27.621	0.000	26.983	0.000	10.573	0.000	0.000	27.625	26.979	94.336	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
7800.000	0.000	0.000	7727.503	27.969	0.000	27.329	0.000	10.747	0.000	0.000	27.972	27.326	94.243	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
7900.000	0.000	0.000	7827.503	28.316	0.000	27.676	0.000	10.925	0.000	0.000	28.319	27.672	94.151	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
8000.000	0.000	0.000	7927.503	28.664	0.000	28.023	0.000	11.105	0.000	0.000	28.667	28.020	94.062	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
8100.000	0.000	0.000	8027.503	29.012	0.000	28.370	0.000	11.289	0.000	0.000	29.015	28.367	93.976	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
8200.000	0.000	0.000	8127.503	29.360	0.000	28.718	0.000	11.475	0.000	0.000	29.363	28.715	93.891	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
8300.000	0.000	0.000	8227.503	29.708	0.000	29.065	0.000	11.664	0.000	0.000	29.711	29.062	93.809	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
8400.000	0.000	0.000	8327.503	30.057	0.000	29.413	0.000	11.856	0.000	0.000	30.060	29.411	93.729	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
8500.000	0.000	0.000	8427.503	30.406	0.000	29.762	0.000	12.051	0.000	0.000	30.409	29.759	93.651	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
8600.000	0.000	0.000	8527.503	30.755	0.000	30.110	0.000	12.249	0.000	0.000	30.758	30.108	93.574	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
8700.000	0.000	0.000	8627.503	31.105	0.000	30.459	0.000	12.450	0.000	0.000	31.107	30.456	93.500	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
8800.000	0.000	0.000	8727.503	31.454	0.000	30.808	0.000	12.654	0.000	0.000	31.457	30.805	93.427	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
8900.000	0.000	0.000	8827.503	31.804	0.000	31.157	0.000	12.860	0.000	0.000	31.806	31.155	93.356	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
9000.000	0.000	0.000	8927.503	32.154	0.000	31.506	0.000	13.070	0.000	0.000	32.156	31.504	93.286	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
9100.000	0.000	0.000	9027.503	32.504	0.000	31.856	0.000	13.283	0.000	0.000	32.506	31.854	93.219	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
9200.000	0.000	0.000	9127.503	32.854	0.000	32.206	0.000	13.499	0.000	0.000	32.856	32.204	93.152	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
9239.297	0.000	0.000	9166.800	32.992	0.000	32.343	0.000	13.584	0.000	0.000	32.994	32.341	93.127	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
9300.000	4.856	179.657	9227.430	33.055	0.000	32.550	-0.000	13.717	0.000	0.000	33.199	32.547	93.094	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
9400.000	12.856	179.657	9326.158	32.714	0.000	32.874	-0.000	13.929	0.000	0.000	33.518	32.872	93.077	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
9500.000	20.856	179.657	9421.784	31.847	0.000	33.188	-0.000	14.130	0.000	0.000	33.820	33.185	93.151	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22

