

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

APPLICATION FOR PERMIT TO DRILL OR REENTER

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

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NMNM030452
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		6. If Indian, Allottee or Tribe Name
1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		7. If Unit or CA Agreement, Name and No. NMNM071016X/POKER LAKE UNIT
2. Name of Operator XTO PERMIAN OPERATING LLC		8. Lease Name and Well No. POKER LAKE UNIT 23 DTD 442H
3a. Address 6401 HOLIDAY HILL ROAD BLDG 5, MIDLAND, TX 7970	3b. Phone No. (include area code) (432) 683-2277	9. API Well No. 30-015-55911
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NWNE / 1152 FNL / 1741 FEL / LAT 32.207469 / LONG -103.848608 At proposed prod. zone SENW / 2627 FNL / 1730 FWL / LAT 32.174412 / LONG -103.85462		10. Field and Pool, or Exploratory PURPLE SAGE/WOLFCAMP (GAS)
11. Sec., T. R. M. or Blk. and Survey or Area SEC 23/T24S/R30E/NMP		
14. Distance in miles and direction from nearest town or post office* 9.3 miles		12. County or Parish EDDY
13. State NM		
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 1152 feet	16. No of acres in lease 1600.0	17. Spacing Unit dedicated to this well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 30 feet	19. Proposed Depth 11266 feet / 24449 feet	20. BLM/BIA Bond No. in file FED: COB000050
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3429 feet	22. Approximate date work will start* 03/09/2025	23. Estimated duration 45 days
24. Attachments		

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

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

25. Signature (Electronic Submission)	Name (Printed/Typed) RICHARD REDUS / Ph: (432) 682-8873	Date 04/16/2024
Title Permitting Manager		
Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) CODY LAYTON / Ph: (575) 234-5959	Date 11/22/2024
Title Assistant Field Manager Lands & Minerals		
Office Carlsbad Field Office		

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 2)

*(Instructions on page 2)





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

Application for Permit to Drill

APD Package Report

Date Printed: 11/26/2024 12:22 PM

APD ID: 10400098059

Well Status: AAPD

APD Received Date: 04/16/2024 10:20 AM

Well Name: POKER LAKE UNIT 23 DTD

Operator: XTO PERMIAN OPERATING LLC

Well Number: 442H

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

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(June 2015)FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: <input type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No.
1b. Type of Well: <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		6. If Indian, Allottee or Tribe Name
1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		7. If Unit or CA Agreement, Name and No.
2. Name of Operator		8. Lease Name and Well No.
3a. Address	3b. Phone No. (include area code)	9. API Well No.
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		10. Field and Pool, or Exploratory
14. Distance in miles and direction from nearest town or post office*		11. Sec., T. R. M. or Blk. and Survey or Area
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)		12. County or Parish
16. No of acres in lease		13. State
17. Spacing Unit dedicated to this well		
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.		
19. Proposed Depth		
20. BLM/BIA Bond No. in file		
21. Elevations (Show whether DF, KDB, RT, GL, etc.)		
22. Approximate date work will start*		
23. Estimated duration		
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. 2. A Drilling Plan. 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).		4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). 5. Operator certification. 6. Such other site specific information and/or plans as may be requested by the BLM.
25. Signature	Name (Printed/Typed)	Date
Title		
Approved by (Signature)	Name (Printed/Typed)	Date
Title		
Office		
Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Conditions of approval, if any, are attached.		
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.		

(Continued on page 2)

*(Instructions on page 2)



INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from local Federal offices.

ITEM I: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective productive zone.

ITEM 22: Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

ITEM 24: If the proposal will involve hydraulic fracturing operations, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The Privacy Act of 1974 and regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 25 U.S.C. 396; 43 CFR 3160

PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service well or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.

ROUTINE USE: Information from the record and/or the record will be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

The Paperwork Reduction Act of 1995 requires us to inform you that:

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

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

Additional Operator Remarks

Location of Well

0. SHL: NWNW / 1152 FNL / 1741 FEL / TWSP: 24S / RANGE: 30E / SECTION: 23 / LAT: 32.207469 / LONG: -103.848608 (TVD: 0 feet, MD: 0 feet)

PPP: NENW / 100 FNL / 1730 FWL / TWSP: 24S / RANGE: 30E / SECTION: 23 / LAT: 32.210349 / LONG: -103.854684 (TVD: 11266 feet, MD: 12100 feet)

PPP: NENW / 0 FSL / 1745 FWL / TWSP: 24S / RANGE: 30E / SECTION: 26 / LAT: 32.196133 / LONG: -103.85466 (TVD: 11266 feet, MD: 17400 feet)

BHL: SENW / 2627 FNL / 1730 FWL / TWSP: 24S / RANGE: 30E / SECTION: 35 / LAT: 32.174412 / LONG: -103.85462 (TVD: 11266 feet, MD: 24449 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.

C-102 Submit electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONVERSION DIVISION		Revised July, 09 2024	
	Submital Type:	<input checked="" type="checkbox"/> Initial Submittal		
		<input type="checkbox"/> Amended Report		
		<input type="checkbox"/> As Drilled		

WELL LOCATION INFORMATION

API Number 30-015- 55911	Pool Code 98220	Pool Name PURPLE SAGE; WOLFCAMP (GAS)
Property Code 325598	Property Name POKER LAKE UNIT 23 DTD	Well Number 442H
OGRID No. 373075	Operator Name XTO PERMIAN OPERATING, LLC.	Ground Level Elevation 3,429'
Surface Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal		Mineral Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal

Surface Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
B	23	24S	30E		1,152' FNL	1,741' FEL	32.207469	-103.848608	EDDY

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
F	35	24S	30E		2,627' FNL	1,730' FWL	32.174412	-103.854620	EDDY

Dedicated Acres 1,600.00	Infill or Defining Well INFILL	Defining Well API	Overlapping Spacing Unit (Y/N) Y	Consolidation Code U
Order Numbers.			Well Setbacks are under Common Ownership: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
B	23	24S	30E		1,152' FNL	1,741' FEL	32.207469	-103.848608	EDDY

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
C	23	24S	30E		100' FNL	1,730' FWL	32.210349	-103.854684	EDDY

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
F	35	24S	30E		2,537' FNL	1,730' FWL	32.174659	-103.854622	EDDY

Unitized Area or Area of Interest NMNM105422429	Spacing Unit Type : <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical	Ground Elevation 3,429'
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OPERATOR CERTIFICATIONS

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is 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 pooling order of heretofore entered by the division.

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

Terra Sebastian
Signature Date

Terra Sebastian
Printed Name

terra.b.sebastian@exxonmobil.com
Email Address

SURVEYOR CERTIFICATIONS

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



Signature and Seal of Professional Surveyor

MARK DILLON HARP 23786
Certificate Number

10/28/2024
Date of Survey

KT

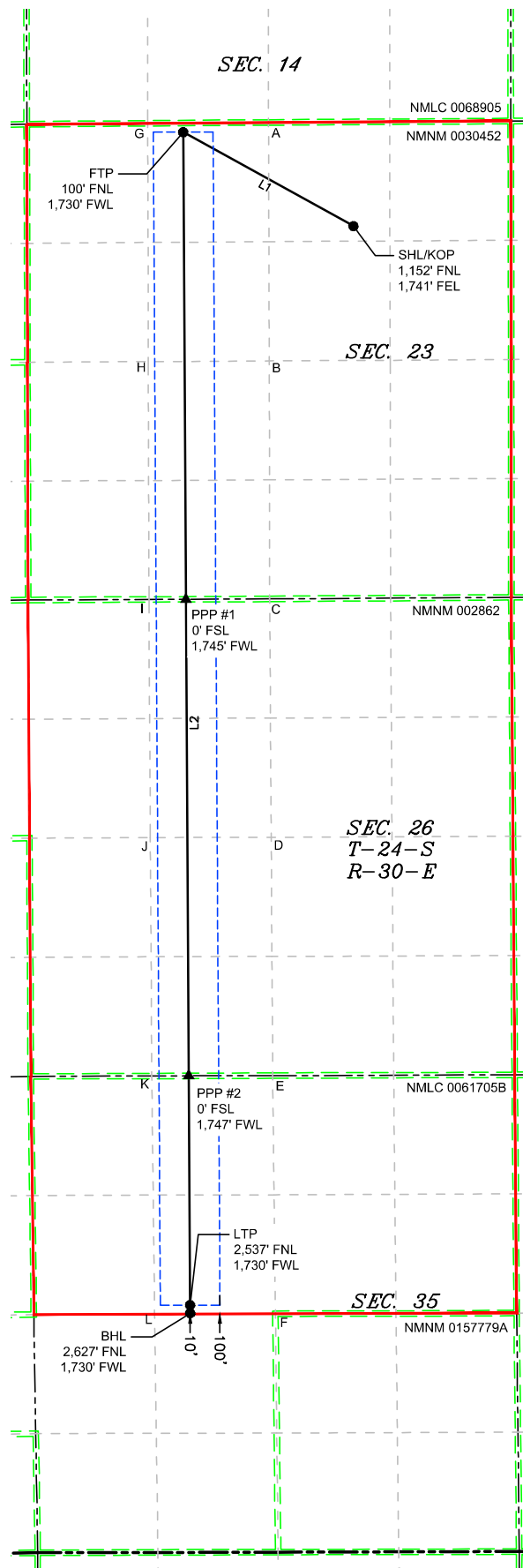
618.013003.09-57

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

ACREAGE DEDICATION PLATS

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

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



LEGEND

---	SECTION LINE
---	PROPOSED WELL BORE
- - - - -	NEW MEXICO MINERAL LEASE
- - - - -	330' BUFFER
---	ALLOCATION AREA

LINE TABLE

LINE	AZIMUTH	LENGTH
L1	298°53'05"	2,151.68'
L2	179°39'27"	13,073.57'

COORDINATE TABLE

SHL/KOP (NAD 83 NME)				SHL/KOP (NAD 27 NME)			
Y =	439,549.2	N		Y =	439,490.3	N	
X =	691,257.9	E		X =	650,074.1	E	
LAT. =	32.207469	°N		LAT. =	32.207345	°N	
LONG. =	103.848608	°W		LONG. =	103.848122	°W	
FTP (NAD 83 NME)				FTP (NAD 27 NME)			
Y =	440,588.6	N		Y =	440,529.6	N	
X =	689,373.9	E		X =	648,190.2	E	
LAT. =	32.210349	°N		LAT. =	32.210225	°N	
LONG. =	103.854684	°W		LONG. =	103.854198	°W	
PPP #1 (NAD 83 NME)				PPP #1 (NAD 27 NME)			
Y =	435,417.1	N		Y =	435,358.2	N	
X =	689,404.6	E		X =	648,220.7	E	
LAT. =	32.196133	°N		LAT. =	32.196009	°N	
LONG. =	103.854660	°W		LONG. =	103.854174	°W	
PPP #2 (NAD 83 NME)				PPP #2 (NAD 27 NME)			
Y =	430,142.6	N		Y =	430,083.8	N	
X =	689,435.9	E		X =	648,251.8	E	
LAT. =	32.181634	°N		LAT. =	32.181510	°N	
LONG. =	103.854634	°W		LONG. =	103.854150	°W	
LTP (NAD 83 NME)				LTP (NAD 27 NME)			
Y =	427,605.3	N		Y =	427,546.6	N	
X =	689,451.0	E		X =	648,266.7	E	
LAT. =	32.174659	°N		LAT. =	32.174535	°N	
LONG. =	103.854622	°W		LONG. =	103.854138	°W	
BHL (NAD 83 NME)				BHL (NAD 27 NME)			
Y =	427,515.3	N		Y =	427,456.6	N	
X =	689,452.1	E		X =	648,267.9	E	
LAT. =	32.174412	°N		LAT. =	32.174287	°N	
LONG. =	103.854620	°W		LONG. =	103.854135	°W	
CORNER COORDINATES (NAD 83 NME)							
A - Y =	440,695.8	N	A - X =	690,318.7	E		
B - Y =	438,055.8	N	B - X =	690,325.0	E		
C - Y =	435,421.3	N	C - X =	690,331.2	E		
D - Y =	432,784.0	N	D - X =	690,347.4	E		
E - Y =	430,145.2	N	E - X =	690,363.6	E		
F - Y =	427,508.2	N	F - X =	690,393.8	E		
G - Y =	440,685.6	N	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	N	J - X =	689,010.4	E		
K - Y =	430,141.2	N	K - X =	689,026.3	E		
L - Y =	427,504.1	N	L - X =	689,058.0	E		
CORNER COORDINATES (NAD 27 NME)							
A - Y =	440,636.8	N	A - X =	649,135.0	E		
B - Y =	437,996.8	N	B - X =	649,141.1	E		
C - Y =	435,362.4	N	C - X =	649,147.3	E		
D - Y =	432,725.2	N	D - X =	649,163.4	E		
E - Y =	430,086.5	N	E - X =	649,179.4	E		
F - Y =	427,449.5	N	F - X =	649,209.6	E		
G - Y =	440,626.6	N	G - X =	647,797.5	E		
H - Y =	437,989.4	N	H - X =	647,804.6	E		
I - Y =	435,356.4	N	I - X =	647,811.3	E		
J - Y =	432,720.4	N	J - X =	647,826.4	E		
K - Y =	430,082.4	N	K - X =	647,842.2	E		
L - Y =	427,445.4	N	L - X =	647,873.8	E		

KT

618.013003.09-57

F:\618.013 XTO Energy - NM\003 Poker Lake Unit\09 - PLU 23 DTD - EDDY\Wells\57 - PLU 23 DTD - 442H\DWG\442H C-102.dwg

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: ____XTO Permian Operating, LLC____ **OGRID:** ____373075____ **Date:** __11__/_4__/_2024__

