

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 checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		6. If Indian, Allottee or Tribe Name
1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input 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 543H
3a. Address 6401 HOLIDAY HILL ROAD BLDG 5, MIDLAND, TX 7970	3b. Phone No. (include area code) (432) 683-2277	9. API Well No. 30-015-55913
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SESE / 645 FSL / 577 FEL / LAT 32.212412 / LONG -103.844827 At proposed prod. zone SENE / 2627 FNL / 1315 FEL / LAT 32.174403 / LONG -103.847205		10. Field and Pool, or Exploratory WILDCAT G-06 S243026M/BONE SPRIN
11. Sec., T. R. M. or Blk. and Survey or Area SEC 14/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) 577 feet	16. No of acres in lease 800.0	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 9871 feet / 22807 feet	20. BLM/BIA Bond No. in file FED: COB000050
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3443 feet	22. Approximate date work will start* 07/24/2025	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)

APPROVED WITH CONDITIONS

Approval Date: 11/22/2024



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

Application for Permit to Drill

APD Package Report

Date Printed: 11/26/2024 12:25 PM

APD ID: 10400098060

Well Status: AAPD

APD Received Date: 04/16/2024 08:53 AM

Well Name: POKER LAKE UNIT 23 DTD

Operator: XTO PERMIAN OPERATING LLC

Well Number: 543H

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): 4 file(s)
 - Hydrogen sulfide drilling operations plan: 1 file(s)
 - Proposed horizontal/directional/multi-lateral plan submission: 1 file(s)
 - Other Facets: 6 file(s)
 - Other Variances: 4 file(s)
- SUPO Report
- SUPO Attachments
 - Existing Road Map: 1 file(s)
 - Attach Well map: 1 file(s)
 - Water source and transportation map: 1 file(s)
 - Well Site Layout Diagram: 2 file(s)
 - Recontouring attachment: 4 file(s)
 - Other SUPO Attachment: 1 file(s)
- PWD Report
- PWD Attachments
 - None

- Bond Report
- Bond Attachments
 - None

Form 3160-3
(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.		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	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: SESE / 645 FSL / 577 FEL / TWSP: 24S / RANGE: 30E / SECTION: 14 / LAT: 32.212412 / LONG: -103.844827 (TVD: 0 feet, MD: 0 feet)

PPP: NENE / 100 FNL / 1329 FEL / TWSP: 24S / RANGE: 30E / SECTION: 23 / LAT: 32.210362 / LONG: -103.847267 (TVD: 9871 feet, MD: 10500 feet)

PPP: NENE / 0 FSL / 1304 FEL / TWSP: 24S / RANGE: 30E / SECTION: 26 / LAT: 32.196142 / LONG: -103.847243 (TVD: 9871 feet, MD: 15800 feet)

BHL: SENE / 2627 FNL / 1315 FEL / TWSP: 24S / RANGE: 30E / SECTION: 35 / LAT: 32.174403 / LONG: -103.847205 (TVD: 9871 feet, MD: 22807 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
	Submittal Type:	<input checked="" type="checkbox"/> Initial Submittal
		<input type="checkbox"/> Amended Report
		<input type="checkbox"/> As Drilled

WELL LOCATION INFORMATION

API Number 30-015-55913	Pool Code 97798	Pool Name WILDCAT G-06 S243026M; BONE SPRING
Property Code 325598	Property Name POKER LAKE UNIT 23 DTD	Well Number 543H
OGRID No. 373075	Operator Name XTO PERMIAN OPERATING, LLC	Ground Level Elevation 3,443'
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
P	14	24S	30E		645 FSL	577 FEL	32.212412	-103.844827	EDDY

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
H	35	24S	30E		2,627 FNL	1,315 FEL	32.174403	-103.847205	EDDY

Dedicated Acres 800.00	Infill or Defining Well DEFINING	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
P	14	24S	30E		645 FSL	577 FEL	32.212412	-103.844827	EDDY

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
A	23	24S	30E		100 FNL	1,329 FEL	32.210362	-103.847267	EDDY

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
H	35	24S	30E		2,537 FNL	1,316 FEL	32.174650	-103.847208	EDDY

Unitized Area or Area of Interest NMNM105422429	Spacing Unit Type : <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical	Ground Elevation 3,443'
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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
10/29/2024
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

DN

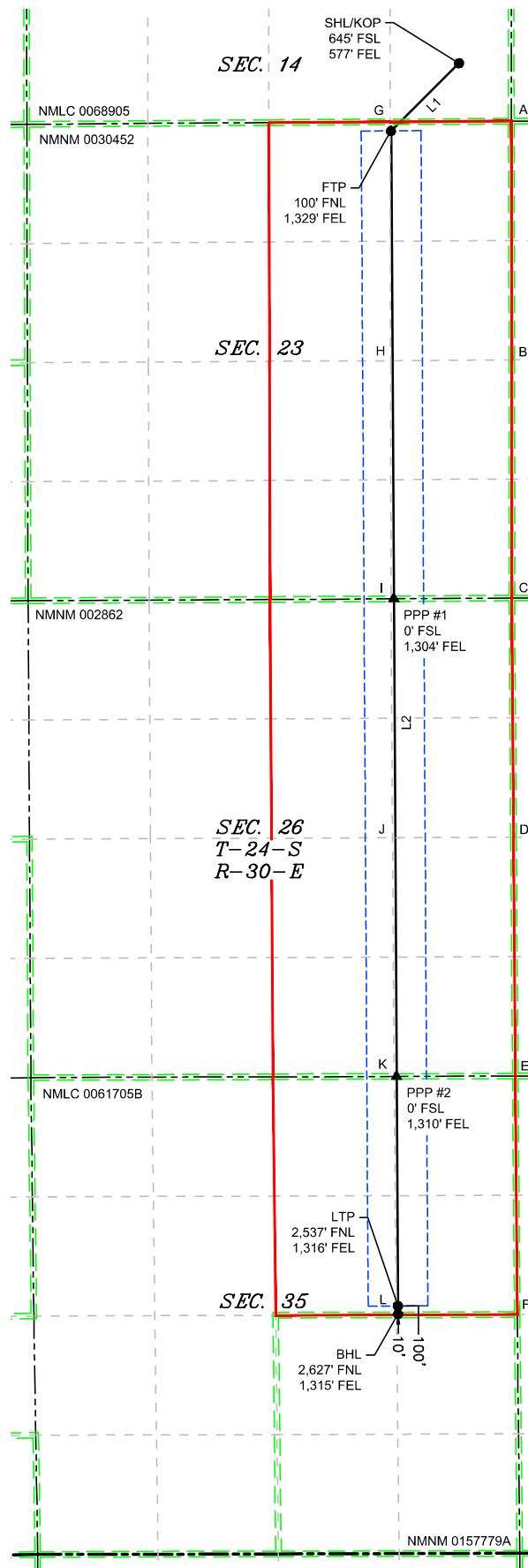
618.013003.09-69

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 than 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 is 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	225°04'07"	1,061.06'
L2	179°39'27"	13,081.57'

COORDINATE TABLE	
SHL/KOP (NAD 83 NME)	SHL/KOP (NAD 27 NME)
Y = 441,353.0 N	Y = 441,294.0 N
X = 692,419.3 E	X = 651,235.5 E
LAT. = 32.212412°N	LAT. = 32.212289°N
LONG. = 103.844827°W	LONG. = 103.844341°W
FTP (NAD 83 NME)	FTP (NAD 27 NME)
Y = 440,603.7 N	Y = 440,544.6 N
X = 691,668.1 E	X = 650,484.3 E
LAT. = 32.210362°N	LAT. = 32.210238°N
LONG. = 103.847267°W	LONG. = 103.846781°W
PPP #1 (NAD 83 NME)	PPP #1 (NAD 27 NME)
Y = 435,430.6 N	Y = 435,371.7 N
X = 691,698.7 E	X = 650,514.8 E
LAT. = 32.196142°N	LAT. = 32.196018°N
LONG. = 103.847243°W	LONG. = 103.846758°W
PPP #2 (NAD 83 NME)	PPP #2 (NAD 27 NME)
Y = 430,149.9 N	Y = 430,091.1 N
X = 691,730.0 E	X = 650,545.9 E
LAT. = 32.181626°N	LAT. = 32.181501°N
LONG. = 103.847219°W	LONG. = 103.846735°W
LTP (NAD 83 NME)	LTP (NAD 27 NME)
Y = 427,612.3 N	Y = 427,553.6 N
X = 691,745.1 E	X = 650,560.8 E
LAT. = 32.174650°N	LAT. = 32.174526°N
LONG. = 103.847208°W	LONG. = 103.846724°W
BHL (NAD 83 NME)	BHL (NAD 27 NME)
Y = 427,522.3 N	Y = 427,463.6 N
X = 691,746.3 E	X = 650,562.1 E
LAT. = 32.174403°N	LAT. = 32.174279°N
LONG. = 103.847205°W	LONG. = 103.846721°W
CORNER COORDINATES (NAD 83 NME)	
A - Y = 440,711.4 N	A - X = 692,997.1 E
B - Y = 438,070.5 N	B - X = 693,001.3 E
C - Y = 435,439.4 N	C - X = 693,002.2 E
D - Y = 432,784.0 N	D - X = 690,347.4 E
E - Y = 430,154.0 N	E - X = 693,039.8 E
F - Y = 427,516.4 N	F - X = 693,061.9 E
G - Y = 440,703.6 N	G - X = 691,657.9 E
H - Y = 438,063.2 N	H - X = 691,663.1 E
I - Y = 435,430.3 N	I - X = 691,666.7 E
J - Y = 432,788.9 N	J - X = 691,684.1 E
K - Y = 430,149.6 N	K - X = 691,701.7 E
L - Y = 427,512.3 N	L - X = 691,727.9 E
CORNER COORDINATES (NAD 27 NME)	
A - Y = 440,652.4 N	A - X = 651,813.3 E
B - Y = 438,011.6 N	B - X = 651,817.4 E
C - Y = 435,380.5 N	C - X = 651,818.3 E
D - Y = 432,725.2 N	D - X = 649,163.4 E
E - Y = 430,095.2 N	E - X = 651,855.6 E
F - Y = 427,457.7 N	F - X = 651,877.6 E
G - Y = 440,644.6 N	G - X = 650,474.1 E
H - Y = 438,004.2 N	H - X = 650,479.3 E
I - Y = 435,371.5 N	I - X = 650,482.8 E
J - Y = 432,730.1 N	J - X = 650,500.1 E
K - Y = 430,090.8 N	K - X = 650,517.5 E
L - Y = 427,453.6 N	L - X = 650,543.6 E

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description

Effective May 25, 2021

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

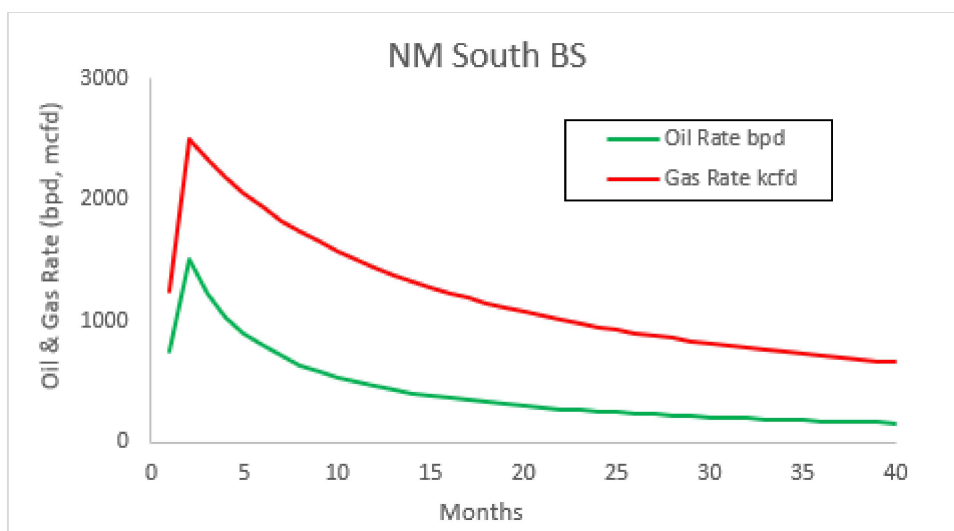
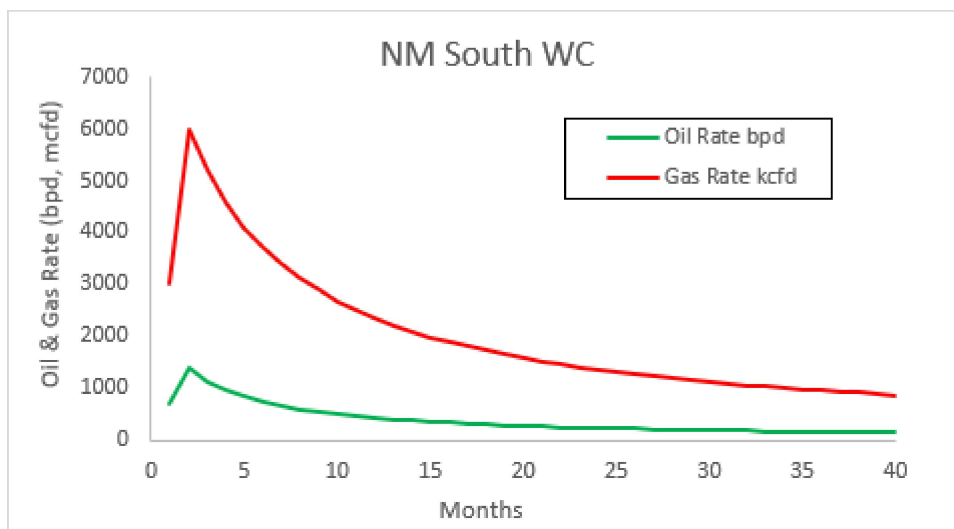
XTO Permian Operating LLC will employ best management practices and control technologies to maximize the recovery and minimize waste of natural gas through venting and flaring.