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9600.000	28.856	179.657	9512.446	30.479	0.000	33.485	-0.000	14.316	0.000	0.000	34.096	33.482	93.411	MWD+IFR1+SAG+MS+GS_XTO_PLU	22
9700.000	36.856	179.657	9596.382	28.662	0.000	33.762	-0.000	14.486	0.000	0.000	34.337	33.759	93.982	MWD+IFR1+SAG+MS+GS_XTO_PLU	22
9800.000	44.856	179.657	9671.956	26.466	0.000	34.016	-0.000	14.640	0.000	0.000	34.538	34.011	95.059	MWD+IFR1+SAG+MS+GS_XTO_PLU	22
9900.000	52.856	179.657	9737.697	23.998	0.000	34.242	-0.000	14.778	0.000	0.000	34.698	34.235	96.972	MWD+IFR1+SAG+MS+GS_XTO_PLU	22
10000.000	60.856	179.657	9792.327	21.407	0.000	34.440	-0.000	14.903	0.000	0.000	34.819	34.426	100.289	MWD+IFR1+SAG+MS+GS_XTO_PLU	22
10100.000	68.856	179.657	9834.782	18.911	0.000	34.605	-0.000	15.018	0.000	0.000	34.908	34.579	105.839	MWD+IFR1+SAG+MS+GS_XTO_PLU	22
10200.000	76.856	179.657	9864.235	16.819	0.000	34.737	-0.000	15.124	0.000	0.000	34.977	34.688	114.030	MWD+IFR1+SAG+MS+GS_XTO_PLU	22
10300.000	84.856	179.657	9880.113	15.525	0.000	34.833	-0.000	15.224	0.000	0.000	35.036	34.746	122.907	MWD+IFR1+SAG+MS+GS_XTO_PLU	22
10364.297	90.000	179.657	9882.997	15.286	0.000	34.875	-0.000	15.286	0.000	0.000	35.071	34.759	127.154	MWD+IFR1+SAG+MS+GS_XTO_PLU	22
10400.000	90.000	179.657	9882.997	15.321	0.000	34.894	-0.000	15.321	0.000	0.000	35.089	34.762	129.023	MWD+IFR1+SAG+MS+GS_XTO_PLU	22
10500.000	90.000	179.657	9882.997	15.427	0.000	34.956	-0.000	15.427	0.000	0.000	35.148	34.771	134.105	MWD+IFR1+SAG+MS+GS_XTO_PLU	22
10600.000	90.000	179.657	9882.997	15.546	0.000	35.028	-0.000	15.546	0.000	0.000	35.217	34.780	-41.507	MWD+IFR1+SAG+MS+GS_XTO_PLU	22
10700.000	90.000	179.657	9882.997	15.677	0.000	35.110	-0.000	15.677	0.000	0.000	35.296	34.789	-37.742	MWD+IFR1+SAG+MS+GS_XTO_PLU	22
10800.000	90.000	179.657	9882.997	15.820	0.000	35.201	-0.000	15.820	0.000	0.000	35.384	34.799	-34.517	MWD+IFR1+SAG+MS+GS_XTO_PLU	22
10900.000	90.000	179.657	9882.997	15.975	0.000	35.301	-0.000	15.975	0.000	0.000	35.482	34.809	-31.745	MWD+IFR1+SAG+MS+GS_XTO_PLU	22
11000.000	90.000	179.657	9882.997	16.141	0.000	35.410	-0.000	16.141	0.000	0.000	35.590	34.819	-29.353	MWD+IFR1+SAG+MS+GS_XTO_PLU	22
11100.000	90.000	179.657	9882.997	16.319	0.000	35.529	-0.000	16.319	0.000	0.000	35.707	34.830	-27.275	MWD+IFR1+SAG+MS+GS_XTO_PLU	22
11200.000	90.000	179.657	9882.997	16.506	0.000	35.656	-0.000	16.506	0.000	0.000	35.833	34.841	-25.460	MWD+IFR1+SAG+MS+GS_XTO_PLU	22
11300.000	90.000	179.657	9882.997	16.704	0.000	35.793	-0.000	16.704	0.000	0.000	35.969	34.852	-23.863	MWD+IFR1+SAG+MS+GS_XTO_PLU	22
11400.000	90.000	179.657	9882.997	16.912	0.000	35.939	-0.000	16.912	0.000	0.000	36.113	34.864	-22.450	MWD+IFR1+SAG+MS+GS_XTO_PLU	22
11500.000	90.000	179.657	9882.997	17.130	0.000	36.093	-0.000	17.130	0.000	0.000	36.266	34.877	-21.191	MWD+IFR1+SAG+MS+GS_XTO_PLU	22
11600.000	90.000	179.657	9882.997	17.356	0.000	36.256	-0.000	17.356	0.000	0.000	36.428	34.890	-20.065	MWD+IFR1+SAG+MS+GS_XTO_PLU	22
11700.000	90.000	179.657	9882.997	17.592	0.000	36.427	-0.000	17.592	0.000	0.000	36.598	34.904	-19.051	MWD+IFR1+SAG+MS+GS_XTO_PLU	22
11800.000	90.000	179.657	9882.997	17.836	0.000	36.607	-0.000	17.836	0.000	0.000	36.777	34.918	-18.135	MWD+IFR1+SAG+MS+GS_XTO_PLU	22
11900.000	90.000	179.657	9882.997	18.088	0.000	36.795	-0.000	18.088	0.000	0.000	36.964	34.933	-17.302	MWD+IFR1+SAG+MS+GS_XTO_PLU	22
12000.000	90.000	179.657	9882.997	18.347	0.000	36.992	-0.000	18.347	0.000	0.000	37.159	34.949	-16.543	MWD+IFR1+SAG+MS+GS_XTO_PLU	22
12100.000	90.000	179.657	9882.997	18.615	0.000	37.196	-0.000	18.615	0.000	0.000	37.362	34.965	-15.848	MWD+IFR1+SAG+MS+GS_XTO_PLU	22
12200.000	90.000	179.657	9882.997	18.889	0.000	37.409	-0.000	18.889	0.000	0.000	37.574	34.981	-15.210	MWD+IFR1+SAG+MS+GS_XTO_PLU	22
12300.000	90.000	179.657	9882.997	19.170	0.000	37.629	-0.000	19.170	0.000	0.000	37.793	34.999	-14.621	MWD+IFR1+SAG+MS+GS_XTO_PLU	22
12400.000	90.000	179.657	9882.997	19.458	0.000	37.856	-0.000	19.458	0.000	0.000	38.019	35.017	-14.077	MWD+IFR1+SAG+MS+GS_XTO_PLU	22
12500.000	90.000	179.657	9882.997	19.752	0.000	38.092	-0.000	19.752	0.000	0.000	38.253	35.035	-13.573	MWD+IFR1+SAG+MS+GS_XTO_PLU	22
12600.000	90.000	179.657	9882.997	20.052	0.000	38.334	-0.000	20.052	0.000	0.000	38.495	35.054	-13.104	MWD+IFR1+SAG+MS+GS_XTO_PLU	22
12700.000	90.000	179.657	9882.997	20.358	0.000	38.584	-0.000	20.358	0.000	0.000	38.744	35.074	-12.667	MWD+IFR1+SAG+MS+GS_XTO_PLU	22
12800.000	90.000	179.657	9882.997	20.670	0.000	38.841	-0.000	20.670	0.000	0.000	38.999	35.094	-12.258	MWD+IFR1+SAG+MS+GS_XTO_PLU	22