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

If Other, please describe: _____

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

Well Name	API	ULSTR	Footages	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		14 T24S R30E	556 FSL 310 FWL	1,800	200	7,500	1,200	7,000	800
Poker Lake Unit 23 DTD 193H		14 T24S R30E	556 FSL 280 FWL	1,800	200	7,500	1,200	7,000	800
Poker Lake Unit 23 DTD 441H		23 T24S R30E	1152 FNL 1771 FEL	1,800	200	7,500	1,200	7,000	800
Poker Lake Unit 23 DTD 442H		23 T24S R30E	1152 FNL 1741 FEL	1,800	200	7,500	1,200	7,000	800
Poker Lake Unit 23 DTD 443H		23 T24S R30E	1152 FNL 1711 FEL	1,800	200	7,500	1,200	7,000	800
Poker Lake Unit 23 DTD 444H		23 T24S R30E	1152 FNL 1681 FEL	1,800	200	7,500	1,200	7,000	800
Poker Lake Unit 23 DTD 445H		23 T24S R30E	1152 FNL 1651 FEL	1,800	200	7,500	1,200	7,000	800
Poker Lake Unit 23 DTD 451H		23 T24S R30E	1247 FNL 1771 FEL	1,900	200	3,250	900	3,750	400

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

IV. Central Delivery Point Name: PLU 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	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Poker Lake Unit 23 DTD 104H	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>
Poker Lake Unit 23 DTD 193H	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>
Poker Lake Unit 23 DTD 441H	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>
Poker Lake Unit 23 DTD 442H	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>
Poker Lake Unit 23 DTD 443H	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>

Poker Lake Unit 23 DTD 444H	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>
Poker Lake Unit 23 DTD 445H	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>
Poker Lake Unit 23 DTD 451H	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>
Poker Lake Unit 23 DTD 452H	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>
Poker Lake Unit 23 DTD 453H	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>
Poker Lake Unit 23 DTD 454H	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>
Poker Lake Unit 23 DTD 455H	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>
Poker Lake Unit 23 DTD 456H	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>
Poker Lake Unit 23 DTD 541H	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>
Poker Lake Unit 23 DTD 542H	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>
Poker Lake Unit 23 DTD 543H	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>
Poker Lake Unit 23 DTD 544H	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>
Poker Lake Unit 23 DTD 545H	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>
Poker Lake Unit 23 DTD 546H	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>
Poker Lake Unit 23 DTD 705H	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>

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

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

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

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

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

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

Section 3 - Certifications

Effective May 25, 2021

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

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

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

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

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

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

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

Section 4 - Notices

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

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

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

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

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature: <i>Samantha Weis</i>
Printed Name: Samantha Weis
Title: Permitting Advisor
E-mail Address: samantha.r.bartnik@exxonmobil.com
Date: 11/4/2024
Phone: +1-832-625-7361
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

VI. Separation Equipment:

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

VII. Operational Practices

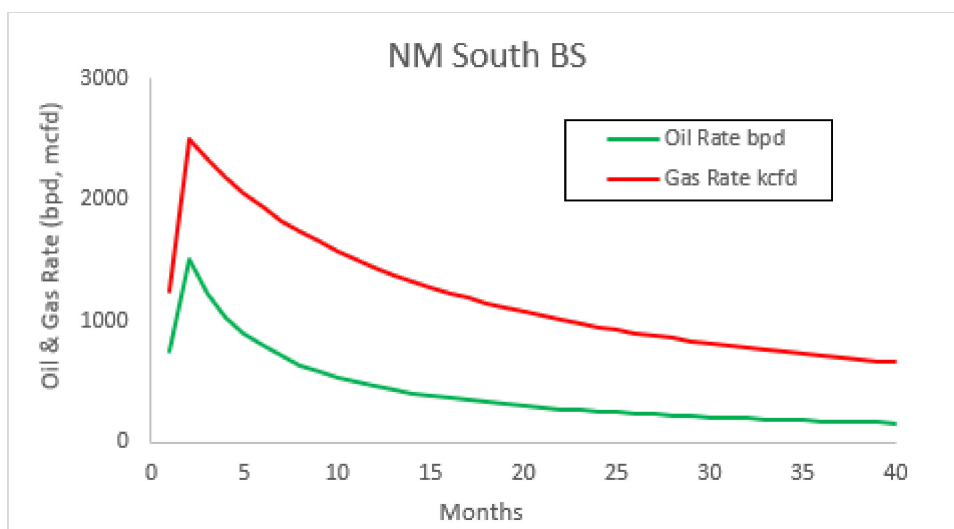
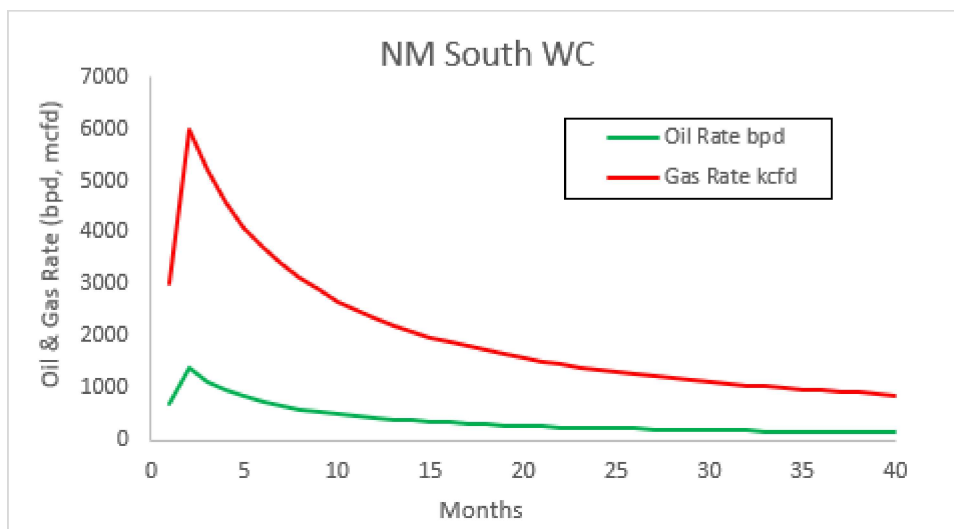
XTO Permian Operating LLC will employ best management practices and control technologies to maximize the recovery and minimize waste of natural gas through venting and flaring.

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

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

VIII. Best Management Practices during Maintenance

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





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

Drilling Plan Data Report

11/26/2024

APD ID: 10400098059

Submission Date: 04/16/2024

Highlighted data
reflects the most
recent changes

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 23 DTD

Well Number: 442H

Well Type: CONVENTIONAL GAS WELL

Well Work Type: Drill

[Show Final Text](#)

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
14549456	QUATERNARY	3429	0	0	ALLUVIUM	USEABLE WATER	N
14549457	RUSTLER	2115	1314	1314	ANHYDRITE	USEABLE WATER	N
14549458	SALADO	1712	1717	1717	POTASH, SALT	NONE	N
14549459	BASE OF SALT	-481	3910	3910	ANHYDRITE, DOLOMITE, POTASH	NONE	N
14549460	DELAWARE	-675	4104	4104	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : PRODUCED WATER	N
14549461	BRUSHY CANYON	-3181	6610	6610	SANDSTONE, SHALE, SILTSTONE	NATURAL GAS, OIL, OTHER : PRODUCED WATER	N
14549462	BONE SPRING	-4470	7899	7899	LIMESTONE, SHALE	NATURAL GAS, OIL, OTHER : PRODUCED WATER	N
14549463	BONE SPRING 1ST	-5241	8670	8670	SANDSTONE, SHALE, SILTSTONE	NATURAL GAS, OIL, OTHER : PRODUCED WATER	N
14549464	BONE SPRING 2ND	-5843	9272	9272	LIMESTONE, SHALE	NATURAL GAS, OIL, OTHER : PRODUCED WATER	N
14549465	BONE SPRING 3RD	-6610	10039	10039	LIMESTONE, SHALE	NATURAL GAS, OIL, OTHER : PRODUCED WATER	N
14549466	WOLFCAMP	-7807	11236	11236	SANDSTONE, SHALE	NATURAL GAS, OIL, OTHER : PRODUCED WATER	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M

Rating Depth: 11266

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

Requesting Variance? YES

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

Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** POKER LAKE UNIT 23 DTD**Well Number:** 442H

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

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

Choke Diagram Attachment:

PLU_23_DTD_5MCM_20240410151726.pdf

BOP Diagram Attachment:

5M10M_BOP_20240917091214.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	12.25	9.625	NEW	API	N	0	1414	0	1414	3429	2015	1414	J-55	40	BUTT	4.45	1.54	DRY	11.14	DRY	11.14
2	INTERMEDIATE	8.75	7.625	NEW	API	Y	0	10767	0	10347	3446	-6918	10767	L-80	29.7	FJ	2.22	1.62	DRY	2.02	DRY	2.02
3	PRODUCTION	6.75	5.5	NEW	NON API	Y	0	24449	0	11266	3446	-7837	24449	P-110	20	OTHER - Freedom HTQ/Talon HTQ	1.65	1.05	DRY	1.95	DRY	1.95

Casing Attachments

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 23 DTD

Well Number: 442H

Casing Attachments

Casing ID: 1	String	SURFACE
Inspection Document:		
Spec Document:		
Tapered String Spec:		
Casing Design Assumptions and Worksheet(s):		
PLU_23_DTD_442H_Csg_20240413194223.pdf		
Casing ID: 2	String	INTERMEDIATE
Inspection Document:		
Spec Document:		
Tapered String Spec:		
PLU_23_DTD_442H_Csg_20240413193923.pdf		
Casing Design Assumptions and Worksheet(s):		
PLU_23_DTD_442H_Csg_20240413194023.pdf		
Casing ID: 3	String	PRODUCTION
Inspection Document:		
Spec Document:		
Freedom_semi_premium_5.5_production_casing_20240812091136.pdf		
Talon___semiflush_5.5_production_casing_20240812091136.pdf		
Tapered String Spec:		
PLU_23_DTD_442H_Csg_20240413193502.pdf		
Casing Design Assumptions and Worksheet(s):		
PLU_23_DTD_442H_Csg_20240413193644.pdf		

Section 4 - Cement

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 23 DTD

Well Number: 442H

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	619.9	100	EconoCem-HLTRRC	NA
SURFACE	Tail		0	1414	130	1.35	14.8	175.5	100	Class C	2% CaCl
INTERMEDIATE	Lead		0	6610	380	1.35	14.8	513	100	Class C	NA
INTERMEDIATE	Tail		6610	10767	740	1.33	14.8	984.2	100	Class C	NA
PRODUCTION	Lead		10467	10967	20	2.69	11.5	53.8	30	NeoCem	NA
PRODUCTION	Tail		10967	24449	960	1.51	13.2	1449.6	30	VersaCem	NA

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

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

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

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

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

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
4104	10767	OTHER : BDE/OBM	9	9.5							

Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** POKER LAKE UNIT 23 DTD**Well Number:** 442H

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	1414	WATER-BASED MUD	8.4	8.9							
1414	4104	SALT SATURATED	10.5	11							
1076 7	2444 9	OIL-BASED MUD	11.5	12							

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: 7029

Anticipated Surface Pressure: 4550

Anticipated Bottom Hole Temperature(F): 195

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

Describe:

Contingency Plans geohazards description:

Contingency Plans geohazards

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations

XTO_Energy_H2S_Plan_Updated_20240812090857.pdf

Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** POKER LAKE UNIT 23 DTD**Well Number:** 442H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

PLU_23_DTD_442H_DD_20240413200850.pdf

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

PLU_23_DTD_442H_Cmt_20240413201821.pdf

PLU_23_DTD_H2S_DiaC_20240812091527.pdf

PLU_23_DTD_442H_RL_20240812091445.pdf

PLU_23_DTD_H2S_DiaA_20240812091513.pdf

PLU_23_DTD_H2S_DiaD_20240812091550.pdf

9.625_7.625_5.5_3_String_Slimhole_HBE0000479_4_20240812091605.pdf

Other Variance attachment:

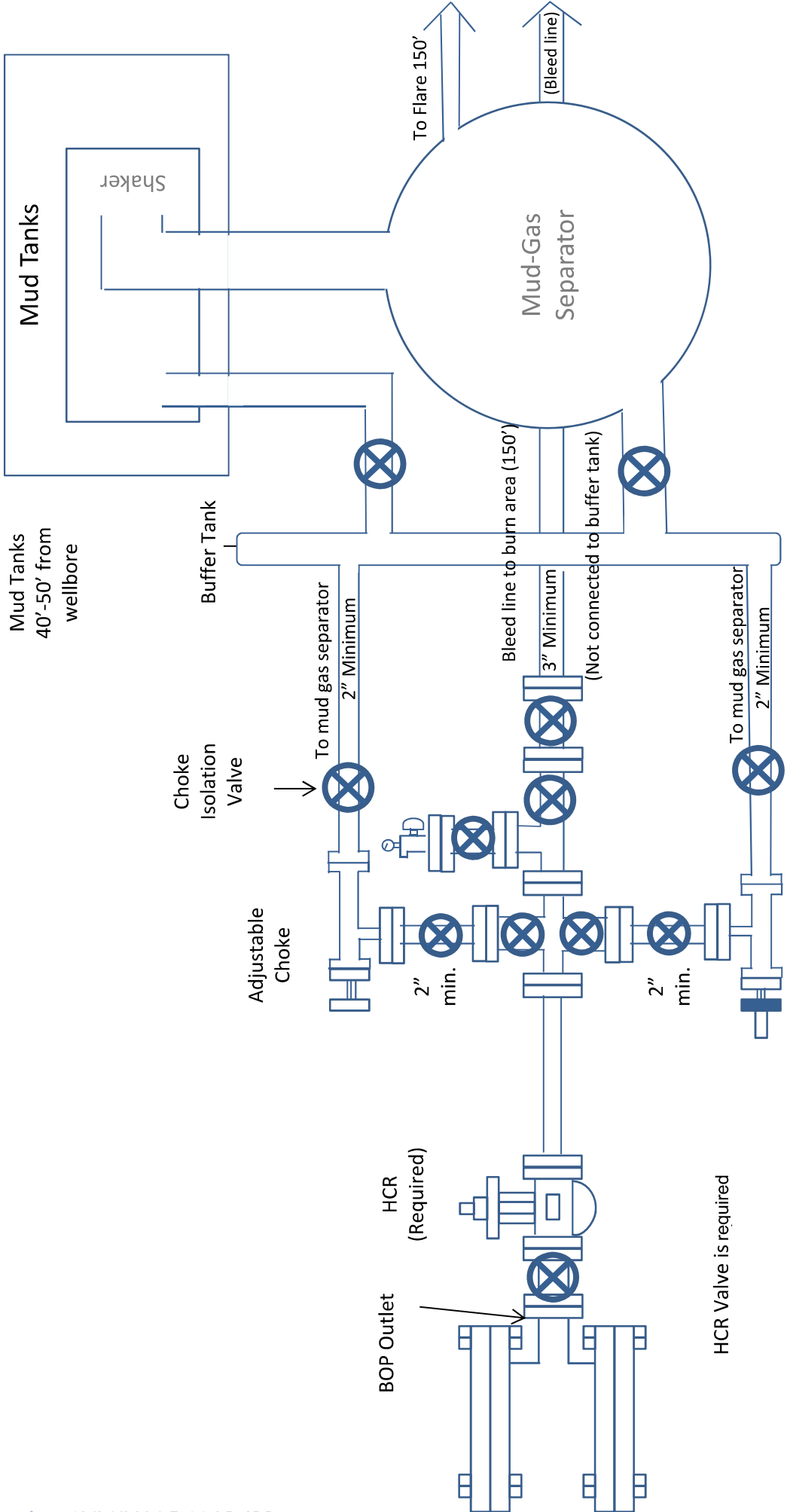
Updated_Flex_Hose_20240812091654.pdf

BOP_Break_Test_Variance_20240812091721.pdf

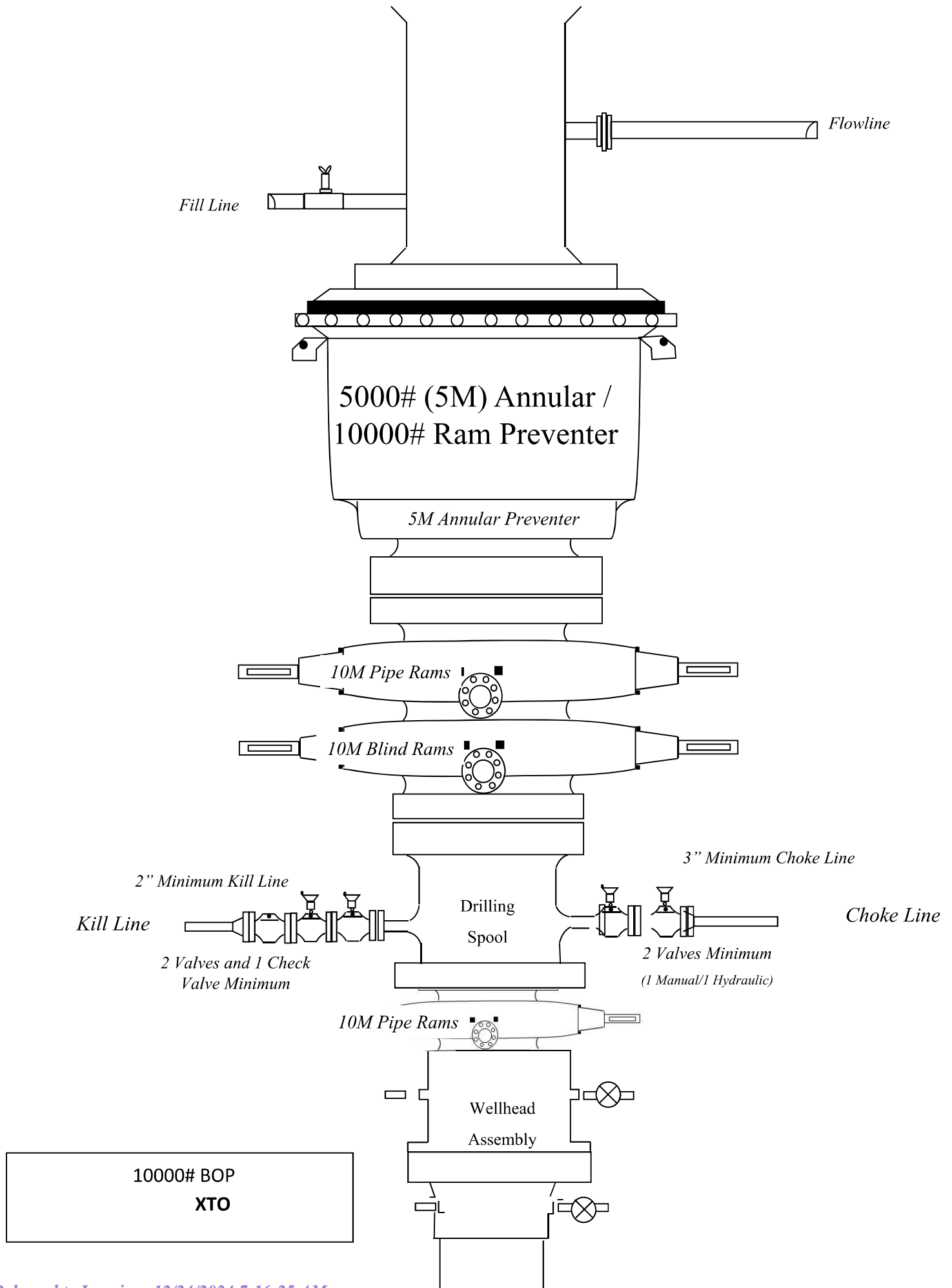
Offline_Cement_Variance_Surf___Interm_Csg_20240812091728.pdf

Spudder_Rig_Request_20240812091707.pdf

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



**Drilling Operations
Choke Manifold
5M Service**



Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0' – 1414'	9.625	40	J-55	BTC	New	1.54	4.45	11.14
8.75	0' – 4000'	7.625	29.7	RY P-110	Flush Joint	New	2.22	2.92	1.74
8.75	4000' – 10767'	7.625	29.7	HC L-80	Flush Joint	New	1.62	2.22	2.02
6.75	0' – 10667'	5.5	20	RY P-110	Semi-Premium	New	1.05	1.74	1.95
6.75	10667' - 24449'	5.5	20	RY P-110	Semi-Flush	New	1.05	1.65	1.95

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 nipped up and tested on the wellhead before drilling operations resume on each well.
 - a. The larger rig will move back onto the location within 90 days from the point at which the wells are secured and the spudder rig is moved off location.
 - b. The BLM will be notified 24 hours before the larger rig moves back on the pre-set locations
7. XTO will have supervision on the rig to ensure compliance with all BLM and NMOCD regulations and to oversee operations.
8. Once the rig is removed, XTO will secure the wellhead area by placing a guard rail around the cellar area.

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

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

Background

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

Supporting Documentation

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



Figure 1: Winch System attached to BOP Stack

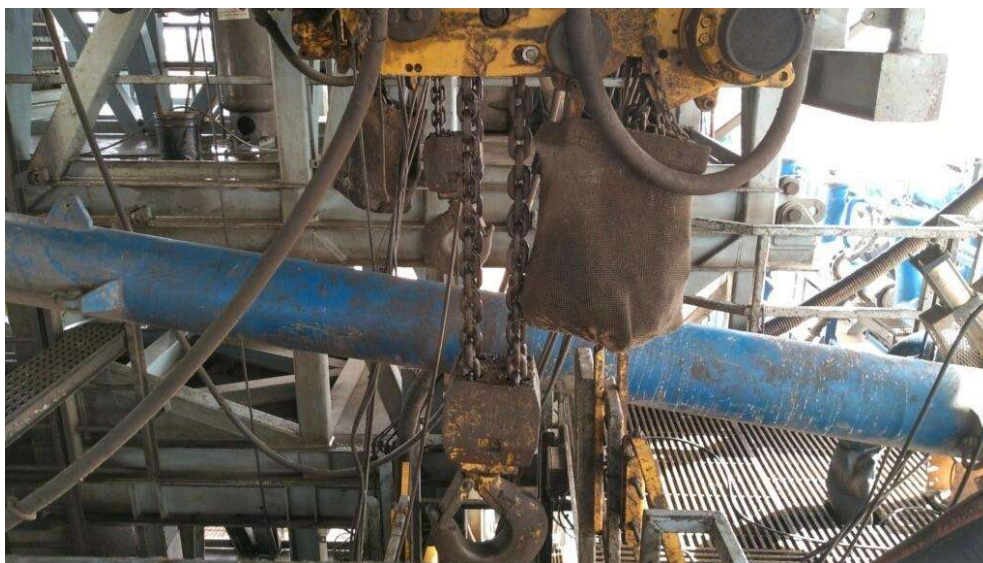


Figure 2: BOP Winch System

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

62

API STANDARD 53

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

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

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

No visible leaks.

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

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

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

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

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

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

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

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

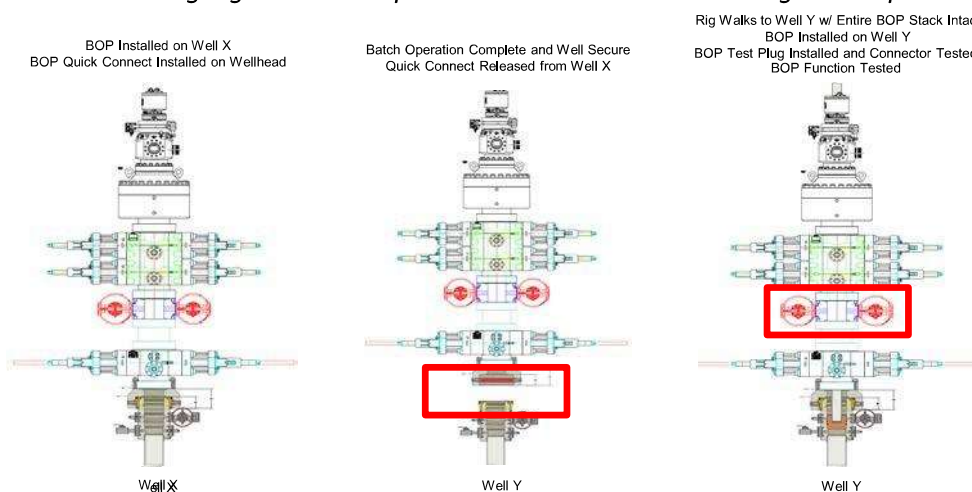
each BOP nipple up, XTO Energy performs a choke drill with the rig crew prior to drilling out every casing shoe. This is additional training for the rig crew that exceeds the requirements of the CFR Title 43 Part 3170.

Procedures

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

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

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



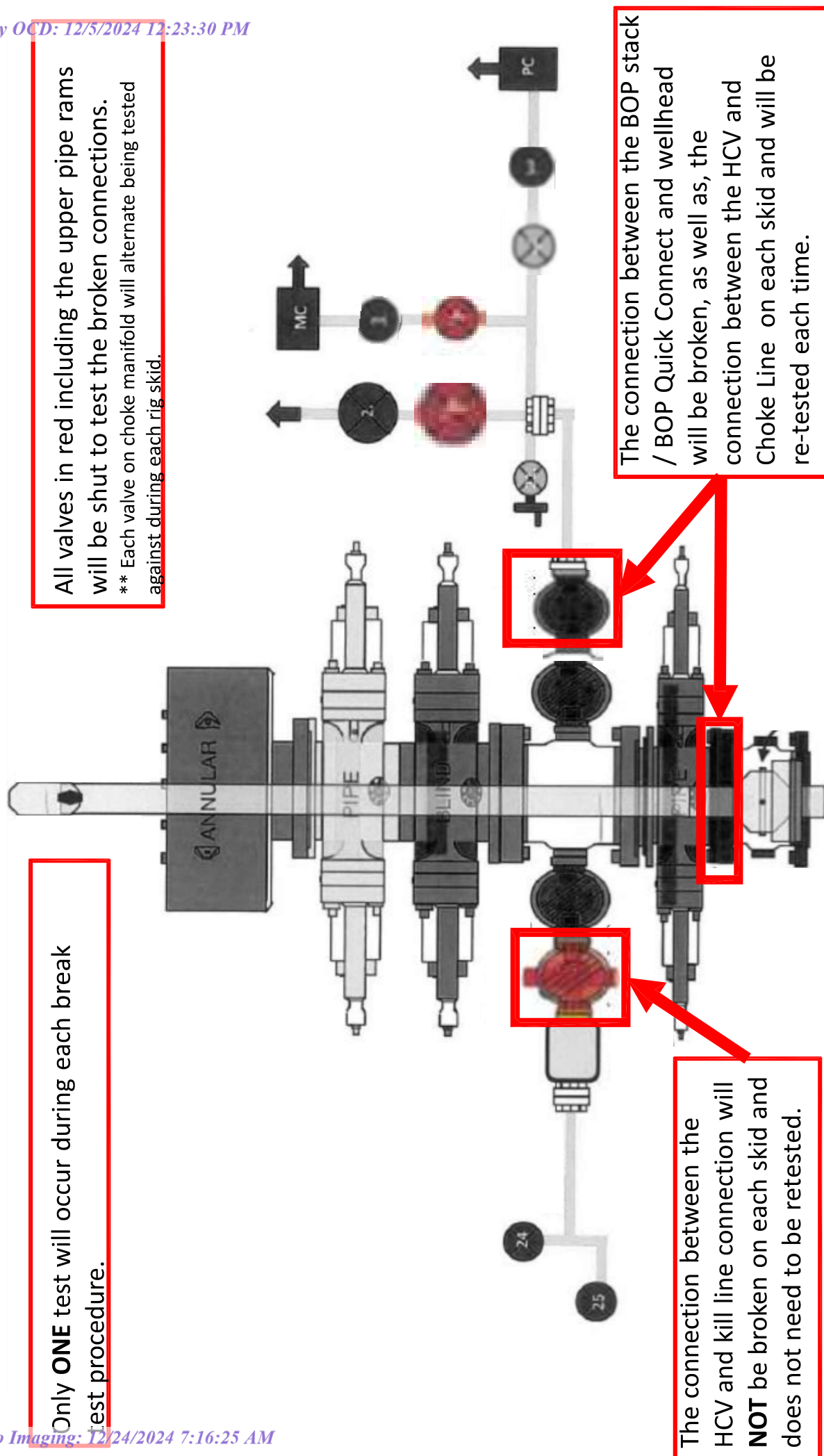
Summary

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

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

Based on discussions with the BLM on February 27th 2020 and the supporting documentation submitted to the BLM, we will request permission to **ONLY** retest broken pressure seals if the following conditions are met:

1. After a full BOP test is conducted on the first well on the pad.
2. The first intermediate hole section drilled on the pad will be the deepest. All of the remaining hole sections will be the same depth or shallower.
3. Full BOP test will be required if the intermediate hole section being drilled has a MASP over 5M.
4. Full BOP test will be required prior to drilling the production hole.



