

## Application for Permit to Drill

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

Date Printed: 11/04/2024 01:19 PM

#### **APD Package Report**

APD ID: 10400098083 Well Status: AAPD

APD Received Date: 04/18/2024 06:14 AM Well Name: POKER LAKE UNIT 23 DTD

Operator: XTO PERMIAN OPERATING LLC Well Number: 452H

#### **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: 6 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: 2 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 FORM APPROVED OMB No. 1004-0137 (June 2015) Expires: January 31, 2018 **UNITED STATES** DEPARTMENT OF THE INTERIOR 5. Lease Serial No. NMNM030452 **BUREAU OF LAND MANAGEMENT** APPLICATION FOR PERMIT TO DRILL OR REENTER 6. If Indian, Allotee or Tribe Name 7. If Unit or CA Agreement, Name and No. **✓** DRILL REENTER 1a. Type of work: 1b. Type of Well: ✓ Oil Well Gas Well Other 8. Lease Name and Well No. 1c. Type of Completion: Hydraulic Fracturing Single Zone ✓ Multiple Zone POKER LAKE UNIT 23 DTD 452H 9. API Well No. 2. Name of Operator XTO PERMIAN OPERATING LLC 10. Field and Pool, or Exploratory 3a Address 3b. Phone No. (include area code) WILDCAT G-06 S243026M/BONE SPRIN 6401 HOLIDAY HILL ROAD BLDG 5, MIDLAND, TX 7970 (432) 683-2277 4. Location of Well (Report location clearly and in accordance with any State requirements.\*) 11. Sec., T. R. M. or Blk. and Survey or Area SEC 23/T24S/R30E/NMP At surface NWNE / 1247 FNL / 1741 FEL / LAT 32.207208 / LONG -103.848609 At proposed prod. zone SENW / 2627 FNL / 1664 FWL / LAT 32.174412 / LONG -103.854833 12. County or Parish 14. Distance in miles and direction from nearest town or post office\* 13. State **EDDY** NM 9.3 miles 15. Distance from proposed\* 16. No of acres in lease 17. Spacing Unit dedicated to this well 1247 feet location to nearest property or lease line, ft. 800.0 (Also to nearest drig. unit line, if any) 18. Distance from proposed location\* 19. Proposed Depth 20. BLM/BIA Bond No. in file to nearest well, drilling, completed, 30 feet 10556 feet / 23740 feet FED: COB000050 applied for, on this lease, ft. 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start\* 23. Estimated duration 3429 feet 06/19/2025 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 2. A Drilling Plan. Item 20 above). 3. A Surface Use Plan (if the location is on National Forest System Lands, the 5. Operator certification. 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 Name (Printed/Typed) Date 25. Signature (Electronic Submission) RICHARD REDUS / Ph: (432) 682-8873 04/18/2024 Title Permitting Manager Approved by (Signature) Date Name (Printed/Typed) (Electronic Submission) 11/01/2024 CHRISTOPHER WALLS / Ph: (575) 234-2234 Title Office Petroleum Engineer 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.



#### 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 wen, 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 directionany 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 wen 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 win 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 conects this information to anow 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 Conection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

#### **Additional Operator Remarks**

#### **Location of Well**

0. SHL: NWNE / 1247 FNL / 1741 FEL / TWSP: 24S / RANGE: 30E / SECTION: 23 / LAT: 32.207208 / LONG: -103.848609 ( TVD: 0 feet, MD: 0 feet )

PPP: NENW / 100 FNL / 1664 FWL / TWSP: 24S / RANGE: 30E / SECTION: 23 / LAT: 32.210348 / LONG: -103.854898 ( TVD: 10556 feet, MD: 11400 feet )

PPP: NENW / 0 FSL / 1679 FWL / TWSP: 24S / RANGE: 30E / SECTION: 26 / LAT: 32.196133 / LONG: -103.854873 ( TVD: 10556 feet, MD: 16600 feet )

BHL: SENW / 2627 FNL / 1664 FWL / TWSP: 24S / RANGE: 30E / SECTION: 35 / LAT: 32.174412 / LONG: -103.854833 ( TVD: 10556 feet, MD: 23740 feet )

#### **BLM Point of Contact**

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

#### **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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Type:	

☐ As Drilled

Page

#### WELL LOCATION INFORMATION

API Number	Pool Code	Pool Name				
30-015-	97798	WILDCAT G-06 S243026M; E	WILDCAT G-06 S243026M; BONE SPRING			
Property Code	Property Name	Well Number				
	POKER LAKE UNIT 23 DTD 452H					
OGRID No.	Operator Name		Ground Level Elevation			
373075	XTO PERM	IAN OPERATING, LLC	3,429'			
Surface Owner: □State □Fee □	Tribal 🛮 Federal	Mineral Owner: □State □Fee □Tribal ☑F	ederal			

#### **Surface Hole Location**

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
В	23	248	30E		1,247 FNL	1,741 FEL	32.207208	-103.848609	EDDY

#### **Bottom Hole Location**

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
F	35	24\$	30E		2,627 FNL	1,664 FWL	32.174412	-103.854833	EDDY

Dedicated Acres	Infill or Defining Well Defining Well API		Overlapping Spacing Unit (Y/N)	Consolidation Code		
800.00	INFILL		Y	U		
Order Numbers.			Well Setbacks are under Common Ownership: ⊠Yes □No			

#### Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W Latitude		Longitude County	
В	23	24S	30E		1,247 FNL	1,741 FEL	32.207208	-103.848609	EDDY

#### First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
С	23	24S	30E		100 FNL	1,664 FWL	32.210348	-103.854898	EDDY

#### Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W Latitude		Longitude	County
F	35	24\$	30E		2,537 FNL	1,664 FWL	32.174659	-103.854836	EDDY

Unitized Area or Area of Interest Ground Elevation Spacing Unit Type: ☑ Horizontal ☐ Vertical NMNM105422429 3,429'

#### 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 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 at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or a voluntary pooling agreement or a compulsory

If this ..
received the unleased minera. which any part of the compulsory pooling order.

Terra Sebastian 10.2
Signature Date 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 information) in which any part of the well's completed interval will be located or obtained a

452H\DWG\452H C-102.dwg

DTD

23 PLU 1

EDDY\Wells\-62

PLU

#### SURVEYOR CERTIFICATIONS

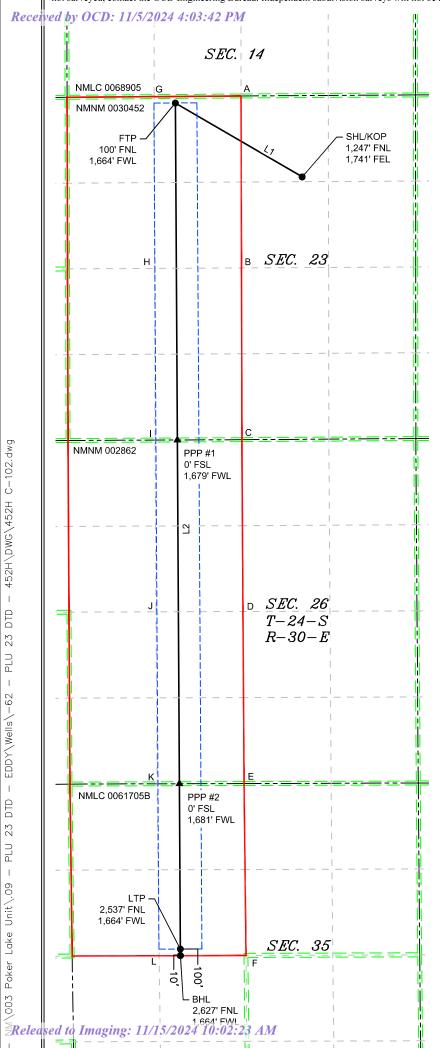
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief



Signature and Seal of Professional Surveyor

MARK DILLON HARP 23786

10/28/2024



LEGEND

SECTION LINE
PROPOSED WELL BORE

NEW MEXICO MINERAL LEASE
330' BUFFER
ALLOCATION AREA

LINE TABLE							
LINE	AZIMUTH	LENGTH					
L1	30010'30"	2,255.81					
L2	179*39'27"	13,073.27					

COORDINATE TABLE											
			SHL/KOF	(NAD 27 NME)							
Υ=	439,454.2	Ν	Y =	439,395.3 N							
X =	691,258.1	Е	X =								
LAT. =			LAT. =	32.207084 °N							
LONG. =	103.848609	°W	LONG. =	103.848123 °W							
	NAD 83 NME			NAD 27 NME)							
	440,588.1			440,529.1 N							
	689,307.9		X =								
	32.210348			32.210224 °N							
				103.854412 °W							
	(NAD 83 NM			(NAD 27 NME)							
	435,416.8			435,358.0 N							
	689,338.6			648,154.7 E							
	32.196133			32.196009 °N							
				103.854388 °W							
	(NAD 83 NM			(NAD 27 NME)							
Y =	430,142.4	N	Y =	430,083.6 N							
	689,369.9		X =								
	32.181634		LAT. =	32.181510 °N							
LONG. =	103.854848	°W	LONG. =	103.854363 °W							
LTP (N	AD 83 NME	)	LTP (N	NAD 27 NME)							
Y =	427,605.1	N	Y =	427,546.4 N							
X =			X =	648,200.7 E							
LAT. =			LAT. =								
	103.854836			103.854351 °W							
	NAD 83 NME			NAD 27 NME)							
	427,515.1			427,456.4 N							
X =		F	X =	648,201.9 E							
LAT. =	32.174412		LAT. =	32.174288 °N							
	103.854833			103.854349 °W							
	NER COOR										
	440,695.8		A - X =	690,318.7 E							
	438,055.8		B-X=	690,325.0 E							
C-Y=			C-X=	690,331.2 E							
D-Y=			D-X=	690,347.4 E							
E-Y=	430,145.2		E-X=	690,363.6 E							
F-Y=	427,508.2	Ν	F-X=	690,393.8 E							
G-Y=			G-X=	688,981.2 E							
H-Y=	438,048.4	N	H-X=	688,988.5 E							
I-Y=	435,415.3	N	I-X=	688,995.2 E							
J-Y=	432,779.2		J - X =	689,010.4 E							
K-Y=	430,141.2		K-X=	689,026.3 E							
L-Y=			L-X=	689,058.0 E							
	NER COOR										
A - Y =	440,636.8		A - X =	649,135.0 E							
B-Y=	437,996.8		B-X=	649,141.1 E							
C-Y=	435,362.4	_	C-X=	649,147.3 E							
D-Y=	432,725.2		D-X=	649,163.4 E							
E-Y=	430,086.5		E-X=	649,179.4 E							
			. r v -	C40 000 01E							
F-Y= G-Y=	427,449.5 440,626.6		F-X= G-X=	649,209.6 E 647,797.5 E							