12900.000	90.000	179.657	9882.997	20.986	0.000	39.105	-0.000	20.986	0.000	0.000	39.262	35.115	-11.876	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
13000.000	90.000	179.657	9882.997	21.308	0.000	39.376	-0.000	21.308	0.000	0.000	39.532	35.137	-11.517	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
13100.000	90.000	179.657	9882.997	21.634	0.000	39.653	-0.000	21.634	0.000	0.000	39.808	35.159	-11.180	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
13200.000	90.000	179.657	9882.997	21.965	0.000	39.937	-0.000	21.965	0.000	0.000	40.091	35.182	-10.863	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
13300.000	90.000	179.657	9882.997	22.300	0.000	40.227	-0.000	22.300	0.000	0.000	40.380	35.205	-10.563	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
13400.000	90.000	179.657	9882.997	22.639	0.000	40.523	-0.000	22.639	0.000	0.000	40.675	35.229	-10.280	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
13500.000	90.000	179.657	9882.997	22.982	0.000	40.826	-0.000	22.982	0.000	0.000	40.977	35.254	-10.012	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
13600.000	90.000	179.657	9882.997	23.329	0.000	41.135	-0.000	23.329	0.000	0.000	41.284	35.279	-9.758	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
13700.000	90.000	179.657	9882.997	23.680	0.000	41.449	-0.000	23.680	0.000	0.000	41.597	35.305	-9.518	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
13800.000	90.000	179.657	9882.997	24.034	0.000	41.769	-0.000	24.034	0.000	0.000	41.916	35.331	-9.289	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
13900.000	90.000	179.657	9882.997	24.392	0.000	42.095	-0.000	24.392	0.000	0.000	42.241	35.358	-9.071	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
14000.000	90.000	179.657	9882.997	24.753	0.000	42.426	-0.000	24.753	0.000	0.000	42.571	35.386	-8.863	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
14100.000	90.000	179.657	9882.997	25.116	0.000	42.763	-0.000	25.116	0.000	0.000	42.906	35.414	-8.666	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
14200.000	90.000	179.657	9882.997	25.483	0.000	43.105	-0.000	25.483	0.000	0.000	43.247	35.443	-8.477	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
14300.000	90.000	179.657	9882.997	25.852	0.000	43.451	-0.000	25.852	0.000	0.000	43.593	35.472	-8.296	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
14400.000	90.000	179.657	9882.997	26.224	0.000	43.803	-0.000	26.224	0.000	0.000	43.943	35.502	-8.123	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
14500.000	90.000	179.657	9882.997	26.599	0.000	44.160	-0.000	26.599	0.000	0.000	44.299	35.533	-7.958	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
14600.000	90.000	179.657	9882.997	26.976	0.000	44.521	-0.000	26.976	0.000	0.000	44.659	35.564	-7.800	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
14700.000	90.000	179.657	9882.997	27.356	0.000	44.887	-0.000	27.356	0.000	0.000	45.024	35.596	-7.648	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
14800.000	90.000	179.657	9882.997	27.737	0.000	45.258	-0.000	27.737	0.000	0.000	45.393	35.628	-7.502	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
14900.000	90.000	179.657	9882.997	28.121	0.000	45.632	-0.000	28.121	0.000	0.000	45.767	35.661	-7.361	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
15000.000	90.000	179.657	9882.997	28.507	0.000	46.012	-0.000	28.507	0.000	0.000	46.145	35.695	-7.226	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
15100.000	90.000	179.657	9882.997	28.895	0.000	46.395	-0.000	28.895	0.000	0.000	46.527	35.729	-7.097	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
15200.000	90.000	179.657	9882.997	29.285	0.000	46.782	-0.000	29.285	0.000	0.000	46.913	35.763	-6.972	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
15300.000	90.000	179.657	9882.997	29.677	0.000	47.174	-0.000	29.677	0.000	0.000	47.304	35.799	-6.851	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
15400.000	90.000	179.657	9882.997	30.070	0.000	47.569	-0.000	30.070	0.000	0.000	47.698	35.835	-6.735	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
15500.000	90.000	179.657	9882.997	30.465	0.000	47.968	-0.000	30.465	0.000	0.000	48.096	35.871	-6.623	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
15600.000	90.000	179.657	9882.997	30.862	0.000	48.371	-0.000	30.862	0.000	0.000	48.498	35.908	-6.514	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
15700.000	90.000	179.657	9882.997	31.260	0.000	48.777	-0.000	31.260	0.000	0.000	48.903	35.946	-6.410	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
15800.000	90.000	179.657	9882.997	31.660	0.000	49.187	-0.000	31.660	0.000	0.000	49.312	35.984	-6.309	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
15900.000	90.000	179.657	9882.997	32.062	0.000	49.600	-0.000	32.062	0.000	0.000	49.724	36.023	-6.211	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
16000.000	90.000	179.657	9882.997	32.464	0.000	50.017	-0.000	32.464	0.000	0.000	50.139	36.062	-6.116	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
16100.000	90.000	179.657	9882.997	32.868	0.000	50.437	-0.000	32.868	0.000	0.000	50.558	36.102	-6.025	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22
16200.000	90.000	179.657	9882.997	33.274	0.000	50.860	-0.000	33.274	0.000	0.000	50.980	36.143	-5.936	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_22