XTO Permian Operating, LLC Offline Cementing Variance Request

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

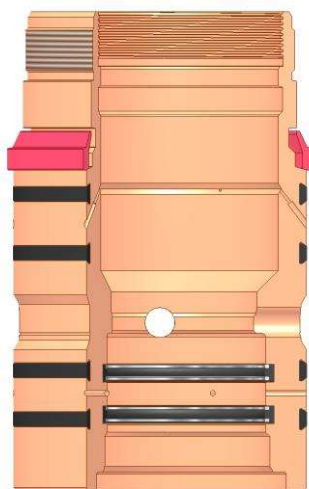
1. Cement Program

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

2. Offline Cementing Procedure

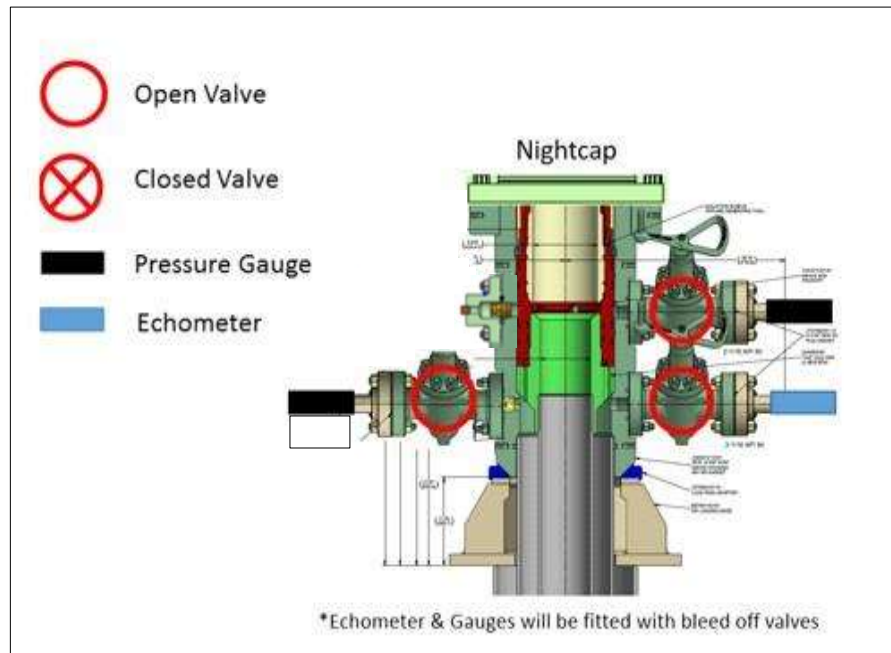
The operational sequence will be as follows. If a well control event occurs, the BLM will be contacted for approval prior to conducting offline cementing operations.

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



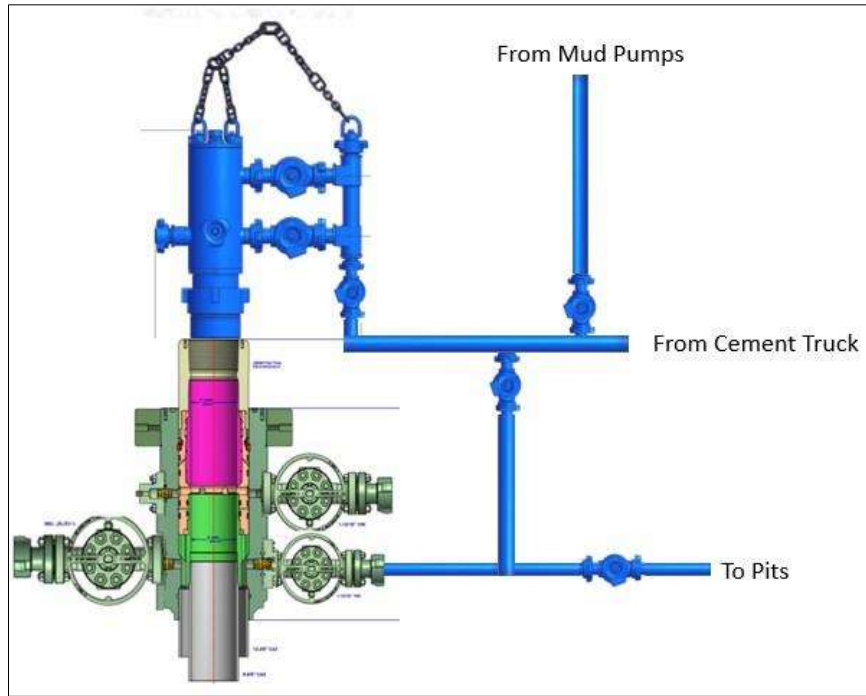
Annular packoff with both external and internal seals

XTO Permian Operating, LLC Offline Cementing Variance Request



Wellhead diagram during skidding operations

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

XTO Permian Operating, LLC Offline Cementing Variance Request

Wellhead diagram during offline cementing operations

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

**BLACK GOLD®**

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

PHONE: +1 (281) 602-4100

FAX: +1 (281) 602-4147

EMAIL: gesna.quality@gates.com

WEB: www.gates.com/oilandgas

NEW CHOKE HOSE
INSTALLED 02-10-2024

CERTIFICATE OF CONFORMANCE

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

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

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

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

SIGNATURE: _____

F. Osmos

TITLE: _____

QUALITY ASSURANCE

DATE: _____

1/25/2024



H3-15/16

1/25/2024 11:48:06 AM

TEST REPORT

CUSTOMER

Company: Nabors Industries Inc.

Production description: 74621/66-1531

Sales order #: 529480

Customer reference: FG1213

TEST OBJECT

Serial number: H3-012524-1

Lot number:

Description: 74621/66-1531

Hose ID: 3" 16C CK

Part number:

TEST INFORMATION

Test procedure: GTS-04-053

Test pressure: 15000.00 psi

Test pressure hold: 3600.00 sec

Work pressure: 10000.00 psi

Work pressure hold: 900.00 sec

Length difference: 0.00 %

Length difference: 0.00 inch

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

Part number:

Description:

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

Part number:

Description:

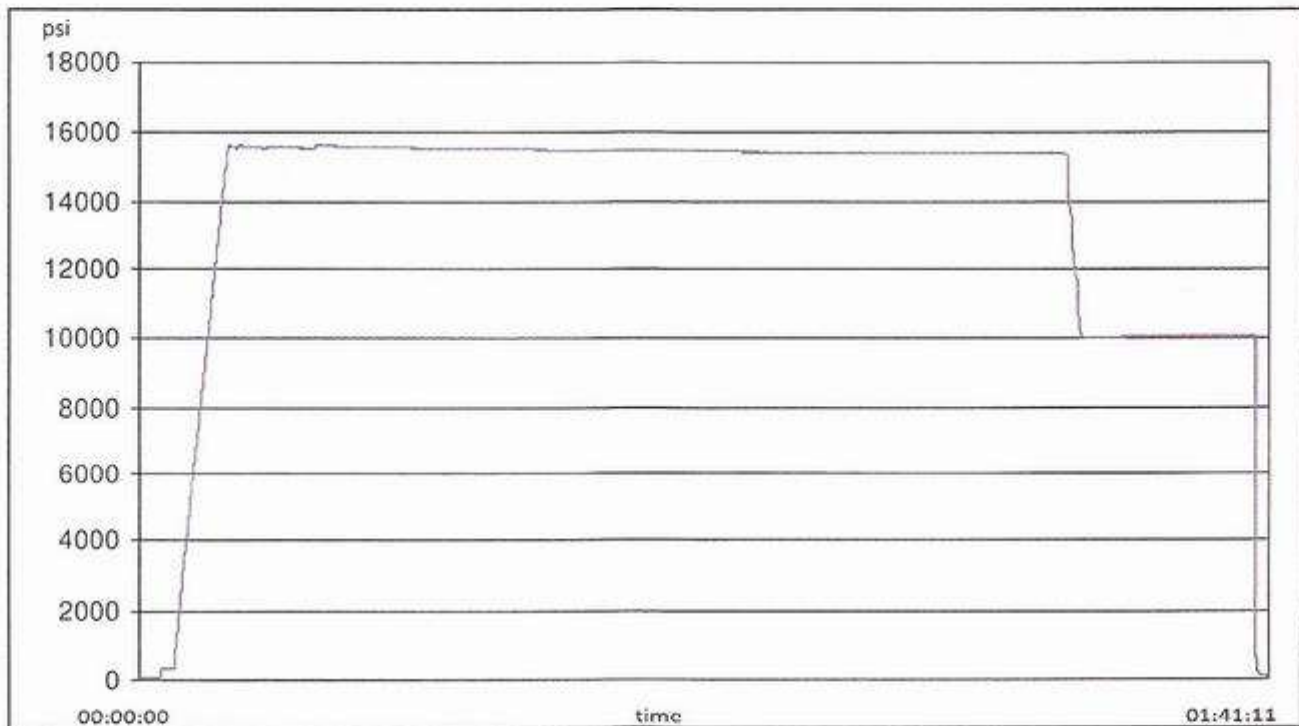
Visual check:

Pressure test result: PASS

Length measurement result:

Length: 45 feet

Test operator: Travis





H3-15/16

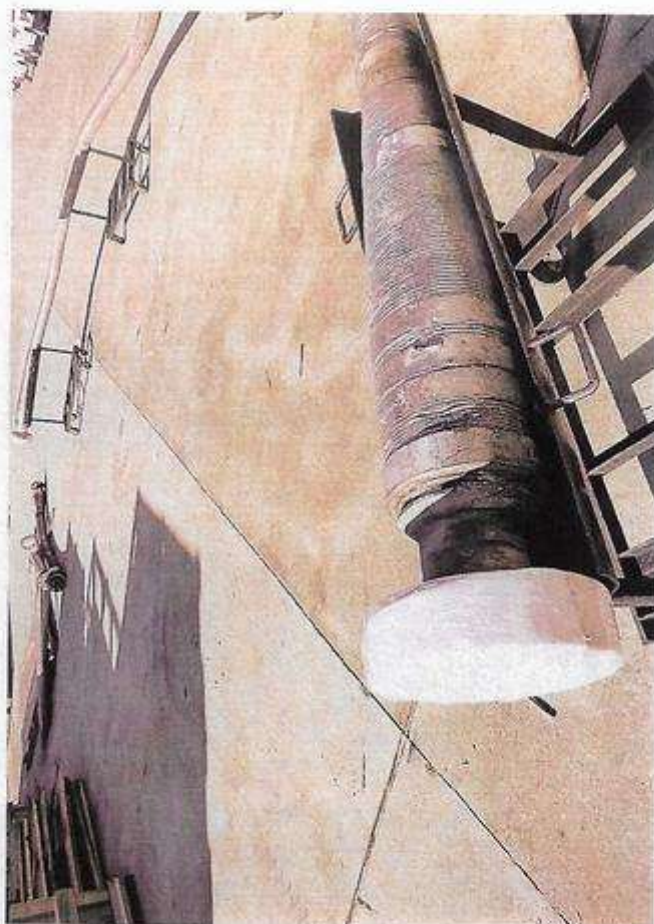
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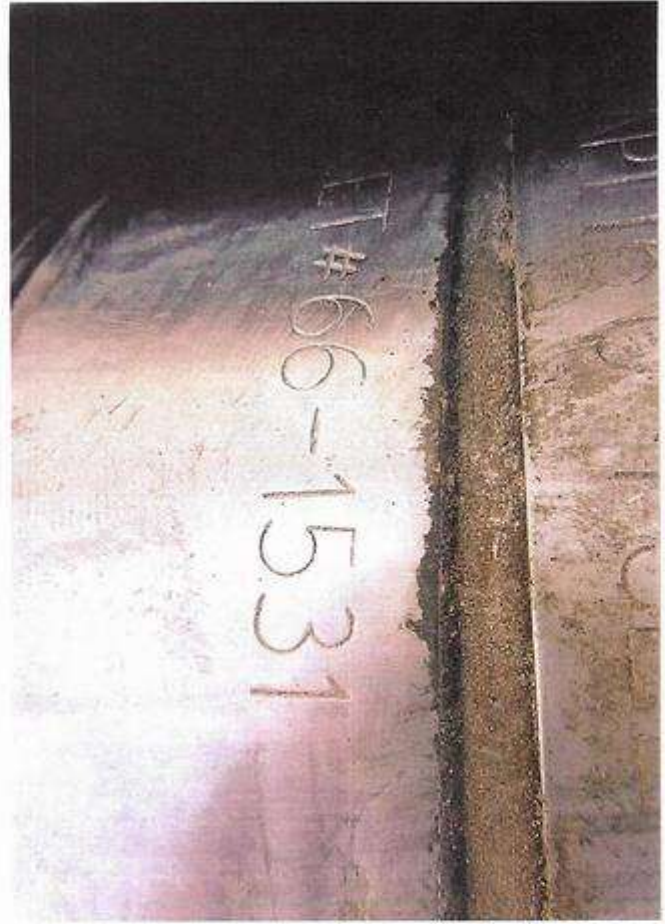
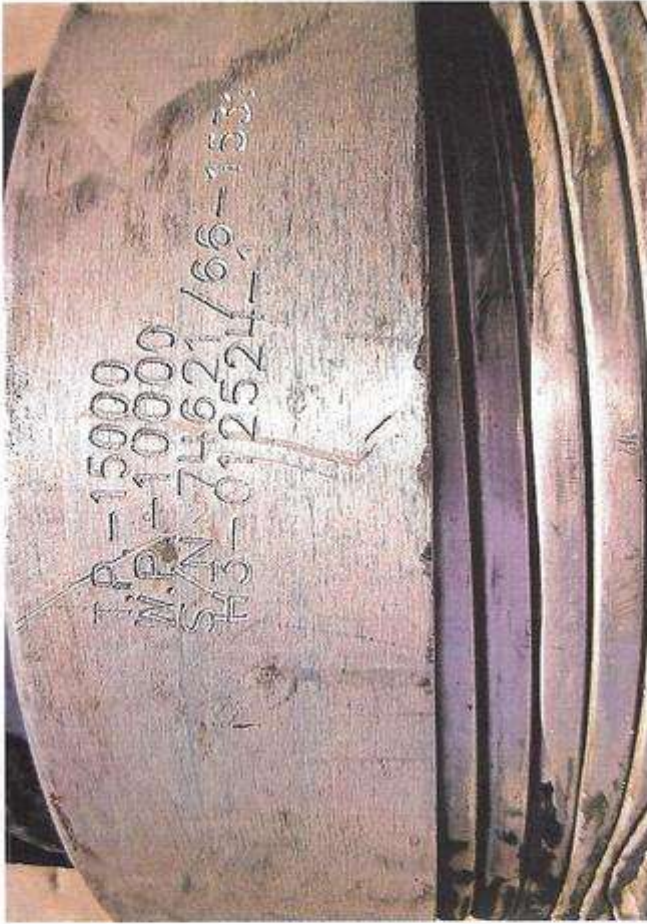
TEST REPORT

