

Well Name: POKER LAKE UNIT 26 BD	Well Location: T25S / R30E / SEC 26 / SWNE / 32.10217 / -103.849242	County or Parish/State: EDDY / NM
Well Number: 126H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMLC063875	Unit or CA Name:	Unit or CA Number: NMNM71016AU
US Well Number: 3001547979	Operator: XTO PERMIAN OPERATING LLC	

Notice of Intent

Sundry ID: 2873723

Type of Submission: Notice of Intent	Type of Action: APD Change
Date Sundry Submitted: 09/16/2025	Time Sundry Submitted: 09:00
Date proposed operation will begin: 09/16/2025	

Procedure Description: Effective Date: 5/1/22 XTO Permian Operating LLC respectfully requests to make the following changes for well record clean up: Dedicated acres: f/240 t/480 FTP: f/ 2567' FNL & 2200' FEL t/ 2191' FSL & 2191' FEL, Sec 26-25S-30E; Lease NMLC0063875 BLM previously approved sundry Id #2662532. Attachments: Updated C-102 on new required form. No new surface disturbance.

NOI Attachments

Procedure Description

POKER_LAKE_UNIT_26_BD_126H_C102_FINAL_9_10_2025_signed_20250916085958.pdf

Received by OCD: 9/25/2025 10:53:05 AMPage 2 of 44

Well Name: POKER LAKE UNIT 26 BD	Well Location: T25S / R30E / SEC 26 / SWNE / 32.10217 / -103.849242	County or Parish/State: EDDY / NM
Well Number: 126H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMLC063875	Unit or CA Name:	Unit or CA Number: NMNM71016AU
US Well Number: 3001547979	Operator: XTO PERMIAN OPERATING LLC	

Operator

I certify that the foregoing is true and correct. 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. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: LACEY GRANILLO	Signed on: SEP 16, 2025 09:00 AM
Name: XTO PERMIAN OPERATING LLC	
Title: Regulatory Analyst	
Street Address: 6401 HOLIDAY HILL ROAD	
City: MIDLAND	State: TX
Phone: (432) 894-0057	
Email address: LACEY.GRANILLO@EXXONMOBIL.COM	

Field

Representative Name:		
Street Address:		
City:	State:	Zip:
Phone:		
Email address:		

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS	BLM POC Title: Petroleum Engineer
BLM POC Phone: 5752342234	BLM POC Email Address: CWALLS@BLM.GOV
Disposition: Accepted	Disposition Date: 09/24/2025
Signature: Chris Walls	

Form 3160-5
(October 2024)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

FORM APPROVED
OMB No. 1004-0220
Expires: October 31, 2027

5. Lease Serial No.
NMLC063875

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator
XTO PERMIAN OPERATING LLC

3a. Address 6401 HOLIDAY HILL ROAD BLDG 5, MIDLAND, 3b. Phone No. (include area code)
(432) 683-2277

4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)
SEC 26/T25S/R30E/NMP

7. If Unit of CA/Agreement, Name and/or No.
NMNM71016AU

8. Well Name and No.
POKER LAKE UNIT 26 BD/126H

9. API Well No. 3001547979

10. Field and Pool or Exploratory Area
PURPLE SAGE/Wolfcamp Gas

11. Country or Parish, State
EDDY/NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION				
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off	
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity	
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other	
	☒ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon		
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal		

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be perfonned or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

Effective Date: 5/1/22

XTO Permian Operating LLC respectfully requests to make the following changes for well record clean up:

Dedicated acres: f/240 t/480

FTP: f/ 2567 FNL & 2200 FEL t/ 2191 FSL & 2191 FEL, Sec 26-25S-30E; Lease NMLC0063875

BLM previously approved sundry Id #2662532.

Attachments: Updated C-102 on new required form. No new surface disturbance.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)
LACEY GRANILLO / Ph: (432) 894-0057

Signature (Electronic Submission)

Title
Regulatory Analyst

Date
09/16/2025

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by
CHRISTOPHER WALLS / Ph: (575) 234-2234 / Accepted

Title
Petroleum Engineer

Date
09/24/2025

Conditions of approval, if any, are attached. Approval of this notice 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.

Office
CARLSBAD

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

(Instructions on page 2)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law 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, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. 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 the 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., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

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

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

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 Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Additional Information

Location of Well

0. SHL: SWNE / 2310 FNL / 1845 FEL / TWSP: 25S / RANGE: 30E / SECTION: 26 / LAT: 32.10217 / LONG: -103.849242 (TVD: 0 feet, MD: 0 feet)

PPP: NWNE / 330 FNL / 1870 FEL / TWSP: 25S / RANGE: 30E / SECTION: 35 / LAT: 32.09211 / LONG: -103.849387 (TVD: 11450 feet, MD: 14423 feet)

PPP: NWSE / 2310 FSL / 1870 FEL / TWSP: 25S / RANGE: 30E / SECTION: 26 / LAT: 32.100221 / LONG: -103.849339 (TVD: 11450 feet, MD: 11783 feet)