#### 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

1. Operator: X10 Permian Operating, LLC	<b>OGRID:</b> 3/30/5	<b>Date:</b> 10/21/2024
II. Type: ⊠ Original □ Amendment due to □ 19.1:	5.27.9.D(6)(a) NMAC □ 19.15.27.9.	$D(6)(b)$ NMAC $\square$ 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	Anticipat ed Oil BBL/D	3 yr Anticipat ed Decline oil BBL/D	Anticipat ed 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 23 DTD 104H	TBD	14 T24S R30E	556 FSL 310 FWL	1,800	200	7,500	1,200	7,000	800
Poker Lake Unit 23 DTD 193H	TBD	14 T24S R30E	556 FSL 280 FWL	1,800	200	7,500	1,200	7,000	800
Poker Lake Unit 23 DTD 441H	TBD	23 T24S R30E	1152 FNL 1771 FEL	1,800	200	7,500	1,200	7,000	800
Poker Lake Unit 23 DTD 442H	TBD	23 T24S R30E	1152 FNL 1741 FEL	1,800	200	7,500	1,200	7,000	800
Poker Lake Unit 23 DTD 443H	TBD	23 T24S R30E	1152 FNL 1711 FEL	1,800	200	7,500	1,200	7,000	800
Poker Lake Unit 23 DTD 444H	TBD	23 T24S R30E	1152 FNL 1681 FEL	1,800	200	7,500	1,200	7,000	800
Poker Lake Unit 23 DTD 445H	TBD	23 T24S R30E	1152 FNL 1651 FEL	1,800	200	7,500	1,200	7,000	800
Poker Lake Unit 23 DTD 451H	TBD	23 T24S R30E	1247 FNL 1771 FEL	1,900	200	3,250	900	3,750	400

Poker Lake Unit 23 DTD 452H	TBD	23 T24S R30E	1247 FNL 1741 FEL	1,900	200	3,250	900	3,750	400
Poker Lake Unit 23 DTD 453H	TBD	23 T24S R30E	1247 FNL 1711 FEL	1,900	200	3,250	900	3,750	400
Poker Lake Unit 23 DTD 454H	TBD	23 T24S R30E	1247 FNL 1681 FEL	1,800	200	7,500	1,200	7,000	800
Poker Lake Unit 23 DTD 455H	TBD	23 T24S R30E	1247 FNL 1651 FEL	1,900	200	3,250	900	3,750	400
Poker Lake Unit 23 DTD 456H	TBD	23 T24S R30E	1247 FNL 1621 FEL	1,900	200	3,250	900	3,750	400
Poker Lake Unit 23 DTD 541H	TBD	14 T24S R30E	645 FSL 637 FEL	1,800	200	7,500	1,200	7,000	800
Poker Lake Unit 23 DTD 542H	TBD	14 T24S R30E	645 FSL 607 FEL	1,800	200	7,500	1,200	7,000	800
Poker Lake Unit 23 DTD 543H	TBD	14 T24S R30E	645 FSL 577 FEL	1,900	200	3,250	900	3,750	400
Poker Lake Unit 23 DTD 544H	TBD	14 T24S R30E	645 FSL 547 FEL	1,800	200	7,500	1,200	7,000	800
Poker Lake Unit 23 DTD 545H	TBD	14 T24S R30E	645 FSL 517 FEL	1,900	200	3,250	900	3,750	400
Poker Lake Unit 23 DTD 546H	TBD	14 T24S R30E	645 FSL 487 FEL	1,800	200	7,500	1,200	7,000	800
Poker Lake Unit 23 DTD 705H	TBD	14 T24S R30E	556 FSL 340 FWL	1,800	200	7,500	1,200	7,000	800

IV. Central Delivery Point Name: Poker Lake Unit 23 DTD CVB [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	Well Name API Spud Date		TD Reached	Completion	Initial Flow	First Production
			Date	Commencement Date	Back Date	Date
Poker Lake Unit 23	TBD	TBD	TBD	TBD	TBD	TBD
DTD 104H						
Poker Lake Unit 23	TBD	TBD	TBD	TBD	TBD	TBD
DTD 193H						
Poker Lake Unit 23	TBD	TBD	TBD	TBD	TBD	TBD
DTD 441H						
Poker Lake Unit 23	TBD	TBD	TBD	TBD	TBD	TBD
DTD 442H						
Poker Lake Unit 23	TBD	TBD	TBD	TBD	TBD	TBD
DTD 443H						
Poker Lake Unit 23	TBD	TBD	TBD	TBD	TBD	TBD
DTD 444H						

Poker Lake Unit 23 DTD 445H	TBD	TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 23 DTD 451H	TBD	TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 23 DTD 452H	TBD	TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 23 DTD 453H	TBD	TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 23 DTD 454H	TBD	TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 23 DTD 455H	TBD	TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 23 DTD 456H	TBD	TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 23 DTD 541H	TBD	TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 23 DTD 542H	TBD	TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 23 DTD 543H	TBD	TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 23 DTD 544H	TBD	TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 23 DTD 545H	TBD	TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 23 DTD 546H	TBD	TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 23 DTD 705H	TBD	TBD	TBD	TBD	TBD	TBD

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. $\square$ 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	ı 🗆 will 🗆 will not have capa	eacity to gather 100% of the	e anticipated natural gas
production volume from the well prior to the date of fir	rst production.		

XIII. Line	Pressure. Op	perator 🗆 d	oes 🗌 does no	ot anticipate tha	t its existing	well(s) conne	ected to the s	same segment,	or portion,	of the
natural gas	gathering sys	stem(s) desc	ribed above w	ill continue to	neet anticipa	ated increases	in line pres	sure caused by	the new wo	ell(s).

$\overline{}$	1 A 441 - 0		1 4 -			·		41		1:	
1	L Affach ( )	nerator s	nian te	manage	production	in resi	onse to	tne.	increased	line	nressure
_	1 Ittucii O	perator 5	piuli u	, iiiuiiu <u>~</u> c	production	111 1 00	JOHISC TO	uic	mora	11110	probbare

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 informat	ion
for which confidentiality is asserted and the basis for such assertion.	

# Section 3 - Certifications Effective May 25, 2021

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. <i>If Operator checks this box, Operator will select one of the following:</i>
<b>Well Shut-In.</b> □ 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**

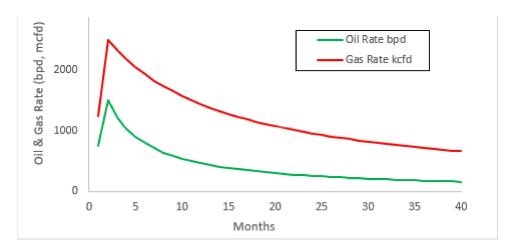
- 1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:
- (a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production 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.

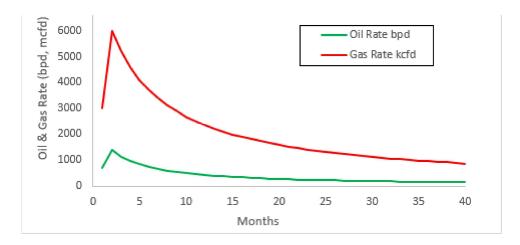
Signature: Srinivas Navien
Printed Name: Srinivas Naveen Laghuvarapu
Title: Regulatory Analyst
E-mail Address: Srinivas.n.laghuvarapu@exxonmobil.com
Date: 10/21/2024
Phone: +91-7780442850
OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

#### Poker Lake Unit - Decline Curves:

## **Bone Spring:**



## Wolfcamp:



#### VI. Separation Equipment:

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

#### VII. Operational Practices

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

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

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

#### VIII. Best Management Practices during Maintenance

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

Well Name: POKER LAKE UNIT 23 DTD



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

Drilling Plan Data Report

Submission Date: 04/18/2024

Operator Name: XTO PERMIAN OPERATING LLC

Well Number: 452H

Well Type: OIL WELL

**APD ID**: 10400098083

Well Work Type: Drill

Highlighted data reflects the most recent changes

**Show Final Text** 

#### **Section 1 - Geologic Formations**

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
14431139	QUATERNARY	3429	0	0	ALLUVIUM	USEABLE WATER	N
14431140	RUSTLER	2115	1314	1314	ANHYDRITE	USEABLE WATER	N
14431141	SALADO	1712	1717	1717	SALT	NONE	N
14431142	BASE OF SALT	-481	3910	3910	SALT	NONE	N
14431143	DELAWARE	-675	4104	4104	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER: Produced Water	N
14431144	BRUSHY CANYON	-3181	6610	6610	SANDSTONE	NATURAL GAS, OIL, OTHER: Produced Water	N
14431145	BONE SPRING	-4470	7899	7899	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	Y
14431146	BONE SPRING 1ST	-5241	8670	8670	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	Y
14431147	BONE SPRING 2ND	-5843	9272	9272	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER: Produced Water	Y
14431148	BONE SPRING 3RD	-6977	10406	10406	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	Y

#### **Section 2 - Blowout Prevention**

Pressure Rating (PSI): 5M Rating Depth: 10556

**Equipment:** Once the permanent WH is installed on the surface casing, the blow out preventer equipment (BOP) will consist of a 5M Hydril Annular and a 5M Double Ram BOP. XTO will use a 3 string Slim Hole Multi-Bowl system which is attached.

#### Requesting Variance? YES

**Variance request:** A variance is requested to allow use of a flex hose: See Attached. XTO requests a variance to be able batch drill this well if necessary. XTO request a break test variance: See Attached. XTO requests a variance to utilize a spudder rig: See Attached.

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

Well Name: POKER LAKE UNIT 23 DTD Well Number: 452H

PLU\_23\_DTD\_5MCM\_20240410151726.pdf

#### **BOP Diagram Attachment:**

5MBOP\_20240926061720.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	12.2 5	9.625	NEW	API	N	0	1414	0	1414	3429	2015	1414	J-55	40	BUTT	4.45	1.65	DRY	11.1 4	DRY	11.1 4
2	INTERMED IATE	8.75	7.625	NEW	API	Y	0	10058	0	9638	3446	-6209	10058	L-80	29.7	FJ	2.38	2.1	DRY	2.26	DRY	2.26
3	PRODUCTI ON	6.75	5.5	NEW	NON API	Υ	0	23740	0	10556	3446	-7127	23740	P- 110		OTHER - Freedom HTQ/Talon HTQ	1.98	1.05	DRY	2.04	DRY	2.04

#### **Casing Attachments**

Casing ID: 1 String SURFACE

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

Casing Design Assumptions and Worksheet(s):

PLU\_23\_DTD\_452H\_Csg\_20241011130536.pdf

Well Name: POKER LAKE UNIT 23 DTD Well Number: 452H

#### **Casing Attachments**

Casing ID: 2

String

**INTERMEDIATE** 

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

PLU\_23\_DTD\_452H\_Csg\_20241011130545.pdf

Casing Design Assumptions and Worksheet(s):

PLU\_23\_DTD\_452H\_Csg\_20241011130550.pdf

Casing ID: 3

String

**PRODUCTION** 

**Inspection Document:** 

**Spec Document:** 

Freedom\_semi\_premium\_5.5\_production\_casing\_20240926061801.pdf
Talon semiflush 5.5 production casing 20240926061801.pdf

**Tapered String Spec:** 

PLU\_23\_DTD\_452H\_Csg\_20241011130501.pdf

Casing Design Assumptions and Worksheet(s):

PLU 23 DTD 452H Csg 20241011130507.pdf

#### **Section 4 - Cement**

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	1414	370	1.87	10.5	691.9	100	EconoCem- HLTRRC	NA
SURFACE	Tail		0	1414	130	1.35	14.8	175.5	100	Class C	2% CaCl
INTERMEDIATE	Lead		0	6610	320	1.35	14.8	432	100	Class C	NA
INTERMEDIATE  Released to Imaging	Tail	/2024	6610	1005 8 3 AM	740	1.33	14.8	984.2	100	Class C	NA