GAUGE TRACEABILITY

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

Comment







DRAWING NO. HBE0000479

CACTUS WELLHEAD LLC

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

Released to Imaging: 12/24/2024 7:16:25 AM

Well Plan Report - Poker Lake Unit 23 DTD South 442H

Measured Depth: 24449.11 ft
TVD RKB: 11266.00 ft
Location
Cartographic Reference System: New Mexico East - NAD 27
Northing: 439490.30 ft
Easting: 650074.10 ft
RKB: 3461.00 ft
Ground Level: 3429.00 ft
North Reference: Grid
Convergence Angle: 0.26 Deg

Plan Sections Poker Lake Unit 23 DTD South 442H

Measured	Depth (ft)	Inclination (Deg)	Azimuth (Deg)	TVD		Y Offset (ft)	X Offset (ft)	Build		Turn Rate (Deg/100ft)	Dogleg	
				RKB (ft)	Rate (Deg/100ft)			Rate (Deg/100ft)	Target (Deg/100ft)		Rate	Target
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	2286.00	23.72	298.88	2252.41	116.90	116.90	-211.90	2.00	2.00	0.00	2.00	2.00
	6431.37	23.72	298.88	6047.59	922.40	922.40	-1672.00	0.00	0.00	0.00	0.00	0.00
	7617.37	0.00	0.00	7200.00	1039.30	1039.30	-1883.90	-2.00	-2.00	0.00	2.00	2.00
	10967.17	0.00	0.00	10549.80	1039.30	1039.30	-1883.90	0.00	0.00	0.00	0.00	0.00
	12092.17	90.00	179.66	11266.00	323.12	323.12	-1879.68	8.00	8.00	0.00	8.00	8.00
	24358.69	90.00	179.66	11266.00	-11943.19	-11943.19	-1807.31	0.00	0.00	0.00	0.00	LTP 8
	24449.11	90.00	179.66	11266.00	-12033.61	-12033.61	-1806.78	0.00	0.00	0.00	0.00	BHL 8

Position Uncertainty Poker Lake Unit 23 DTD South 442H

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

3/14/24, 6:30 AM

Well Plan Report

(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(°)	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
100.000	0.000	0.000	0.358	0.000	0.179	0.000	2.300	0.000	0.000	0.358	0.179	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23		
200.000	0.000	0.000	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		
300.000	0.000	0.000	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		
400.000	0.000	0.000	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		
500.000	0.000	0.000	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		
600.000	0.000	0.000	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		
700.000	0.000	0.000	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		
800.000	0.000	0.000	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		
900.000	0.000	0.000	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		
1000.000	0.000	0.000	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		
1100.000	0.000	0.000	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		
1200.000	2.000	298.884	4.159	0.000	4.256	0.000	2.692	0.000	0.000	4.298	4.118	89.905	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23		
1300.000	4.000	298.884	4.503	0.000	4.607	0.000	2.750	0.000	0.000	4.650	4.468	89.578	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23		
1400.000	6.000	298.884	4.842	0.000	4.959	0.000	2.808	0.000	0.000	5.004	4.819	89.235	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23		
1500.000	8.000	298.884	5.177	0.000	5.313	0.000	2.868	0.000	0.000	5.359	5.169	88.981	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23		
1600.000	10.000	298.884	5.506	0.000	5.668	0.000	2.928	0.000	0.000	5.716	5.519	88.924	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23		
1700.000	12.000	298.884	5.829	0.000	6.024	0.000	2.991	0.000	0.000	6.075	5.866	89.156	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23		
1800.000	14.000	298.884	6.145	0.000	6.383	0.000	3.057	0.000	0.000	6.435	6.212	89.744	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23		
1900.000	16.000	298.884	6.454	0.000	6.744	0.000	3.125	0.000	0.000	6.797	6.556	90.720	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23		
2000.000	18.000	298.884	6.756	0.000	7.109	0.000	3.198	0.000	0.000	7.162	6.897	92.072	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23		
2100.000	20.000	298.884	7.050	0.000	7.478	0.000	3.276	0.000	0.000	7.531	7.236	93.745	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23		
2200.000	22.000	298.884	7.337	0.000	7.854	0.000	3.360	0.000	0.000	7.905	7.570	95.651	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23		
2285.996	23.720	298.884	7.577	0.000	8.183	0.000	3.436	0.000	0.000	8.233	7.855	97.335	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23		
2300.000	23.720	298.884	7.626	0.000	8.236	0.000	3.444	0.000	0.000	8.286	7.904	97.466	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23		
2400.000	23.720	298.884	7.976	0.000	8.627	0.000	3.560	0.000	0.000	8.674	8.226	99.667	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23		
2500.000	23.720	298.884	8.329	0.000	9.022	0.000	3.682	0.000	0.000	9.068	8.550	101.399	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23		
2600.000	23.720	298.884	8.684	0.000	9.423	0.000	3.809	0.000	0.000	9.467	8.876	102.784	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23		
2700.000	23.720	298.884	9.041	0.000	9.828	0.000	3.939	0.000	0.000	9.872	9.203	103.907	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23		
2800.000	23.720	298.884	9.400	0.000	10.237	0.000	4.074	0.000	0.000	10.280	9.532	104.831	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23		
2900.000	23.720	298.884	9.760	0.000	10.650	0.000	4.213	0.000	0.000	10.692	9.862	105.603	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23		
3000.000	23.720	298.884	10.122	0.000	11.065	0.000	4.355	0.000	0.000	11.107	10.193	106.255	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23		
3100.000	23.720	298.884	10.484	0.000	11.483	0.000	4.499	0.000	0.000	11.525	10.525	106.811	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23		

3200.000	23.720	298.884	3089.199	10.848	0.000	11.903	0.000	4.647	0.000	0.000	11.945	10.858	107.291	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
3300.000	23.720	298.884	3180.751	11.213	0.000	12.326	0.000	4.798	0.000	0.000	12.368	11.192	107.708	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
3400.000	23.720	298.884	3272.303	11.579	0.000	12.750	0.000	4.950	0.000	0.000	12.792	11.526	108.074	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
3500.000	23.720	298.884	3363.856	11.946	0.000	13.176	0.000	5.106	0.000	0.000	13.219	11.862	108.397	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
3600.000	23.720	298.884	3455.408	12.313	0.000	13.604	0.000	5.263	0.000	0.000	13.647	12.198	108.684	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
3700.000	23.720	298.884	3546.960	12.681	0.000	14.033	0.000	5.422	0.000	0.000	14.076	12.535	108.941	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
3800.000	23.720	298.884	3638.513	13.050	0.000	14.463	0.000	5.584	0.000	0.000	14.507	12.873	109.172	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
3900.000	23.720	298.884	3730.065	13.419	0.000	14.895	0.000	5.747	0.000	0.000	14.939	13.211	109.380	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
4000.000	23.720	298.884	3821.617	13.788	0.000	15.328	0.000	5.911	0.000	0.000	15.373	13.550	109.569	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
4100.000	23.720	298.884	3913.169	14.159	0.000	15.761	0.000	6.078	0.000	0.000	15.807	13.890	109.741	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
4200.000	23.720	298.884	4004.722	14.529	0.000	16.196	0.000	6.246	0.000	0.000	16.242	14.230	109.899	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
4300.000	23.720	298.884	4096.274	14.900	0.000	16.631	0.000	6.416	0.000	0.000	16.678	14.570	110.043	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
4400.000	23.720	298.884	4187.826	15.272	0.000	17.068	0.000	6.587	0.000	0.000	17.115	14.911	110.176	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
4500.000	23.720	298.884	4279.378	15.644	0.000	17.505	0.000	6.759	0.000	0.000	17.553	15.252	110.298	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
4600.000	23.720	298.884	4370.931	16.016	0.000	17.942	0.000	6.933	0.000	0.000	17.991	15.594	110.412	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
4700.000	23.720	298.884	4462.483	16.388	0.000	18.381	0.000	7.109	0.000	0.000	18.430	15.936	110.517	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
4800.000	23.720	298.884	4554.035	16.761	0.000	18.819	0.000	7.286	0.000	0.000	18.869	16.278	110.615	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
4900.000	23.720	298.884	4645.588	17.134	0.000	19.259	0.000	7.464	0.000	0.000	19.310	16.621	110.707	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
5000.000	23.720	298.884	4737.140	17.507	0.000	19.699	0.000	7.643	0.000	0.000	19.750	16.964	110.792	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
5100.000	23.720	298.884	4828.692	17.880	0.000	20.139	0.000	7.824	0.000	0.000	20.191	17.308	110.872	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
5200.000	23.720	298.884	4920.244	18.254	0.000	20.580	0.000	8.006	0.000	0.000	20.633	17.652	110.947	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
5300.000	23.720	298.884	5011.797	18.628	0.000	21.021	0.000	8.190	0.000	0.000	21.075	17.996	111.017	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
5400.000	23.720	298.884	5103.349	19.002	0.000	21.463	0.000	8.374	0.000	0.000	21.517	18.340	111.083	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
5500.000	23.720	298.884	5194.901	19.376	0.000	21.905	0.000	8.560	0.000	0.000	21.960	18.685	111.145	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
5600.000	23.720	298.884	5286.454	19.751	0.000	22.347	0.000	8.748	0.000	0.000	22.403	19.030	111.204	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
5700.000	23.720	298.884	5378.006	20.125	0.000	22.790	0.000	8.936	0.000	0.000	22.846	19.375	111.260	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
5800.000	23.720	298.884	5469.558	20.500	0.000	23.233	0.000	9.126	0.000	0.000	23.290	19.720	111.312	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
5900.000	23.720	298.884	5561.110	20.875	0.000	23.676	0.000	9.318	0.000	0.000	23.734	20.066	111.362	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
6000.000	23.720	298.884	5652.663	21.250	0.000	24.119	0.000	9.510	0.000	0.000	24.178	20.412	111.409	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
6100.000	23.720	298.884	5744.215	21.625	0.000	24.563	0.000	9.704	0.000	0.000	24.623	20.758	111.454	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
6200.000	23.720	298.884	5835.767	22.000	0.000	25.007	0.000	9.899	0.000	0.000	25.068	21.105	111.497	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
6300.000	23.720	298.884	5927.319	22.376	0.000	25.451	0.000	10.096	0.000	0.000	25.513	21.451	111.537	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
6400.000	23.720	298.884	6018.872	22.751	0.000	25.896	0.000	10.294	0.000	0.000	25.958	21.798	111.575	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
6431.371	23.720	298.884	6047.592	22.869	0.000	26.035	0.000	10.356	0.000	0.000	26.097	21.907	111.587	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23

6500.000	22.347	298.884	6110.749	23.169	0.000	26.336	0.000	10.493	0.000	0.000	26.399	22.145	111.608	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
6600.000	20.347	298.884	6203.883	23.584	0.000	26.763	0.000	10.690	0.000	0.000	26.827	22.494	111.622	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
6700.000	18.347	298.884	6298.231	23.971	0.000	27.176	0.000	10.880	0.000	0.000	27.240	22.845	111.619	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
6800.000	16.347	298.884	6393.678	24.329	0.000	27.573	0.000	11.064	0.000	0.000	27.639	23.197	111.599	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
6900.000	14.347	298.884	6490.107	24.659	0.000	27.957	0.000	11.240	0.000	0.000	28.024	23.550	111.566	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
7000.000	12.347	298.884	6587.400	24.958	0.000	28.327	0.000	11.410	0.000	0.000	28.395	23.903	111.523	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
7100.000	10.347	298.884	6685.441	25.227	0.000	28.683	0.000	11.573	0.000	0.000	28.752	24.255	111.470	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
7200.000	8.347	298.884	6784.108	25.465	0.000	29.027	0.000	11.730	0.000	0.000	29.098	24.606	111.411	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
7300.000	6.347	298.884	6883.282	25.672	0.000	29.360	0.000	11.880	0.000	0.000	29.431	24.953	111.348	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
7400.000	4.347	298.884	6982.842	25.847	0.000	29.681	0.000	12.024	0.000	0.000	29.754	25.297	111.282	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
7500.000	2.347	298.884	7082.666	25.989	0.000	29.993	0.000	12.163	0.000	0.000	30.066	25.637	111.216	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
7600.000	0.347	298.884	7182.633	26.100	0.000	30.295	0.000	12.297	0.000	0.000	30.369	25.972	111.152	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
7617.367	0.000	0.000	7200.000	29.886	0.000	26.641	0.000	12.320	0.000	0.000	30.421	26.029	111.143	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
7700.000	0.000	0.000	7282.633	30.141	0.000	26.906	0.000	12.428	0.000	0.000	30.673	26.298	111.113	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
7800.000	0.000	0.000	7382.633	30.450	0.000	27.227	0.000	12.562	0.000	0.000	30.978	26.625	111.076	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
7900.000	0.000	0.000	7482.633	30.760	0.000	27.549	0.000	12.700	0.000	0.000	31.284	26.953	111.040	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
8000.000	0.000	0.000	7582.633	31.072	0.000	27.872	0.000	12.840	0.000	0.000	31.592	27.281	111.004	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
8100.000	0.000	0.000	7682.633	31.384	0.000	28.196	0.000	12.984	0.000	0.000	31.901	27.610	110.969	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
8200.000	0.000	0.000	7782.633	31.697	0.000	28.521	0.000	13.131	0.000	0.000	32.210	27.940	110.934	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
8300.000	0.000	0.000	7882.633	32.011	0.000	28.846	0.000	13.281	0.000	0.000	32.521	28.271	110.900	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
8400.000	0.000	0.000	7982.633	32.327	0.000	29.173	0.000	13.434	0.000	0.000	32.833	28.602	110.866	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
8500.000	0.000	0.000	8082.633	32.643	0.000	29.500	0.000	13.591	0.000	0.000	33.145	28.934	110.832	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
8600.000	0.000	0.000	8182.633	32.960	0.000	29.827	0.000	13.751	0.000	0.000	33.459	29.266	110.799	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
8700.000	0.000	0.000	8282.633	33.277	0.000	30.156	0.000	13.914	0.000	0.000	33.773	29.599	110.766	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
8800.000	0.000	0.000	8382.633	33.596	0.000	30.485	0.000	14.080	0.000	0.000	34.088	29.933	110.734	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
8900.000	0.000	0.000	8482.633	33.915	0.000	30.815	0.000	14.250	0.000	0.000	34.405	30.267	110.702	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
9000.000	0.000	0.000	8582.633	34.235	0.000	31.145	0.000	14.424	0.000	0.000	34.722	30.602	110.670	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
9100.000	0.000	0.000	8682.633	34.556	0.000	31.476	0.000	14.600	0.000	0.000	35.039	30.938	110.638	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
9200.000	0.000	0.000	8782.633	34.878	0.000	31.808	0.000	14.780	0.000	0.000	35.358	31.273	110.607	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
9300.000	0.000	0.000	8882.633	35.200	0.000	32.140	0.000	14.964	0.000	0.000	35.677	31.610	110.577	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
9400.000	0.000	0.000	8982.633	35.523	0.000	32.473	0.000	15.151	0.000	0.000	35.997	31.947	110.546	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
9500.000	0.000	0.000	9082.633	35.847	0.000	32.806	0.000	15.341	0.000	0.000	36.318	32.284	110.516	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
9600.000	0.000	0.000	9182.633	36.171	0.000	33.140	0.000	15.535	0.000	0.000	36.640	32.622	110.487	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
9700.000	0.000	0.000	9282.633	36.496	0.000	33.474	0.000	15.732	0.000	0.000	36.962	32.960	110.457	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23