BHL: SWSE / 200 FSL / 1870 FEL / TWSP: 25S / RANGE: 30E / SECTION: 35 / LAT: 32.079778 / LONG: -103.849387 (TVD: 11450 feet, MD: 19220 feet)

C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024	
		Submittal Type:	☐ Initial Submittal
			☒ Amended Report
		☐ As Drilled	

WELL LOCATION INFORMATION

API Number 30-015-47979	Pool Code 97814	Pool Name WILDCAT G-015 S2630010; BONE SPRING
Property Code 329859	Property Name POKER LAKE UNIT 26 BD	Well Number 126H
ORGID No. 373075	Operator Name XTO PERMIAN OPERATING, LLC.	Ground Level Elevation 3,338'
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal		Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL G	Section 26	Township 25 S	Range 30 E	Lot	Ft. from N/S 2,310' FNL	Ft. from E/W 1,845' FEL	Latitude 32.102170	Longitude -103.849242	County EDDY
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Bottom Hole Location

UL O	Section 35	Township 25 S	Range 30 E	Lot	Ft. from N/S 201' FSL	Ft. from E/W 2,204' FEL	Latitude 32.079778	Longitude -103.850465	County EDDY
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Dedicated Acres 480	Infill or Defining Well INFILL	Defining Well API 30-015-47989	Overlapping Spacing Unit (Y/N) N	Consolidation Code U
Order Numbers.			Well setbacks are under Common Ownership: ☒ Yes ☐ No	

Kick Off Point (KOP)

UL G	Section 26	Township 25 S	Range 30 E	Lot	Ft. from N/S 2,567' FNL	Ft. from E/W 2,200' FEL	Latitude 32.101464	Longitude -103.850395	County EDDY
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First Take Point (FTP)

UL J	Section 26	Township 25 S	Range 30 E	Lot	Ft. from N/S 2,191' FSL	Ft. from E/W 2,191' FEL	Latitude 32.099892	Longitude -103.850378	County EDDY
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Last Take Point (LTP)

UL O	Section 35	Township 25 S	Range 30 E	Lot	Ft. from N/S 330' FSL	Ft. from E/W 2,204' FEL	Latitude 32.080133	Longitude -103.850465	County EDDY
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Unitized Area or Area of Uniform Interest NMNM 071016X	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation: 3,338'
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OPERATOR CERTIFICATIONS		SURVEYOR CERTIFICATIONS	
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling form the division. Lacey Granillo 9/15/25		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. I, TIM C. PAPPAS, NEW MEXICO PROFESSIONAL SURVEYOR NO. 21209, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO, AND THAT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. 10 Sept 2025 TIM C. PAPPAS REGISTERED PROFESSIONAL LAND SURVEYOR STATE OF NEW MEXICO NO. 21209	
Signature Lacey Granillo		Signature and Seal of Professional Surveyor	
Printed Name lacey.granillo@exxonmobil.com		Certificate Number TIM C. PAPPAS 21209	Date of Survey ORIGINALLY SIGNED 1/24/2022 AMENDED 09/10/2025
Email Address			

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



2205 Walnut Street - Columbus, TX 78934
Ph: 979.732.3114 - Fax: 979.732.5271
TBPE Firm 17957 | TBPLS Firm 10000100
www.fscinc.net

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DATE:	09/10/2025	PROJECT NO:	2018010075
DRAWN BY:	WL	SCALE:	
CHECKED BY:	LM	SHEET:	1 OF 2
FIELD CREW:	IR	REVISION:	0

ACREAGE DEDICATION PLATS

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

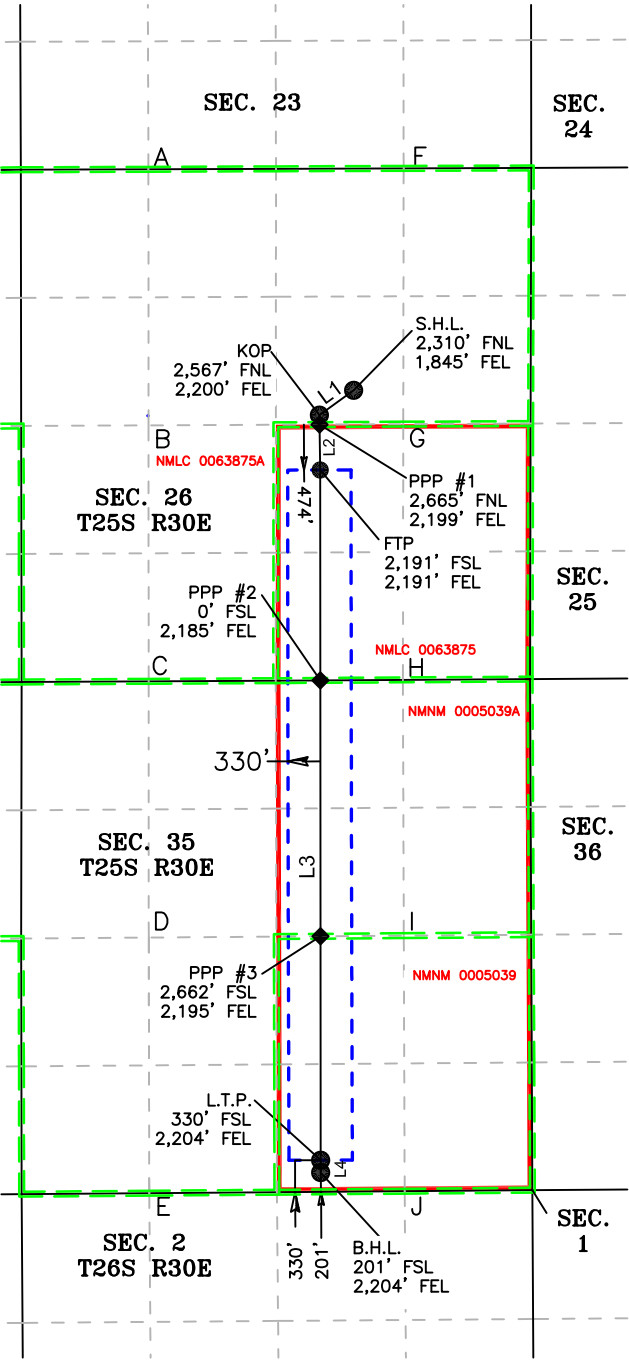
Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.