Well Name: POKER LAKE UNIT 23 DTD Well Number: 452H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
PRODUCTION	Lead		9758	1025 8	20	2.69	11.5	53.8	30	NeoCem	NA
PRODUCTION	Tail		1025 8	2374 0	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)	ЬН	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
4104	1005 8	OTHER : BDE/OBM	9	9.5							
1414	4104	SALT SATURATED	10.5	11							
0	1414	WATER-BASED MUD	8.4	8.9							
1005 8	2374 0	OIL-BASED MUD	10.2	10.7							

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Well Name: POKER LAKE UNIT 23 DTD Well Number: 452H

#### 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: 5873 Anticipated Surface Pressure: 3550** 

Anticipated Bottom Hole Temperature(F): 190

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

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations

XTO Energy H2S Plan Updated 20240926061531.pdf

#### **Section 8 - Other Information**

Proposed horizontal/directional/multi-lateral plan submission:

PLU 23 DTD 452H DD 20240415131203.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

PLU\_23\_DTD\_452H\_Cmt\_20240415131530.pdf

PLU 23 DTD H2S DiaC 20240926062143.pdf

9.625 7.625 5.5 3 String Slimhole HBE0000479 4 20240926062201.pdf

PLU 23 DTD H2S DiaD 20241008073842.pdf

PLU 23 DTD H2S DiaA 20241008073850.pdf

PLU 23 DTD GCP 20241021092804.pdf

#### Other Variance attachment:

Updated Flex Hose 20240926062222.pdf

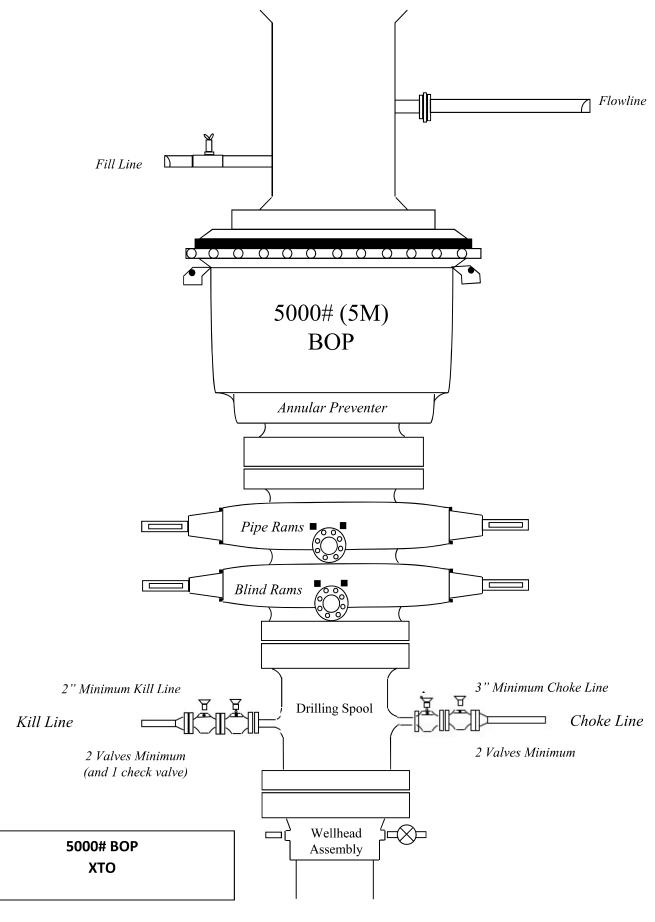
Offline Cement Variance Surf Interm Csg 20240926062238.pdf

BOP Break Test Variance 20240926062246.pdf Released to Imaging: II/15/Z024 10:02:23 AM

Well Name: POKER LAKE UNIT 23 DTD Well Number: 452H

Spudder\_Rig\_Request\_20240926062257.pdf

Released to Imaging: 11/15/2024 10:02:23 AM



# **U. S. Steel Tubular Products**

# 5.500" 20.00lb/ft (0.361" Wall) P110 RY USS-FREEDOM HTQ®

11/8/2023 1:08:50 PM

MECHANICAL PROPERTIES	Pipe	USS-FREEDOM HTQ <sup>®</sup>		
Minimum Yield Strength	110,000		psi	
Maximum Yield Strength	125,000		psi	
Minimum Tensile Strength	125,000		psi	
DIMENSIONS	Pipe	USS-FREEDOM HTQ <sup>®</sup>		
Outside Diameter	5.500	6.300	in.	
Wall Thickness	0.361		in.	
Inside Diameter	4.778	4.778	in.	
Standard Drift	4.653	4.653	in.	
Alternate Drift			in.	
Nominal Linear Weight, T&C	20.00		lb/ft	
Plain End Weight	19.83		lb/ft	
SECTION AREA	Pipe	USS-FREEDOM HTQ <sup>®</sup>		
Critical Area	5.828	5.828	sq. in.	
Joint Efficiency		100.0	%	
PERFORMANCE	Pipe	USS-FREEDOM HTQ <sup>®</sup>		
Minimum Collapse Pressure	11,100	11,100	psi	
Minimum Internal Yield Pressure	12,640	12,640	psi	
Minimum Pipe Body Yield Strength	641,000		lb	
Joint Strength		641,000	<b>l</b> b	
Compression Rating		641,000	lb	
Reference Length [4]		21,370	ft	
Maximum Uniaxial Bend Rating [2]		91.7	deg/100 ft	
MAKE-UP DATA	Pipe	USS-FREEDOM HTQ <sup>®</sup>		
Make-Up Loss		4.13	in.	
Minimum Make-Up Torque [3]		15,000	ft-lb	
Maximum Make-Up Torque [3]		21,000	ft-lb	
Maximum Operating Torque[3]		29,500	ft-lb	

#### **Notes**

- 1. Other than proprietary collapse and connection values, performance properties have been calculated using standard equations defined by API 5C3 and do not incorporate any additional design or safety factors. Calculations assume nominal pipe OD, nominal wall thickness, and Specified Minimum Yield Strength (SMYS).
- 2. Uniaxial bending rating shown is structural only, and equal to compression efficiency.
- 3. Torques have been calculated assuming a thread compound friction factor of 1.0 and are recommended only. Field make-up torques may require adjustment based on actual field conditions (e.g. make-up speed, temperature, thread compound, etc.).
- 4. Reference length is calculated by joint strength divided by plain end weight with 1.5 safety factor.

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> U. S. Steel Tubular Products 460 Wildwood Forest Drive, Suite 300S Spring, Texas 77380

1-877-893-9461 connections@uss.com www.usstubular.com



# U. S. Steel Tubular Products 5,500" 20,00lb/ft (0,361" Wal

#### 11/29/2021 4:16:04 PM

# 5.500" 20.00lb/ft (0.361" Wall) P110 RY USS-TALON HTQ™ RD

MECHANICAL PROPERTIES	Pipe	USS-TALON HTQ™ RD		[6]
Minimum Yield Strength	110,000		psi	-
Maximum Yield Strength	125,000		psi	-
Minimum Tensile Strength	125,000		psi	-
DIMENSIONS	Pipe	USS-TALON HTQ™ RD		-
Outside Diameter	5.500	5.900	in.	-
Wall Thickness	0.361		in.	-
Inside Diameter	4.778	4.778	in.	-
Standard Drift	4.653	4.653	in.	-
Alternate Drift			in.	-
Nominal Linear Weight, T&C	20.00		lb/ft	-
Plain End Weight	19.83		lb/ft	-
SECTION AREA	Pipe	USS-TALON HTQ™ RD		
Critical Area	5.828	5.828	sq. in.	
Joint Efficiency		100.0	%	[2
PERFORMANCE	Pipe	USS-TALON HTQ™ RD		
Minimum Collapse Pressure	11,100	11,100	psi	
Minimum Internal Yield Pressure	12,640	12,640	psi	
Minimum Pipe Body Yield Strength	641,000		lb	
Joint Strength		641,000	lb	
Compression Rating		641,000	lb	
Reference Length		21,370	ft	[5
Maximum Uniaxial Bend Rating		91.7	deg/100 ft	[3
MAKE-UP DATA	Pipe	USS-TALON HTQ™ RD		-
Make-Up Loss		5.58	in.	
Minimum Make-Up Torque		17,000	ft-lb	[4
Maximum Make-Up Torque		20,000	ft-lb	[4
Maximum Operating Torque		39,500	ft-lb	[4

#### **Notes**

- 1. Other than proprietary collapse and connection values, performance properties have been calculated using standard equations defined by API 5C3 and do not incorporate any additional design or safety factors. Calculations assume nominal pipe OD, nominal wall thickness, and Specified Minimum Yield Strength (SMYS).
- 2. Joint efficiencies are calculated by dividing the connection critical area by the pipe body area.
- 3. Uniaxial bend rating shown is structural only.
- 4. Torques have been calculated assuming a thread compound friction factor of 1.0 and are recommended only. Field make-up torques may require adjustment based on actual field conditions (e.g. make-up speed, temperature, thread compound, etc.).
- 5. Reference length is calculated by Joint Strength divided by Nominal Linear Weight, T&C with a 1.5 Safety factor.
- 6. Coupling must meet minimum mechanical properties of the pipe.

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U. S. Steel Tubular Products 460 Wildwood Forest Drive, Suite 300S Spring, Texas 77380 1-877-893-9461 connections@uss.com www.usstubular.com

# Casing Assumptions

		SF Tension	11.14	1.87	2.26	2.04	2.04
		SF Collapse	4.45	2.92	2.38	2.10	1.98
		SF Burst	1.65	2.89	2.10	1.05	1.05
		New/Used	New	New	New	New	New
ns		Collar	BTC	Flush Joint	Flush Joint	Freedom HTQ	Talon HTQ
Casing Assumptions		Grade	J-55	RY P-110	HC L-80	RY P-110	RY P-110
Cas		Weight	40	29.7	29.7	20	20
		OD Csg	9.625	7.625	7.625	5.5	5.5
		Depth	0' – 1414'	0' – 4000'	4000' - 10058'	0' – 9958'	9958' - 23740'
	ıg Design	Hole Size	12.25	8.75	8.75	6.75	6.75
olonso	Casin	gaina: 11	/15/20	24 10.0	2.22 41		

#### **Cement Variance Request**

#### **Intermediate Casing:**

XTO requests to pump a two stage cement job on the 7-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brush Canyon (6610') and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If cement is not visually confirmed to circulate to surface, the final cement top after the second stage job will be verified by Echo-meter. If necessary, a top out consisting of 1,500 sack of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. If cement is still unable to circulate to surface, another Echo-meter run will be performed for cement top verification.

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

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

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

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

#### **Production Casing:**

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

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

#### **Description of Operations:**

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

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

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

#### 1. Cement Program

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

#### 2. Offline Cementing Procedure

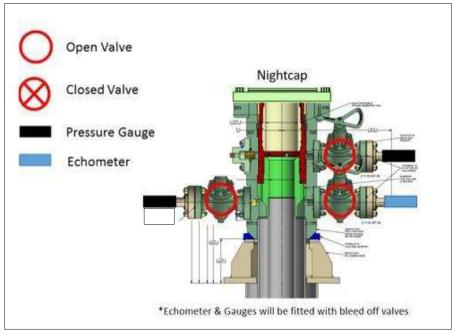
The operational sequence will be as follows. If a well control event occurs, the BLM will be contacted for approval prior to conducting offline cementing operations.