9800.000	0.000	0.000	9382.633	36.822	0.000	33.809	0.000	15.933	0.000	0.000	37.284	33.298	110.428	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
9900.000	0.000	0.000	9482.633	37.148	0.000	34.144	0.000	16.137	0.000	0.000	37.608	33.637	110.400	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
10000.000	0.000	0.000	9582.633	37.475	0.000	34.480	0.000	16.344	0.000	0.000	37.932	33.977	110.371	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
10100.000	0.000	0.000	9682.633	37.802	0.000	34.816	0.000	16.555	0.000	0.000	38.257	34.316	110.343	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
10200.000	0.000	0.000	9782.633	38.130	0.000	35.153	0.000	16.770	0.000	0.000	38.582	34.657	110.315	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
10300.000	0.000	0.000	9882.633	38.459	0.000	35.490	0.000	16.988	0.000	0.000	38.908	34.997	110.288	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
10400.000	0.000	0.000	9982.633	38.788	0.000	35.828	0.000	17.209	0.000	0.000	39.234	35.338	110.261	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
10500.000	0.000	0.000	10082.633	39.117	0.000	36.166	0.000	17.434	0.000	0.000	39.561	35.679	110.234	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
10600.000	0.000	0.000	10182.633	39.447	0.000	36.504	0.000	17.663	0.000	0.000	39.889	36.021	110.207	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
10700.000	0.000	0.000	10282.633	39.778	0.000	36.843	0.000	17.894	0.000	0.000	40.217	36.363	110.181	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
10800.000	0.000	0.000	10382.633	40.109	0.000	37.182	0.000	18.130	0.000	0.000	40.546	36.705	110.155	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
10900.000	0.000	0.000	10482.633	40.440	0.000	37.521	0.000	18.369	0.000	0.000	40.875	37.047	110.129	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
10967.167	0.000	0.000	10549.800	40.663	0.000	37.749	0.000	18.531	0.000	0.000	41.096	37.278	110.112	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
11000.000	2.627	179.662	10582.622	40.568	0.000	37.872	-0.000	18.610	0.000	0.000	41.198	37.386	110.120	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
11100.000	10.627	179.662	10681.873	39.879	0.000	38.182	-0.000	18.846	0.000	0.000	41.484	37.694	110.227	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
11200.000	18.627	179.662	10778.553	38.581	0.000	38.478	-0.000	19.070	0.000	0.000	41.753	37.986	110.393	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
11300.000	26.627	179.662	10870.782	36.721	0.000	38.755	-0.000	19.280	0.000	0.000	41.996	38.256	110.635	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
11400.000	34.627	179.662	10956.762	34.377	0.000	39.011	-0.000	19.476	0.000	0.000	42.207	38.503	110.955	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
11500.000	42.627	179.662	11034.822	31.658	0.000	39.243	-0.000	19.658	0.000	0.000	42.382	38.723	111.349	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
11600.000	50.627	179.662	11103.441	28.719	0.000	39.448	-0.000	19.828	0.000	0.000	42.519	38.916	111.799	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
11700.000	58.627	179.662	11161.284	25.774	0.000	39.625	-0.000	19.988	0.000	0.000	42.618	39.082	112.277	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
11800.000	66.627	179.662	11207.226	23.118	0.000	39.772	-0.000	20.140	0.000	0.000	42.682	39.221	112.742	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
11900.000	74.627	179.662	11240.371	21.133	0.000	39.889	-0.000	20.286	0.000	0.000	42.716	39.333	113.139	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
12000.000	82.627	179.662	11260.075	20.223	0.000	39.975	-0.000	20.427	0.000	0.000	42.727	39.421	113.396	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
12092.167	90.000	179.662	11265.997	20.554	0.000	40.025	-0.000	20.554	0.000	0.000	42.722	39.480	113.436	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
12100.000	90.000	179.662	11265.997	20.565	0.000	40.027	-0.000	20.565	0.000	0.000	42.721	39.484	113.424	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
12200.000	90.000	179.662	11265.997	20.707	0.000	40.073	-0.000	20.707	0.000	0.000	42.711	39.543	113.398	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
12300.000	90.000	179.662	11265.997	20.858	0.000	40.131	-0.000	20.858	0.000	0.000	42.703	39.612	113.445	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
12400.000	90.000	179.662	11265.997	21.018	0.000	40.201	-0.000	21.018	0.000	0.000	42.698	39.691	113.573	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
12500.000	90.000	179.662	11265.997	21.187	0.000	40.282	-0.000	21.187	0.000	0.000	42.695	39.781	113.789	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
12600.000	90.000	179.662	11265.997	21.364	0.000	40.376	-0.000	21.364	0.000	0.000	42.694	39.880	114.102	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
12700.000	90.000	179.662	11265.997	21.549	0.000	40.481	-0.000	21.549	0.000	0.000	42.696	39.989	114.527	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
12800.000	90.000	179.662	11265.997	21.742	0.000	40.598	-0.000	21.742	0.000	0.000	42.701	40.107	115.079	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
12900.000	90.000	179.662	11265.997	21.942	0.000	40.726	-0.000	21.942	0.000	0.000	42.709	40.234	115.779	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23

13000.000	90.000	179.662	11265.997	22.151	0.000	40.865	-0.000	22.151	0.000	0.000	42.721	40.370	116.655	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
13100.000	90.000	179.662	11265.997	22.366	0.000	41.016	-0.000	22.366	0.000	0.000	42.737	40.513	117.739	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
13200.000	90.000	179.662	11265.997	22.589	0.000	41.178	-0.000	22.589	0.000	0.000	42.758	40.663	119.076	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
13300.000	90.000	179.662	11265.997	22.818	0.000	41.351	-0.000	22.818	0.000	0.000	42.785	40.819	120.718	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
13400.000	90.000	179.662	11265.997	23.054	0.000	41.535	-0.000	23.054	0.000	0.000	42.819	40.979	122.728	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
13500.000	90.000	179.662	11265.997	23.297	0.000	41.730	-0.000	23.297	0.000	0.000	42.862	41.141	125.179	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
13600.000	90.000	179.662	11265.997	23.545	0.000	41.935	-0.000	23.545	0.000	0.000	42.917	41.302	128.141	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
13700.000	90.000	179.662	11265.997	23.800	0.000	42.150	-0.000	23.800	0.000	0.000	42.987	41.460	131.663	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
13800.000	90.000	179.662	11265.997	24.061	0.000	42.376	-0.000	24.061	0.000	0.000	43.075	41.610	-44.265	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
13900.000	90.000	179.662	11265.997	24.328	0.000	42.612	-0.000	24.328	0.000	0.000	43.186	41.748	-39.745	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
14000.000	90.000	179.662	11265.997	24.600	0.000	42.858	-0.000	24.600	0.000	0.000	43.322	41.872	-34.991	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
14100.000	90.000	179.662	11265.997	24.877	0.000	43.114	-0.000	24.877	0.000	0.000	43.484	41.980	-30.289	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
14200.000	90.000	179.662	11265.997	25.159	0.000	43.379	-0.000	25.159	0.000	0.000	43.673	42.071	-25.902	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
14300.000	90.000	179.662	11265.997	25.447	0.000	43.654	-0.000	25.447	0.000	0.000	43.887	42.147	-22.002	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
14400.000	90.000	179.662	11265.997	25.739	0.000	43.938	-0.000	25.739	0.000	0.000	44.123	42.211	-18.650	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
14500.000	90.000	179.662	11265.997	26.036	0.000	44.231	-0.000	26.036	0.000	0.000	44.379	42.265	-15.825	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
14600.000	90.000	179.662	11265.997	26.337	0.000	44.533	-0.000	26.337	0.000	0.000	44.651	42.312	-13.467	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
14700.000	90.000	179.662	11265.997	26.643	0.000	44.844	-0.000	26.643	0.000	0.000	44.938	42.353	-11.504	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
14800.000	90.000	179.662	11265.997	26.953	0.000	45.163	-0.000	26.953	0.000	0.000	45.239	42.390	-9.864	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
14900.000	90.000	179.662	11265.997	27.267	0.000	45.491	-0.000	27.267	0.000	0.000	45.551	42.424	-8.489	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
15000.000	90.000	179.662	11265.997	27.585	0.000	45.826	-0.000	27.585	0.000	0.000	45.875	42.455	-7.328	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
15100.000	90.000	179.662	11265.997	27.907	0.000	46.170	-0.000	27.907	0.000	0.000	46.209	42.485	-6.343	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
15200.000	90.000	179.662	11265.997	28.232	0.000	46.522	-0.000	28.232	0.000	0.000	46.553	42.513	-5.500	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
15300.000	90.000	179.662	11265.997	28.561	0.000	46.881	-0.000	28.561	0.000	0.000	46.906	42.541	-4.775	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
15400.000	90.000	179.662	11265.997	28.893	0.000	47.248	-0.000	28.893	0.000	0.000	47.267	42.568	-4.148	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
15500.000	90.000	179.662	11265.997	29.229	0.000	47.621	-0.000	29.229	0.000	0.000	47.637	42.594	-3.602	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
15600.000	90.000	179.662	11265.997	29.567	0.000	48.003	-0.000	29.567	0.000	0.000	48.015	42.621	-3.124	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
15700.000	90.000	179.662	11265.997	29.909	0.000	48.391	-0.000	29.909	0.000	0.000	48.400	42.647	-2.705	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
15800.000	90.000	179.662	11265.997	30.254	0.000	48.785	-0.000	30.254	0.000	0.000	48.792	42.673	-2.334	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
15900.000	90.000	179.662	11265.997	30.601	0.000	49.187	-0.000	30.601	0.000	0.000	49.192	42.700	-2.006	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
16000.000	90.000	179.662	11265.997	30.952	0.000	49.595	-0.000	30.952	0.000	0.000	49.598	42.727	-1.714	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
16100.000	90.000	179.662	11265.997	31.305	0.000	50.009	-0.000	31.305	0.000	0.000	50.012	42.754	-1.454	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
16200.000	90.000	179.662	11265.997	31.661	0.000	50.429	-0.000	31.661	0.000	0.000	50.431	42.781	-1.220	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
16300.000	90.000	179.662	11265.997	32.019	0.000	50.856	-0.000	32.019	0.000	0.000	50.857	42.809	-1.011	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23