- 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: 10400098060

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: 543H

Well Type: OIL WELL

Well Work Type: Drill

[Show Final Text](#)

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
14549559	QUATERNARY	3443	0	0	ALLUVIUM	USEABLE WATER	N
14549560	RUSTLER	2090	1353	1353	ANHYDRITE	USEABLE WATER	N
14549561	SALADO	1687	1756	1756	POTASH, SALT	POTASH	N
14549562	BASE OF SALT	-506	3949	3949	ANHYDRITE, DOLOMITE, POTASH	POTASH	N
14549563	DELAWARE	-700	4143	4143	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	N
14549564	BRUSHY CANYON	-3206	6649	6649	SANDSTONE, SHALE, SILTSTONE	NATURAL GAS, OIL, OTHER : Produced Water	N
14549565	BONE SPRING	-4495	7938	7938	LIMESTONE, SHALE	NATURAL GAS, OIL, OTHER : Produced Water	N
14549566	BONE SPRING 1ST	-5266	8709	8709	SANDSTONE, SHALE, SILTSTONE	NATURAL GAS, OIL, OTHER : Produced Water	N
14549567	BONE SPRING 2ND	-6418	9861	9861	LIMESTONE, SHALE	NATURAL GAS, OIL, OTHER : Produced Water	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M

Rating Depth: 9871

Equipment: Once the permanent WH is installed on the surface casing, the blow out preventer equipment (BOP) will consist of a 5M Hydril Annular and a 5M Double Ram BOP. XTO will use a 4 string Slim Hole Multi-Bowl system which is attached.

Requesting Variance? YES

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

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

Choke Diagram Attachment:

PLU_23_DTD_5MCM_20240410151726.pdf

BOP Diagram Attachment:

Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** POKER LAKE UNIT 23 DTD**Well Number:** 543H

PLU_23_DTD_5MCM_20240410151726.pdf

5MBOP_20240928083230.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	17.5	13.375	NEW	API	N	0	1731	0	1731	3443	1712	1731	J-55	54.5	BUTT	1.49	2.85	DRY	9.64	DRY	9.64
2	INTERMEDIATE	12.25	9.625	NEW	API	N	0	4049	0	4049	3446	-606	4049	J-55	40	BUTT	2.81	1.86	DRY	3.89	DRY	3.89
3	INTERMEDIATE	8.75	7.625	NEW	API	Y	0	8955	0	8792	3446	-5349	8955	L-80	29.7	FJ	3.8	2.14	DRY	2.84	DRY	2.84
4	PRODUCTION	6.75	5.5	NEW	NON API	Y	0	22807	0	9871	3446	-6428	22807	P-110	20	OTHER - Freedom HTQ/Talon HTQ	2.06	1.05	DRY	5.42	DRY	5.42

Casing Attachments**Casing ID:** 1 **String** SURFACE**Inspection Document:****Spec Document:****Tapered String Spec:****Casing Design Assumptions and Worksheet(s):**

PLU_23_DTD_543H_Csg_20241011133420.pdf

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 23 DTD

Well Number: 543H

Casing Attachments

Casing ID: 2	String	INTERMEDIATE
Inspection Document:		
Spec Document:		
Tapered String Spec:		
Casing Design Assumptions and Worksheet(s):		
PLU_23_DTD_543H_Csg_20241014054343.pdf		
Casing ID: 3	String	INTERMEDIATE
Inspection Document:		
Spec Document:		
Tapered String Spec:		
PLU_23_DTD_543H_Csg_20241011133407.pdf		
Casing Design Assumptions and Worksheet(s):		
PLU_23_DTD_543H_Csg_20241011133411.pdf		
Casing ID: 4	String	PRODUCTION
Inspection Document:		
Spec Document:		
Freedom_semi_premium_5.5_production_casing_20240928083319.pdf		
Talon___semiflush_5.5_production_casing_20240928083334.pdf		
Tapered String Spec:		
PLU_23_DTD_543H_Csg_20241011133351.pdf		
Casing Design Assumptions and Worksheet(s):		
PLU_23_DTD_543H_Csg_20241011133355.pdf		

Section 4 - Cement

Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** POKER LAKE UNIT 23 DTD**Well Number:** 543H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	1731	1490	1.33	12.8	1981.7	100	EconoCem-HLTRRC	NA
SURFACE	Tail		0	1731	310	1.33	14.8	412.3	100	Class C	2% CaCl
INTERMEDIATE	Lead		0	4049	850	2.06	14.8	1751	100	Class C	NA
INTERMEDIATE	Tail		0	4049	60	2.06	15.6	123.6	100	Class C	2% CaCl
INTERMEDIATE	Lead		3749	6649	240	1.27	14.8	304.8	100	Class C	NA
INTERMEDIATE	Tail		6649	8955	130	2.77	14.8	360.1	100	Class C	NA
PRODUCTION	Lead		8655	9317	20	2.69	11.5	53.8	30	NeoCem	NA
PRODUCTION	Tail		9317	22807	850	1.51	13.2	1283.5	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

Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** POKER LAKE UNIT 23 DTD**Well Number:** 543H

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
8955	2280 7	OIL-BASED MUD	10.5	11							
4049	8955	OTHER : BDE/OBM	8.8	9.3							
0	1731	WATER-BASED MUD	8.4	8.9							
1731	4049	SALT SATURATED	10.5	11							

Section 6 - Test, Logging, Coring

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

Open hole logging will not be done on this well.

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

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

Coring operation description for the well:

No coring is planned for the well.

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 5646

Anticipated Surface Pressure: 3474

Anticipated Bottom Hole Temperature(F): 185

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

Describe:

Contingency Plans geohazards description:

Contingency Plans geohazards

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations

XTO_Energy_H2S_Plan_Updated_20240928083112.pdf

Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** POKER LAKE UNIT 23 DTD**Well Number:** 543H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

PLU_23_DTD_543H_DD_20240414101255.pdf

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

PLU_23_DTD_543H_Cmt_20240414125554.pdf

13.375_9.625_7.625_5.5_4_String_Slimhole_SDT_3301_1_20240928083658.pdf

PLU_23_DTD_H2S_DiaA_20241011133513.pdf

PLU_23_DTD_H2S_DiaD_20241011133513.pdf

PLU_23_DTD_H2S_DiaC_20241011133513.pdf

PLU_23_DTD_GCP_20241021093811.pdf

Other Variance attachment:

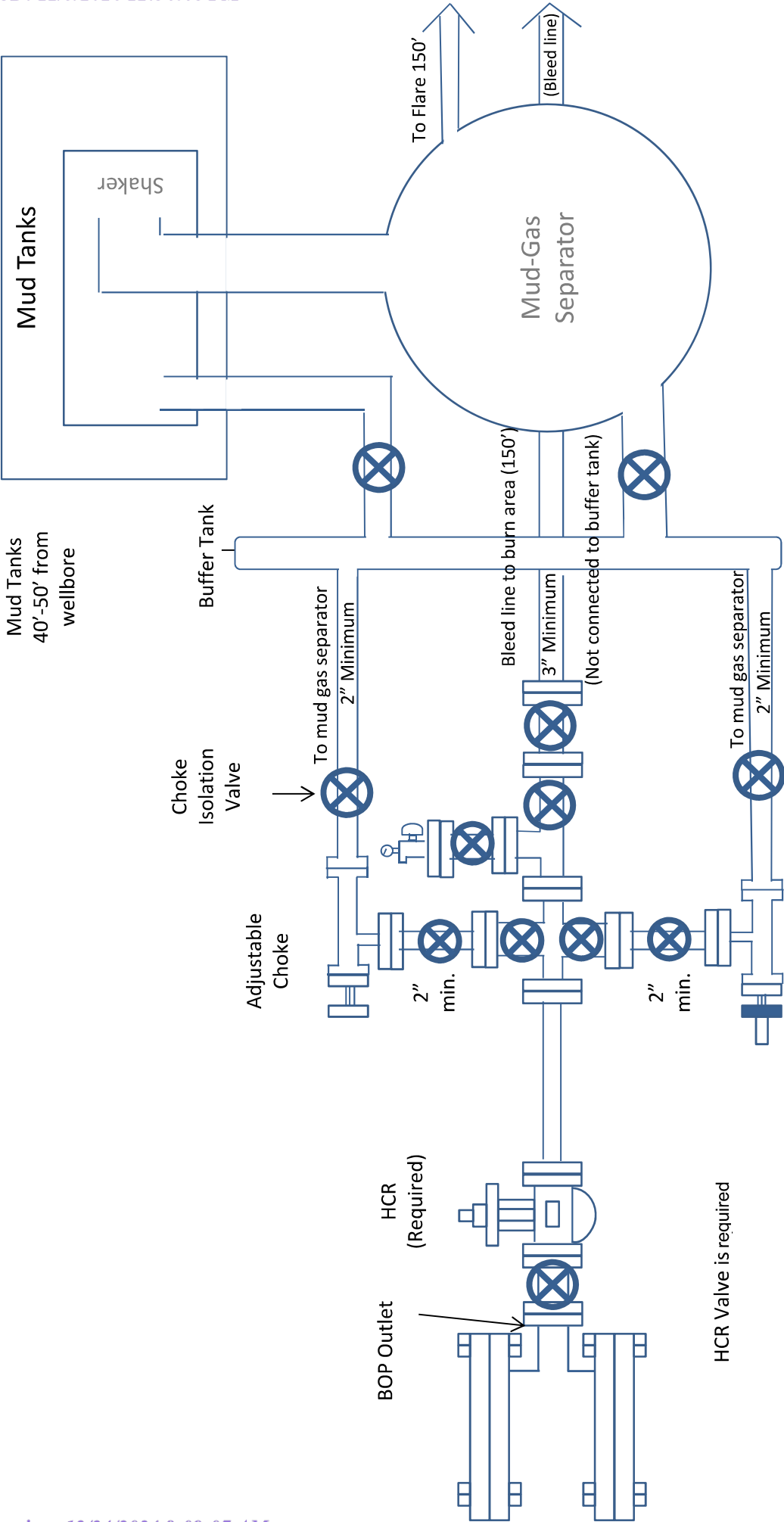
PLU_23_DTD_BOP_BTV_20240410160813.pdf

Updated_Flex_Hose_20240928083729.pdf

Offline_Cement_Variance_Surf___Interm_Csg_20240928083741.pdf

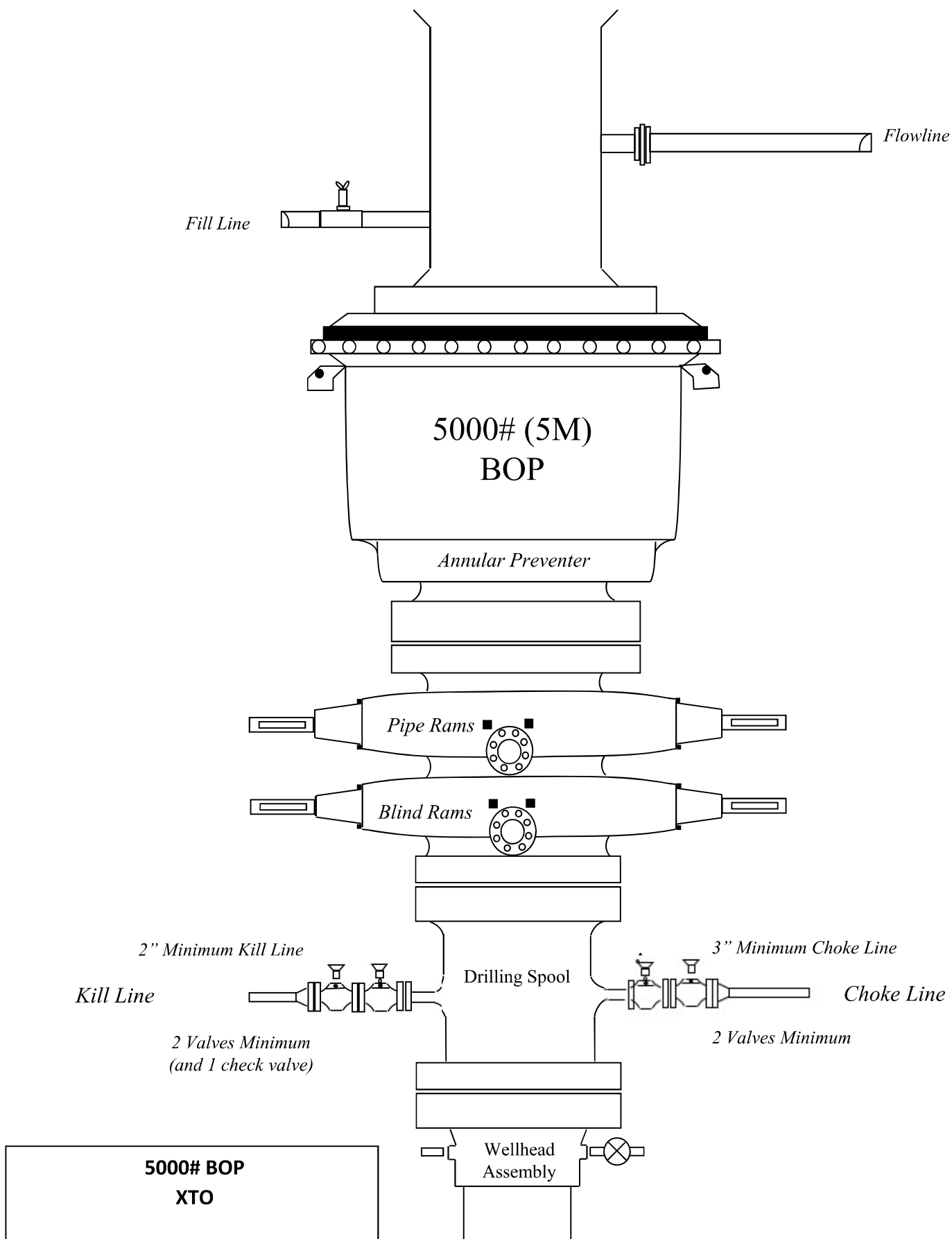
Spudder_Rig_Request_20240928083741.pdf

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



5M Choke Manifold Diagram
XTO

Drilling Operations
Choke Manifold
5M Service



Casing Assumptions

Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
17.5	0' – 1731'	13.375	54.5	J-55	BTC	New	2.85	1.49	9.64
12.25	0' – 4049'	9.625	40	J-55	BTC	New	1.86	2.81	3.89
8.75	0' – 4149'	7.625	29.7	RY P-110	Flush Joint	New	2.94	2.82	2.10
8.75	4149' – 8955'	7.625	29.7	HC L-80	Flush Joint	New	2.14	3.80	2.84
6.75	0' – 8855'	5.5	20	RY P-110	Freedom HTQ	New	1.05	2.30	2.17
6.75	8855' - 22807'	5.5	20	RY P-110	Talon HTQ	New	1.05	2.06	5.42

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 (6649') and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to 3749'.

XTO requests to pump an Optional Lead if well conditions dictate in an attempt to bring cement to surface. 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 wellhead provider 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.