- 1. Run casing as per normal operations. While running casing, conduct negative pressure test and confirm integrity of the float equipment (float collar and shoe)
- 2. Land casing with mandrel
- 3. Fill pipe with kill weight fluid, do not circulate through floats and confirm well is static
- 4. Set annular packoff shown below and pressure test to confirm integrity of the seal. Pressure ratings of wellhead components and valves is 5,000 psi.
- 5. After confirmation of both annular barriers and internal barriers, nipple down BOP and install cap flange.
  - a. If any barrier fails to test, the BOP stack will not be nippled 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

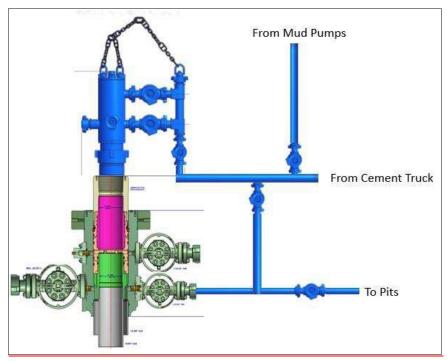
#### XTO Permian Operating, LLC Offline Cementing Variance Request



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 nippling 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.



**GATES ENGINEERING & SERVICES NORTH AMERICA** 

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NEW CHOKE HOSE

INSTAUED 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.

COSTOWIER.	11
CUSTOMER P.O.#:	1

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

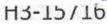
SERIAL #:

74621 H3-012524-1

SIGNATURE: F. OSNOS

TITLE: QUALITY ASSURANCE

DATE: 1/25/2024





1/25/2024 11:48:06 AM

# **TEST REPORT**

CUSTOMER

Company: Nabors Industries Inc.

TEST OBJECT

Serial number: H3-012524-1

Lot number:

Production description: 74621/66-1531

Description:

Sales order #: 529480 Customer reference: FG1213 74621/66-1531

45

Hose ID:

3" 16C CK

Part number:

TEST INFORMATION

Test procedure:

GTS-04-053

Fitting 1:

Test pressure: Test pressure hold: 15000.00 psi 3600.00 sec Part number: Description: 3.0 x 4-1/16 10K

3.0 x 4-1/16 10K

Work pressure:

10000.00

psi

(3)

Fitting 2:

Length:

Work pressure hold: Length difference:

Length difference:

900.00

0.00

sec % inch

Part number:

Description:

Visual check:

Pressure test result: PASS

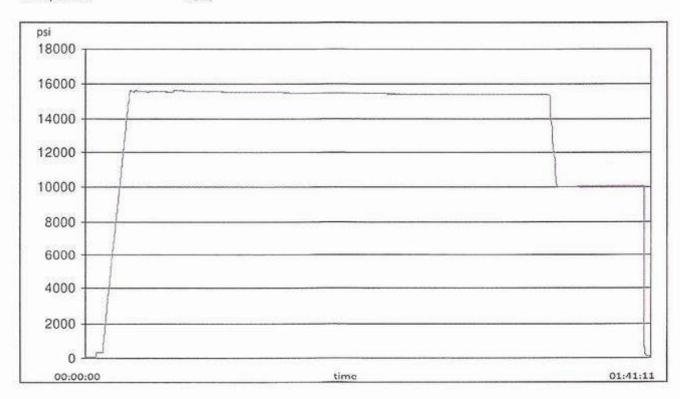
feet

n. . . . 10

Length measurement result:

Test operator:

Travis



H3-15/16

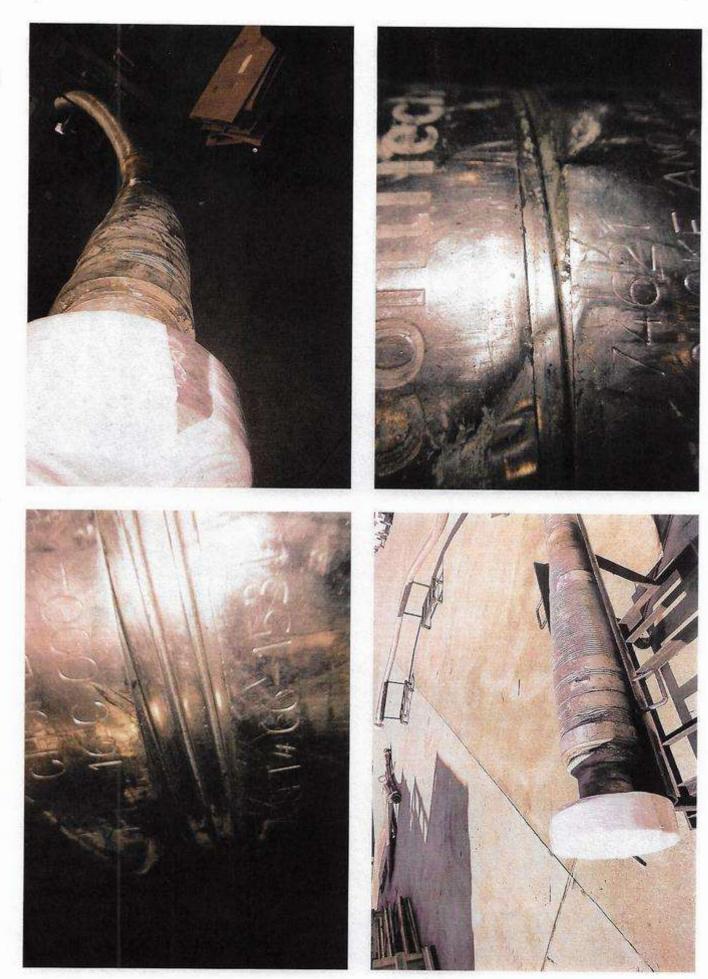


1/25/2024 11:48:06 AM

# **TEST REPORT**

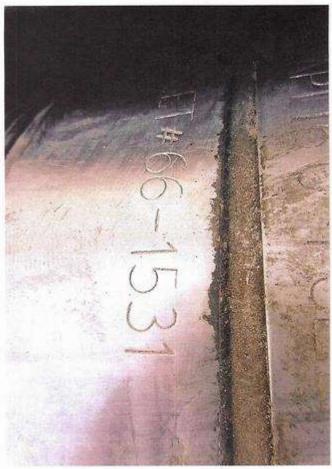
#### **GAUGE TRACEABILITY**

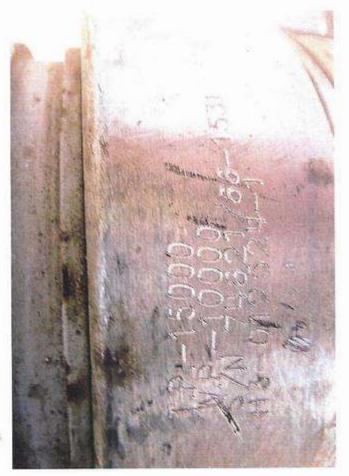
Description	Serial number	Calibration date	Calibration due date
S-25-A-W	110D3PHO	2023-06-06	2024-06-06
S-25-A-W	110IQWDG	2023-05-16	2024-05-16
Comment			
		*	



Released to Imaging: 11/15/2024 10:02:23 AM









Released to Imaging: 11/15/2024 10:02:23 AM

**<u>Subject:</u>** 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 3170recognizes 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.

2	API STANDARD	53	
Tal	ole C.4—Initial Pressure Te	esting, Surface BOP Stacks	
	Pressure Test—Low	Pressure Test—	-High Pressure
Component to be Pressure Tested	Pressure <sup>ac</sup> psig (MPa)	Change Out of Component, Elastomer, or Ring Gasket	No Change Out of Component, Elastomer, or Ring Gasket
Annular preventer <sup>6</sup>	250 to 350 (1.72 to 2.41)	RWP of annular preventer	MASP or 70% annular RWP, whichever is lower.
Fixed pipe, variable bore, blind, and BSR preventers <sup>bd</sup>	250 to 350 (1.72 to 2.41)	RWP of ram preventer or wellhead system, whichever is lower	ITP
Choke and kill line and BOP side outlet valves below ram preventers (both sides)	250 to 350 (1.72 to 2.41)	RWP of side outlet valve or wellhead system, whichever is lower	ITP
Choke manifold—upstream of chokes <sup>e</sup>	250 to 350 (1.72 to 2.41)	RWP of ram preventers or wellhead system, whichever is lower	ITP
Choke manifold—downstream of chokese	250 to 350 (1.72 to 2.41)	RWP of valve(s), line(s), or N whichever is lower	MASP for the well program,
Kelly, kelly valves, drill pipe safety valves, IBOPs	250 to 350 (1.72 to 2.41)	MASP for the well program	
	during the evaluation period. The	pressure shall not decrease below the allest OD drill pipe to be used in well	Annual Control of the
pressure-controlling connections	when the integrity of a pressure se		
	land operations, the ram BOPs sha	sted with the ram locks engaged and all be pressure tested with the ram lo	

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 0 and 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

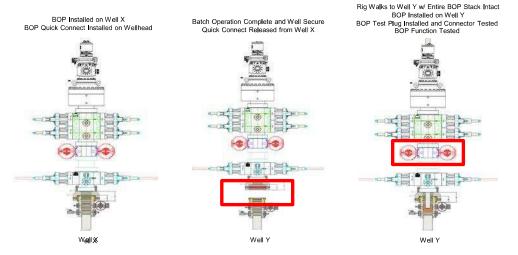
each BOP nipple up, XTO Energy performs a choke drill with the rig crew prior to drilling out every casing shoe. This is additional training for the rig crew that exceeds the requirements of the CFR Title 43 Part 3170.