16400.000	90.000	179.662	11265.997	32.379	0.000	51.288	-0.000	32.379	0.000	0.000	51.288	42.837	-0.823	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
16500.000	90.000	179.662	11265.997	32.742	0.000	51.726	-0.000	32.742	0.000	0.000	51.726	42.865	-0.653	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
16600.000	90.000	179.662	11265.997	33.107	0.000	52.169	-0.000	33.107	0.000	0.000	52.169	42.894	-0.499	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
16700.000	90.000	179.662	11265.997	33.475	0.000	52.618	-0.000	33.475	0.000	0.000	52.618	42.924	-0.360	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
16800.000	90.000	179.662	11265.997	33.844	0.000	53.072	-0.000	33.844	0.000	0.000	53.072	42.954	-0.233	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
16900.000	90.000	179.662	11265.997	34.216	0.000	53.532	-0.000	34.216	0.000	0.000	53.532	42.984	-0.118	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
17000.000	90.000	179.662	11265.997	34.589	0.000	53.996	-0.000	34.589	0.000	0.000	53.996	43.015	-0.014	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
17100.000	90.000	179.662	11265.997	34.964	0.000	54.465	-0.000	34.964	0.000	0.000	54.466	43.046	0.082	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
17200.000	90.000	179.662	11265.997	35.342	0.000	54.939	-0.000	35.342	0.000	0.000	54.940	43.078	0.169	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
17300.000	90.000	179.662	11265.997	35.721	0.000	55.418	-0.000	35.721	0.000	0.000	55.419	43.111	0.248	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
17400.000	90.000	179.662	11265.997	36.101	0.000	55.901	-0.000	36.101	0.000	0.000	55.902	43.144	0.321	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
17500.000	90.000	179.662	11265.997	36.484	0.000	56.389	-0.000	36.484	0.000	0.000	56.390	43.177	0.388	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
17600.000	90.000	179.662	11265.997	36.868	0.000	56.880	-0.000	36.868	0.000	0.000	56.883	43.212	0.449	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
17700.000	90.000	179.662	11265.997	37.254	0.000	57.376	-0.000	37.254	0.000	0.000	57.379	43.246	0.505	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
17800.000	90.000	179.662	11265.997	37.641	0.000	57.876	-0.000	37.641	0.000	0.000	57.880	43.282	0.556	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
17900.000	90.000	179.662	11265.997	38.030	0.000	58.381	-0.000	38.030	0.000	0.000	58.384	43.317	0.603	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
18000.000	90.000	179.662	11265.997	38.420	0.000	58.888	-0.000	38.420	0.000	0.000	58.892	43.354	0.646	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
18100.000	90.000	179.662	11265.997	38.811	0.000	59.400	-0.000	38.811	0.000	0.000	59.405	43.391	0.686	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
18200.000	90.000	179.662	11265.997	39.204	0.000	59.916	-0.000	39.204	0.000	0.000	59.920	43.428	0.722	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
18300.000	90.000	179.662	11265.997	39.598	0.000	60.434	-0.000	39.598	0.000	0.000	60.440	43.466	0.756	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
18400.000	90.000	179.662	11265.997	39.994	0.000	60.957	-0.000	39.994	0.000	0.000	60.963	43.505	0.787	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
18500.000	90.000	179.662	11265.997	40.391	0.000	61.483	-0.000	40.391	0.000	0.000	61.489	43.544	0.815	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
18600.000	90.000	179.662	11265.997	40.789	0.000	62.012	-0.000	40.789	0.000	0.000	62.019	43.584	0.841	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
18700.000	90.000	179.662	11265.997	41.188	0.000	62.544	-0.000	41.188	0.000	0.000	62.551	43.625	0.865	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
18800.000	90.000	179.662	11265.997	41.588	0.000	63.080	-0.000	41.588	0.000	0.000	63.087	43.666	0.887	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
18900.000	90.000	179.662	11265.997	41.989	0.000	63.618	-0.000	41.989	0.000	0.000	63.626	43.707	0.906	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
19000.000	90.000	179.662	11265.997	42.392	0.000	64.160	-0.000	42.392	0.000	0.000	64.168	43.749	0.925	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
19100.000	90.000	179.662	11265.997	42.795	0.000	64.704	-0.000	42.795	0.000	0.000	64.713	43.792	0.941	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
19200.000	90.000	179.662	11265.997	43.200	0.000	65.252	-0.000	43.200	0.000	0.000	65.261	43.835	0.957	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
19300.000	90.000	179.662	11265.997	43.605	0.000	65.802	-0.000	43.605	0.000	0.000	65.811	43.879	0.971	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
19400.000	90.000	179.662	11265.997	44.011	0.000	66.355	-0.000	44.011	0.000	0.000	66.364	43.923	0.983	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
19500.000	90.000	179.662	11265.997	44.419	0.000	66.910	-0.000	44.419	0.000	0.000	66.920	43.968	0.995	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
19600.000	90.000	179.662	11265.997	44.827	0.000	67.468	-0.000	44.827	0.000	0.000	67.479	44.014	1.005	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
19700.000	90.000	179.662	11265.997	45.236	0.000	68.028	-0.000	45.236	0.000	0.000	68.039	44.060	1.015	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23

19800.000	90.000	179.662	11265.997	45.646	0.000	68.591	-0.000	45.646	0.000	0.000	68.603	44.107	1.023	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
19900.000	90.000	179.662	11265.997	46.057	0.000	69.157	-0.000	46.057	0.000	0.000	69.168	44.154	1.031	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
20000.000	90.000	179.662	11265.997	46.469	0.000	69.724	-0.000	46.469	0.000	0.000	69.736	44.202	1.037	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
20100.000	90.000	179.662	11265.997	46.881	0.000	70.294	-0.000	46.881	0.000	0.000	70.307	44.250	1.043	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
20200.000	90.000	179.662	11265.997	47.294	0.000	70.866	-0.000	47.294	0.000	0.000	70.879	44.299	1.049	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
20300.000	90.000	179.662	11265.997	47.708	0.000	71.441	-0.000	47.708	0.000	0.000	71.454	44.348	1.053	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
20400.000	90.000	179.662	11265.997	48.123	0.000	72.017	-0.000	48.123	0.000	0.000	72.030	44.398	1.057	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
20500.000	90.000	179.662	11265.997	48.538	0.000	72.596	-0.000	48.538	0.000	0.000	72.609	44.449	1.061	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
20600.000	90.000	179.662	11265.997	48.954	0.000	73.176	-0.000	48.954	0.000	0.000	73.190	44.500	1.064	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
20700.000	90.000	179.662	11265.997	49.371	0.000	73.758	-0.000	49.371	0.000	0.000	73.773	44.551	1.066	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
20800.000	90.000	179.662	11265.997	49.788	0.000	74.343	-0.000	49.788	0.000	0.000	74.357	44.604	1.068	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
20900.000	90.000	179.662	11265.997	50.206	0.000	74.929	-0.000	50.206	0.000	0.000	74.944	44.656	1.069	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
21000.000	90.000	179.662	11265.997	50.625	0.000	75.517	-0.000	50.625	0.000	0.000	75.532	44.710	1.070	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
21100.000	90.000	179.662	11265.997	51.044	0.000	76.107	-0.000	51.044	0.000	0.000	76.122	44.763	1.071	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
21200.000	90.000	179.662	11265.997	51.464	0.000	76.698	-0.000	51.464	0.000	0.000	76.714	44.818	1.072	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
21300.000	90.000	179.662	11265.997	51.885	0.000	77.292	-0.000	51.885	0.000	0.000	77.307	44.873	1.071	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
21400.000	90.000	179.662	11265.997	52.306	0.000	77.887	-0.000	52.306	0.000	0.000	77.902	44.928	1.071	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
21500.000	90.000	179.662	11265.997	52.727	0.000	78.483	-0.000	52.727	0.000	0.000	78.499	44.984	1.071	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
21600.000	90.000	179.662	11265.997	53.149	0.000	79.082	-0.000	53.149	0.000	0.000	79.098	45.040	1.070	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
21700.000	90.000	179.662	11265.997	53.572	0.000	79.681	-0.000	53.572	0.000	0.000	79.698	45.097	1.068	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
21800.000	90.000	179.662	11265.997	53.995	0.000	80.282	-0.000	53.995	0.000	0.000	80.299	45.155	1.067	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
21900.000	90.000	179.662	11265.997	54.419	0.000	80.885	-0.000	54.419	0.000	0.000	80.902	45.213	1.065	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
22000.000	90.000	179.662	11265.997	54.843	0.000	81.489	-0.000	54.843	0.000	0.000	81.506	45.271	1.064	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
22100.000	90.000	179.662	11265.997	55.268	0.000	82.095	-0.000	55.268	0.000	0.000	82.112	45.330	1.062	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
22200.000	90.000	179.662	11265.997	55.693	0.000	82.702	-0.000	55.693	0.000	0.000	82.719	45.390	1.059	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
22300.000	90.000	179.662	11265.997	56.118	0.000	83.310	-0.000	56.118	0.000	0.000	83.328	45.450	1.057	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
22400.000	90.000	179.662	11265.997	56.544	0.000	83.920	-0.000	56.544	0.000	0.000	83.938	45.511	1.054	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
22500.000	90.000	179.662	11265.997	56.971	0.000	84.531	-0.000	56.971	0.000	0.000	84.549	45.572	1.052	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
22600.000	90.000	179.662	11265.997	57.398	0.000	85.143	-0.000	57.398	0.000	0.000	85.161	45.634	1.049	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
22700.000	90.000	179.662	11265.997	57.825	0.000	85.757	-0.000	57.825	0.000	0.000	85.775	45.696	1.046	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
22800.000	90.000	179.662	11265.997	58.253	0.000	86.372	-0.000	58.253	0.000	0.000	86.390	45.758	1.043	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
22900.000	90.000	179.662	11265.997	58.681	0.000	86.988	-0.000	58.681	0.000	0.000	87.006	45.822	1.039	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
23000.000	90.000	179.662	11265.997	59.109	0.000	87.605	-0.000	59.109	0.000	0.000	87.623	45.885	1.036	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23
23100.000	90.000	179.662	11265.997	59.538	0.000	88.223	-0.000	59.538	0.000	0.000	88.241	45.949	1.033	MWD+IFR1+SAG+MS+GS_XTO_PLU	TD_23

23200.000	90.000	179.662	11265.997	59.968	0.000	88.842	-0.000	59.968	0.000	0.000	88.861	46.014	1.029	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
23300.000	90.000	179.662	11265.997	60.397	0.000	89.463	-0.000	60.397	0.000	0.000	89.481	46.079	1.026	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
23400.000	90.000	179.662	11265.997	60.827	0.000	90.084	-0.000	60.827	0.000	0.000	90.103	46.145	1.022	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
23500.000	90.000	179.662	11265.997	61.258	0.000	90.707	-0.000	61.258	0.000	0.000	90.726	46.211	1.018	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
23600.000	90.000	179.662	11265.997	61.688	0.000	91.331	-0.000	61.688	0.000	0.000	91.349	46.277	1.014	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
23700.000	90.000	179.662	11265.997	62.119	0.000	91.955	-0.000	62.119	0.000	0.000	91.974	46.345	1.010	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
23800.000	90.000	179.662	11265.997	62.551	0.000	92.581	-0.000	62.551	0.000	0.000	92.600	46.412	1.006	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
23900.000	90.000	179.662	11265.997	62.982	0.000	93.207	-0.000	62.982	0.000	0.000	93.227	46.480	1.002	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
24000.000	90.000	179.662	11265.997	63.414	0.000	93.835	-0.000	63.414	0.000	0.000	93.854	46.549	0.998	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
24100.000	90.000	179.662	11265.997	63.847	0.000	94.463	-0.000	63.847	0.000	0.000	94.483	46.618	0.994	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
24200.000	90.000	179.662	11265.997	64.279	0.000	95.093	-0.000	64.279	0.000	0.000	95.112	46.687	0.990	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
24300.000	90.000	179.662	11265.997	64.712	0.000	95.723	-0.000	64.712	0.000	0.000	95.743	46.757	0.986	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
24358.687	90.000	179.662	11265.997	64.967	0.000	96.093	-0.000	64.967	0.000	0.000	96.112	46.798	0.983	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
24400.000	90.000	179.662	11265.997	65.146	0.000	96.353	-0.000	65.146	0.000	0.000	96.372	46.828	0.982	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
24449.110	90.000	179.662	11265.997	65.358	0.000	96.663	-0.000	65.358	0.000	0.000	96.682	46.862	0.980	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23

Plan Targets

Poker Lake Unit 23 DTD South 442H

Target Name	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape
FTP 8	11798.75	440529.60	648190.20	7805.00	RECTANGLE
SHL 24	13525.44	441176.84	646815.07	8635.22	RECTANGLE
LTP 8	24359.20	427546.60	648266.70	7805.00	RECTANGLE
BHL 8	24449.70	427456.60	648267.90	7805.00	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 442H
SURFACE HOLE FOOTAGE:	1152'/N & 1741'/E
BOTTOM HOLE FOOTAGE:	2627'/N & 1730'/W

COA

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

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

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

2. The minimum required fill of cement behind the **7-5/8** inch Intermediate casing is: Operator has proposed to cement in two stages by conventionally cementing the first stage and performing a bradenhead squeeze on the second stage, contingent upon no returns to surface.
 - a. **First stage:** Operator will cement with intent to reach the top of the **Brushy Canyon** at **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](mailto:BLM_NM_CFO_DrillingNotifications@BLM.GOV); (575) 361-2822

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - i. Notify the BLM when moving in and removing the Spudder Rig.
 - ii. Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - iii. BOP/BOPE test to be conducted per **43 CFR 3172** as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
3. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-Q potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR 3172**.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's

requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.

3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - ii. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - iii. Manufacturer representative shall install the test plug for the initial BOP test.
 - iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
 - v. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - i. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - ii. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve

- open. (only applies to single stage cement jobs, prior to the cement setting up.)
- iii. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
 - iv. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
 - v. The results of the test shall be reported to the appropriate BLM office.
 - vi. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
 - vii. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
 - viii. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR 3172**.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be

disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

Approved by Zota Stevens on 10/15/2024
575-234-5998 / zstevens@blm.gov



HYDROGEN SULFIDE (H₂S) CONTINGENCY PLAN

Assumed 100 ppm ROE = 3000'

100 ppm H₂S concentration shall trigger activation of this plan.

Emergency Procedures

In the event of a release of gas containing H₂S, the first responder(s) must

- Isolate the area and prevent entry by other persons into the 100 ppm ROE.
- Evacuate any public places encompassed by the 100 ppm ROE.
- Be equipped with H₂S monitors and air packs in order to control the release.
- Use the "buddy system" to ensure no injuries occur during the response
- Take precautions to avoid personal injury during this operation.
- Contact operator and/or local officials to aid in operation. See list of phone numbers attached.
- Have received training in the
 - o Detection of H₂S, and
 - o Measures for protection against the gas,
 - o Equipment used for protection and emergency response.

Ignition of Gas source

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO₂). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally, the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever this is an ignition of the gas.

Characteristics of H₂S and SO₂

Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H ₂ S	1.189 Air = 1	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO ₂	2.21 Air = 1	2 ppm	N/A	1000 ppm

Contacting Authorities

All XTO location personnel must liaison with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available including directions to site. The following call list of essential and potential responders has been prepared for use during a release. (Operator Name)'s response must be in coordination with the State of New Mexico's "Hazardous Materials Emergency Response Plan" (HMER).