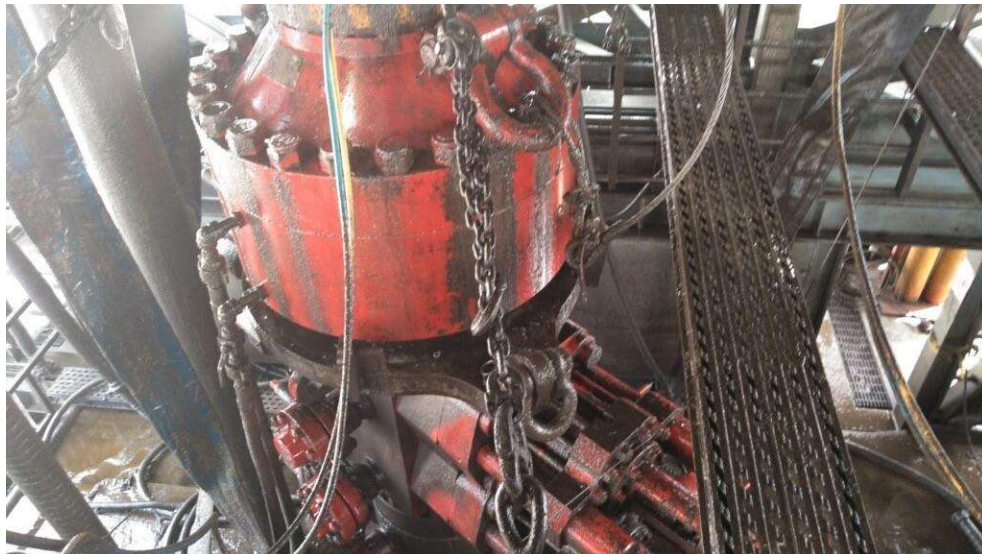


Figure 1: Winch System attached to BOP Stack

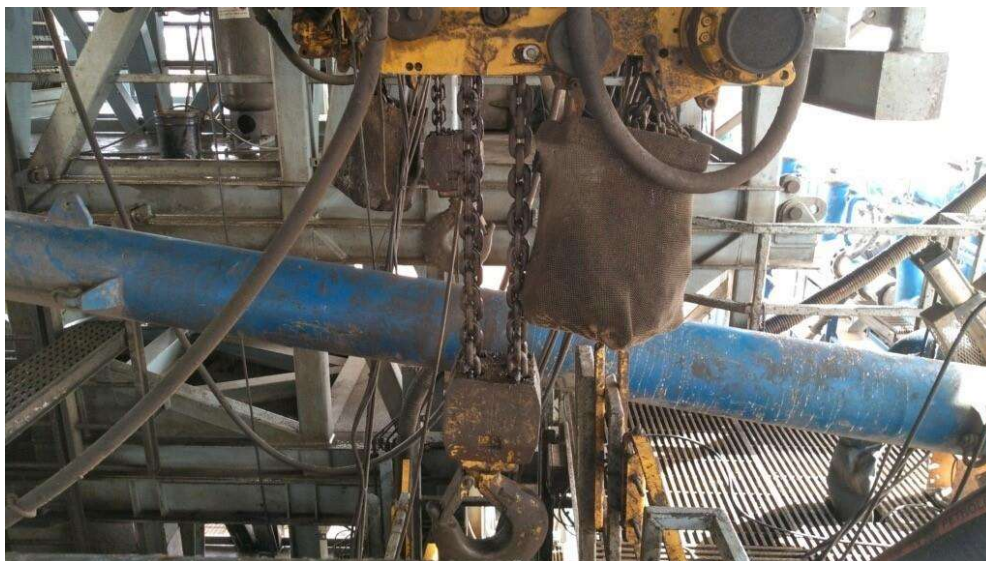


Figure 2: BOP Winch System

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.

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

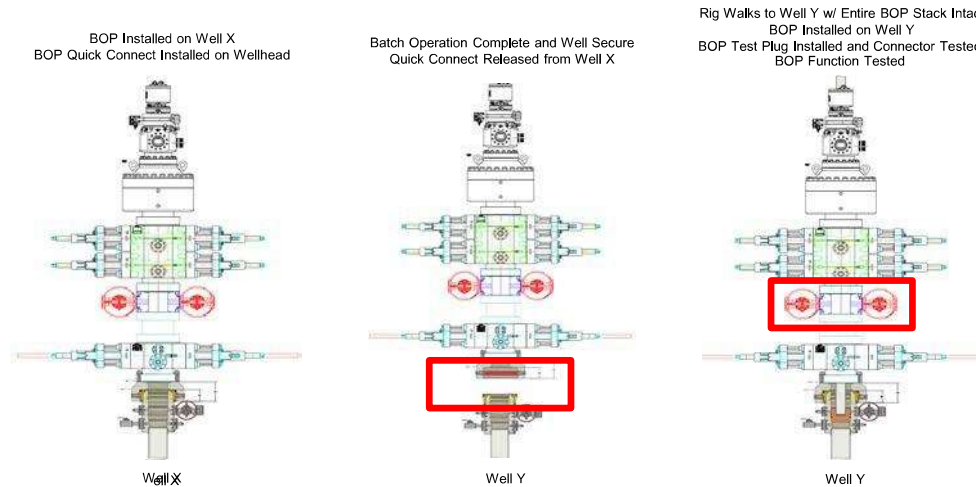
each BOP nipple up, XTO Energy performs a choke drill with the rig crew prior to drilling out every casing shoe. This is additional training for the rig crew that exceeds the requirements of the CFR Title 43 Part 3170.

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



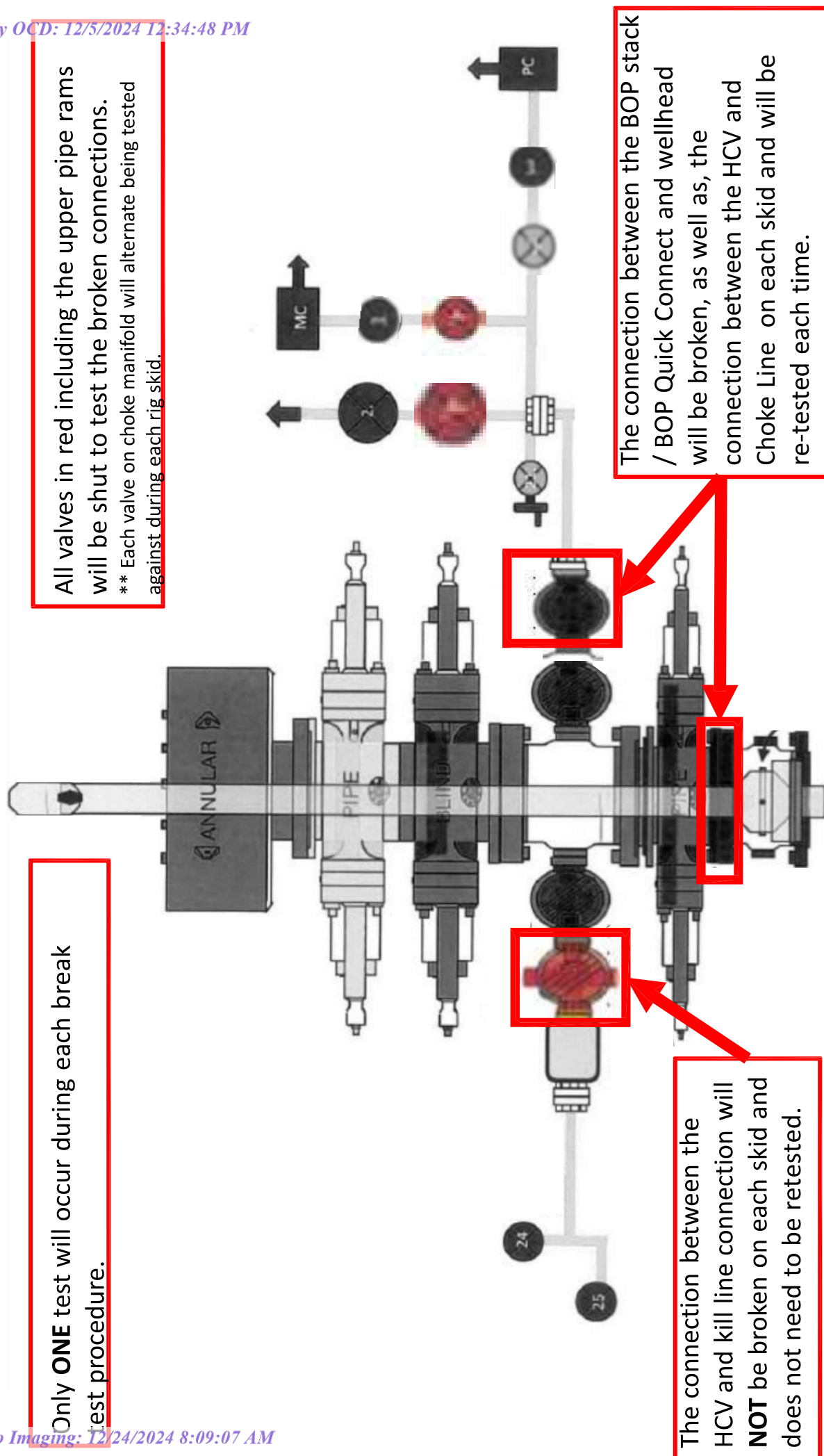
Summary

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.

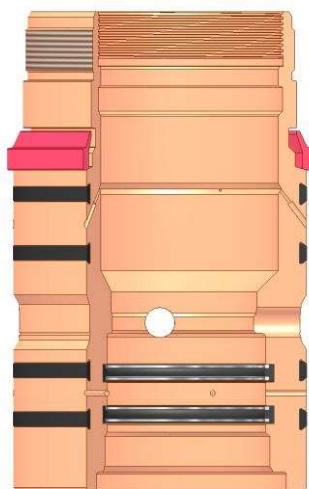
1. Cement Program

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

2. Offline Cementing Procedure

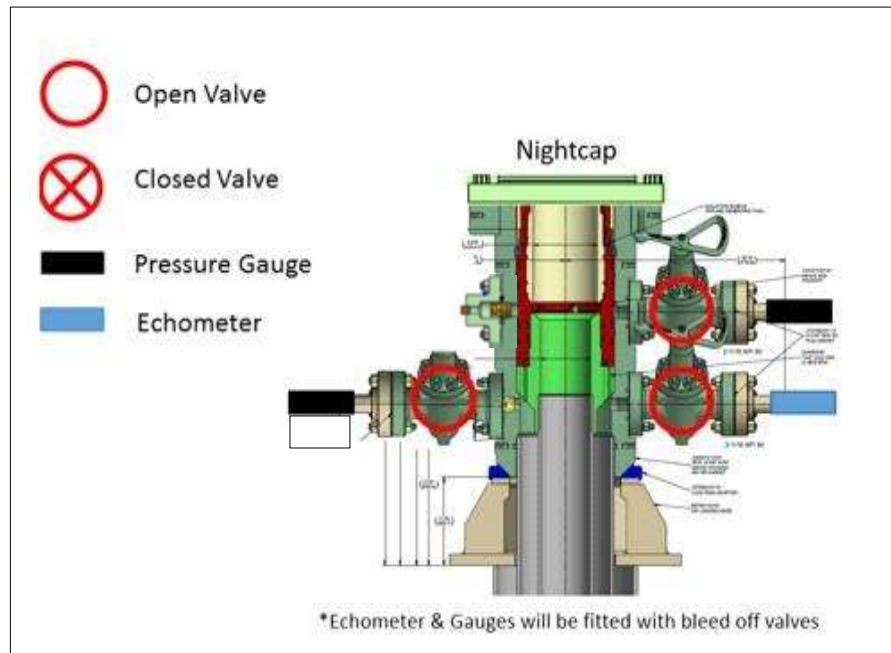
The operational sequence will be as follows. If a well control event occurs, the BLM will be contacted for approval prior to conducting offline cementing operations.

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.



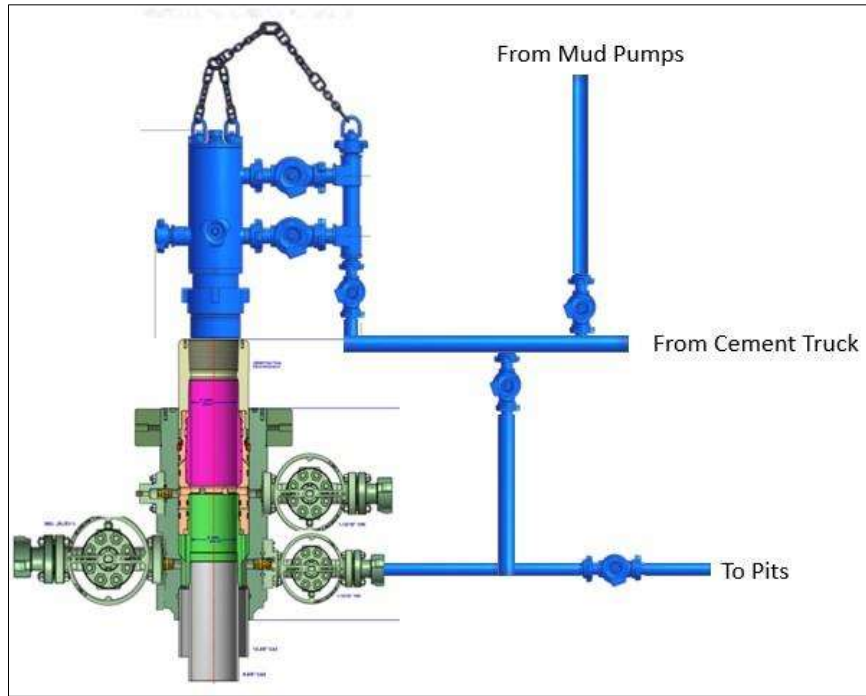
Annular packoff with both external and internal seals

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. Cismos***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:

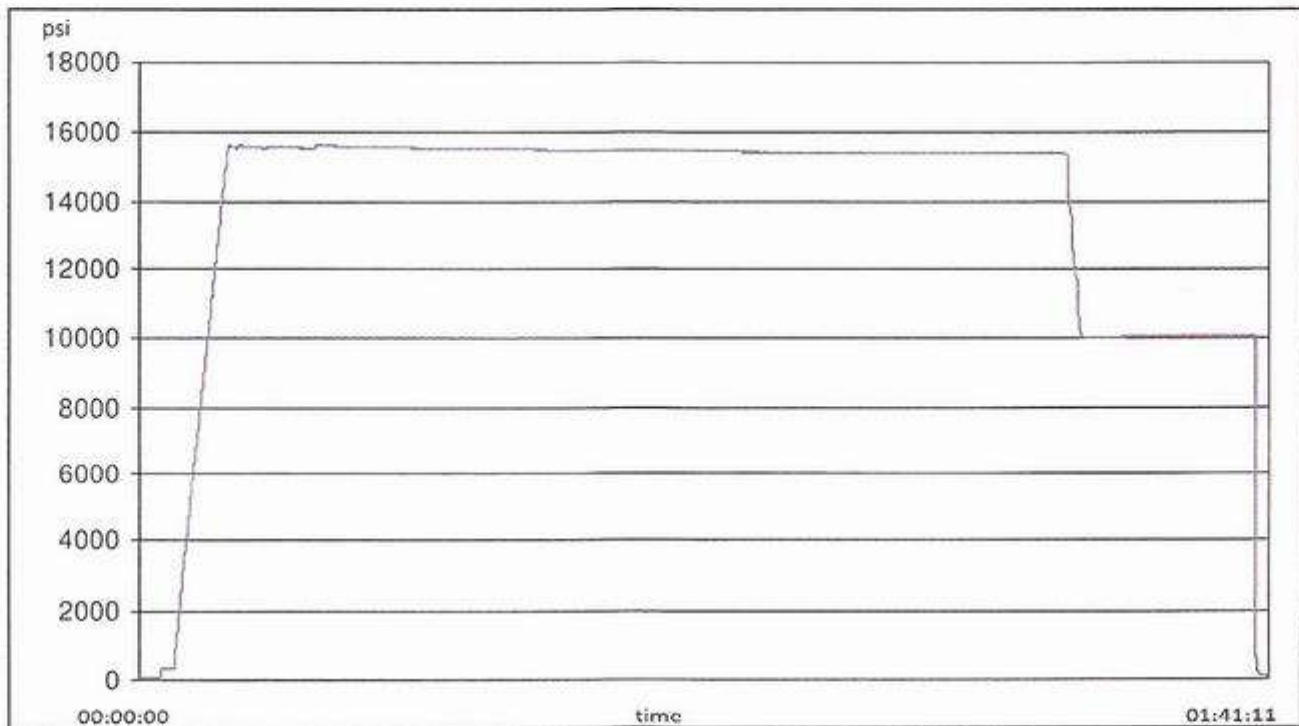
Visual check:

Pressure test result: PASS

Length measurement result:

Length: 45 feet

Test operator: Travis





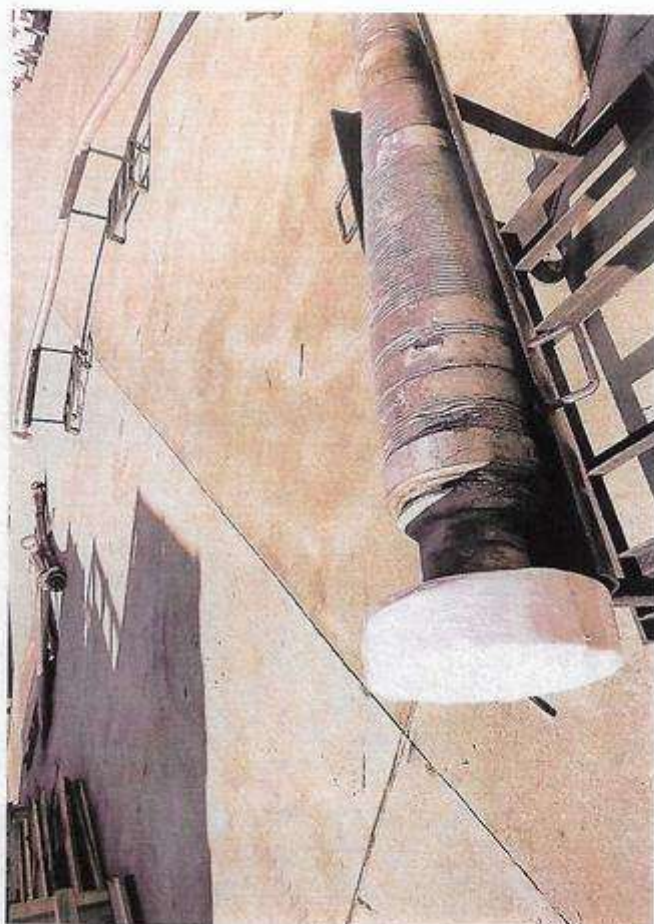
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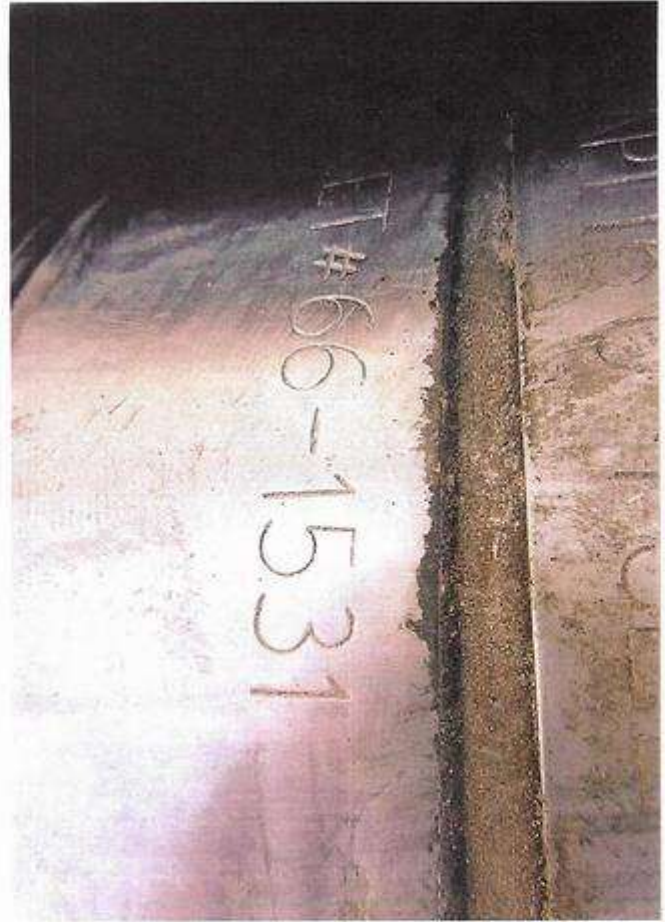
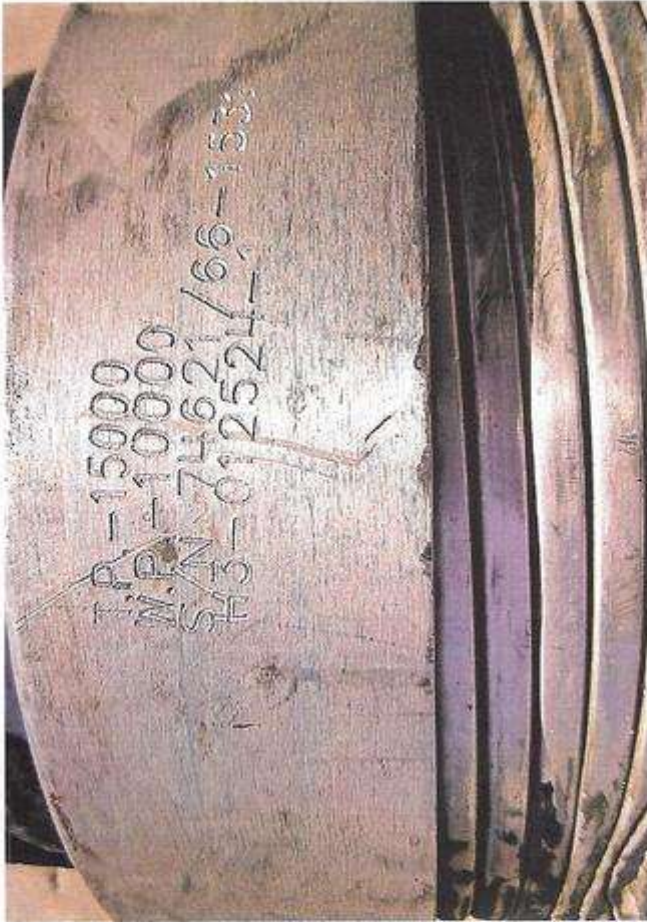
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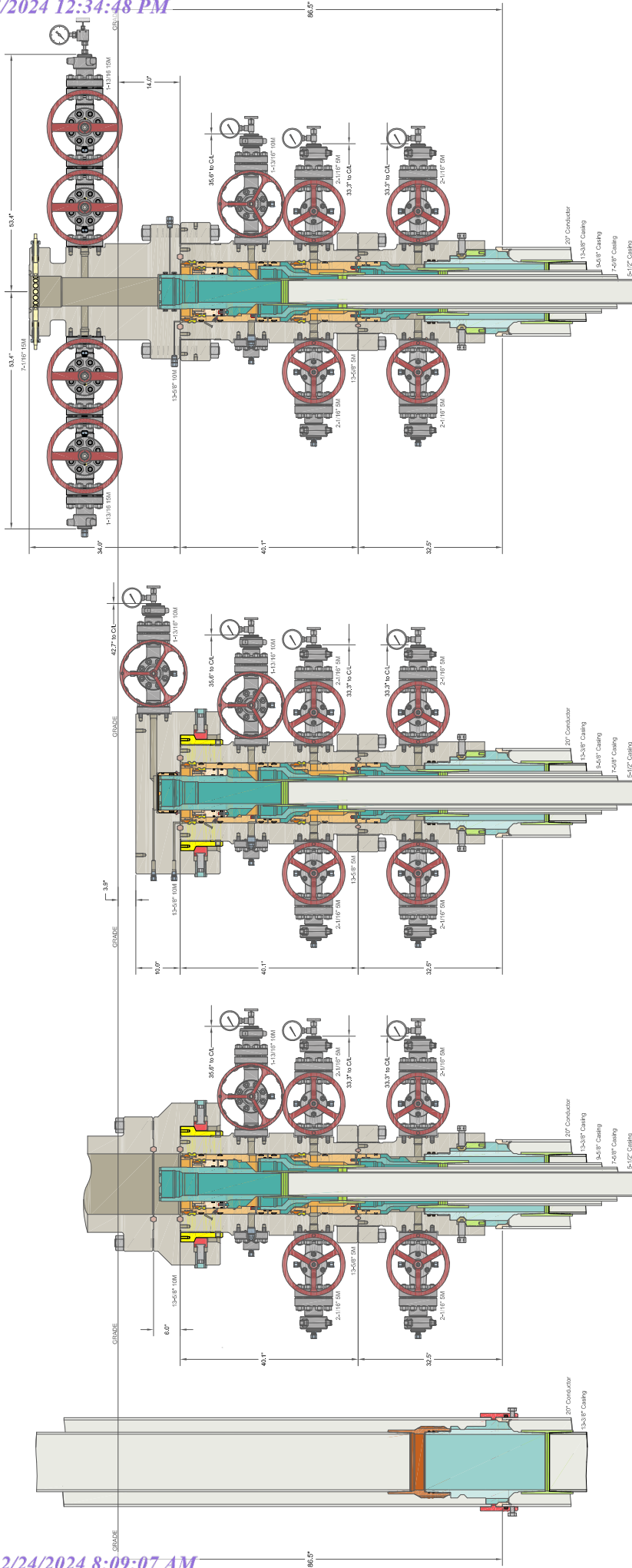
TEST REPORT

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







ALL DIMENSIONS APPROXIMATE		
XTO ENERGY INC DELAWARE BASIN		
CACTUS WELLHEAD LLC		
(20") x 13-3/8" x 9-5/8" x 7-5/8" x 5-1/2" MBU-4T-CFL-R-DBLO With 13-5/8" 10M x 7-1/16" 15M CTH-DBLHPS-SB Tubing Head And Drilling & Skid Configurations		
DRAWN	VJK	31MAR22
APPRV		
DRAWING NO.	SDT-3301	

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Well Plan Report - Poker Lake Unit 23 DTD South 543H

Measured Depth: 22806.99 ft
TVD RKB: 9871.00 ft
Location
Cartographic Reference System: New Mexico East - NAD 27
Northing: 441294.00 ft
Easting: 651235.50 ft
RKB: 3475.00 ft
Ground Level: 3443.00 ft
North Reference: Grid
Convergence Angle: 0.26 Deg

Plan Sections
Poker Lake Unit 23 DTD South 543H

Measured	Depth (ft)	Inclination (Deg)	Azimuth (Deg)	TVD		Y Offset (ft)	X Offset (ft)	Build Rate (Deg/100ft)	Turn Rate (Deg/100ft)	Dogleg	
				RKB (ft)						Semi-minor	Major
	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00
	4000.00	0.00	0.00	4000.00		0.00	0.00	0.00	0.00	0.00	0.00
	4966.79	19.34	225.07	4948.54		-114.12	-114.40	2.00	0.00	2.00	2.00
	7195.41	19.34	225.07	7051.46		-635.28	-636.80	0.00	0.00	0.00	0.00
	8162.20	0.00	0.00	8000.00		-749.40	-751.20	-2.00	0.00	2.00	2.00
	9317.00	0.00	0.00	9154.80		-749.40	-751.20	0.00	0.00	0.00	0.00
	10442.00	90.00	179.66	9871.00		-1465.58	-746.99	8.00	0.00	8.00	8.00
	22716.98	90.00	179.66	9871.00		-13740.35	-674.79	0.00	0.00	0.00	LTP 20
	22806.99	90.00	179.66	9871.00		-13830.36	-674.26	0.00	0.00	0.00	BHL 20

Position Uncertainty
Poker Lake Unit 23 DTD South 543H

Measured	TVD	Highside	Lateral	Vertical	Magnitude	Semi-major	Semi-minor	Tool
----------	-----	----------	---------	----------	-----------	------------	------------	------