### **Procedures**

- 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



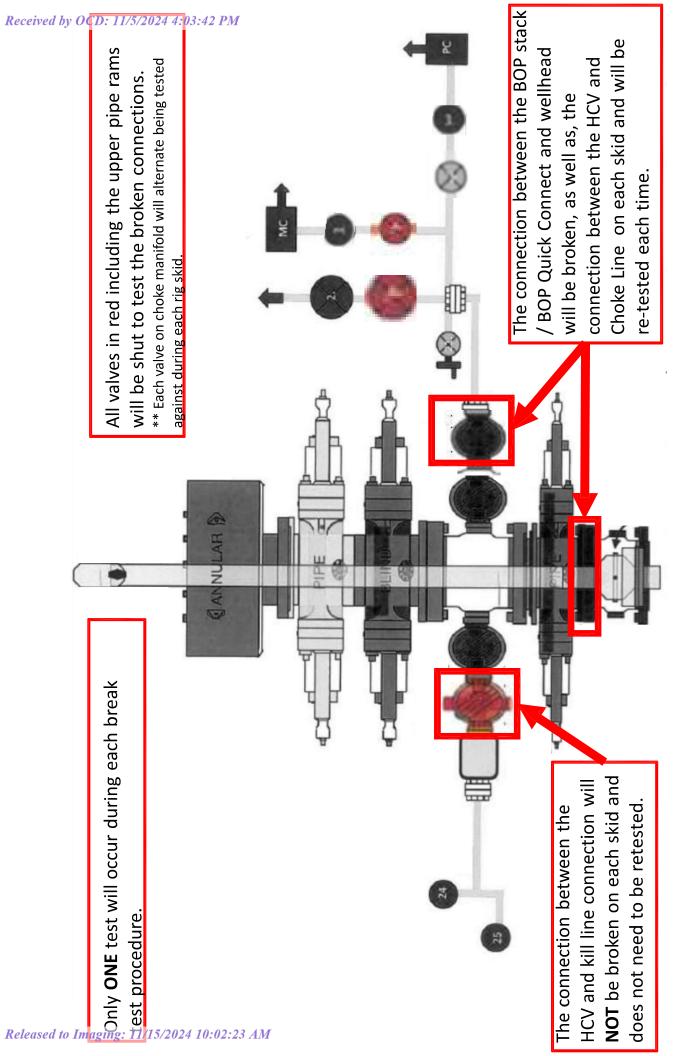
### Summary

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 23 DTD South 452H

Well Plan Report

14/24, 6:21 АМ Well Plan Report - Poker Lake Unit 23 DTD	pth: 23739.67 ft	10556.00 ft		hic New Mexico East - System: NAD 27	439395.30 ft	650074.30 ft	3461.00 ft	3429.00 ft	grence: Grid	Convergence Angle: 0.26 Deg
3/14/24, 6:21 AM Well Plan I	Measured Depth:	TVD RKB:	Pocation	Cartographic Reference System:	Northing:	Easting:	:: RKB:	Ground Level:	North Reference:	Converger

	Poker Lake Unit 23 D I D South 452H <b>TVD</b>	D1D South 452H <b>TVD</b>			Build	Turn	Dogleg
Inclination	Azimuth	RKB	Y Offset	X Offset	Rate	Rate	Rate
(Deg)	(Ded)	(ft)	(ft)	æ	(Deg/100ft)	(Deg/100ft)	(Deg/100ft) Target
0.00	0.00	0.00	0.00	0.00	00.00	00.00	0.00
00.00	0.00	1100.00	00.00	0.00	00.00	00.00	0.00
22.43	300.17	2193.24	108.97	-187.42	2.00	00.00	2.00
22.43	300.17	6606.76	1024.83	-1762.68	00.00	00.00	0.00
00.00	0.00	7700.00	1133.80	-1950.10	-2.00	00.00	2.00
00.00	0.00	9839.80	1133.80	-1950.10	00.00	00.00	0.00
90.00	179.66	10556.00	417.62	-1945.88	8.00	00.00	8.00
00.06	179.66	10556.00	-11848.50	-1873.51	00.00	00.00	0.00 LTP 13
90.00	179.66	10556.00	-11938.81	-1872.98	0.00	00.00	0.00 BHL 13

	Tool	ח Used	
	Semi- minor	Azimut	
	Semi- Semi- major minor	Error	
	Semi- major	Error	
	Magnitude	of Bias Error Error Azimuth Used	
		Bias	HHTML
	Vertical	Error	South452F
Į		Bias	t23DTD\$
South 452	Lateral	Error	terLakeUni
3 DTD		Bias	orts/Pok
Poker Lake Unit 23 DTD South 452H	TVD Highside	Error Bias Error Bias Error	anning/Rep
Poker L	ΔΛΙ	RKB	ace/WellPla
^		Depth Inclination Azimuth	ile:///C:/Users/arsriva/Landmark/DecisionSpace/WellPlanning/Reports/PokerLakeUnit23DTDSouth452H.HTML
certaint		Inclinati	sriva/Lan
Position Uncertainty	Measured	Depth	file:///C:/Users/ar
			•