LEGEND

SECTION LINE

PROPOSED WELLBORE

LINE TABLE		
LINE	AZIMUTH	LENGTH
L1	234°01'48"	439.63
L2	179°12'41"	571.80
L3	179°57'27"	7188.3
L4	179°47'40"	129.05



COORDINATE TABLE					
SHL (NAD 83 NME)			LTP (NAD 83 NME)		
Y =	401,242.4	N	Y =	393,224.1	N
X =	691,234.1	E	X =	690,891.5	E
LAT. =	32.102170	°N	LAT. =	32.080133	°N
LONG. =	103.849242	°W	LONG. =	103.850465	°W
KOP (NAD 83 NME)			BHL (NAD 83 NME)		
Y =	400,984.2	N	Y =	393,095.1	N
X =	690,878.3	E	X =	690,891.9	E
LAT. =	32.101464	°N	LAT. =	32.079778	°N
LONG. =	103.850395	°W	LONG. =	103.850465	°W
FTP (NAD 83 NME)					
Y =	400,412.4	N			
X =	690,866.1	E			
LAT. =	32.099892	°N			
LONG. =	103.850378	°W			
SHL (NAD 27 NME)			LTP (NAD 27 NME)		
Y =	401,184.4	N	Y =	393,166.3	N
X =	650,048.7	E	X =	649,705.8	E
LAT. =	32.102045	°N	LAT. =	32.080008	°N
LONG. =	103.848762	°W	LONG. =	103.849985	°W
KOP (NAD 27 NME)			BHL (NAD 27 NME)		
Y =	400,926.2	N	Y =	393,037.3	N
X =	649,692.9	E	X =	649,706.3	E
LAT. =	32.101340	°N	LAT. =	32.079653	°N
LONG. =	103.849915	°W	LONG. =	103.849986	°W
FTP (NAD 27 NME)					
Y =	400,354.4	N			
X =	649,680.7	E			
LAT. =	32.099768	°N			
LONG. =	103.849962	°W			
PPP #1 (NAD 83 NME)			PPP #1 (NAD 27 NME)		
Y =	400,885.9	N	Y =	400,827.9	N
X =	690,879.6	E	X =	649,694.2	E
LAT. =	32.101194	°N	LAT. =	32.101070	°N
LONG. =	103.850392	°W	LONG. =	103.849912	°W
PPP #2 (NAD 83 NME)			PPP #2 (NAD 27 NME)		
Y =	398,221.4	N	Y =	398,163.5	N
X =	690,887.8	E	X =	649,702.3	E
LAT. =	32.093869	°N	LAT. =	32.093745	°N
LONG. =	103.850404	°W	LONG. =	103.849924	°W
PPP #3 (NAD 83 NME)			PPP #3 (NAD 27 NME)		
Y =	395,555.9	N	Y =	395,498.1	N
X =	690,889.7	E	X =	649,704.1	E
LAT. =	32.086543	°N	LAT. =	32.086418	°N
LONG. =	103.850437	°W	LONG. =	103.849957	°W

CORNER COORDINATES (NAD83 NME)					
A - Y =	403,549.5	N	A - X =	690,425.9	E
B - Y =	400,883.8	N	B - X =	690,424.7	E
C - Y =	398,218.5	N	C - X =	690,423.4	E
D - Y =	395,552.5	N	D - X =	690,429.4	E
E - Y =	392,890.6	N	E - X =	690,435.4	E
F - Y =	403,554.0	N	F - X =	691,755.5	E
G - Y =	400,890.0	N	G - X =	691,751.4	E
H - Y =	398,226.7	N	H - X =	691,748.0	E
I - Y =	395,562.5	N	I - X =	691,756.9	E
J - Y =	392,900.9	N	J - X =	691,766.1	E
CORNER COORDINATES (NAD27 NME)					
A - Y =	403,491.4	N	A - X =	649,240.7	E
B - Y =	400,825.8	N	B - X =	649,239.3	E
C - Y =	398,160.6	N	C - X =	649,238.0	E
D - Y =	395,494.7	N	D - X =	649,243.9	E
E - Y =	392,832.8	N	E - X =	649,249.8	E
F - Y =	403,495.9	N	F - X =	650,570.2	E
G - Y =	400,832.1	N	G - X =	650,566.0	E
H - Y =	398,168.8	N	H - X =	650,562.5	E
I - Y =	395,504.6	N	I - X =	650,571.4	E
J - Y =	392,843.1	N	J - X =	650,580.4	E