16300.000	90.000	179.657	9882.997	33.680	0.000	51.286	-0.000	33.680	0.000	0.000	51.405	36.184	-5.850	MWD+IFR1+SAG+MS+GS_XTO_PLU	DTD_22
16400.000	90.000	179.657	9882.997	34.088	0.000	51.715	-0.000	34.088	0.000	0.000	51.833	36.225	-5.766	MWD+IFR1+SAG+MS+GS_XTO_PLU	DTD_22
16500.000	90.000	179.657	9882.997	34.497	0.000	52.147	-0.000	34.497	0.000	0.000	52.264	36.267	-5.685	MWD+IFR1+SAG+MS+GS_XTO_PLU	DTD_22
16600.000	90.000	179.657	9882.997	34.907	0.000	52.582	-0.000	34.907	0.000	0.000	52.698	36.310	-5.607	MWD+IFR1+SAG+MS+GS_XTO_PLU	DTD_22
16700.000	90.000	179.657	9882.997	35.318	0.000	53.020	-0.000	35.318	0.000	0.000	53.135	36.353	-5.530	MWD+IFR1+SAG+MS+GS_XTO_PLU	DTD_22
16800.000	90.000	179.657	9882.997	35.731	0.000	53.460	-0.000	35.731	0.000	0.000	53.575	36.397	-5.456	MWD+IFR1+SAG+MS+GS_XTO_PLU	DTD_22
16900.000	90.000	179.657	9882.997	36.144	0.000	53.903	-0.000	36.144	0.000	0.000	54.017	36.442	-5.384	MWD+IFR1+SAG+MS+GS_XTO_PLU	DTD_22
17000.000	90.000	179.657	9882.997	36.558	0.000	54.349	-0.000	36.558	0.000	0.000	54.462	36.487	-5.314	MWD+IFR1+SAG+MS+GS_XTO_PLU	DTD_22
17100.000	90.000	179.657	9882.997	36.973	0.000	54.797	-0.000	36.973	0.000	0.000	54.909	36.532	-5.246	MWD+IFR1+SAG+MS+GS_XTO_PLU	DTD_22
17200.000	90.000	179.657	9882.997	37.389	0.000	55.248	-0.000	37.389	0.000	0.000	55.359	36.578	-5.180	MWD+IFR1+SAG+MS+GS_XTO_PLU	DTD_22
17300.000	90.000	179.657	9882.997	37.806	0.000	55.701	-0.000	37.806	0.000	0.000	55.811	36.625	-5.115	MWD+IFR1+SAG+MS+GS_XTO_PLU	DTD_22
17400.000	90.000	179.657	9882.997	38.224	0.000	56.156	-0.000	38.224	0.000	0.000	56.266	36.672	-5.053	MWD+IFR1+SAG+MS+GS_XTO_PLU	DTD_22
17500.000	90.000	179.657	9882.997	38.643	0.000	56.614	-0.000	38.643	0.000	0.000	56.723	36.720	-4.991	MWD+IFR1+SAG+MS+GS_XTO_PLU	DTD_22
17600.000	90.000	179.657	9882.997	39.062	0.000	57.074	-0.000	39.062	0.000	0.000	57.182	36.768	-4.932	MWD+IFR1+SAG+MS+GS_XTO_PLU	DTD_22
17700.000	90.000	179.657	9882.997	39.482	0.000	57.537	-0.000	39.482	0.000	0.000	57.643	36.817	-4.874	MWD+IFR1+SAG+MS+GS_XTO_PLU	DTD_22
17800.000	90.000	179.657	9882.997	39.903	0.000	58.001	-0.000	39.903	0.000	0.000	58.107	36.866	-4.817	MWD+IFR1+SAG+MS+GS_XTO_PLU	DTD_22
17900.000	90.000	179.657	9882.997	40.325	0.000	58.467	-0.000	40.325	0.000	0.000	58.572	36.916	-4.762	MWD+IFR1+SAG+MS+GS_XTO_PLU	DTD_22
18000.000	90.000	179.657	9882.997	40.748	0.000	58.936	-0.000	40.748	0.000	0.000	59.040	36.966	-4.708	MWD+IFR1+SAG+MS+GS_XTO_PLU	DTD_22
18100.000	90.000	179.657	9882.997	41.171	0.000	59.406	-0.000	41.171	0.000	0.000	59.510	37.017	-4.655	MWD+IFR1+SAG+MS+GS_XTO_PLU	DTD_22
18200.000	90.000	179.657	9882.997	41.594	0.000	59.879	-0.000	41.594	0.000	0.000	59.981	37.069	-4.604	MWD+IFR1+SAG+MS+GS_XTO_PLU	DTD_22
18300.000	90.000	179.657	9882.997	42.019	0.000	60.353	-0.000	42.019	0.000	0.000	60.455	37.120	-4.554	MWD+IFR1+SAG+MS+GS_XTO_PLU	DTD_22
18400.000	90.000	179.657	9882.997	42.444	0.000	60.829	-0.000	42.444	0.000	0.000	60.930	37.173	-4.505	MWD+IFR1+SAG+MS+GS_XTO_PLU	DTD_22
18500.000	90.000	179.657	9882.997	42.869	0.000	61.307	-0.000	42.869	0.000	0.000	61.407	37.226	-4.457	MWD+IFR1+SAG+MS+GS_XTO_PLU	DTD_22
18600.000	90.000	179.657	9882.997	43.296	0.000	61.787	-0.000	43.296	0.000	0.000	61.886	37.279	-4.410	MWD+IFR1+SAG+MS+GS_XTO_PLU	DTD_22
18700.000	90.000	179.657	9882.997	43.722	0.000	62.268	-0.000	43.722	0.000	0.000	62.367	37.333	-4.364	MWD+IFR1+SAG+MS+GS_XTO_PLU	DTD_22
18800.000	90.000	179.657	9882.997	44.150	0.000	62.752	-0.000	44.150	0.000	0.000	62.849	37.388	-4.320	MWD+IFR1+SAG+MS+GS_XTO_PLU	DTD_22
18900.000	90.000	179.657	9882.997	44.577	0.000	63.236	-0.000	44.577	0.000	0.000	63.333	37.443	-4.276	MWD+IFR1+SAG+MS+GS_XTO_PLU	DTD_22
19000.000	90.000	179.657	9882.997	45.006	0.000	63.723	-0.000	45.006	0.000	0.000	63.819	37.499	-4.233	MWD+IFR1+SAG+MS+GS_XTO_PLU	DTD_22
19100.000	90.000	179.657	9882.997	45.435	0.000	64.211	-0.000	45.435	0.000	0.000	64.306	37.555	-4.191	MWD+IFR1+SAG+MS+GS_XTO_PLU	DTD_22
19200.000	90.000	179.657	9882.997	45.864	0.000	64.700	-0.000	45.864	0.000	0.000	64.795	37.611	-4.150	MWD+IFR1+SAG+MS+GS_XTO_PLU	DTD_22
19300.000	90.000	179.657	9882.997	46.294	0.000	65.191	-0.000	46.294	0.000	0.000	65.285	37.668	-4.110	MWD+IFR1+SAG+MS+GS_XTO_PLU	DTD_22
19400.000	90.000	179.657	9882.997	46.724	0.000	65.684	-0.000	46.724	0.000	0.000	65.777	37.726	-4.071	MWD+IFR1+SAG+MS+GS_XTO_PLU	DTD_22
19500.000	90.000	179.657	9882.997	47.155	0.000	66.178	-0.000	47.155	0.000	0.000	66.271	37.784	-4.032	MWD+IFR1+SAG+MS+GS_XTO_PLU	DTD_22
19600.000	90.000	179.657	9882.997	47.586	0.000	66.673	-0.000	47.586	0.000	0.000	66.765	37.843	-3.995	MWD+IFR1+SAG+MS+GS_XTO_PLU	DTD_22