CARLSBAD OFFICE – EDDY & LEA COUNTIES

3104 E. Greene St., Carlsbad, NM 88220
Carlsbad, NM

575-887-7329

XTO PERSONNEL:

Will Dacus, Drilling Manager	832-948-5021
Brian Dunn, Drilling Supervisor	832-653-0490
Robert Bartels, Construction Execution Planner	406-478-3617
Andy Owens, EH & S Manager	903-245-2602
Frank Fuentes, Production Foreman	575-689-3363

SHERIFF DEPARTMENTS:

Eddy County	575-887-7551
Lea County	575-396-3611

NEW MEXICO STATE POLICE:

575-392-5588

FIRE DEPARTMENTS:

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

HOSPITALS:

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

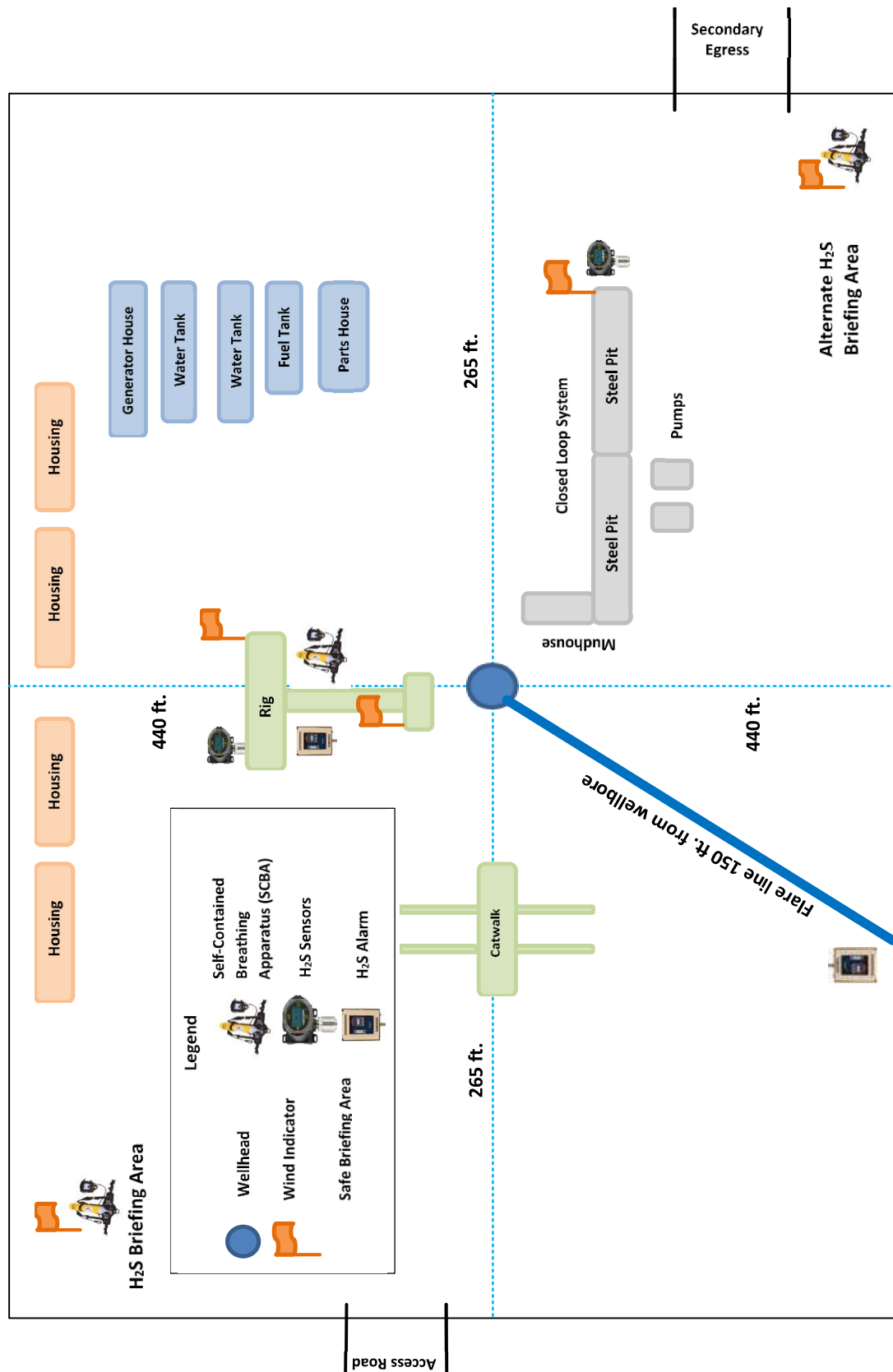
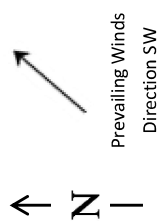
AGENT NOTIFICATIONS:**For Lea County:**

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

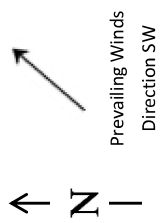
For Eddy County:

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

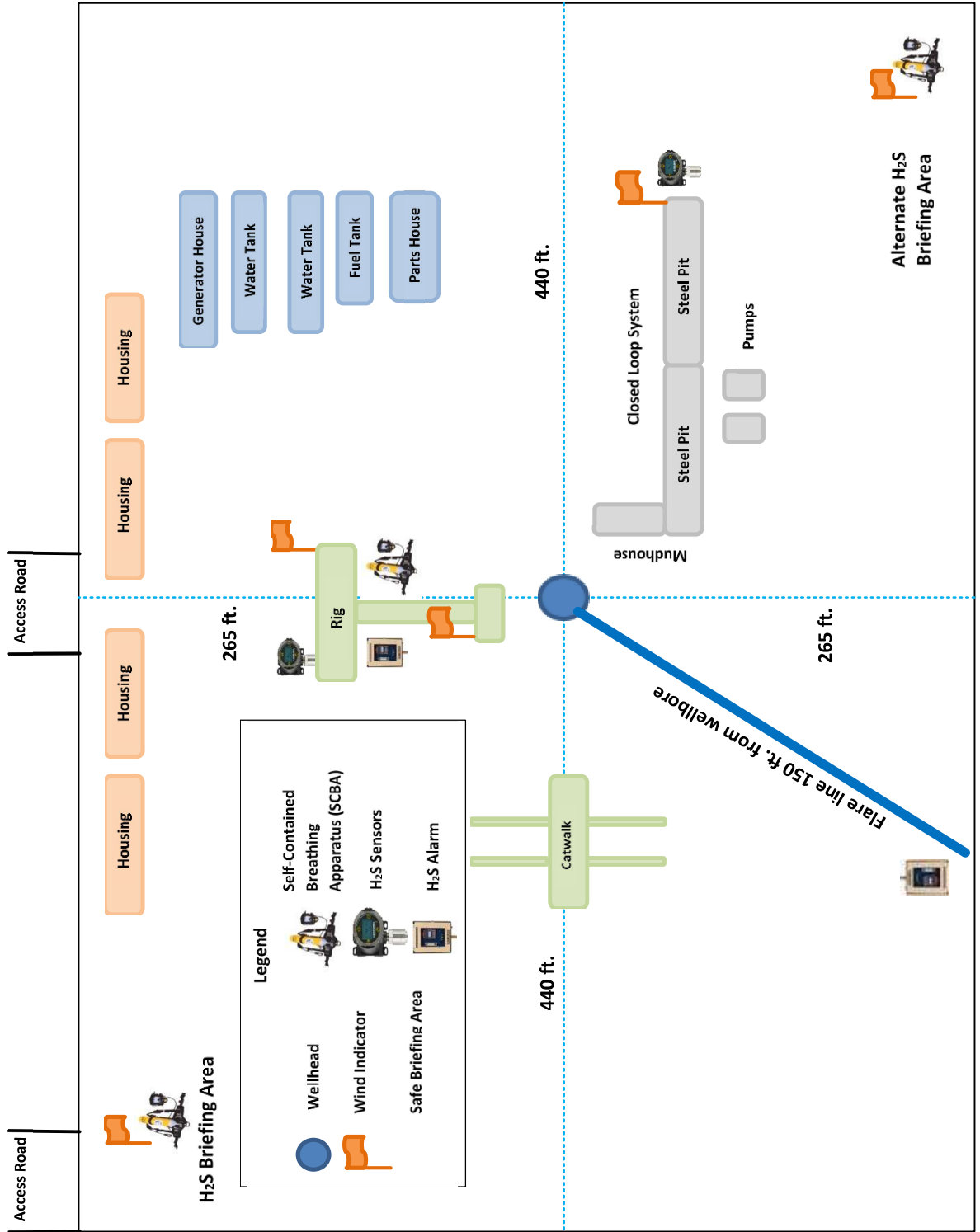
H2S Briefing Areas and Alarm Locations



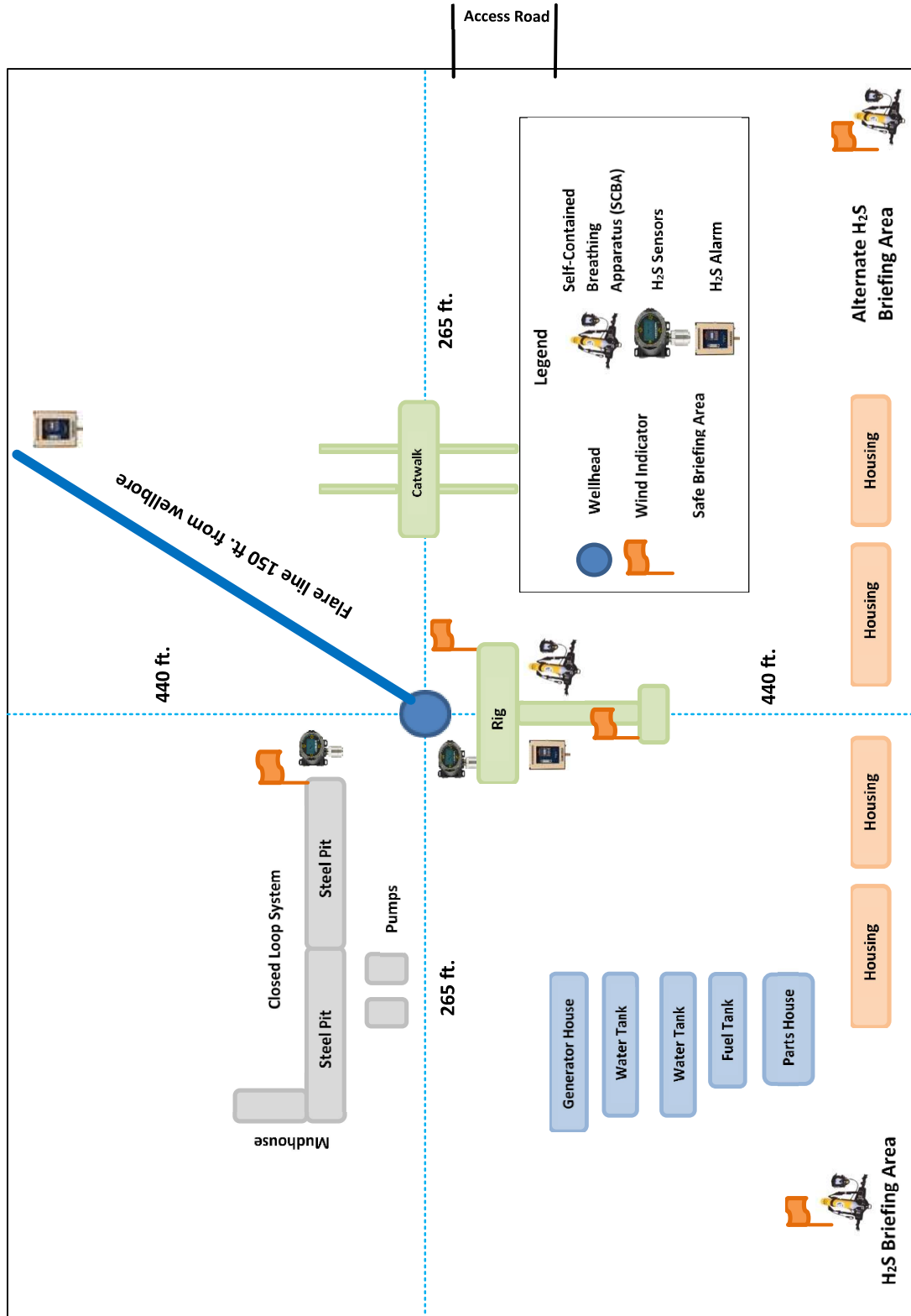
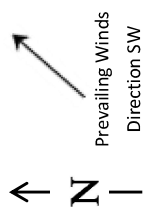
H2S Briefing Areas and Alarm Locations



Prevailing Winds
Direction SW



H2S Briefing Areas and Alarm Locations



Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** POKER LAKE UNIT 23 DTD**Well Number:** 442H

and the contents thereof disposed of in an approved sewage disposal facility. All state and local laws and regulations pertaining to the disposal of human and solid waste will be complied with. This equipment will be properly maintained during the drilling and completion operations and will be removed when all operations are complete.

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

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

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

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

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

Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** POKER LAKE UNIT 23 DTD**Well Number:** 442H**Are you storing cuttings on location?** Y

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

Cuttings area length (ft.)**Cuttings area width (ft.)****Cuttings area depth (ft.)****Cuttings area volume (cu. yd.)****Is at least 50% of the cuttings area in cut?****WCuttings area liner****Cuttings area liner specifications and installation description**

Section 8 - Ancillary

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

Section 9 - Well Site

Well Site Layout Diagram:

PLU_23_DTD_442H_Well_20240413202432.pdf

PLU_23_DTD_442H_RL_20240413202433.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,

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 23 DTD

Well Number: 442H

and deep or excessive rills (greater than 3 inches) are not observed.

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

Disturbance Comments:

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

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

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

Existing Vegetation at the well pad: Soils are classified as Simona Gravelly Fine Sandy Loam and Simona-Bippus Complex. Simona soils are found on alluvial fans and 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

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

Existing Vegetation Community at the road

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

Existing Vegetation Community at the pipeline

Existing Vegetation Community at other disturbances: Soils are classified as Simona Gravelly Fine Sandy Loam and Simona-Bippus Complex. Simona soils are found on alluvial fans and

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 408995

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 408995
	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.	12/5/2024
tsebastian	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	12/5/2024
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	12/24/2024
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	12/24/2024
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.	12/24/2024
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.	12/24/2024