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DATE: 09/10/2025

PROJECT NO: 2089010075

DRAWN BY: WL

SCALE: 1" = 2,000'

CHECKED BY: LM

SHEET: 2 OF 2

FIELD CREW: IR

REVISION: 0

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

Well Name: POKER LAKE UNIT 26 BD	Well Location: T25S / R30E / SEC 26 / SWNE / 32.10217 / -103.849242	County or Parish/State: EDDY / NM
Well Number: 126H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMLC0063875	Unit or CA Name: DONOTUSE, POKER LAKE UNIT	Unit or CA Number: NMNM071016Z, NMNM71016X
US Well Number: 3001547979	Operator: XTO PERMIAN OPERATING LLC	

Notice of Intent

Sundry ID: 2662532

Type of Submission: Notice of Intent

Type of Action: Other

Date Sundry Submitted: 03/17/2022

Time Sundry Submitted: 05:46

Date proposed operation will begin: 03/31/2022

Procedure Description: **Pool Change, Spacing, Casing/Cement, Drilling Variance Changes XTO Permian Operating, LLC requests permission to make the following changes to the original APD: Change Pool from: Purple Sage; Wolfcamp (Gas) to Wildcat; Bone Spring No Additional Surface Disturbance Change BHL fr/200'FSL & 1870'FEL to 201'FSL & 2204'FEL, Section 35-T25S-R30E Casing/Cement design per the attached drilling program. Attachments: C102 Drilling Program Directional Plan Multibowl Diagram

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

PLU_26_BD_126H_Sundry_Attachments_20220318062919.pdf

Well Name: POKER LAKE UNIT 26 BD**Well Location:** T25S / R30E / SEC 26 / SWNE / 32.10217 / -103.849242**County or Parish/State:** EDDY / NM**Well Number:** 126H**Type of Well:** CONVENTIONAL GAS WELL**Allottee or Tribe Name:****Lease Number:** NMLC0063875**Unit or CA Name:** DONOTUSE, POKER LAKE UNIT**Unit or CA Number:** NMNM071016Z, NMNM71016X**US Well Number:** 3001547979**Operator:** XTO PERMIAN OPERATING LLC

Conditions of Approval

Specialist Review

Conditions_of_Approval_20220318094440.pdf

Operator

I certify that the foregoing is true and correct. 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. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: STEPHANIE RABADUE**Signed on:** MAR 18, 2022 06:29 AM**Name:** XTO PERMIAN OPERATING LLC**Title:** Regulatory Coordinator**Street Address:** 500 W. Illinois St, Ste 100**City:** Midland**State:** TX**Phone:** (432) 620-6714**Email address:** STEPHANIE.RABADUE@EXXONMOBIL.COM

Field

Representative Name:**Street Address:****City:****State:****Zip:****Phone:****Email address:**

BLM Point of Contact

BLM POC Name: JENNIFER SANCHEZ**BLM POC Title:** Petroleum Engineer**BLM POC Phone:** 5756270237**BLM POC Email Address:** j1sanchez@blm.gov**Disposition:** Approved**Disposition Date:** 03/18/2022

Form 3160-5
(June 2019)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.5. Lease Serial No. **NMLC063875**

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

7. If Unit of CA/Agreement, Name and/or No.

DONOTUSE, POKER LAKE UNIT/NMNM071016Z, NMNM71016X

8. Well Name and No.

POKER LAKE UNIT 26 BD/126H

2. Name of Operator **XTO PERMIAN OPERATING LLC**9. API Well No. **3001547979**3a. Address **6401 HOLIDAY HILL ROAD BLDG 5, MIDLAND,**3b. Phone No. (include area code)
(432) 683-227710. Field and Pool or Exploratory Area
Purple Sage/BONE SPRING4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
SEC 26/T25S/R30E/NMP11. Country or Parish, State
EDDY/NM**12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION				
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off	
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity	
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other	
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon		
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal		

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

****Pool Change, Spacing, Casing/Cement, Drilling Variance Changes**

XTO Permian Operating, LLC requests permission to make the following changes to the original APD:

Change Pool from: Purple Sage; Wolfcamp (Gas) to Wildcat; Bone Spring

No Additional Surface Disturbance

Change BHL fr/200FSL & 1870FEL to 201FSL & 2204FEL, Section 35-T25S-R30E

Casing/Cement design per the attached drilling program.