19700.000	90.000	179.657	9882.997	48.018	0.000	67.170	-0.000	48.018	0.000	0.000	67.261	37.902	-3.958	MWD+IFR1+SAG+MS+GS_XTO_PLU	DTD_22
19800.000	90.000	179.657	9882.997	48.450	0.000	67.668	-0.000	48.450	0.000	0.000	67.759	37.961	-3.922	MWD+IFR1+SAG+MS+GS_XTO_PLU	DTD_22
19900.000	90.000	179.657	9882.997	48.882	0.000	68.167	-0.000	48.882	0.000	0.000	68.257	38.021	-3.886	MWD+IFR1+SAG+MS+GS_XTO_PLU	DTD_22
20000.000	90.000	179.657	9882.997	49.315	0.000	68.668	-0.000	49.315	0.000	0.000	68.757	38.082	-3.852	MWD+IFR1+SAG+MS+GS_XTO_PLU	DTD_22
20100.000	90.000	179.657	9882.997	49.748	0.000	69.170	-0.000	49.748	0.000	0.000	69.259	38.143	-3.817	MWD+IFR1+SAG+MS+GS_XTO_PLU	DTD_22
20200.000	90.000	179.657	9882.997	50.182	0.000	69.673	-0.000	50.182	0.000	0.000	69.761	38.204	-3.784	MWD+IFR1+SAG+MS+GS_XTO_PLU	DTD_22
20300.000	90.000	179.657	9882.997	50.616	0.000	70.177	-0.000	50.616	0.000	0.000	70.265	38.266	-3.751	MWD+IFR1+SAG+MS+GS_XTO_PLU	DTD_22
20400.000	90.000	179.657	9882.997	51.050	0.000	70.683	-0.000	51.050	0.000	0.000	70.770	38.329	-3.719	MWD+IFR1+SAG+MS+GS_XTO_PLU	DTD_22
20500.000	90.000	179.657	9882.997	51.485	0.000	71.190	-0.000	51.485	0.000	0.000	71.276	38.392	-3.687	MWD+IFR1+SAG+MS+GS_XTO_PLU	DTD_22
20600.000	90.000	179.657	9882.997	51.920	0.000	71.697	-0.000	51.920	0.000	0.000	71.783	38.455	-3.656	MWD+IFR1+SAG+MS+GS_XTO_PLU	DTD_22
20700.000	90.000	179.657	9882.997	52.355	0.000	72.206	-0.000	52.355	0.000	0.000	72.291	38.519	-3.626	MWD+IFR1+SAG+MS+GS_XTO_PLU	DTD_22
20800.000	90.000	179.657	9882.997	52.791	0.000	72.716	-0.000	52.791	0.000	0.000	72.801	38.583	-3.596	MWD+IFR1+SAG+MS+GS_XTO_PLU	DTD_22
20900.000	90.000	179.657	9882.997	53.227	0.000	73.227	-0.000	53.227	0.000	0.000	73.311	38.648	-3.567	MWD+IFR1+SAG+MS+GS_XTO_PLU	DTD_22
21000.000	90.000	179.657	9882.997	53.663	0.000	73.739	-0.000	53.663	0.000	0.000	73.823	38.713	-3.538	MWD+IFR1+SAG+MS+GS_XTO_PLU	DTD_22
21100.000	90.000	179.657	9882.997	54.100	0.000	74.253	-0.000	54.100	0.000	0.000	74.335	38.779	-3.510	MWD+IFR1+SAG+MS+GS_XTO_PLU	DTD_22
21200.000	90.000	179.657	9882.997	54.537	0.000	74.767	-0.000	54.537	0.000	0.000	74.849	38.845	-3.482	MWD+IFR1+SAG+MS+GS_XTO_PLU	DTD_22
21300.000	90.000	179.657	9882.997	54.974	0.000	75.282	-0.000	54.974	0.000	0.000	75.363	38.912	-3.455	MWD+IFR1+SAG+MS+GS_XTO_PLU	DTD_22
21400.000	90.000	179.657	9882.997	55.411	0.000	75.798	-0.000	55.411	0.000	0.000	75.879	38.979	-3.428	MWD+IFR1+SAG+MS+GS_XTO_PLU	DTD_22
21500.000	90.000	179.657	9882.997	55.849	0.000	76.315	-0.000	55.849	0.000	0.000	76.395	39.046	-3.401	MWD+IFR1+SAG+MS+GS_XTO_PLU	DTD_22
21600.000	90.000	179.657	9882.997	56.287	0.000	76.833	-0.000	56.287	0.000	0.000	76.912	39.114	-3.376	MWD+IFR1+SAG+MS+GS_XTO_PLU	DTD_22
21700.000	90.000	179.657	9882.997	56.725	0.000	77.351	-0.000	56.725	0.000	0.000	77.431	39.183	-3.350	MWD+IFR1+SAG+MS+GS_XTO_PLU	DTD_22
21800.000	90.000	179.657	9882.997	57.164	0.000	77.871	-0.000	57.164	0.000	0.000	77.950	39.252	-3.325	MWD+IFR1+SAG+MS+GS_XTO_PLU	DTD_22
21900.000	90.000	179.657	9882.997	57.602	0.000	78.391	-0.000	57.602	0.000	0.000	78.470	39.321	-3.300	MWD+IFR1+SAG+MS+GS_XTO_PLU	DTD_22
22000.000	90.000	179.657	9882.997	58.041	0.000	78.913	-0.000	58.041	0.000	0.000	78.991	39.391	-3.276	MWD+IFR1+SAG+MS+GS_XTO_PLU	DTD_22
22100.000	90.000	179.657	9882.997	58.480	0.000	79.435	-0.000	58.480	0.000	0.000	79.512	39.461	-3.252	MWD+IFR1+SAG+MS+GS_XTO_PLU	DTD_22
22200.000	90.000	179.657	9882.997	58.920	0.000	79.958	-0.000	58.920	0.000	0.000	80.035	39.531	-3.229	MWD+IFR1+SAG+MS+GS_XTO_PLU	DTD_22
22300.000	90.000	179.657	9882.997	59.360	0.000	80.482	-0.000	59.360	0.000	0.000	80.558	39.603	-3.206	MWD+IFR1+SAG+MS+GS_XTO_PLU	DTD_22
22400.000	90.000	179.657	9882.997	59.799	0.000	81.006	-0.000	59.799	0.000	0.000	81.082	39.674	-3.183	MWD+IFR1+SAG+MS+GS_XTO_PLU	DTD_22
22500.000	90.000	179.657	9882.997	60.240	0.000	81.532	-0.000	60.240	0.000	0.000	81.607	39.746	-3.160	MWD+IFR1+SAG+MS+GS_XTO_PLU	DTD_22
22600.000	90.000	179.657	9882.997	60.680	0.000	82.058	-0.000	60.680	0.000	0.000	82.133	39.818	-3.138	MWD+IFR1+SAG+MS+GS_XTO_PLU	DTD_22
22624.111	90.000	179.657	9882.997	60.786	0.000	82.184	-0.000	60.786	0.000	0.000	82.259	39.836	-3.133	MWD+IFR1+SAG+MS+GS_XTO_PLU	DTD_22
22700.000	90.000	179.657	9882.997	61.120	0.000	82.584	-0.000	61.120	0.000	0.000	82.658	39.891	-3.117	MWD+IFR1+SAG+MS+GS_XTO_PLU	DTD_22
22714.247	90.000	179.657	9882.997	61.183	0.000	82.659	-0.000	61.183	0.000	0.000	82.733	39.901	-3.114	MWD+IFR1+SAG+MS+GS_XTO_PLU	DTD_22

Plan Targets		Poker Lake Unit 22 DTD South 404H			
Target Name	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape
FTP 26	10096.67	440511.30	646030.00	6421.00	RECTANGLE
SHL 26	10551.79	440369.76	645179.43	6109.63	RECTANGLE
LTP 26	22624.26	427535.40	646107.60	6421.00	RECTANGLE
BHL 26	22714.24	427445.40	646108.40	6421.00	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>	Eddy County, New Mexico ▼
<b>WELL NAME &amp; NO.:</b>	Poker Lake Unit 22 DTD 404H
<b>SURFACE HOLE FOOTAGE:</b>	233'/N & 1297'/E
<b>BOTTOM HOLE FOOTAGE:</b>	2627'/N & 429'/E