Depth (ft)	Inclination (°)	Azimuth (°)	RKB (ft)	Error (ft)	Bias (ft)	Error (ft)	Bias (ft)	Error (ft)	Bias (ft)	of Bias (ft)	Error (ft)	Error (ft)	Azimuth (°)	Used
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	MWD+IFR1+MS
100.000	0.000	0.000	100.000	0.700	0.000	0.350	0.000	2.300	0.000	0.000	0.751	0.220	112.264	MWD+IFR1+MS
200.000	0.000	0.000	200.000	1.112	0.000	0.861	0.000	2.310	0.000	0.000	1.259	0.627	122.711	MWD+IFR1+MS
300.000	0.000	0.000	300.000	1.497	0.000	1.271	0.000	2.326	0.000	0.000	1.698	0.986	125.469	MWD+IFR1+MS
400.000	0.000	0.000	400.000	1.871	0.000	1.658	0.000	2.347	0.000	0.000	2.108	1.344	126.713	MWD+IFR1+MS
500.000	0.000	0.000	500.000	2.240	0.000	2.034	0.000	2.375	0.000	0.000	2.503	1.701	127.419	MWD+IFR1+MS
600.000	0.000	0.000	600.000	2.607	0.000	2.405	0.000	2.407	0.000	0.000	2.888	2.059	127.873	MWD+IFR1+MS
700.000	0.000	0.000	700.000	2.971	0.000	2.773	0.000	2.445	0.000	0.000	3.267	2.417	128.190	MWD+IFR1+MS
800.000	0.000	0.000	800.000	3.334	0.000	3.138	0.000	2.487	0.000	0.000	3.642	2.775	128.423	MWD+IFR1+MS
900.000	0.000	0.000	900.000	3.696	0.000	3.502	0.000	2.533	0.000	0.000	4.014	3.133	128.602	MWD+IFR1+MS
1000.000	0.000	0.000	1000.000	4.058	0.000	3.865	0.000	2.583	0.000	0.000	4.384	3.491	128.744	MWD+IFR1+MS
1100.000	0.000	0.000	1100.000	4.419	0.000	4.228	0.000	2.636	0.000	0.000	4.752	3.849	128.859	MWD+IFR1+MS
1200.000	0.000	0.000	1200.000	4.779	0.000	4.589	0.000	2.693	0.000	0.000	5.119	4.207	128.954	MWD+IFR1+MS
1300.000	0.000	0.000	1300.000	5.140	0.000	4.950	0.000	2.753	0.000	0.000	5.484	4.565	129.034	MWD+IFR1+MS
1400.000	0.000	0.000	1400.000	5.500	0.000	5.311	0.000	2.816	0.000	0.000	5.849	4.924	129.102	MWD+IFR1+MS
1500.000	0.000	0.000	1500.000	5.860	0.000	5.672	0.000	2.881	0.000	0.000	6.213	5.282	129.161	MWD+IFR1+MS
1600.000	0.000	0.000	1600.000	6.219	0.000	6.032	0.000	2.949	0.000	0.000	6.577	5.640	129.212	MWD+IFR1+MS
1700.000	0.000	0.000	1700.000	6.579	0.000	6.392	0.000	3.018	0.000	0.000	6.939	5.999	129.257	MWD+IFR1+MS
1800.000	0.000	0.000	1800.000	6.938	0.000	6.752	0.000	3.090	0.000	0.000	7.302	6.357	129.297	MWD+IFR1+MS
1900.000	0.000	0.000	1900.000	7.298	0.000	7.112	0.000	3.164	0.000	0.000	7.664	6.715	129.333	MWD+IFR1+MS
2000.000	0.000	0.000	2000.000	7.657	0.000	7.471	0.000	3.239	0.000	0.000	8.026	7.074	129.365	MWD+IFR1+MS
2100.000	0.000	0.000	2100.000	8.016	0.000	7.831	0.000	3.317	0.000	0.000	8.387	7.432	129.394	MWD+IFR1+MS
2200.000	0.000	0.000	2200.000	8.375	0.000	8.190	0.000	3.395	0.000	0.000	8.748	7.791	129.420	MWD+IFR1+MS
2300.000	0.000	0.000	2300.000	8.734	0.000	8.550	0.000	3.476	0.000	0.000	9.109	8.149	129.444	MWD+IFR1+MS
2400.000	0.000	0.000	2400.000	9.093	0.000	8.909	0.000	3.557	0.000	0.000	9.470	8.507	129.466	MWD+IFR1+MS
2500.000	0.000	0.000	2500.000	9.452	0.000	9.268	0.000	3.640	0.000	0.000	9.831	8.866	129.486	MWD+IFR1+MS
2600.000	0.000	0.000	2600.000	9.811	0.000	9.627	0.000	3.725	0.000	0.000	10.191	9.224	129.505	MWD+IFR1+MS
2700.000	0.000	0.000	2700.000	10.170	0.000	9.986	0.000	3.811	0.000	0.000	10.552	9.583	129.522	MWD+IFR1+MS
2800.000	0.000	0.000	2800.000	10.529	0.000	10.345	0.000	3.898	0.000	0.000	10.912	9.941	129.538	MWD+IFR1+MS
2900.000	0.000	0.000	2900.000	10.888	0.000	10.705	0.000	3.986	0.000	0.000	11.272	10.299	129.552	MWD+IFR1+MS
3000.000	0.000	0.000	3000.000	11.247	0.000	11.063	0.000	4.076	0.000	0.000	11.632	10.658	129.566	MWD+IFR1+MS

3100.000	0.000	0.000	3100.000	11.606	0.000	11.422	0.000	4.167	0.000	0.000	11.992	11.016	129.579	MWD+IFR1+MS
3200.000	0.000	0.000	3200.000	11.965	0.000	11.781	0.000	4.259	0.000	0.000	12.352	11.375	129.591	MWD+IFR1+MS
3300.000	0.000	0.000	3300.000	12.323	0.000	12.140	0.000	4.352	0.000	0.000	12.712	11.733	129.603	MWD+IFR1+MS
3400.000	0.000	0.000	3400.000	12.682	0.000	12.499	0.000	4.447	0.000	0.000	13.071	12.092	129.613	MWD+IFR1+MS
3500.000	0.000	0.000	3500.000	13.041	0.000	12.858	0.000	4.543	0.000	0.000	13.431	12.450	129.623	MWD+IFR1+MS
3600.000	0.000	0.000	3600.000	13.400	0.000	13.217	0.000	4.641	0.000	0.000	13.790	12.809	129.633	MWD+IFR1+MS
3700.000	0.000	0.000	3700.000	13.758	0.000	13.576	0.000	4.740	0.000	0.000	14.150	13.167	129.642	MWD+IFR1+MS
3800.000	0.000	0.000	3800.000	14.117	0.000	13.934	0.000	4.840	0.000	0.000	14.509	13.525	129.650	MWD+IFR1+MS
3900.000	0.000	0.000	3900.000	14.476	0.000	14.293	0.000	4.941	0.000	0.000	14.869	13.884	129.658	MWD+IFR1+MS
4000.000	0.000	0.000	4000.000	14.834	0.000	14.652	0.000	5.045	0.000	0.000	15.228	14.242	129.666	MWD+IFR1+MS
4100.000	2.000	225.069	4099.980	15.550	-0.000	14.597	0.000	5.149	0.000	0.000	15.566	14.589	130.033	MWD+IFR1+MS
4200.000	4.000	225.069	4199.838	16.003	-0.000	14.937	0.000	5.255	0.000	0.000	16.038	14.936	132.933	MWD+IFR1+MS
4300.000	6.000	225.069	4299.452	16.432	-0.000	15.278	0.000	5.364	0.000	0.000	16.507	15.278	-44.923	MWD+IFR1+MS
4400.000	8.000	225.069	4398.702	16.838	-0.000	15.620	0.000	5.477	0.000	0.000	16.970	15.619	-43.296	MWD+IFR1+MS
4500.000	10.000	225.069	4497.465	17.221	-0.000	15.962	0.000	5.595	0.000	0.000	17.427	15.958	-42.028	MWD+IFR1+MS
4600.000	12.000	225.069	4595.623	17.580	-0.000	16.306	0.000	5.719	0.000	0.000	17.876	16.298	-41.012	MWD+IFR1+MS
4700.000	14.000	225.069	4693.055	17.918	-0.000	16.651	0.000	5.851	0.000	0.000	18.318	16.639	-40.177	MWD+IFR1+MS
4800.000	16.000	225.069	4789.643	18.233	-0.000	16.998	0.000	5.991	0.000	0.000	18.751	16.981	-39.470	MWD+IFR1+MS
4900.000	18.000	225.069	4885.268	18.527	-0.000	17.348	0.000	6.141	0.000	0.000	19.177	17.326	-38.854	MWD+IFR1+MS
4966.788	19.336	225.069	4948.542	18.659	-0.000	17.580	0.000	6.229	0.000	0.000	19.411	17.557	-38.718	MWD+IFR1+MS
5000.000	19.336	225.069	4979.880	18.761	-0.000	17.695	0.000	6.268	0.000	0.000	19.508	17.672	-38.737	MWD+IFR1+MS
5100.000	19.336	225.069	5074.239	19.070	-0.000	18.048	0.000	6.397	0.000	0.000	19.800	18.026	-38.692	MWD+IFR1+MS
5200.000	19.336	225.069	5168.599	19.388	-0.000	18.411	0.000	6.532	0.000	0.000	20.101	18.388	-38.465	MWD+IFR1+MS
5300.000	19.336	225.069	5262.958	19.711	-0.000	18.778	0.000	6.670	0.000	0.000	20.406	18.755	-38.210	MWD+IFR1+MS
5400.000	19.336	225.069	5357.318	20.037	-0.000	19.150	0.000	6.812	0.000	0.000	20.715	19.126	-37.926	MWD+IFR1+MS
5500.000	19.336	225.069	5451.677	20.367	-0.000	19.526	0.000	6.958	0.000	0.000	21.028	19.500	-37.610	MWD+IFR1+MS
5600.000	19.336	225.069	5546.037	20.701	-0.000	19.905	0.000	7.107	0.000	0.000	21.344	19.878	-37.258	MWD+IFR1+MS
5700.000	19.336	225.069	5640.396	21.038	-0.000	20.287	0.000	7.260	0.000	0.000	21.663	20.259	-36.865	MWD+IFR1+MS
5800.000	19.336	225.069	5734.756	21.379	-0.000	20.673	0.000	7.416	0.000	0.000	21.985	20.643	-36.427	MWD+IFR1+MS
5900.000	19.336	225.069	5829.115	21.723	-0.000	21.062	0.000	7.575	0.000	0.000	22.311	21.030	-35.939	MWD+IFR1+MS
6000.000	19.336	225.069	5923.474	22.069	-0.000	21.454	0.000	7.737	0.000	0.000	22.639	21.420	-35.393	MWD+IFR1+MS
6100.000	19.336	225.069	6017.834	22.419	-0.000	21.848	0.000	7.903	0.000	0.000	22.971	21.812	-34.782	MWD+IFR1+MS
6200.000	19.336	225.069	6112.193	22.771	-0.000	22.246	0.000	8.071	0.000	0.000	23.305	22.206	-34.095	MWD+IFR1+MS

6300.000	19.336	225.069	6206.553	23.125	-0.000	22.645	0.000	8.243	0.000	0.000	23.642	22.602	-33.323	MWD+IFR1+MS
6400.000	19.336	225.069	6300.912	23.483	-0.000	23.047	0.000	8.417	0.000	0.000	23.982	23.000	-32.450	MWD+IFR1+MS
6500.000	19.336	225.069	6395.272	23.842	-0.000	23.451	0.000	8.594	0.000	0.000	24.325	23.400	-31.462	MWD+IFR1+MS
6600.000	19.336	225.069	6489.631	24.204	-0.000	23.857	0.000	8.774	0.000	0.000	24.671	23.801	-30.340	MWD+IFR1+MS
6700.000	19.336	225.069	6583.990	24.568	-0.000	24.266	0.000	8.957	0.000	0.000	25.019	24.204	-29.061	MWD+IFR1+MS
6800.000	19.336	225.069	6678.350	24.934	-0.000	24.676	0.000	9.143	0.000	0.000	25.371	24.607	-27.599	MWD+IFR1+MS
6900.000	19.336	225.069	6772.709	25.302	-0.000	25.088	0.000	9.331	0.000	0.000	25.725	25.011	-25.926	MWD+IFR1+MS
7000.000	19.336	225.069	6867.069	25.672	-0.000	25.501	0.000	9.521	0.000	0.000	26.083	25.415	-24.010	MWD+IFR1+MS
7100.000	19.336	225.069	6961.428	26.043	-0.000	25.916	0.000	9.714	0.000	0.000	26.445	25.819	-21.820	MWD+IFR1+MS
7195.412	19.336	225.069	7051.458	26.399	-0.000	26.313	0.000	9.901	0.000	0.000	26.792	26.204	-19.485	MWD+IFR1+MS
7200.000	19.244	225.069	7055.789	26.423	-0.000	26.332	0.000	9.910	0.000	0.000	26.808	26.222	-19.383	MWD+IFR1+MS
7300.000	17.244	225.069	7150.757	26.969	-0.000	26.741	0.000	10.113	0.000	0.000	27.191	26.621	-17.691	MWD+IFR1+MS
7400.000	15.244	225.069	7246.760	27.553	-0.000	27.149	0.000	10.330	0.000	0.000	27.640	27.017	-17.706	MWD+IFR1+MS
7500.000	13.244	225.069	7343.681	28.101	-0.000	27.549	0.000	10.538	0.000	0.000	28.087	27.408	-17.969	MWD+IFR1+MS
7600.000	11.244	225.069	7441.401	28.610	-0.000	27.941	0.000	10.739	0.000	0.000	28.531	27.792	-18.394	MWD+IFR1+MS
7700.000	9.244	225.069	7539.802	29.081	-0.000	28.324	0.000	10.933	0.000	0.000	28.970	28.168	-18.918	MWD+IFR1+MS
7800.000	7.244	225.069	7638.764	29.514	-0.000	28.699	0.000	11.121	0.000	0.000	29.405	28.536	-19.491	MWD+IFR1+MS
7900.000	5.244	225.069	7738.166	29.906	-0.000	29.064	0.000	11.304	0.000	0.000	29.833	28.896	-20.077	MWD+IFR1+MS
8000.000	3.244	225.069	7837.886	30.259	-0.000	29.420	0.000	11.484	0.000	0.000	30.254	29.248	-20.652	MWD+IFR1+MS
8100.000	1.244	225.069	7937.805	30.572	-0.000	29.768	0.000	11.661	0.000	0.000	30.668	29.590	-21.198	MWD+IFR1+MS
8162.200	0.000	0.000	8000.000	29.938	0.000	30.731	0.000	11.770	0.000	0.000	30.866	29.799	-21.014	MWD+IFR1+MS
8200.000	0.000	0.000	8037.800	30.064	0.000	30.849	0.000	11.836	0.000	0.000	30.984	29.925	-21.077	MWD+IFR1+MS
8300.000	0.000	0.000	8137.800	30.397	0.000	31.165	0.000	12.013	0.000	0.000	31.299	30.258	-21.227	MWD+IFR1+MS
8400.000	0.000	0.000	8237.800	30.732	0.000	31.484	0.000	12.193	0.000	0.000	31.620	30.592	-21.504	MWD+IFR1+MS
8500.000	0.000	0.000	8337.800	31.069	0.000	31.804	0.000	12.376	0.000	0.000	31.942	30.927	-21.782	MWD+IFR1+MS
8600.000	0.000	0.000	8437.800	31.406	0.000	32.125	0.000	12.562	0.000	0.000	32.265	31.262	-22.061	MWD+IFR1+MS
8700.000	0.000	0.000	8537.800	31.743	0.000	32.447	0.000	12.752	0.000	0.000	32.588	31.598	-22.341	MWD+IFR1+MS
8800.000	0.000	0.000	8637.800	32.081	0.000	32.770	0.000	12.945	0.000	0.000	32.913	31.934	-22.623	MWD+IFR1+MS
8900.000	0.000	0.000	8737.800	32.419	0.000	33.093	0.000	13.140	0.000	0.000	33.238	32.271	-22.905	MWD+IFR1+MS
9000.000	0.000	0.000	8837.800	32.758	0.000	33.417	0.000	13.339	0.000	0.000	33.563	32.608	-23.188	MWD+IFR1+MS
9100.000	0.000	0.000	8937.800	33.097	0.000	33.742	0.000	13.541	0.000	0.000	33.890	32.945	-23.472	MWD+IFR1+MS
9200.000	0.000	0.000	9037.800	33.436	0.000	34.067	0.000	13.746	0.000	0.000	34.217	33.283	-23.757	MWD+IFR1+MS
9300.000	0.000	0.000	9137.800	33.776	0.000	34.393	0.000	13.955	0.000	0.000	34.545	33.621	-24.043	MWD+IFR1+MS