Attachments:

Continued on page 3 additional information

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)
STEPHANIE RABADUE / Ph: (432) 620-6714Title **Regulatory Coordinator**

Signature (Electronic Submission)

Date **03/18/2022****THE SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

JENNIFER SANCHEZ / Ph: (575) 627-0237 / ApprovedTitle **Petroleum Engineer**Date **03/18/2022**

Conditions of approval, if any, are attached. Approval of this notice 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.

Office **CARLSBAD**

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

(Instructions on page 2)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law 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, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. 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 the 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., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

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

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

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 Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Additional Information

Additional Remarks

C102

Drilling Program

Directional Plan

Multibowl Diagram

Location of Well

0. SHL: SWNE / 2310 FNL / 1845 FEL / TWSP: 25S / RANGE: 30E / SECTION: 26 / LAT: 32.10217 / LONG: -103.849242 (TVD: 0 feet, MD: 0 feet)

PPP: NWNE / 330 FNL / 1870 FEL / TWSP: 25S / RANGE: 30E / SECTION: 35 / LAT: 32.09211 / LONG: -103.849387 (TVD: 11450 feet, MD: 14423 feet)

PPP: NWSE / 2310 FSL / 1870 FEL / TWSP: 25S / RANGE: 30E / SECTION: 26 / LAT: 32.100221 / LONG: -103.849339 (TVD: 11450 feet, MD: 11783 feet)

BHL: SWSE / 200 FSL / 1870 FEL / TWSP: 25S / RANGE: 30E / SECTION: 35 / LAT: 32.079778 / LONG: -103.849387 (TVD: 11450 feet, MD: 19220 feet)

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

PRE-COMPLETION

¹ API Number 30 - 0 15 - 4 7979	² Pool Code 978 14	³ Pool Name Wildcat; Bone Spring
⁴ Property Code	⁵ Property Name POKER LAKE UNIT 26 BD	⁶ Well Number 126H
⁷ OGRID No. 373075	⁸ Operator Name XTO PERMIAN OPERATING, LLC.	⁹ Elevation 3,338'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	26	25 S	30 E		2,310	NORTH	1,845	EAST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	35	25 S	30 E		201	SOUTH	2,204	EAST	EDDY

¹² Dedicated Acres 2 40	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division. NOTE: DATA FURNISHED BY XTO ENERGY

¹⁶	<table border="0" style="width: 100%;"> <tr> <td style="width: 50%;"> SHL (NAD83 NME) Y = 401,242.4 X = 691,234.1 LAT. = 32.102170 °N LONG. = 103.849242 °W FTP (NAD83 NME) Y = 400,984.2 X = 690,878.3 LAT. = 32.101464 °N LONG. = 103.850395 °W CORNER COORDINATES (NAD83 NME) <table border="0" style="width: 100%;"> <tr><td>A - Y = 403,549.5 N</td><td>X = 690,425.9 E</td></tr> <tr><td>B - Y = 400,883.8 N</td><td>X = 690,424.7 E</td></tr> <tr><td>C - Y = 398,218.5 N</td><td>X = 690,423.4 E</td></tr> <tr><td>D - Y = 395,552.5 N</td><td>X = 690,429.4 E</td></tr> <tr><td>E - Y = 392,890.6 N</td><td>X = 690,435.4 E</td></tr> <tr><td>F - Y = 403,554.0 N</td><td>X = 691,755.5 E</td></tr> <tr><td>G - Y = 400,890.0 N</td><td>X = 691,751.4 E</td></tr> <tr><td>H - Y = 398,226.7 N</td><td>X = 691,748.0 E</td></tr> <tr><td>I - Y = 395,562.5 N</td><td>X = 691,756.9 E</td></tr> <tr><td>J - Y = 392,900.9 N</td><td>X = 691,766.1 E</td></tr> </table> SHL (NAD27 NME) Y = 401,184.4 X = 650,048.7 LAT. = 32.102045 °N LONG. = 103.848762 °W FTP (NAD27 NME) Y = 400,926.2 X = 649,692.9 LAT. = 32.101340 °N LONG. = 103.849915 °W CORNER COORDINATES (NAD27 NME) <table border="0" style="width: 100%;"> <tr><td>A - 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**DRILLING PLAN: BLM COMPLIANCE
(Supplement to BLM 3160-3)**

XTO Energy Inc.
PLU 26 Brushy Draw 126H
Projected TD: 17573' MD / 9900' TVD
SHL: 2310' FNL & 1845' FEL , Section 26, T25S, R30E
BHL: 200' FSL & 2200' FEL , Section 35, T25S, R30E
Eddy County, NM

1. Geologic Name of Surface Formation

A. Quaternary

2. Estimated Tops of Geological Markers & Depths of Anticipated Fresh Water, Oil or Gas

Formation	Well Depth (TVD)	Water/Oil/Gas
Rustler	991'	Water
Top of Salt	1141'	Water
Base of Salt	3899'	Water
Delaware	3991'	Water
Brushy Canyon	6480'	Water/Oil/Gas
Bone Spring	7820'	Water
1st Bone Spring Ss	8790'	Water/Oil/Gas
2nd Bone Spring Ss	9600'	Water/Oil/Gas
Target/Land Curve	9900'	Water/Oil/Gas

*** Hydrocarbons @ Brushy Canyon

*** Groundwater depth 40' (per NM State Engineers Office).

No other formations are expected to yield oil, gas or fresh water in measurable volumes. The surface fresh water sands will be protected by setting 11.75 inch casing @ 1091' (50' above the salt) and circulating cement back to surface. The intermediate will isolate from the top of salt down to the next casing seat by setting 7.625 inch casing at 9180' and cemented to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 17573 MD/TD and 5.5 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 8880 feet).