(ft)  (ft)  0.000 10000 200.000 300.000 400.000 700.000 1100.000 1200.000 1200.000 1400.000 1500.000 1200.000 2200.000 2200.000 2200.000 2200.000 2200.000 2200.000 2200.000 2200.000 2200.000 2200.000 2200.000 2200.000 2200.000 2200.000 2200.000	Well Plan Report	(°) (ft) (ft) (ft) (ft) (ft) (ft) (ft) (ft	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 100.000 0.358 0.000 0.179 0.000 2.300 0.000 0.358 0.179 90.000 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 200.000 0.717 0.000 0.538 0.000 2.310 0.000 0.000 0.717 0.538 90.000 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 300.000 1.075 0.000 0.896 0.000 2.326 0.000 0.000 1.075 0.896 90.000 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 400.000 1.434 0.000 1.255 0.000 2.347 0.000 0.000 1.434 1.255 90.000 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 500.000 1.792 0.000 1.613 0.000 2.375 0.000 0.000 1.792 1.613 90.000 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 600.000 2.151 0.000 1.972 0.000 2.407 0.000 0.000 2.151 1.972 90.000 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 700.000 2.509 0.000 2.330 0.000 2.445 0.000 0.000 2.509 2.330 90.000 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 800.000 2.868 0.000 2.689 0.000 2.486 0.000 0.000 2.868 2.689 90.000 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 900.000 3.226 0.000 3.047 0.000 2.533 0.000 0.000 3.226 3.047 90.000 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 1000.000 3.585 0.000 3.405 0.000 2.583 0.000 0.000 3.585 3.405 90.000 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 1100.000 3.943 0.000 3.764 0.000 2.636 0.000 0.000 3.943 3.764 90.000 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	2.000 300.174 1199.980 4.162 0.000 4.253 0.000 2.692 0.000 0.000 4.298 4.118 89.905 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	4.000 300.174 1299.838 4.507 0.000 4.604 0.000 2.750 0.000 0.000 4.650 4.469 89.576 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	6.000 300.174 1399.452 4.847 0.000 4.956 0.000 2.808 0.000 0.000 5.005 4.820 89.232 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	8.000 300.174 1498.702 5.182 0.000 5.310 0.000 2.868 0.000 0.000 5.360 5.170 88.984 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	10.000 300.174 1597.465 5.511 0.000 5.665 0.000 2.928 0.000 0.000 5.717 5.519 88.941 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	12.000 300.174 1695.623 5.833 0.000 6.021 0.000 2.991 0.000 0.000 6.075 5.867 89.197 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	14.000 300.174 1793.055 6.150 0.000 6.379 0.000 3.057 0.000 0.000 6.435 6.213 89.821 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	16.000 300.174 1889.643 6.459 0.000 6.740 0.000 3.125 0.000 0.000 6.797 6.557 90.845 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	18.000 300.174 1985.268 6.761 0.000 7.105 0.000 3.198 0.000 0.000 7.161 6.899 92.262 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	20.000 300.174 2079.816 7.055 0.000 7.474 0.000 3.276 0.000 0.000 7.530 7.237 94.015 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	22.000 300.174 2173.169 7.342 0.000 7.849 0.000 3.360 0.000 0.000 7.904 7.572 96.014 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	7 22.434 300.174 2193.237 7.403 0.000 7.930 0.000 3.372 0.000 0.000 7.985 7.647 96.218 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	22.434 300.174 2265.632 7.677 0.000 8.229 0.000 3.456 0.000 0.000 8.282 7.903 98.065 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	22.434 300.174 2358.064 8.029 0.000 8.616 0.000 3.570 0.000 0.000 8.667 8.230 100.102 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	22.434 300.174 2450.497 8.383 0.000 9.008 0.000 3.689 0.000 0.000 9.057 8.558 101.739 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	22.434 300.174 2542.929 8.739 0.000 9.404 0.000 3.812 0.000 0.000 9.451 8.888 103.070 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	22.434 300.174 2635.361 9.097 0.000 9.803 0.000 3.939 0.000 0.000 9.849 9.219 104.167 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	22.434 300.174 2727.794 9.456 0.000 10.205 0.000 4.070 0.000 0.000 10.251 9.552 105.082 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	22.434 300.174 2820.226 9.817 0.000 10.610 0.000 4.205 0.000 0.000 10.656 9.885 105.854 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	3000.000 22.434 300.174 2912.658 10.179 0.000 11.018 0.000 4.342 0.000 0.000 11.063 10.219 106.512 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
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Well Plan Report	0.000 0.000 11.885 10.891 107.572 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 12.298 11.228 108.003 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 12.714 11.566 108.383 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 13.130 11.904 108.721 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 13.549 12.243 109.022 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 13.968 12.583 109.292 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 14.389 12.924 109.536 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 14.810 13.264 109.757 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 15.233 13.606 109.958 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 15.656 13.948 110.142 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 16.080 14.290 110.310 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 16.505 14.633 110.465 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 16.931 14.976 110.608 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 17.357 15.319 110.739 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 17.784 15.663 110.862 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 18.211 16.007 110.976 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 18.639 16.352 111.082 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 19.067 16.696 111.180 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 19.496 17.041 111.273 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 19.925 17.387 111.360 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 20.355 17.732 111.441 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 20.784 18.078 111.518 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 21.215 18.425 111.590 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 21.645 18.771 111.658 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 22.076 19.118 111.722 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 22.507 19.465 111.782 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 22.939 19.812 111.840 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 23.370 20.159 111.894 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 23.802 20.507 111.946 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 24.234 20.855 111.995 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 24.667 21.203 112.041 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 25.099 21.551 112.086 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 25.532 21.899 112.128 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 25.965 22.248 112.168 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
	4.625	4.771	4.918	5.068	5.220	5.374	5.530	5.687	5.846	6.007	6.170	6.334	6.499	999'9	6.834	7.004	7.175	7.348	7.521	7.697	7.873	8.051	8.230	8.411	8.593	8.776	8.961	9.147	9.334	9.523	9.713	9.905	10.098	10.292
	10.905 0.000 11.839 0.000	11.270 0.000 12.253 0.000	11.635 0.000 12.668 0.000	12.001 0.000 13.084 0.000	12.368 0.000 13.502 0.000	12.736 0.000 13.921 0.000	13.103 0.000 14.341 0.000	13.472 0.000 14.762 0.000	13.841 0.000 15.184 0.000	14.210 0.000 15.607 0.000	14.580 0.000 16.030 0.000	14.950 0.000 16.455 0.000	15.320 0.000 16.880 0.000	15.691 0.000 17.305 0.000	16.062 0.000 17.731 0.000	16.433 0.000 18.158 0.000	16.804 0.000 18.585 0.000	17.176 0.000 19.013 0.000	17.548 0.000 19.441 0.000	17.920 0.000 19.869 0.000	18.292 0.000 20.298 0.000	18.665 0.000 20.727 0.000	19.038 0.000 21.157 0.000	19.411 0.000 21.586 0.000	19.784 0.000 22.016 0.000	20.157 0.000 22.447 0.000	20.530 0.000 22.877 0.000	20.903 0.000 23.308 0.000	21.277 0.000 23.739 0.000	21.651 0.000 24.170 0.000	22.024 0.000 24.602 0.000	22.398 0.000 25.034 0.000	22.772 0.000 25.466 0.000	23.146 0.000 25.898 0.000
	3097,523	3189.955	3282.387	3374.820	3467.252	3559.684	3652.116	3744.549	3836.981	3929.413	4021.846	4114.278	4206.710	4299.142	4391.575	4484.007	4576.439	4668.871	4761.304	4853.736	4946.168	5038.601	5131.033	5223.465	5315.897	5408.330	5500,762	5593.194	5685.627	5778.059	5870.491	5962.923	6055.356	6147.788
	300.174	300.174	300.174	300.174	300.174	300.174	300.174	300.174	300.174	300.174	300.174	300.174	300.174	300.174	300.174	300.174	300.174	300.174	300.174	300.174	300.174	300.174	300.174	300.174	300.174	300.174	300.174	300.174	300.174	300.174	300.174	300.174	300.174	300.174
	22.434	22.434	22.434	22.434	22.434	22.434	22.434	22.434	22.434	22.434	22.434	22.434	22.434	22.434	22.434	22.434	22.434	22.434	22.434	22.434	22.434	22.434	22.434	22.434	22.434	22.434	22.434	22.434	22.434	22.434	22.434	22.434	22.434	22.434
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Well Plan Report	0.000 0.000 26.398 22.597 112.207 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 26.831 22.946 112.243 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 27.264 23.295 112.278 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 27.698 23.645 112.311 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 28.117 23.982 112.342 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 28.131 23.994 112.343 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 28.558 24.344 112.365 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 28.970 24.696 112.369 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 29.369 25.049 112.355 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 29.755 25.403 112.327 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 30.127 25.756 112.287 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 30.487 26.109 112.238 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 30.835 26.460 112.181 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 31.172 26.808 112.119 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 31.497 27.153 112.054 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 31.813 27.493 111.989 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 32.120 27.829 111.925 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 32.175 27.889 111.915 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 32.426 28.156 111.884 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 32.735 28.484 111.846 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 33.044 28.812 111.808 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 33.354 29.141 111.771 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 33.665 29.470 111.734 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 33.978 29.801 111.698 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 34.291 30.131 111.662 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 34.605 30.463 111.627 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 34.920 30.795 111.592 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 35.235 31.128 111.557 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 35.552 31.461 111.523 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 35.869 31.795 111.489 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 36.187 32.129 111.455 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 36.506 32.464 111.422 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 36.825 32.799 111.389 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	10.488	10.685	10.884	11.084	11.278	11.285	11.487	11.686	11.878	12.064	12.244	12.417	12.585	12.746	12.903	13.054	13.200	13.227	13.345	13.492	13.642	13.796	13 953	14.113	14.277	14.444	14.615	14.789	14.966	15.147	15 331	15.518	15.709	15,004
	26.330 0.000	26.762 0.000	27.195 0.000	27.627 0.000	28.045 0.000	28.060 0.000	28.486 0.000	28.897 0.000	29.295 0.000	29.680 0.000	30.051 0.000	30.410 0.000	30.756 0.000	31.092 0.000	31.417 0.000	31.731 0.000	32.037 0.000	28.525 0.000	28.788 0.000	29.109 0.000	29.432 0.000	29.756 0.000	30.080 0.000	30.405 0.000	30,731 0,000	31.058 0.000	31,385 0,000	31,713 0.000	32.042 0.000	32.371 0.000	32.701 0.000	33.031 0.000	33.363 0.000	000 0 709
	0.000	0.000 26	0.000 27	0.000	0.000	0.000	0.000 28	0.000 28.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000 29	0.000	0.000 30	0000 30	0.000	0000	000.0	000.0	0.000 32	0.000 32	0 000 33	0.000	0 000 33 694
	23,520	23.895	24.269	24.643	25.005	25.020	25.445	25.841	26.206	26.541	26.844	27.115	27.353	27.558	27.729	27.866	27.970	31.613	31.867	32.180	32.493	32.807	33 122	33.437	33.754	34.072	34.390	34.709	35.029	35 350	35.671	35 993	36.316	36 639 0 000
	6240.220	6332.652	6425.085	6517.517	6606.763	6609.950	6703.073	6797.411	6892.849	6989.270	7086.557	7184.591	7283.254	7382.424	7481.981	7581.803	7681.770	7700.000	7781.770	7881.770	7981.770	8081.770	8181 770	8281.770	8381 770	8481.770	8581.770	8681.770	8781.770	8881.770	8981 770	9081.770	9181.770	9281 770
	300.174	300.174	300.174	300.174	300.174	300.174	300.174	300.174	300.174	300.174	300.174	300.174	300.174	300.174	300.174	300.174	300.174	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0000
	22.434	22.434	22.434	22.434	22.434	22.365	20.365	18.365	16.365	14.365	12.365	10.365	8.365	6.365	4.365	2.365	0.365	0.000	000'0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0000
3/14/24, 6:21 AM	000'0099	6700.000	6800.000	000'0069	6996.553	7000.000	7100.000	7200.000	7300.000	7400.000	7500.000	7600.000	7700.000	7800.000	7900.000	8000.000	8100.000	8118.230	8200,000	8300.000	8400.000	8500.000	8600.000	8700.000	8800,000	8900.000	000'0006	9100.000	9200.000	9300.000	9400.000	9200.000	9600.000	9700 000
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Well Plan Report	0.000 0.000 9381.770 36.963 0.000 34.026 0.000 16.102 0.000 0.000 37.467 33.471 111.325 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 9481.770 37.288 0.000 34.359 0.000 16.303 0.000 0.000 37.788 33.808 111.293 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 9581.770 37.613 0.000 34.692 0.000 16.508 0.000 0.000 38.110 34.145 111.262 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 9681.770 37.939 0.000 35.026 0.000 16.717 0.000 0.000 38.433 34.482 111.231 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 9781.770 38.265 0.000 35.360 0.000 16.929 0.000 0.000 38.757 34.820 111.200 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	0.000 0.000 9839.800 38.455 0.000 35.554 0.000 17.053 0.000 0.000 38.945 35.017 111.182 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	3.358 179.662 9881.746 38.306 0.000 35.706 -0.000 17.143 0.000 0.000 39.073 35.153 111.196 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	11.358 179.662 9980.842 37.537 0.000 36.013 -0.000 17.350 0.000 0.000 39.353 35.457 111.324 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	19.358 179.662 10077.192 36.184 0.000 36.305 -0.000 17.544 0.000 0.000 39.614 35.744 111.520 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	27.358 179.662 10168.923 34.297 0.000 36.579 -0.000 17.725 0.000 0.000 39.850 36.008 111.801 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	35.358 179.662 10254.247 31.953 0.000 36.831 -0.000 17.896 0.000 0.000 40.053 36.249 112.168 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	43.358 179.662 10331.505 29.260 0.000 37.059 -0.000 18.056 0.000 0.000 40.220 36.463 112.612 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	51.358 179.662 10399.192 26.374 0.000 37.262 -0.000 18.209 0.000 0.000 40.350 36.651 113.115 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	59.358 179.662 10455.991 23.511 0.000 37.437 -0.000 18.358 0.000 0.000 40.443 36.813 113.645 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	67.358 179.662 10500.797 20.976 0.000 37.584 -0.000 18.505 0.000 0.000 40.502 36.949 114.160 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	75.358 179.662 10532.737 19.163 0.000 37.701 -0.000 18.651 0.000 0.000 40.532 37.060 114.602 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	83.358 179.662 10551.190 18.477 0.000 37.788 -0.000 18.799 0.000 0.000 40.540 37.149 114.898 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	90.000 179.662 10555.997 18.922 0.000 37.835 -0.000 18.922 0.000 0.000 40.534 37.205 114.967 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	90.000 179.662 10555.997 18.947 0.000 37.841 -0.000 18.947 0.000 0.000 40.532 37.214 114.957 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	90.000 179.662 10555.997 19.103 0.000 37.894 -0.000 19.103 0.000 0.000 40.520 37.280 114.997 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	90.000 179.662 10555.997 19.269 0.000 37.960 -0.000 19.269 0.000 0.000 40.512 37.357 115.121 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	90.000 179.662 10555.997 19.443 0.000 38.038 -0.000 19.443 0.000 0.000 40.506 37.445 115.338 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	90.000 179.662 10555.997 19.627 0.000 38.129 -0.000 19.627 0.000 0.000 40.503 37.542 115.657 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	90.000 179.662 10555.997 19.819 0.000 38.232 -0.000 19.819 0.000 0.000 40.503 37.649 116.091 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	90.000 179.662 10555.997 20.020 0.000 38.347 -0.000 20.020 0.000 0.000 40.506 37.767 116.657 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	90.000 179.662 10555.997 20.229 0.000 38.474 -0.000 20.229 0.000 0.000 40.513 37.893 117.373 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	90.000 179.662 10555.997 20.446 0.000 38.614 -0.000 20.446 0.000 0.000 40.524 38.027 118.267 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	90.000 179.662 10555.997 20.670 0.000 38.765 -0.000 20.670 0.000 0.000 40.539 38.170 119.371 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	90.000 179.662 10555.997 20.902 0.000 38.929 -0.000 20.902 0.000 0.000 40.560 38.319 120.722 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	90.000 179.662 10555.997 21.142 0.000 39.103 -0.000 21.142 0.000 0.000 40.588 38.475 122.370 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	90.000 179.662 10555.997 21.388 0.000 39.290 -0.000 21.388 0.000 0.000 40.624 38.634 124.368 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	90.000 179.662 10555.997 21.641 0.000 39.487 -0.000 21.641 0.000 0.000 40.669 38.795 126.776 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23	
	0.000	0.000	0.000	0.000	0.000	0.000	179.662	179.662	179.662	179.662	179.662	179.662	179.662	179.662	179.662	179.662	179.662	179.662	179.662	179.662	179.662	179.662	179.662	179.662	179.662	179.662	179.662	179.662	179.662	179.662	179 662		179,662
	000.0	0.000	0.000	0.000	0.000	0.000	3.358	11.358	19.358	27.358	35.358	43.358	51.358	59.358	67.358	75.358	83.358	90.000	90.000	90.000	90.000	90.000	90.000	90.000	90.000	90.000	000.06	90.000	90.000	90.000	90.000	90.000	90 000
3/14/24, 6:21 AM	000'0086	000.0066	10000.000	10100.000	10200.000	10258.030	10300.000	10400.000	10:000.000	10600.000	000 <sup>.</sup> 00201	10800.000	10900.000	11000.000	11100.000	11200.000	11300.000	11383.030	11400.000	11500.000	11600.000	11700.000	11800.000	11900.000	12000.000	12100.000	12200.000	12300.000	12400.000	12500.000	12600.000	12700.000	12800 000