9317.000	0.000	0.000	9154.800	33.833	0.000	34.448	0.000	13.990	0.000	0.000	34.599	33.678	-24.056	MWD+IFR1+MS
9400.000	6.640	179.663	9237.614	34.338	0.000	34.723	-0.000	14.173	0.000	0.000	34.899	34.071	-27.987	MWD+IFR1+MS
9500.000	14.640	179.663	9335.815	35.305	0.000	35.063	-0.000	14.485	0.000	0.000	35.791	34.849	117.982	MWD+IFR1+MS
9600.000	22.640	179.663	9430.493	35.894	0.000	35.413	-0.000	15.006	0.000	0.000	37.091	35.290	104.682	MWD+IFR1+MS
9700.000	30.640	179.663	9519.804	35.933	0.000	35.769	-0.000	15.789	0.000	0.000	38.289	35.666	100.863	MWD+IFR1+MS
9800.000	38.640	179.663	9602.011	35.469	0.000	36.125	-0.000	16.859	0.000	0.000	39.309	36.030	99.243	MWD+IFR1+MS
9900.000	46.640	179.663	9675.514	34.575	0.000	36.480	-0.000	18.199	0.000	0.000	40.135	36.388	98.434	MWD+IFR1+MS
10000.000	54.640	179.663	9738.882	33.344	0.000	36.830	-0.000	19.764	0.000	0.000	40.764	36.740	98.004	MWD+IFR1+MS
10100.000	62.640	179.663	9790.881	31.902	0.000	37.172	-0.000	21.493	0.000	0.000	41.206	37.085	97.767	MWD+IFR1+MS
10200.000	70.640	179.663	9830.499	30.406	0.000	37.503	-0.000	23.319	0.000	0.000	41.483	37.421	97.613	MWD+IFR1+MS
10300.000	78.640	179.663	9856.966	29.044	0.000	37.820	-0.000	25.177	0.000	0.000	41.625	37.745	97.446	MWD+IFR1+MS
10400.000	86.640	179.663	9869.766	28.027	0.000	38.117	-0.000	27.005	0.000	0.000	41.672	38.053	97.151	MWD+IFR1+MS
10442.000	90.000	179.663	9870.997	27.230	0.000	38.232	-0.000	27.230	0.000	0.000	41.675	38.174	96.938	MWD+IFR1+MS
10500.000	90.000	179.663	9870.997	27.377	0.000	38.392	-0.000	27.377	0.000	0.000	41.673	38.341	96.610	MWD+IFR1+MS
10600.000	90.000	179.663	9870.997	27.603	0.000	38.686	-0.000	27.603	0.000	0.000	41.672	38.648	96.005	MWD+IFR1+MS
10700.000	90.000	179.663	9870.997	27.850	0.000	39.000	-0.000	27.850	0.000	0.000	41.672	38.973	95.311	MWD+IFR1+MS
10800.000	90.000	179.663	9870.997	28.118	0.000	39.331	-0.000	28.118	0.000	0.000	41.674	39.314	94.474	MWD+IFR1+MS
10900.000	90.000	179.663	9870.997	28.405	0.000	39.679	-0.000	28.405	0.000	0.000	41.678	39.670	93.402	MWD+IFR1+MS
11000.000	90.000	179.663	9870.997	28.710	0.000	40.043	-0.000	28.710	0.000	0.000	41.685	40.040	91.919	MWD+IFR1+MS
11100.000	90.000	179.663	9870.997	29.034	0.000	40.423	-0.000	29.034	0.000	0.000	41.695	40.423	89.631	MWD+IFR1+MS
11200.000	90.000	179.663	9870.997	29.375	0.000	40.818	-0.000	29.375	0.000	0.000	41.713	40.813	85.476	MWD+IFR1+MS
11300.000	90.000	179.663	9870.997	29.732	0.000	41.229	-0.000	29.732	0.000	0.000	41.753	41.197	75.794	MWD+IFR1+MS
11400.000	90.000	179.663	9870.997	30.106	0.000	41.654	-0.000	30.106	0.000	0.000	41.892	41.497	50.660	MWD+IFR1+MS
11500.000	90.000	179.663	9870.997	30.496	0.000	42.093	-0.000	30.496	0.000	0.000	42.229	41.613	27.760	MWD+IFR1+MS
11600.000	90.000	179.663	9870.997	30.900	0.000	42.546	-0.000	30.900	0.000	0.000	42.658	41.652	19.245	MWD+IFR1+MS
11700.000	90.000	179.663	9870.997	31.319	0.000	43.012	-0.000	31.319	0.000	0.000	43.118	41.673	15.478	MWD+IFR1+MS
11800.000	90.000	179.663	9870.997	31.752	0.000	43.491	-0.000	31.752	0.000	0.000	43.596	41.688	13.379	MWD+IFR1+MS
11900.000	90.000	179.663	9870.997	32.198	0.000	43.983	-0.000	32.198	0.000	0.000	44.089	41.702	12.026	MWD+IFR1+MS
12000.000	90.000	179.663	9870.997	32.657	0.000	44.486	-0.000	32.657	0.000	0.000	44.595	41.716	11.068	MWD+IFR1+MS
12100.000	90.000	179.663	9870.997	33.128	0.000	45.001	-0.000	33.128	0.000	0.000	45.113	41.729	10.343	MWD+IFR1+MS
12200.000	90.000	179.663	9870.997	33.611	0.000	45.527	-0.000	33.611	0.000	0.000	45.642	41.743	9.768	MWD+IFR1+MS
12300.000	90.000	179.663	9870.997	34.105	0.000	46.064	-0.000	34.105	0.000	0.000	46.182	41.757	9.296	MWD+IFR1+MS
12400.000	90.000	179.663	9870.997	34.610	0.000	46.612	-0.000	34.610	0.000	0.000	46.733	41.772	8.897	MWD+IFR1+MS

12500.000	90.000	179.663	9870.997	35.125	0.000	47.169	-0.000	35.125	0.000	0.000	47.293	41.787	8.553	MWD+IFR1+MS
12600.000	90.000	179.663	9870.997	35.650	0.000	47.737	-0.000	35.650	0.000	0.000	47.864	41.803	8.250	MWD+IFR1+MS
12700.000	90.000	179.663	9870.997	36.185	0.000	48.314	-0.000	36.185	0.000	0.000	48.443	41.819	7.981	MWD+IFR1+MS
12800.000	90.000	179.663	9870.997	36.728	0.000	48.899	-0.000	36.728	0.000	0.000	49.031	41.836	7.738	MWD+IFR1+MS
12900.000	90.000	179.663	9870.997	37.280	0.000	49.494	-0.000	37.280	0.000	0.000	49.628	41.853	7.517	MWD+IFR1+MS
13000.000	90.000	179.663	9870.997	37.840	0.000	50.097	-0.000	37.840	0.000	0.000	50.233	41.872	7.314	MWD+IFR1+MS
13100.000	90.000	179.663	9870.997	38.408	0.000	50.708	-0.000	38.408	0.000	0.000	50.846	41.891	7.127	MWD+IFR1+MS
13200.000	90.000	179.663	9870.997	38.984	0.000	51.327	-0.000	38.984	0.000	0.000	51.467	41.910	6.952	MWD+IFR1+MS
13300.000	90.000	179.663	9870.997	39.567	0.000	51.953	-0.000	39.567	0.000	0.000	52.095	41.930	6.790	MWD+IFR1+MS
13400.000	90.000	179.663	9870.997	40.156	0.000	52.587	-0.000	40.156	0.000	0.000	52.730	41.951	6.637	MWD+IFR1+MS
13500.000	90.000	179.663	9870.997	40.752	0.000	53.228	-0.000	40.752	0.000	0.000	53.372	41.972	6.493	MWD+IFR1+MS
13600.000	90.000	179.663	9870.997	41.355	0.000	53.875	-0.000	41.355	0.000	0.000	54.021	41.994	6.357	MWD+IFR1+MS
13700.000	90.000	179.663	9870.997	41.964	0.000	54.529	-0.000	41.964	0.000	0.000	54.676	42.016	6.228	MWD+IFR1+MS
13800.000	90.000	179.663	9870.997	42.578	0.000	55.190	-0.000	42.578	0.000	0.000	55.337	42.040	6.106	MWD+IFR1+MS
13900.000	90.000	179.663	9870.997	43.198	0.000	55.856	-0.000	43.198	0.000	0.000	56.005	42.063	5.989	MWD+IFR1+MS
14000.000	90.000	179.663	9870.997	43.823	0.000	56.529	-0.000	43.823	0.000	0.000	56.678	42.088	5.877	MWD+IFR1+MS
14100.000	90.000	179.663	9870.997	44.453	0.000	57.207	-0.000	44.453	0.000	0.000	57.356	42.113	5.771	MWD+IFR1+MS
14200.000	90.000	179.663	9870.997	45.088	0.000	57.890	-0.000	45.088	0.000	0.000	58.041	42.138	5.669	MWD+IFR1+MS
14300.000	90.000	179.663	9870.997	45.728	0.000	58.579	-0.000	45.728	0.000	0.000	58.730	42.164	5.571	MWD+IFR1+MS
14400.000	90.000	179.663	9870.997	46.372	0.000	59.273	-0.000	46.372	0.000	0.000	59.424	42.191	5.476	MWD+IFR1+MS
14500.000	90.000	179.663	9870.997	47.020	0.000	59.971	-0.000	47.020	0.000	0.000	60.123	42.218	5.386	MWD+IFR1+MS
14600.000	90.000	179.663	9870.997	47.673	0.000	60.675	-0.000	47.673	0.000	0.000	60.827	42.246	5.298	MWD+IFR1+MS
14700.000	90.000	179.663	9870.997	48.329	0.000	61.383	-0.000	48.329	0.000	0.000	61.535	42.274	5.214	MWD+IFR1+MS
14800.000	90.000	179.663	9870.997	48.990	0.000	62.095	-0.000	48.990	0.000	0.000	62.247	42.303	5.132	MWD+IFR1+MS
14900.000	90.000	179.663	9870.997	49.653	0.000	62.812	-0.000	49.653	0.000	0.000	62.964	42.333	5.053	MWD+IFR1+MS
15000.000	90.000	179.663	9870.997	50.321	0.000	63.533	-0.000	50.321	0.000	0.000	63.685	42.363	4.977	MWD+IFR1+MS
15100.000	90.000	179.663	9870.997	50.991	0.000	64.257	-0.000	50.991	0.000	0.000	64.410	42.394	4.904	MWD+IFR1+MS
15200.000	90.000	179.663	9870.997	51.665	0.000	64.986	-0.000	51.665	0.000	0.000	65.138	42.425	4.832	MWD+IFR1+MS
15300.000	90.000	179.663	9870.997	52.342	0.000	65.718	-0.000	52.342	0.000	0.000	65.871	42.457	4.763	MWD+IFR1+MS
15400.000	90.000	179.663	9870.997	53.022	0.000	66.454	-0.000	53.022	0.000	0.000	66.607	42.489	4.695	MWD+IFR1+MS
15500.000	90.000	179.663	9870.997	53.705	0.000	67.194	-0.000	53.705	0.000	0.000	67.346	42.522	4.630	MWD+IFR1+MS
15600.000	90.000	179.663	9870.997	54.391	0.000	67.937	-0.000	54.391	0.000	0.000	68.088	42.555	4.567	MWD+IFR1+MS
15700.000	90.000	179.663	9870.997	55.079	0.000	68.683	-0.000	55.079	0.000	0.000	68.834	42.589	4.505	MWD+IFR1+MS