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
14.75	0' – 1091'	11.75	54	J-55	BTC	New	1.37	4.19	14.43
8.75	0' – 4000'	7.625	29.7	RY P-110	Flush Joint	New	3.19	2.65	2.05
8.75	4000' – 9180'	7.625	29.7	HC L-80	Flush Joint	New	2.32	2.18	2.64
6.75	0' – 9080'	5.5	20	RY P-110	Semi-Premium	New	1.05	2.35	2.50
6.75	9080' - 17573'	5.5	20	RY P-110	Semi-Flush	New	1.05	2.16	2.50

- XTO requests the option to utilize a spudder rig (Atlas Copco RD20 or Equivalent) to set and cement surface casing per this Sundry
- XTO requests to not utilize centralizers in the curve and lateral
- 7.625 Collapse analyzed using 50% evacuation based on regional experience.
- 5.5 Tension calculated using vertical hanging weight plus the lateral weight multiplied by a friction factor of 0.35
- Test on Casing will be limited to 70% burst of the casing or 1500 psi, whichever is less
- XTO requests the option to use 5" BTC Float equipment for the the production casing

Wellhead:

Permanent Wellhead – Multibowl System

A. Starting Head: 13-5/8" 10M top flange x 11-3/4" SOW bottom

B. Tubing Head: 13-5/8" 10M bottom flange x 7-1/16" 15M top flange

- Wellhead will be installed by manufacturer's representatives.
- Manufacturer will monitor welding process to ensure appropriate temperature of seal.
- Operator will test the 7-5/8" casing per BLM Onshore Order 2

- Wellhead Manufacturer representative will not be present for BOP test plug installation

4. Cement Program

Surface Casing: 11.75, 54 New BTC, J-55 casing to be set at +/- 1091'

Lead: 360 sxs EconoCem-HLTRRC (mixed at 12.9 ppg, 1.87 ft3/sx, 10.13 gal/sx water)

Tail: 190 sxs Class C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)

Top of Cement: Surface

Compressives: 12-hr = 900 psi 24 hr = 1500 psi

2nd Intermediate Casing: 7.625, 29.7 New casing to be set at +/- 9180'

1st Stage

Optional Lead: 350 sxs Class C (mixed at 10.5 ppg, 2.77 ft3/sx, 15.59 gal/sx water)

TOC: Surface

Tail: 250 sxs Class C (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)

TOC: Brushy Canyon @ 6480

Compressives: 12-hr = 900 psi 24 hr = 1150 psi

2nd Stage

Lead: 0 sxs Class C (mixed at 12.9 ppg, 2.16 ft3/sx, 9.61 gal/sx water)

Tail: 730 sxs Class C (mixed at 14.8 ppg, 1.33 ft3/sx, 6.39 gal/sx water)

Top of Cement: 0

Compressives: 12-hr = 900 psi 24 hr = 1150 psi

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 (6480') and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If cement is not visually confirmed to circulate to surface, the final cement top after the second stage job will be verified by Echo-meter. If necessary, a top out consisting of 1,500 sack of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. If cement is still unable to circulate to surface, another Echo-meter run will be performed for cement top verification.

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

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

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

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

Production Casing: 5.5, 20 New Semi-Flush, RY P-110 casing to be set at +/- 17573'

Lead: 10 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft3/sx, 15.00 gal/sx water) Top of Cement: 8880 feet

Tail: 590 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft3/sx, 8.38 gal/sx water) Top of Cement: 9357 feet

Compressives: 12-hr = 800 psi 24 hr = 1500 psi

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.

5. Pressure Control Equipment

Once the permanent WH is installed on the 11.75 casing, the blow out preventer equipment (BOP) will consist of a 13-5/8" minimum 5M Hydril and a 13-5/8" minimum 5M Double Ram BOP. MASP should not exceed 2970 psi. In any instance where 10M BOP is required by BLM, XTO requests a variance to utilize 5M annular with 10M ram preventers (a common BOP configuration, which allows use of 10M rams in unlikely event that pressures exceed 5M).

All BOP testing will be done by an independent service company. Annular pressure tests will be limited to 50% of the working pressure. When nipping up on the 11.75, 3M bradenhead and flange, the BOP test will be limited to 3000 psi. When nipping up on the 7.625, the BOP will be tested to a minimum of 3000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 3M BOP diagrams are attached. Blind rams will be functioned tested each trip, pipe rams will be functioned tested each day.