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Wel	22.438 0.000	22.716 0.000	22.999 0.000	23.288 0.000	23.582 0.000	23.881 0.000	24.185 0.000	24.493 0.000	24.806 0.000	25.123 0.000	25.445 0.000	25.770 0.000	26.100 0.000	26.433 0.000	26.769 0.000	27.109 0.000	27.453 0.000	27.799 0.000	28.149 0.000	28.501 0.000	28.857 0.000	29.215 0.000	29.576 0.000	29.939 0.000	30.305 0.000	30.673 0.000	31.044 0.000	31.416 0.000	31.791 0.000	32.168 0.000	32.547 0.000	32.927 0.000	33.310 0.000	33.694 0.000
	40.147 -0.000	40.388 -0.000	40.640 -0.000	40.901 -0.000	41.173 -0.000	41.455 -0.000	41.747 -0.000	42.047 -0.000	42.357 -0.000	42.677 -0.000	43.004 -0.000	43.341 -0.000	43.686 -0.000	44.039 -0.000	44.401 -0.000	44.770 -0.000	45.147 -0.000	45.531 -0.000	45.922 -0.000	46.321 -0.000	46.726 -0.000	47.139 -0.000	47.558 -0.000	47.983 -0.000	48.414 -0.000	48.852 -0.000	49.295 -0.000	49.744 -0.000	50.199 -0.000	50.659 -0.000	51.124 -0.000	51.595 -0.000	52.070 -0.000	52.551 -0.000
	22.438 0.000	22.716 0.000	22.999 0.000	23.288 0.000	23.582 0.000	23.881 0.000	24.185 0.000	24.493 0.000	24.806 0.000	25.123 0.000	25.445 0.000	25.770 0.000	26.100 0.000	26.433 0.000	26.769 0.000	27.109 0.000	27.453 0.000	27.799 0.000	28.149 0.000	28.501 0.000	28.857 0.000	29.215 0.000	29.576 0.000	29.939 0.000	30.305 0.000	30.673 0.000	31.044 0.000	31.416 0.000	31.791 0.000	32.168 0.000	32.547 0.000	32.927 0.000	33.310 0.000	33.694 0.000
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Well Plan Report	0.000 53.036 40.694	0.000 53.526 40.723	0.000 54.021 40.753	0.000 54.520 40.784	0.000 55.023 40.815	0.000 55.530 40.847	0.000 56.042 40.879	0.000 56.557 40.912	0.000 57.076 40.945	0.000 57.599 40.979	0.000 58.125 41.014	0.000 58.655 41.048	0.000 59.188 41.084	0.000 59.725 41.120	0.000 60.265 41.157	0.000 60.808 41.194	0.000 61.354 41.231	0.000 61.903 41.270	0.000 62.455 41.309	0.000 63.009 41.348	0.000 63.567 41.388	0.000 64.127 41.428	0.000 64.690 41.469	0.000 65.255 41.511	0.000 65.822 41.553	0.000 66.393 41.595	0.000 66.965 41.639	0.000 67.540 41.682	0.000 68.117 41.727	0.000 68.696 41.771	0.000 69.277 41.817	0.000 69.860 41.863	0.000 70.445 41.909	0.000 71.033 41.956
Wel	34.080 0.000	34.468 0.000	34.858 0.000	35.248 0.000	35.641 0.000	36.035 0.000	36.430 0.000	36.827 0.000	37.225 0.000	37.624 0.000	38.024 0.000	38.426 0.000	38.829 0.000	39.233 0.000	39.638 0.000	40.044 0.000	40 451 0 000	40.860 0.000	41.269 0.000	41.679 0.000	42.090 0.000	42.502 0.000	42.914 0.000	43.328 0.000	43.742 0.000	44.157 0.000	44.573 0.000	44.990 0.000	45.407 0.000	45.825 0.000	46.244 0.000	46.664 0.000	47.084 0.000	47.504 0.000
	34.080 0.000 53.036 -0.000	34.468 0.000 53.526 -0.000	34.858 0.000 54.020 -0.000	35.248 0.000 54.518 -0.000	35.641 0.000 55.021 -0.000	36.035 0.000 55.528 -0.000	36.430 0.000 56.039 -0.000	36.827 0.000 56.554 -0.000	37.225 0.000 57.073 -0.000	37.624 0.000 57.595 -0.000	38.024 0.000 58.121 -0.000	38.426 0.000 58.650 -0.000	38.829 0.000 59.183 -0.000	39.233 0.000 59.719 -0.000	39.638 0.000 60.259 -0.000	40.044 0.000 60.801 -0.000	40.451 0.000 61.347 -0.000	40.860 0.000 61.895 -0.000	41.269 0.000 62.447 -0.000	41.679 0.000 63.001 -0.000	42.090 0.000 63.558 -0.000	42.502 0.000 64.118 -0.000	42.914 0.000 64.680 -0.000	43.328 0.000 65.245 -0.000	43,742 0.000 65,812 -0.000	44.157 0.000 66.382 -0.000	44.573 0.000 66.954 -0.000	44.990 0.000 67.528 -0.000	45,407 0.000 68,105 -0.000	45.825 0.000 68.684 -0.000	46.244 0.000 69.264 -0.000	46.664 0.000 69.847 -0.000	47.084 0.000 70.432 -0.000	47.504 0.000 71.019 -0.000
	179.662 10555.997	179.662 10555.997	179.662 10555.997	179.662 10555.997	179.662 10555.997	179.662 10555.997	179.662 10555.997	179.662 10555.997	179.662 10555.997	179.662 10555.997	179.662 10555.997	179.662 10555.997	179.662 10555.997	179.662 10555.997	179.662 10555.997	179.662 10555.997	179.662 10555.997	179.662 10555.997	179.662 10555.997	179.662 10555.997	179.662 10555.997	179.662 10555.997	179.662 10555.997	179.662 10555.997	179.662 10555.997	179.662 10555.997	179.662 10555.997	179.662 10555.997	179.662 10555.997	179.662 10555.997	179.662 10555.997	179.662 10555.997	179.662 10555.997	179.662 10555.997
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23300.000	90.000	90.000 179.662 10555.997	1555.997	62.963 0.000 93.135 -0.000	62.963 0.000	0.000 93.155 43.984	0.991 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
23400.000	90.000	90.000 179.662 10555.997	1555.997	63.399 0.000 93.770 -0.000	63.399 0.000	0.000 93.790 44.049	0.987 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
23500.000	90.000	90.000 179.662 10555.997	1555.997	63.835 0.000 94.406 -0.000	63.835 0.000	0.000 94.426 44.115	0.983 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
23600.000	90.000	90.000 179.662 10555.997	1555.997	64.271 0.000 95.042 -0.000	64.271 0.000	0.000 95.062 44.181	0.979 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
23649.357	90.000	90.000 179.662 10555.997	1555.997	64.487 0.000 95.356 -0.000	64.487 0.000	0.000 95.376 44.214	0.977 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
23700.000	90.000	90.000 179.662 10555.997	1555.997	64.708 0.000 95.679 -0.000	-0.000 64.708 0.000	0.000 95.698 44.248	0.975 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
23739.669	90.000	90.000 179.662 10555.997	1555.997	64.881 0.000 95.931 -0.000	-0.000 64.881 0.000	0.000 95.951 44.274	0.974 MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
Plan Targets			Poker Lake	Poker Lake Unit 23 DTD South 452H			
				Measured Depth	<b>Grid Northing</b>	Grid Easting	TVD MSL Target Shape
Target Name				(#)	(ft)	(ft)	(ft)
FTP 13				11097.66	440529.10	648124.20	7095.00 RECTANGLE
SHL 13				13770.70	439393.67	650092.31	6904.00 RECTANGLE
LTP 13				23649.77	427546.40	648200.70	7095.00 RECTANGLE
BHL 13				23740.26	427456.40	648201.90	7095.00 RECTANGLE

### PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: XTO

LEASE NO.: NMNM030452

LOCATION: Sec. 23, T.24 S, R 30 E

COUNTY: Eddy County, New Mexico

WELL NAME & NO.: Poker Lake Unit 23 DTD 452H

**SURFACE HOLE FOOTAGE:** 1247'/N & 1741'/E **BOTTOM HOLE FOOTAGE:** 2627'/N & 1664'/W

COA

$H_2S$	•	No	O Yes		
Potash /	None	<ul><li>Secretary</li></ul>	O R-111-Q	☐ Open Annulus	
WIPP	Choose	Choose an option (including blank option.)			
Cave / Karst	O Low	• Medium	O High	Critical	
Wellhead	Conventional	• Multibowl	O Both	<ul><li>Diverter</li></ul>	
Cementing	Primary Squeeze	☐ Cont. Squeeze	EchoMeter	□ DV Tool	
Special Req	☐ Capitan Reef	☐ Water Disposal	$\square$ COM	Unit	
Waste Prev.	O Self-Certification	O Waste Min. Plan	• APD Submitted prior to 06/10/2024		
Additional	▼ Flex Hose	Casing Clearance	☐ Pilot Hole	Break Testing	
Language	☐ Four-String	Offline Cementing	✓ Fluid-Filled		

### A. HYDROGEN SULFIDE

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

### **B. CASING**

- 1. The **9-5/8** inch surface casing shall be set at approximately **780** 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 <u>500 pounds compressive strength</u>, 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 6610'.
  - 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.
  - ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

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 **200 feet** into the previous casing. 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.

Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.

- a. 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.
- b. Manufacturer representative shall install the test plug for the initial BOP test.
- c. 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.
- d. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172 must be followed.

### D. SPECIAL REQUIREMENT (S)

### **Unit Wells**

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

### **Commercial Well Determination**

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

### **BOPE Break Testing Variance**

- BOPE Break Testing is ONLY permitted for intervals utilizing a 5M BOPE or less. (Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP.)
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle
- Any well control event while drilling require notification to the BLM Petroleum Engineer (575-706-2779) prior to the commencement of any BOPE Break Testing operations.

- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-361-2822 Eddy County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per 43 CFR 3172.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

### **Offline Cementing**

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

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

### **Casing Clearance**

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

### **GENERAL REQUIREMENTS**

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

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

### **Contact Eddy County Petroleum Engineering Inspection Staff:**

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

- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
  - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
  - b. When the operator proposes to set surface casing with Spudder Rig
    - i. Notify the BLM when moving in and removing the Spudder Rig.
    - ii. Notify the BLM when moving in the 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 10/29/2024 575-234-5998 / zstevens@blm.gov



### **HYDROGEN SULFIDE (H2S) CONTINGENCY PLAN**

### **Assumed 100 ppm ROE = 3000'**

100 ppm H2S concentration shall trigger activation of this plan.