15800.000	90.000	179.663	9870.997	55.770	0.000	69.432	-0.000	55.770	0.000	0.000	69.583	42.624	4.445	MWD+IFR1+MS
15900.000	90.000	179.663	9870.997	56.463	0.000	70.184	-0.000	56.463	0.000	0.000	70.335	42.659	4.386	MWD+IFR1+MS
16000.000	90.000	179.663	9870.997	57.158	0.000	70.939	-0.000	57.158	0.000	0.000	71.090	42.695	4.329	MWD+IFR1+MS
16100.000	90.000	179.663	9870.997	57.856	0.000	71.698	-0.000	57.856	0.000	0.000	71.848	42.731	4.274	MWD+IFR1+MS
16200.000	90.000	179.663	9870.997	58.556	0.000	72.458	-0.000	58.556	0.000	0.000	72.608	42.767	4.220	MWD+IFR1+MS
16300.000	90.000	179.663	9870.997	59.259	0.000	73.222	-0.000	59.259	0.000	0.000	73.371	42.804	4.167	MWD+IFR1+MS
16400.000	90.000	179.663	9870.997	59.963	0.000	73.988	-0.000	59.963	0.000	0.000	74.137	42.842	4.116	MWD+IFR1+MS
16500.000	90.000	179.663	9870.997	60.669	0.000	74.757	-0.000	60.669	0.000	0.000	74.905	42.880	4.066	MWD+IFR1+MS
16600.000	90.000	179.663	9870.997	61.377	0.000	75.528	-0.000	61.377	0.000	0.000	75.676	42.919	4.017	MWD+IFR1+MS
16700.000	90.000	179.663	9870.997	62.087	0.000	76.301	-0.000	62.087	0.000	0.000	76.449	42.958	3.969	MWD+IFR1+MS
16800.000	90.000	179.663	9870.997	62.799	0.000	77.077	-0.000	62.799	0.000	0.000	77.224	42.998	3.922	MWD+IFR1+MS
16900.000	90.000	179.663	9870.997	63.512	0.000	77.855	-0.000	63.512	0.000	0.000	78.002	43.038	3.876	MWD+IFR1+MS
17000.000	90.000	179.663	9870.997	64.228	0.000	78.635	-0.000	64.228	0.000	0.000	78.781	43.079	3.832	MWD+IFR1+MS
17100.000	90.000	179.663	9870.997	64.944	0.000	79.418	-0.000	64.944	0.000	0.000	79.563	43.120	3.788	MWD+IFR1+MS
17200.000	90.000	179.663	9870.997	65.663	0.000	80.202	-0.000	65.663	0.000	0.000	80.347	43.162	3.745	MWD+IFR1+MS
17300.000	90.000	179.663	9870.997	66.382	0.000	80.988	-0.000	66.382	0.000	0.000	81.133	43.204	3.704	MWD+IFR1+MS
17400.000	90.000	179.663	9870.997	67.104	0.000	81.777	-0.000	67.104	0.000	0.000	81.920	43.247	3.663	MWD+IFR1+MS
17500.000	90.000	179.663	9870.997	67.826	0.000	82.567	-0.000	67.826	0.000	0.000	82.710	43.290	3.623	MWD+IFR1+MS
17600.000	90.000	179.663	9870.997	68.550	0.000	83.359	-0.000	68.550	0.000	0.000	83.501	43.334	3.583	MWD+IFR1+MS
17700.000	90.000	179.663	9870.997	69.276	0.000	84.152	-0.000	69.276	0.000	0.000	84.294	43.378	3.545	MWD+IFR1+MS
17800.000	90.000	179.663	9870.997	70.002	0.000	84.948	-0.000	70.002	0.000	0.000	85.089	43.423	3.507	MWD+IFR1+MS
17900.000	90.000	179.663	9870.997	70.730	0.000	85.745	-0.000	70.730	0.000	0.000	85.886	43.468	3.470	MWD+IFR1+MS
18000.000	90.000	179.663	9870.997	71.459	0.000	86.543	-0.000	71.459	0.000	0.000	86.684	43.514	3.434	MWD+IFR1+MS
18100.000	90.000	179.663	9870.997	72.190	0.000	87.344	-0.000	72.190	0.000	0.000	87.483	43.560	3.399	MWD+IFR1+MS
18200.000	90.000	179.663	9870.997	72.921	0.000	88.145	-0.000	72.921	0.000	0.000	88.285	43.607	3.364	MWD+IFR1+MS
18300.000	90.000	179.663	9870.997	73.654	0.000	88.949	-0.000	73.654	0.000	0.000	89.087	43.654	3.330	MWD+IFR1+MS
18400.000	90.000	179.663	9870.997	74.387	0.000	89.753	-0.000	74.387	0.000	0.000	89.891	43.702	3.296	MWD+IFR1+MS
18500.000	90.000	179.663	9870.997	75.122	0.000	90.560	-0.000	75.122	0.000	0.000	90.697	43.750	3.264	MWD+IFR1+MS
18600.000	90.000	179.663	9870.997	75.857	0.000	91.367	-0.000	75.857	0.000	0.000	91.504	43.799	3.231	MWD+IFR1+MS
18700.000	90.000	179.663	9870.997	76.594	0.000	92.176	-0.000	76.594	0.000	0.000	92.312	43.848	3.200	MWD+IFR1+MS
18800.000	90.000	179.663	9870.997	77.332	0.000	92.986	-0.000	77.332	0.000	0.000	93.122	43.897	3.169	MWD+IFR1+MS
18900.000	90.000	179.663	9870.997	78.070	0.000	93.798	-0.000	78.070	0.000	0.000	93.932	43.947	3.138	MWD+IFR1+MS
19000.000	90.000	179.663	9870.997	78.809	0.000	94.610	-0.000	78.809	0.000	0.000	94.745	43.997	3.108	MWD+IFR1+MS

19100.000	90.000	179.663	9870.997	79.550	0.000	95.424	-0.000	79.550	0.000	0.000	95.558	44.048	3.079	MWD+IFR1+MS
19200.000	90.000	179.663	9870.997	80.291	0.000	96.239	-0.000	80.291	0.000	0.000	96.372	44.100	3.050	MWD+IFR1+MS
19300.000	90.000	179.663	9870.997	81.032	0.000	97.055	-0.000	81.032	0.000	0.000	97.188	44.152	3.021	MWD+IFR1+MS
19400.000	90.000	179.663	9870.997	81.775	0.000	97.873	-0.000	81.775	0.000	0.000	98.005	44.204	2.993	MWD+IFR1+MS
19500.000	90.000	179.663	9870.997	82.519	0.000	98.691	-0.000	82.519	0.000	0.000	98.822	44.257	2.966	MWD+IFR1+MS
19600.000	90.000	179.663	9870.997	83.263	0.000	99.511	-0.000	83.263	0.000	0.000	99.641	44.310	2.939	MWD+IFR1+MS
19700.000	90.000	179.663	9870.997	84.008	0.000	100.331	-0.000	84.008	0.000	0.000	100.461	44.363	2.912	MWD+IFR1+MS
19800.000	90.000	179.663	9870.997	84.753	0.000	101.153	-0.000	84.753	0.000	0.000	101.282	44.418	2.886	MWD+IFR1+MS
19900.000	90.000	179.663	9870.997	85.500	0.000	101.975	-0.000	85.500	0.000	0.000	102.104	44.472	2.861	MWD+IFR1+MS
20000.000	90.000	179.663	9870.997	86.247	0.000	102.799	-0.000	86.247	0.000	0.000	102.927	44.527	2.835	MWD+IFR1+MS
20100.000	90.000	179.663	9870.997	86.995	0.000	103.623	-0.000	86.995	0.000	0.000	103.751	44.582	2.810	MWD+IFR1+MS
20200.000	90.000	179.663	9870.997	87.743	0.000	104.448	-0.000	87.743	0.000	0.000	104.575	44.638	2.786	MWD+IFR1+MS
20300.000	90.000	179.663	9870.997	88.492	0.000	105.275	-0.000	88.492	0.000	0.000	105.401	44.695	2.762	MWD+IFR1+MS
20400.000	90.000	179.663	9870.997	89.242	0.000	106.102	-0.000	89.242	0.000	0.000	106.227	44.751	2.738	MWD+IFR1+MS
20500.000	90.000	179.663	9870.997	89.992	0.000	106.930	-0.000	89.992	0.000	0.000	107.055	44.808	2.715	MWD+IFR1+MS
20600.000	90.000	179.663	9870.997	90.743	0.000	107.758	-0.000	90.743	0.000	0.000	107.883	44.866	2.692	MWD+IFR1+MS
20700.000	90.000	179.663	9870.997	91.494	0.000	108.588	-0.000	91.494	0.000	0.000	108.712	44.924	2.669	MWD+IFR1+MS
20800.000	90.000	179.663	9870.997	92.246	0.000	109.418	-0.000	92.246	0.000	0.000	109.542	44.982	2.647	MWD+IFR1+MS
20900.000	90.000	179.663	9870.997	92.998	0.000	110.250	-0.000	92.998	0.000	0.000	110.372	45.041	2.625	MWD+IFR1+MS
21000.000	90.000	179.663	9870.997	93.751	0.000	111.082	-0.000	93.751	0.000	0.000	111.204	45.101	2.603	MWD+IFR1+MS
21100.000	90.000	179.663	9870.997	94.505	0.000	111.914	-0.000	94.505	0.000	0.000	112.036	45.160	2.582	MWD+IFR1+MS
21200.000	90.000	179.663	9870.997	95.259	0.000	112.748	-0.000	95.259	0.000	0.000	112.869	45.221	2.561	MWD+IFR1+MS
21300.000	90.000	179.663	9870.997	96.014	0.000	113.582	-0.000	96.014	0.000	0.000	113.702	45.281	2.540	MWD+IFR1+MS
21400.000	90.000	179.663	9870.997	96.769	0.000	114.417	-0.000	96.769	0.000	0.000	114.537	45.342	2.520	MWD+IFR1+MS
21500.000	90.000	179.663	9870.997	97.524	0.000	115.252	-0.000	97.524	0.000	0.000	115.372	45.403	2.499	MWD+IFR1+MS
21600.000	90.000	179.663	9870.997	98.280	0.000	116.088	-0.000	98.280	0.000	0.000	116.207	45.465	2.480	MWD+IFR1+MS
21700.000	90.000	179.663	9870.997	99.036	0.000	116.925	-0.000	99.036	0.000	0.000	117.043	45.527	2.460	MWD+IFR1+MS
21800.000	90.000	179.663	9870.997	99.793	0.000	117.763	-0.000	99.793	0.000	0.000	117.880	45.590	2.441	MWD+IFR1+MS
21900.000	90.000	179.663	9870.997	100.550	0.000	118.601	-0.000	100.550	0.000	0.000	118.718	45.653	2.422	MWD+IFR1+MS
22000.000	90.000	179.663	9870.997	101.308	0.000	119.439	-0.000	101.308	0.000	0.000	119.556	45.717	2.403	MWD+IFR1+MS
22100.000	90.000	179.663	9870.997	102.066	0.000	120.279	-0.000	102.066	0.000	0.000	120.395	45.780	2.384	MWD+IFR1+MS
22200.000	90.000	179.663	9870.997	102.825	0.000	121.119	-0.000	102.825	0.000	0.000	121.234	45.845	2.366	MWD+IFR1+MS
22300.000	90.000	179.663	9870.997	103.583	0.000	121.959	-0.000	103.583	0.000	0.000	122.074	45.909	2.348	MWD+IFR1+MS

Well Plan Report

22400.000	90.000	179.663	9870.997	104.343	0.000	122.800	-0.000	104.343	0.000	0.000	122.915	45.974	2.330	MWD+IFR1+MS
22500.000	90.000	179.663	9870.997	105.102	0.000	123.642	-0.000	105.102	0.000	0.000	123.756	46.040	2.313	MWD+IFR1+MS
22600.000	90.000	179.663	9870.997	105.862	0.000	124.484	-0.000	105.862	0.000	0.000	124.597	46.105	2.296	MWD+IFR1+MS
22700.000	90.000	179.663	9870.997	106.623	0.000	125.326	-0.000	106.623	0.000	0.000	125.439	46.172	2.279	MWD+IFR1+MS
22716.982	90.000	179.663	9870.997	106.752	0.000	125.469	-0.000	106.752	0.000	0.000	125.582	46.183	2.276	MWD+IFR1+MS
22806.987	90.000	179.663	9870.997	107.435	0.000	126.227	-0.000	107.435	0.000	0.000	126.339	46.243	2.261	MWD+IFR1+MS

Poker Lake Unit 23 DTD South 543H

Plan Targets													
Target Name	Measured Depth (ft)	Grid Northing (ft)		Grid Easting (ft)		TVD MSL	Target Shape						
FTP 20	10197.66	440544.60		650484.30		6396.00	RECTANGLE						
SHL 19	11961.95	441291.92		651223.48		7748.80	RECTANGLE						
LTP 20	22717.08	427553.60		650560.80		6396.00	RECTANGLE						
BHL 20	22807.85	427463.60		650562.10		6396.00	RECTANGLE						

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO
LEASE NO.:	NMNM030452
LOCATION:	Sec. 14, T. 24S, R 30 E
COUNTY:	Eddy County, New Mexico ▼
WELL NAME & NO.:	Poker Lake Unit 23 DTD 543H
SURFACE HOLE FOOTAGE:	645'/S & 577'/E
BOTTOM HOLE FOOTAGE:	2627'/N & 1315'/E

COA

H₂S	<input checked="" type="radio"/> No <input type="radio"/> Yes			
Potash / WIPP	<input type="radio"/> None	<input checked="" type="radio"/> Secretary	<input type="radio"/> R-111-Q	<input type="checkbox"/> Open Annulus
	Choose an option (including blank option.)			<input type="checkbox"/> WIPP
Cave / Karst	<input checked="" type="radio"/> Low	<input type="radio"/> Medium	<input type="radio"/> High	<input type="radio"/> Critical
Wellhead	<input type="radio"/> Conventional	<input checked="" type="radio"/> Multibowl	<input type="radio"/> Both	<input type="radio"/> Diverter
Cementing	<input checked="" type="checkbox"/> Primary Squeeze	<input type="checkbox"/> Cont. Squeeze	<input checked="" type="checkbox"/> EchoMeter	<input type="checkbox"/> DV Tool
Special Req	<input type="checkbox"/> Capitan Reef	<input type="checkbox"/> Water Disposal	<input type="checkbox"/> COM	<input checked="" type="checkbox"/> Unit
Waste Prev.	<input type="radio"/> Self-Certification	<input type="radio"/> Waste Min. Plan	<input checked="" type="radio"/> APD Submitted prior to 06/10/2024	
Additional Language	<input checked="" type="checkbox"/> Flex Hose	<input checked="" type="checkbox"/> Casing Clearance	<input type="checkbox"/> Pilot Hole	<input checked="" type="checkbox"/> Break Testing
	<input type="checkbox"/> Four-String	<input checked="" type="checkbox"/> Offline Cementing	<input checked="" type="checkbox"/> Fluid-Filled	

A. HYDROGEN SULFIDE

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

B. CASING

1. The **13-3/8** 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 **9-5/8** inch 1st Intermediate casing is:

- Cement to surface. If cement does not circulate see B.1.a, c-d above.

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

3. The minimum required fill of cement behind the **7-5/8** inch 2nd 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 6649'**.

- **Second stage:** Operator will perform bradenhead squeeze and top-out. Cement should tie-back **500 feet** into the previous casing. Operator shall provide method of verification. If cement does not reach desired depth, the appropriate BLM office shall be notified.

Excess calculates to 21%. Additional cement maybe required.

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

Operator has proposed to pump down **Intermediate 1 X Intermediate 2** 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 Production 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.

4. The minimum required fill of cement behind the **5-1/2** inch production casing is:
 - Cement should tie-back **100 feet** into the previous casing. Operator shall provide method of verification. **Excess calculates to 15%. Additional cement maybe required.**

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).
2. Operator has proposed a multi-bowl wellhead assembly. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M) psi**.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one-inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172 must be followed.