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

XTO requests a variance to be able to batch drill this well if necessary. In doing so, XTO will set casing and ensure that the well is cemented properly (unless approval is given for offline cementing) and the well is static. With floats holding, no pressure on the csg annulus, and the installation of a 10K TA cap as per Cactus recommendations, XTO will contact the BLM to skid the rig to drill the remaining wells on the pad. Once surface and both intermediate strings are all completed, XTO will begin drilling the production hole on each of the wells.

A variance is requested to **ONLY** test broken pressure seals on the BOP equipment when moving from wellhead to wellhead which is in compliance with API Standard 53, API standard 53 states, that for pad drilling operation, moving from one wellhead to another within 21 days, pressure testing is required for pressure-containing and pressure-controlling connections when the integrity of a pressure seal is broken. Based on discussions with the BLM on February 27th 2020, we will request permission to **ONLY** retest broken pressure seals if the following conditions are met: 1. After a full BOP test is conducted on the first well on the pad 2. When skidding to drill an intermediate section that does not penetrate into the Wolfcamp.

6. Proposed Mud Circulation System

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)
0' - 1091'	14.75	FW/Native	8.7-9.2	35-40	NC
1091' - 9180'	8.75	FW / Cut Brine / Direct Emulsion	9.7-10.2	30-32	NC
9180' - 17573'	6.75	OBM	10-10.5	50-60	NC - 20

The necessary mud products for weight addition and fluid loss control will be on location at all times.

Spud with fresh water/native mud. Drill out from under 11-3/4" surface casing with brine solution. A 9.7 ppg - 10.2 ppg cut brine 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.

7. Auxiliary Well Control and Monitoring Equipment

- A. A Kelly cock will be in the drill string at all times.
- B. A full opening drill pipe stabbing valve having appropriate connections will be on the rig floor at all times.
- C. H2S monitors will be on location when drilling below the 11.75 casing.

8. Logging, Coring and Testing Program

Mud Logger: Mud Logging Unit (2 man) below intermediate casing.

Open hole logging will not be done on this well.

9. Abnormal Pressures and Temperatures / Potential Hazards

None Anticipated. BHT of 165 to 185 F is anticipated. No H2S is expected but monitors will be in place to detect any H2S occurrences. Should these circumstances be encountered the operator and drilling contractor are prepared to take all necessary steps to ensure safety of all personnel and environment. Lost circulation could occur but is not expected to be a serious problem in this area and hole seepage will be compensated for by additions of small amounts of LCM in the drilling fluid. The maximum anticipated bottom hole pressure for this well is 5148 psi.

10. Anticipated Starting Date and Duration of Operations

Anticipated spud date will be after BLM approval. Move in operations and drilling is expected to take 40 days.

Well Plan Report - PLU 26 Brushy Draw 126H

Measured Depth:	17572.00 ft	Site:	PLU 26 BD Pad C
TVD RKB:	9900.00 ft	Slot:	PLU 26 Brushy Draw 126H
Location			
Cartographic Reference System:	New Mexico East - NAD 27		
Northing:	401179.42 ft		
Easting:	650061.00 ft		
RKB:	3350.00 ft		
Ground Level:	3320.00 ft		
North Reference:	Grid		
Convergence Angle:	0.26 Deg		

Plan Sections									
PLU 26 Brushy Draw 126H									
Measured		TVD		Build		Turn		Dogleg	
Depth	Inclination	Azimuth	RKB	Y Offset	X Offset	Rate	Rate	Rate	Target
(ft)	(Deg)	(Deg)	(ft)	(ft)	(ft)	(Deg/100ft)	(Deg/100ft)	(Deg/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2500.00	0.00	0.00	2500.00	0.00	0.00	0.00	0.00	0.00	
2904.20	8.08	234.03	2902.86	-16.72	-23.04	2.00	0.00	2.00	
5625.52	8.08	234.03	5597.14	-241.50	-332.76	0.00	0.00	0.00	
6029.72	0.00	0.00	6000.00	-258.22	-355.80	-2.00	0.00	2.00	
9356.72	0.00	0.00	9327.00	-258.22	-355.80	0.00	0.00	0.00	
10256.72	90.00	180.00	9899.96	-831.17	-355.80	10.00	0.00	10.00	PLU 26 BD FTP 3
17572.66	90.00	179.79	9900.00	-8147.10	-342.39	0.00	-0.00	0.00	PLU 26 BD LTP 3