### **Emergency Procedures**

In the event of a release of gas containing 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	H₂S	1.189 Air = I	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO <sub>2</sub>	2.21 Air = I	2 ppm	N/A	1000 ppm

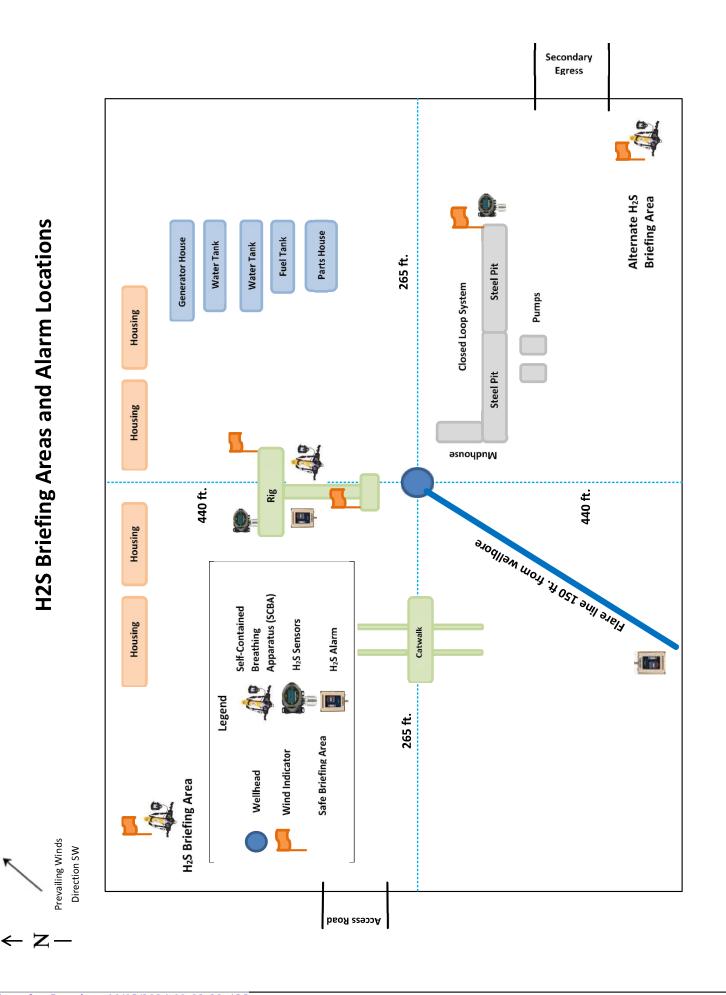
### **Contacting Authorities**

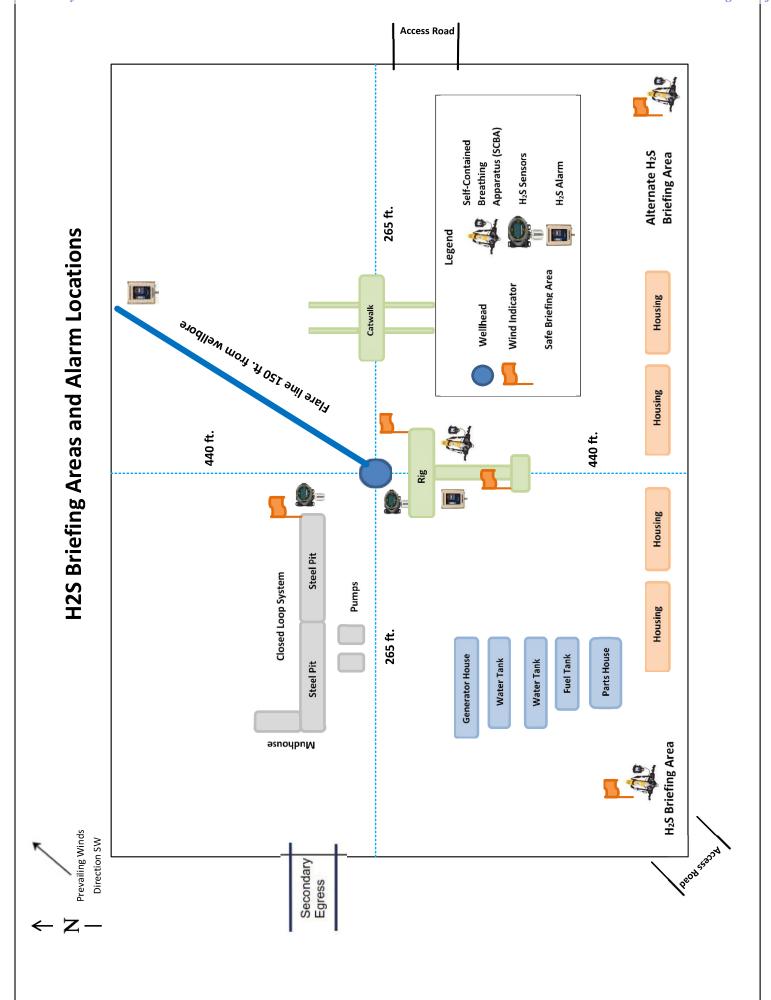
All XTO location personnel must liaison with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction, 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).

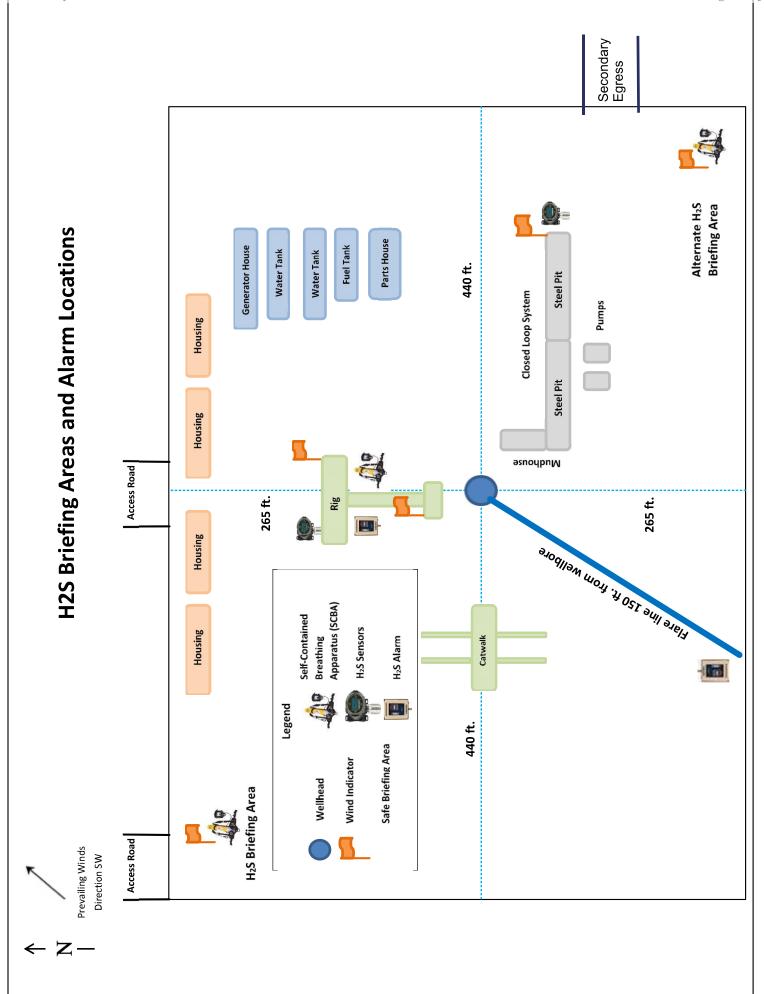
### **CARLSBAD OFFICE – EDDY & LEA COUNTIES**

3104 E. Greene St., Carlsbad, NM 88220 Carlsbad, NM	575-887-7329
XTO PERSONNEL: Will Dacus, Drilling Manager Brian Dunn, Drilling Supervisor Robert Bartels, Construction Execution Planner Andy Owens, EH & S Manager Frank Fuentes, Production Foreman	832-948-5021 832-653-0490 406-478-3617 903-245-2602 575-689-3363
SHERIFF DEPARTMENTS:	
Eddy County	575-887-7551
Lea County Lea County	575-396-3611
NEW MEXICO STATE POLICE:	575-392-5588
FIRE DEPARTMENTS: Carlsbad Eunice Hobbs Jal Lovington	911 575-885-2111 575-394-2111 575-397-9308 575-395-2221 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 New Mexico Oil Conservation Division – Hobbs	575-393-3612 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**







**Operator Name: XTO PERMIAN OPERATING LLC** 

Well Name: POKER LAKE UNIT 23 DTD Well Number: 452H

Safe containment attachment:

Waste disposal type: HAUL TO COMMERCIAL Disposal location ownership: COMMERCIAL

**FACILITY** 

Disposal type description:

Disposal location description: A licensed 3rd party contractor will be used to haul and dispose of garbage.

### **Reserve Pit**

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit? NO

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

Reserve pit depth (ft.)

Reserve pit volume (cu. yd.)

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

Reserve pit liner

Reserve pit liner specifications and installation description

### **Cuttings Area**

Cuttings Area being used? NO

Are you storing cuttings on location? Y

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

Cuttings area length (ft.)

Cuttings area width (ft.)

Cuttings area depth (ft.)

Cuttings area volume (cu. yd.)

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

**WCuttings** area liner

Cuttings area liner specifications and installation description

### **Section 8 - Ancillary**

Are you requesting any Ancillary Facilities?: N

**Ancillary Facilities** 

**Operator Name:** XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 23 DTD Well Number: 452H

### **Section 9 - Well Site**

### Well Site Layout Diagram:

PLU 23 DTD 452H RL 20240415132159.pdf PLU\_23\_DTD\_452H\_Well\_20240415132201.pdf

Comments: Multi-well pad.

### **Section 10 - Plans for Surface Reclamation**

Type of disturbance: No New Surface Disturbance Multiple Well Pad Name: POKER LAKE UNIT 23 DTD

Multiple Well Pad Number: C

### Recontouring

PLU\_23\_DTD\_IR1\_20240411181254.pdf PLU 23 DTD IR2 20240411181254.pdf PLU 23 DTD IR3 20240411181254.pdf PLU\_23\_DTD\_IR4\_20240411181254.pdf

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

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

Well pad proposed disturbance (acres):

Well pad interim reclamation (acres): 0 Well pad long term disturbance (acres): 0

Road proposed disturbance (acres):

Road interim reclamation (acres): 0

Road long term disturbance (acres): 0

Powerline proposed disturbance

Powerline interim reclamation (acres): Powerline long term disturbance

(acres): Pipeline proposed disturbance

(acres): 0 Pipeline interim reclamation (acres): 0 Pipeline long term disturbance

(acres):

(acres): 0

Other proposed disturbance (acres):

Other interim reclamation (acres): 0

Other long term disturbance (acres): 0

Total proposed disturbance: 0

Total interim reclamation: 0

Total long term disturbance: 0

### **Disturbance Comments:**

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

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

Soil treatment: A self-sustaining, vigorous, diverse, native (or otherwise approved) plan community will be established on Recessed เดาเก็บเลยเลย เปรียบเลย เปรียบเลย เลย invasion by non-native plants and to re-establish wildlife habitat or forage production. At a minimum, the established plant community will consist of

**Operator Name: XTO PERMIAN OPERATING LLC** 

Well Name: POKER LAKE UNIT 23 DTD Well Number: 452H

species included in the seed mix and/or desirable species occurring in the surrounding natural vegetation.

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

Existing Vegetation at the well pad

<style isBold=&quot;true&quot;&gt;Existing Vegetation Community at the road:&lt;/style&gt; 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=&quot;true&quot;&gt;Existing Vegetation Community at the pipeline:&lt;/style&gt; 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=&quot;true&quot;&gt;Existing Vegetation Community at other disturbances:&lt;/style&gt; 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:

Sante Fe Main Office Phone: (505) 476-3441

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS

Action 399773

### **CONDITIONS**

| Operator:                  | OGRID:  |
|----------------------------|---|
| XTO PERMIAN OPERATING LLC. | 373075  |
| 6401 HOLIDAY HILL ROAD     | Action Number:  |
| MIDLAND, TX 79707          | 399773  |
|                            | Action Type:  |
|                            | [C-101] BLM - Federal/Indian Land Lease (Form 3160-3) |

### CONDITIONS

| Created By  | Condition   | Condition Date |
|-------------|---|----------------|
| tsebastian  | Cement is required to circulate on both surface and intermediate1 strings of casing.  | 11/5/2024      |
| tsebastian  | If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.  | 11/5/2024      |
| ward.rikala | Notify the OCD 24 hours prior to casing & cement.   | 11/15/2024     |
| ward.rikala | File As Drilled C-102 and a directional Survey with C-104 completion packet.  | 11/15/2024     |
| 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. | 11/15/2024     |
| 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.                  | 11/15/2024     |