D. SPECIAL REQUIREMENT (S)

Unit Wells

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

Commercial Well Determination

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

BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for intervals utilizing a 5M BOPE or less. **(Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP.)**
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.

- Any well control event while drilling require notification to the BLM Petroleum Engineer (575-706-2779) prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-361-2822 Eddy County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per 43 CFR 3172.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

Offline Cementing

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

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

Casing Clearance

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

GENERAL REQUIREMENTS

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

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

Contact Eddy County Petroleum Engineering Inspection Staff:

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

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - i. Notify the BLM when moving in and removing the Spudder Rig.
 - ii. Notify the BLM when moving in the 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 11/18/2024
575-234-5998 / zstevens@blm.gov



HYDROGEN SULFIDE (H₂S) CONTINGENCY PLAN

Assumed 100 ppm ROE = 3000'

100 ppm H₂S concentration shall trigger activation of this plan.

Emergency Procedures

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

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

Ignition of Gas source

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

Characteristics of H₂S and SO₂

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

Contacting Authorities

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

CARLSBAD OFFICE – EDDY & LEA COUNTIES

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

575-887-7329

XTO PERSONNEL:

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

SHERIFF DEPARTMENTS:

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

NEW MEXICO STATE POLICE:

575-392-5588

FIRE DEPARTMENTS:

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

HOSPITALS:

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

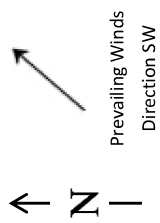
AGENT NOTIFICATIONS:**For Lea County:**

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

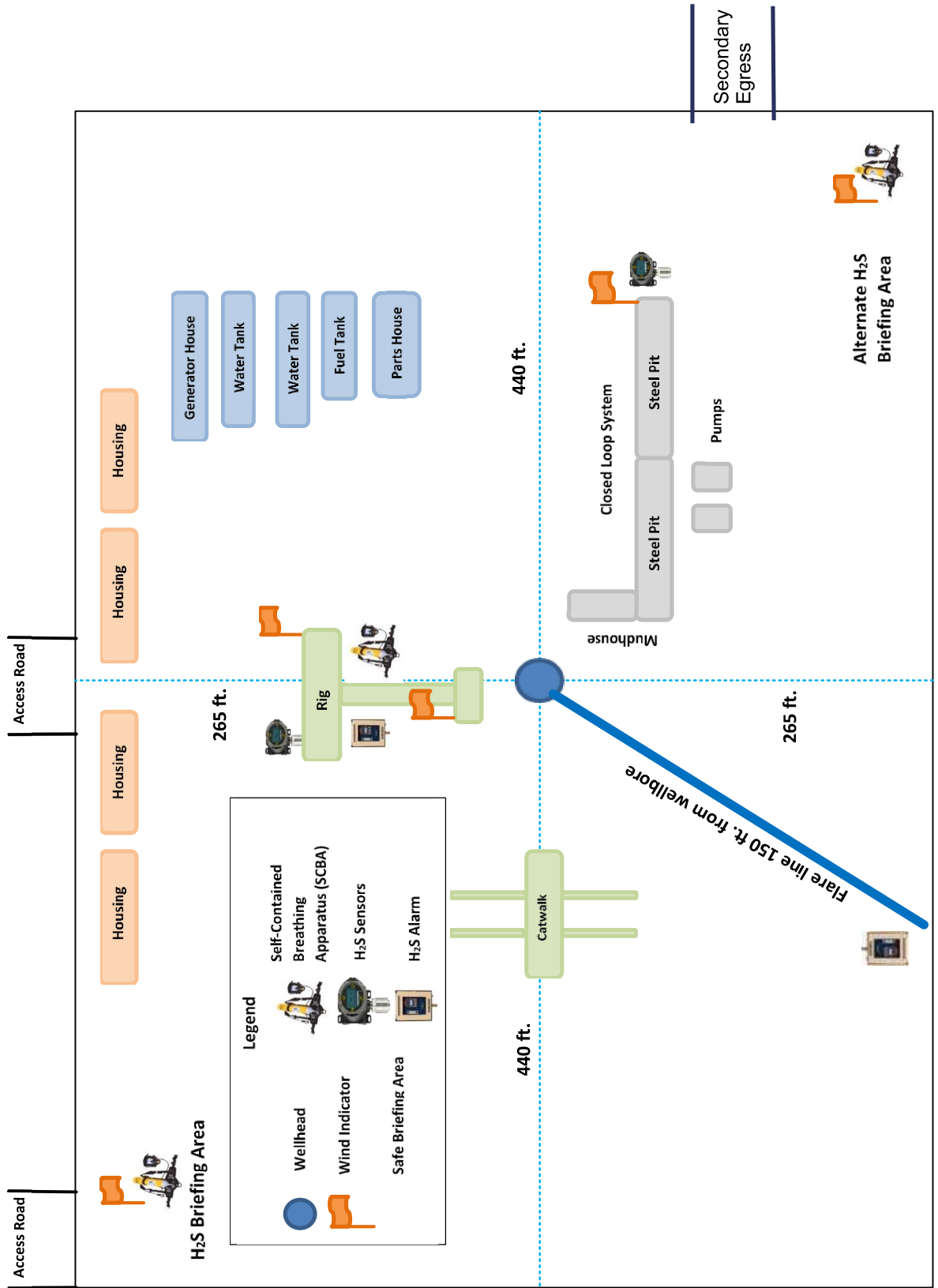
For Eddy County:

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

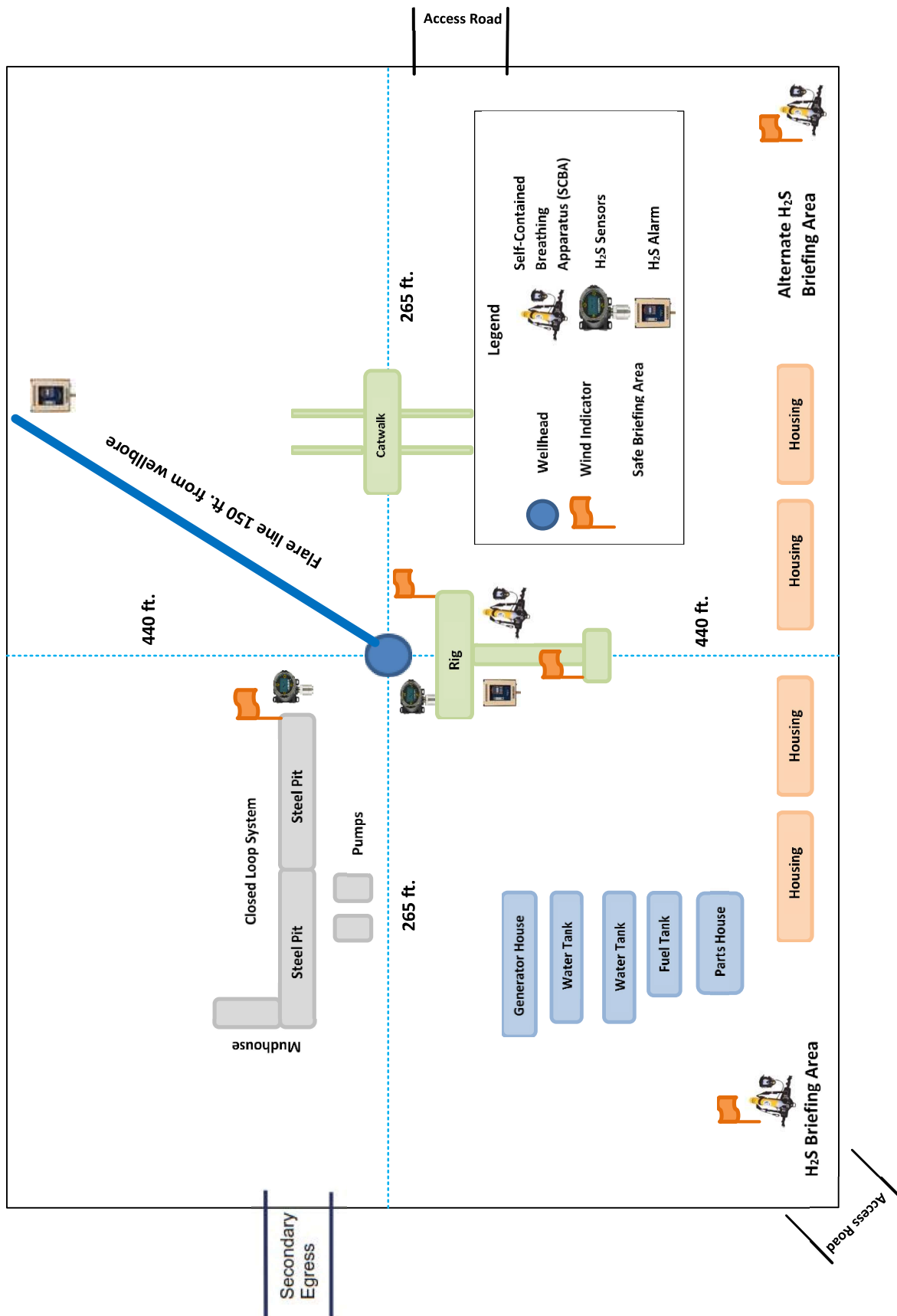
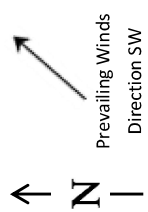
H2S Briefing Areas and Alarm Locations



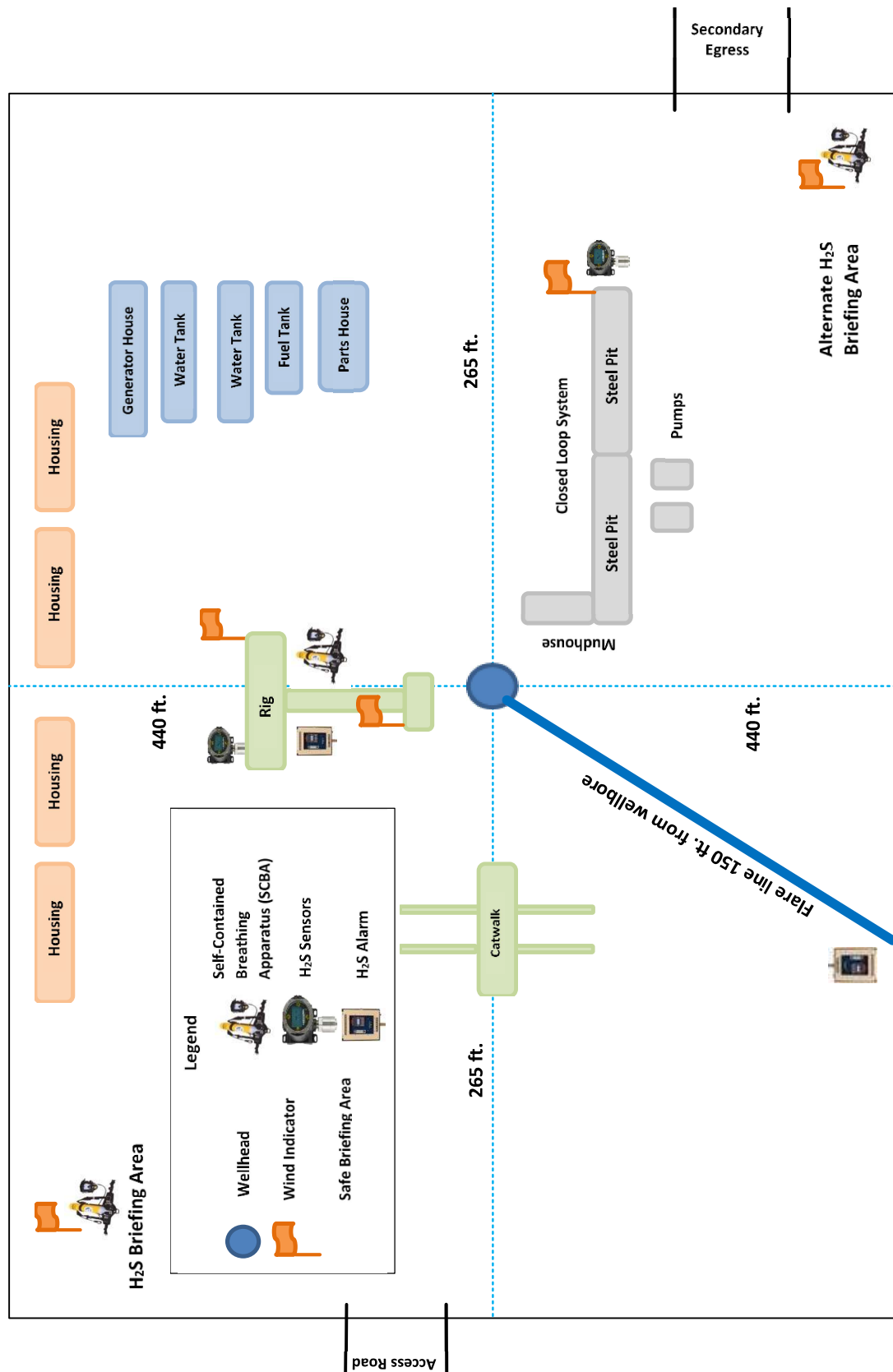
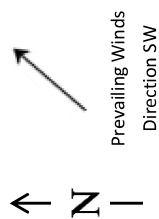
Prevailing Winds
Direction SW



H2S Briefing Areas and Alarm Locations



H2S Briefing Areas and Alarm Locations



Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** POKER LAKE UNIT 23 DTD**Well Number:** 543H**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**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:**

Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** POKER LAKE UNIT 23 DTD**Well Number:** 543H

Section 9 - Well Site

Well Site Layout Diagram:

PLU_23_DTD_543H_Well_20240414094730.pdf

PLU_23_DTD_543H_RL_20241011133810.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:** D**Recontouring**

PLU_23_DTD_IR1_20240411181254.pdf

PLU_23_DTD_IR2_20240411181254.pdf

PLU_23_DTD_IR3_20240411181254.pdf

PLU_23_DTD_IR4_20240411181254.pdf

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

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

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

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 23 DTD

Well Number: 543H

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

Existing Vegetation Community at other disturbances

Non native seed used? N

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? N

Seedling transplant description

Will seed be harvested for use in site reclamation? N

Seed harvest description:

Seed harvest description attachment:

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

General Information
Phone: (505) 629-6116

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

State of New Mexico

Energy, Minerals and Natural Resources

Oil Conservation Division

1220 S. St Francis Dr.

Santa Fe, NM 87505

CONDITIONS

Action 409053

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 409053
	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