COA

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

### A. HYDROGEN SULFIDE

Hydrogen Sulfide (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 10/3/2024**  
575-234-5998 / [zstevens@blm.gov](mailto: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:**

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

**HOSPITALS:**

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

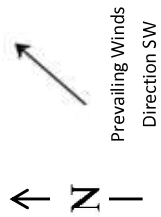
**AGENT NOTIFICATIONS:****For Lea County:**

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

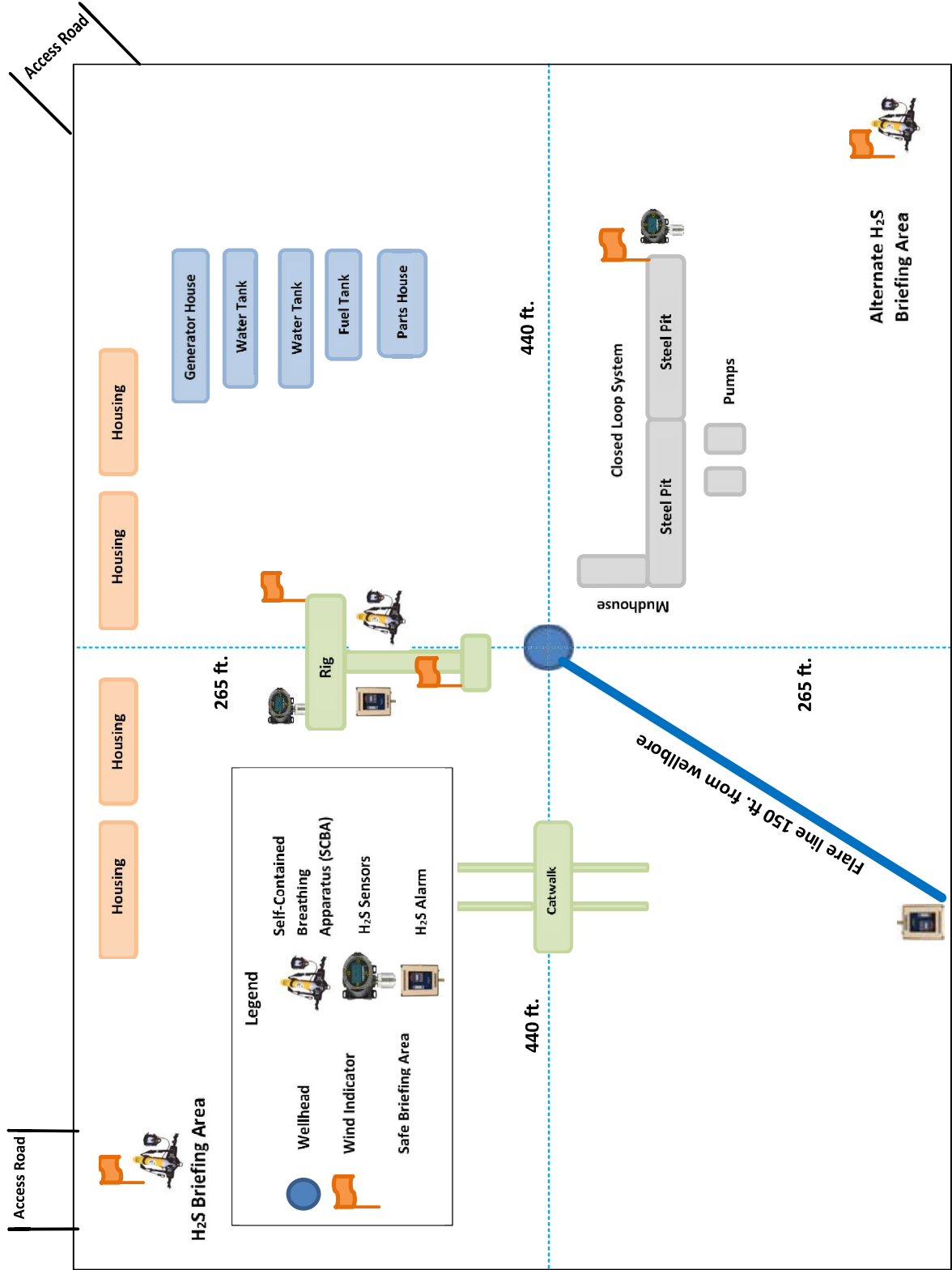
**For Eddy County:**

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

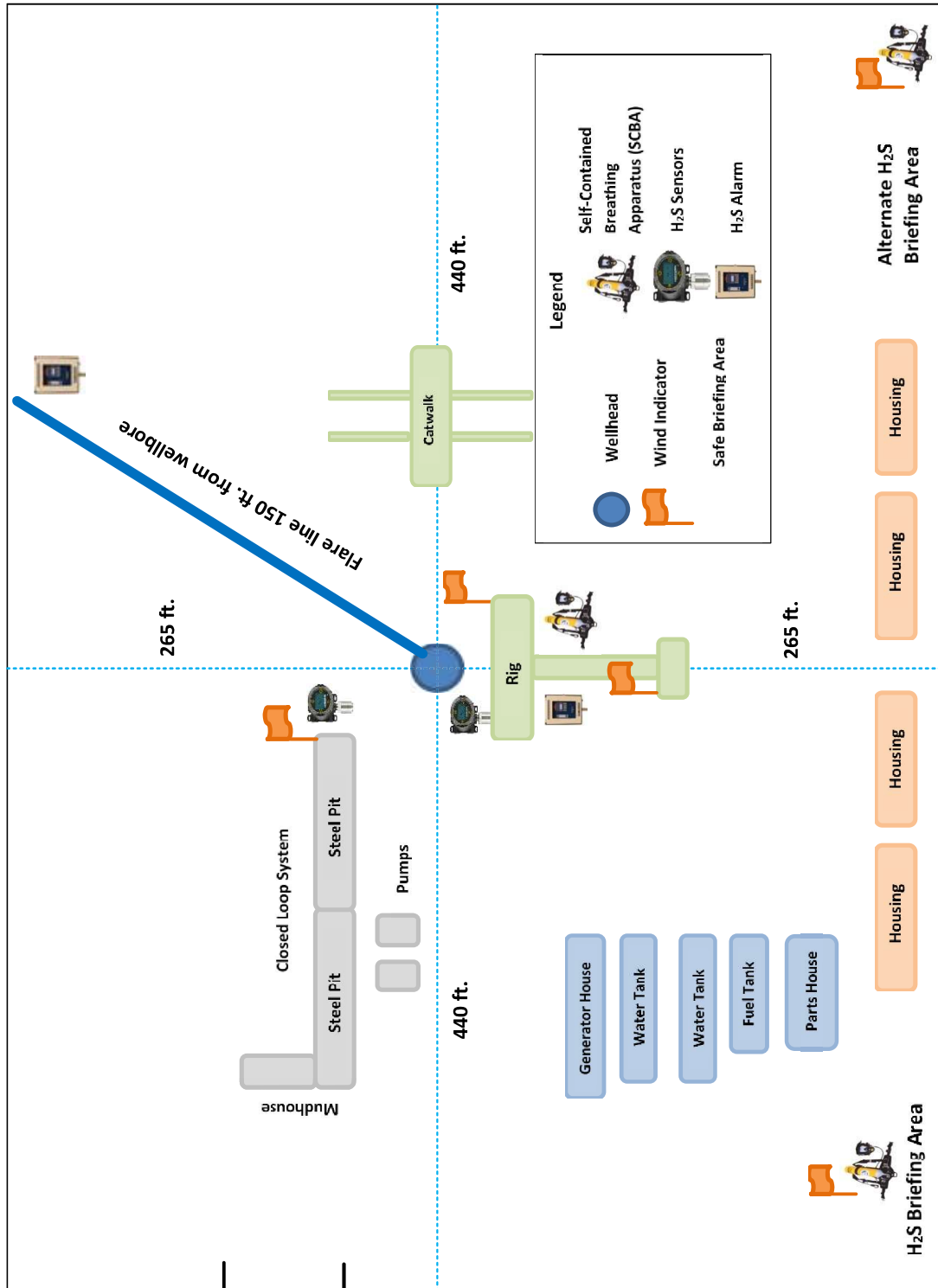
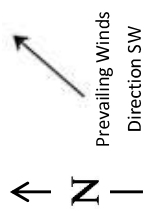
# H2S Briefing Areas and Alarm Locations



Prevailing Winds  
Direction SW



# H2S Briefing Areas and Alarm Locations



**Operator Name:** XTO PERMIAN OPERATING LLC**Well Name:** POKER LAKE UNIT 22 DTD**Well Number:** 404H**Waste disposal type:** HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL**Disposal type description:****Disposal location description:** R360 Environmental Solutions 4507 W Carlsbad Hwy, Hobbs, NM 88240**Waste type:** SEWAGE

**Waste content description:** Portable, self-contained toilets will be provided for human waste disposal. Upon completion of drilling and completion activities, or as required, the toilet holding tanks will be pumped and the contents thereof disposed of in an approved sewage disposal facility. All state and local laws and regulations pertaining to the disposal of human and solid waste will be complied with. This equipment will be properly maintained during the drilling and completion operations and will be removed when all operations are complete.

**Amount of waste:** 250 gallons**Waste disposal frequency :** Weekly

**Safe containment description:** Portable, self-contained toilets will be provided for human waste disposal. Upon completion of drilling and completion activities, or as required, the toilet holding tanks will be pumped and the contents thereof disposed of in an approved sewage disposal facility. All state and local laws and regulations pertaining to the disposal of human and solid waste will be complied with. This equipment will be properly maintained during the drilling and completion operations and will be removed when all operations are complete.

**Safe containmant attachment:****Waste disposal type:** HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL**Disposal type description:****Disposal location description:** A licensed 3rd party contractor to haul and dispose of human waste.**Waste type:** GARBAGE

**Waste content description:** All garbage, junk and non-flammable waste materials will be contained in a self-contained, portable dumpster or trash cage, to prevent scattering and will be removed and deposited in an approve sanitary landfill. Immediately after drilling all debris and other waste materials on and around the well location not contained in the trash cage will be cleaned up and removed from the location. No potentially adverse materials or substances will be left on the location.

**Amount of waste:** 250 pounds**Waste disposal frequency :** Weekly

**Safe containment description:** All garbage, junk and non-flammable waste materials will be contained in a self-contained, portable dumpster or trash cage, to prevent scattering and will be removed and deposited in an approve sanitary landfill. Immediately after drilling all debris and other waste materials on and around the well location not contained in the trash cage will be cleaned up and removed from the location. No potentially adverse materials or substances will be left on the location.

**Safe containmant attachment:****Waste disposal type:** HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL**Disposal type description:****Disposal location description:** A licensed 3rd party contractor will be used to haul and dispose of garbage.[Reserve Pit](#)

**Operator Name:** XTO PERMIAN OPERATING LLC**Well Name:** POKER LAKE UNIT 22 DTD**Well Number:** 404H**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\_404H\_Well\_20240406192818.pdf

**Comments:** Multi-well pad.

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 22 DTD

Well Number: 404H

## Section 10 - Plans for Surface Reclamation

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

Multiple Well Pad Number: D

### Recontouring

PLU\_22\_DTD\_IR1\_20240406165542.pdf

PLU\_22\_DTD\_IR2\_20240406165542.pdf

PLU\_22\_DTD\_IR3\_20240406165542.pdf

PLU\_22\_DTD\_IR4\_20240406165542.pdf

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

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

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

<strong>Existing Vegetation at the well pad:</strong> 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:** 404H

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

**Existing Vegetation Community at the road**

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

**Existing Vegetation Community at the pipeline**

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

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

Santa Fe Main Office Phone: (505) 476-3441 Fax: (55) 476-3462 General Information Phone: (505) 629-6116  Online Phone Directory Visit: <a href="https://www.emnrd.nm.gov/ocd/contact-us/">https://www.emnrd.nm.gov/ocd/contact-us/</a>	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	C-102 Revised July 9, 2024 Submit Electronically via OCD Permitting
		Submittal Type: <input checked="" type="checkbox"/> Initial Submittal <input type="checkbox"/> Amended Report <input type="checkbox"/> As Drilled

## WELL LOCATION INFORMATION

API Number 30-015-55523	Pool Code 97798	Pool Name WILDCAT G-06 S243026M; BONE SPRING
Property Code 333192	Property Name POKER LAKE UNIT 22 DTD	Well Number 404H
OGRID No. 373075	Operator Name XTO PERMIAN OPERATING, LLC	Ground Level Elevation 3,430'
Surface Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal		Mineral Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal

## Surface Location

UL A	Section 22	Township 24S	Range 30E	Lot	Ft. from N/S 233' FNL	Ft. from E/W 1,297' FEL	Latitude 32.209942	Longitude -103.864472	County EDDY
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## Bottom Hole Location

UL H	Section 34	Township 24S	Range 30E	Lot	Ft. from N/S 2,627' FNL	Ft. from E/W 429' FEL	Latitude 32.174407	Longitude -103.861599	County EDDY
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Dedicated Acres 800.00	Infill or Defining Well Infill	Defining Well API 3001549886	Overlapping Spacing Unit (Y/N) No	Consolidation Code U
Order Numbers. N/A			Well setbacks are under Common Ownership: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

## Kick Off Point (KOP)

UL A	Section 22	Township 24S	Range 30E	Lot	Ft. from N/S 233' FNL	Ft. from E/W 1,297' FEL	Latitude 32.209942	Longitude -103.864472	County EDDY
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## First Take Point (FTP)

UL A	Section 22	Township 24S	Range 30E	Lot	Ft. from N/S 100' FNL	Ft. from E/W 430' FEL	Latitude 32.210325	Longitude -103.861669	County
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## Last Take Point (LTP)

UL I	Section 34	Township 24S	Range 30E	Lot	Ft. from N/S 2,537' FNL	Ft. from E/W 429' FEL	Latitude 32.174655	Longitude -103.861601	County EDDY
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Unitized Area or Area of Uniform Interest NMNM105422429	Spacing Unit Type <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical	Ground Floor Elevation: 3,430'
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## OPERATOR CERTIFICATIONS

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.

Samantha Weis 10/08/2024  
Signature Date

Samantha Weis  
Printed Name

samantha.r.bartnik@exxonmobil.com  
Email Address

## SURVEYOR CERTIFICATIONS

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Signature and Seal of Professional Surveyor

Certificate Number

MARK DILLON  
HARP 23786

Date of Survey

7/11/2024



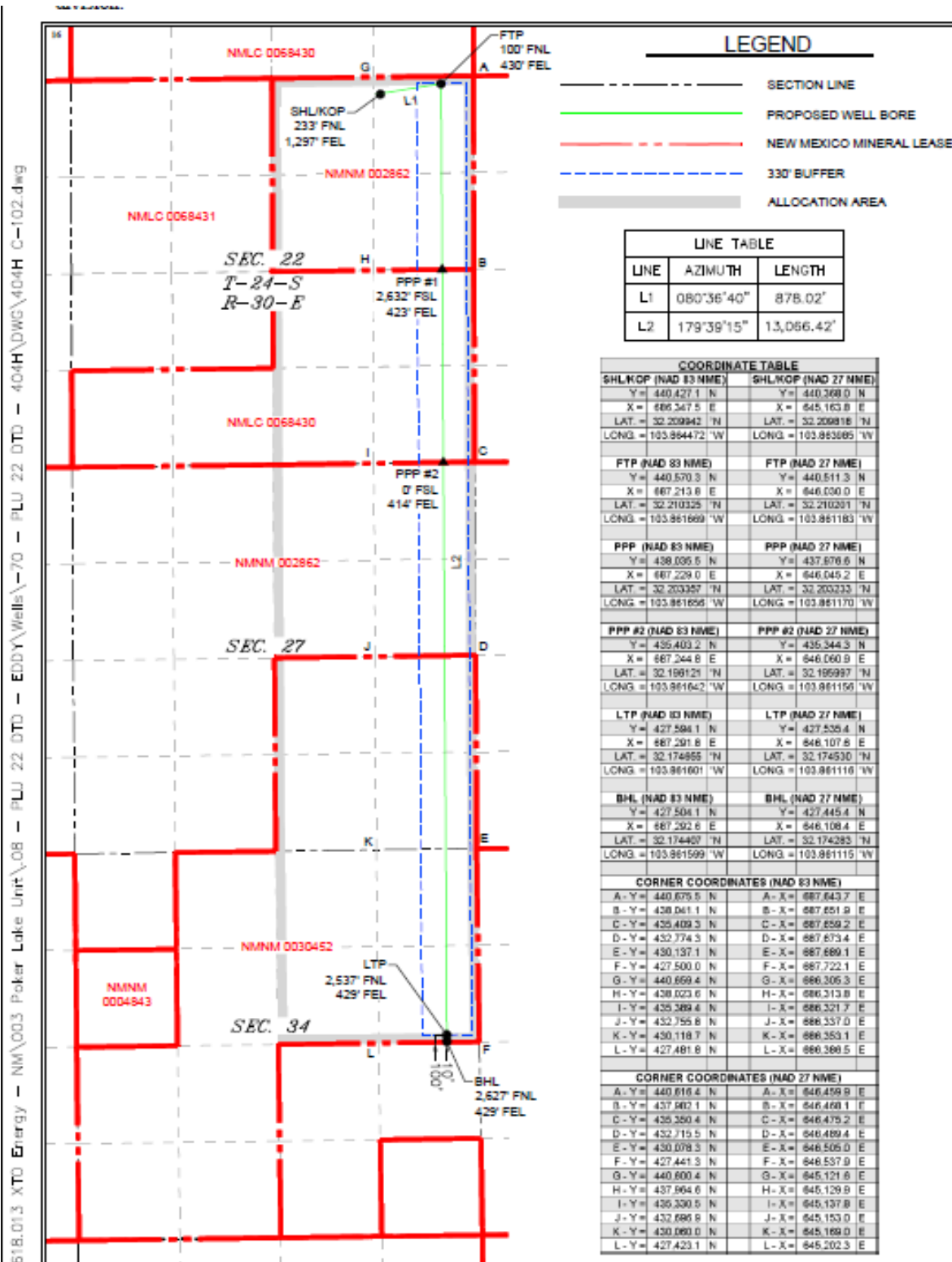
MARK DILLON HARP 23786  
Certificate Number

DB 618.013003.08-70

Note: No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.



**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 391549

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID:
	373075
	Action Number:
	391549
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	10/11/2024
ward.rikala	Will require a File As Drilled C-102 and a Directional Survey with the C-104	10/11/2024
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	10/11/2024
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing	10/11/2024
ward.rikala	If cement does not circulate on any string, a CBL is required for that string of casing	10/11/2024
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	10/11/2024