Position Uncertainty															
PLU 26 Brushy Draw 126H															
Measured			TVD Highside		Lateral		Vertical		Magnitude		Semi-major	Semi-minor	Semi-minor	Tool	
Depth	Inclination	Azimuth	RKB	Error	Bias	Error	Bias	Error	Bias	of Bias	Error	Error	Azimuth	Used	
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)		
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.297	0.000	0.000	0.000	0.000	0.000	MWD+IFR1+MS	
100.000	0.000	0.000	100.000	0.468	0.000	0.468	0.000	2.299	0.000	0.000	0.556	0.358	135.000	MWD+IFR1+MS	
200.000	0.000	0.000	200.000	0.983	0.000	0.983	0.000	2.307	0.000	0.000	1.191	0.717	135.000	MWD+IFR1+MS	
300.000	0.000	0.000	300.000	1.403	0.000	1.403	0.000	2.321	0.000	0.000	1.668	1.075	135.000	MWD+IFR1+MS	
400.000	0.000	0.000	400.000	1.797	0.000	1.797	0.000	2.340	0.000	0.000	2.099	1.434	135.000	MWD+IFR1+MS	
500.000	0.000	0.000	500.000	2.179	0.000	2.179	0.000	2.364	0.000	0.000	2.507	1.792	135.000	MWD+IFR1+MS	
600.000	0.000	0.000	600.000	2.554	0.000	2.554	0.000	2.393	0.000	0.000	2.902	2.151	135.000	MWD+IFR1+MS	
700.000	0.000	0.000	700.000	2.925	0.000	2.925	0.000	2.428	0.000	0.000	3.288	2.509	135.000	MWD+IFR1+MS	
800.000	0.000	0.000	800.000	3.292	0.000	3.292	0.000	2.467	0.000	0.000	3.669	2.867	135.000	MWD+IFR1+MS	
900.000	0.000	0.000	900.000	3.659	0.000	3.659	0.000	2.511	0.000	0.000	4.046	3.226	135.000	MWD+IFR1+MS	
1000.000	0.000	0.000	1000.000	4.024	0.000	4.024	0.000	2.559	0.000	0.000	4.420	3.584	135.000	MWD+IFR1+MS	
1100.000	0.000	0.000	1100.000	4.387	0.000	4.387	0.000	2.613	0.000	0.000	4.791	3.943	135.000	MWD+IFR1+MS	
1200.000	0.000	0.000	1200.000	4.751	0.000	4.751	0.000	2.670	0.000	0.000	5.161	4.302	135.000	MWD+IFR1+MS	
1300.000	0.000	0.000	1300.000	5.113	0.000	5.113	0.000	2.731	0.000	0.000	5.529	4.660	135.000	MWD+IFR1+MS	
1400.000	0.000	0.000	1400.000	5.474	0.000	5.474	0.000	2.797	0.000	0.000	5.896	5.018	135.000	MWD+IFR1+MS	
1500.000	0.000	0.000	1500.000	5.836	0.000	5.836	0.000	2.866	0.000	0.000	6.262	5.377	135.000	MWD+IFR1+MS	
1600.000	0.000	0.000	1600.000	6.197	0.000	6.197	0.000	2.939	0.000	0.000	6.627	5.735	135.000	MWD+IFR1+MS	

1700.000	0.000	0.000	1700.000	6.558	0.000	6.558	0.000	3.015	0.000	0.000	6.992	6.094	135.000	MWD+IFR1+MS
1800.000	0.000	0.000	1800.000	6.918	0.000	6.918	0.000	3.095	0.000	0.000	7.355	6.452	135.000	MWD+IFR1+MS
1900.000	0.000	0.000	1900.000	7.279	0.000	7.279	0.000	3.178	0.000	0.000	7.719	6.811	135.000	MWD+IFR1+MS
2000.000	0.000	0.000	2000.000	7.639	0.000	7.639	0.000	3.265	0.000	0.000	8.081	7.169	135.000	MWD+IFR1+MS
2100.000	0.000	0.000	2100.000	7.999	0.000	7.999	0.000	3.354	0.000	0.000	8.444	7.527	135.000	MWD+IFR1+MS
2200.000	0.000	0.000	2200.000	8.359	0.000	8.359	0.000	3.447	0.000	0.000	8.806	7.886	135.000	MWD+IFR1+MS
2300.000	0.000	0.000	2300.000	8.718	0.000	8.718	0.000	3.544	0.000	0.000	9.168	8.244	135.000	MWD+IFR1+MS
2400.000	0.000	0.000	2400.000	9.079	0.000	9.079	0.000	3.643	0.000	0.000	9.530	8.603	135.000	MWD+IFR1+MS
2500.000	0.000	0.000	2500.000	9.437	0.000	9.437	0.000	3.744	0.000	0.000	9.891	8.961	135.000	MWD+IFR1+MS
2600.000	1.999	234.000	2599.980	10.205	-0.000	9.336	0.000	3.848	0.000	0.000	10.227	9.317	-43.936	MWD+IFR1+MS
2700.000	4.000	234.000	2699.838	10.746	-0.000	9.684	0.000	3.956	0.000	0.000	10.769	9.681	-38.638	MWD+IFR1+MS
2800.000	6.000	234.000	2799.452	11.259	-0.000	10.029	0.000	4.068	0.000	0.000	11.306	10.029	-35.131	MWD+IFR1+MS
2904.200	8.084	234.000	2902.864	11.786	-0.000	10.394	0.000	4.192	0.000	0.000	11.874	10.388	-32.577	MWD+IFR1+MS
3000.000	8.084	234.000	2997.708	12.155	-0.000	10.730	0.000	4.305	0.000	0.000	12.243	10.719	-31.395	MWD+IFR1+MS
3100.000	8.084	234.000	3096.715	12.462	-0.000	11.077	0.000	4.424	0.000	0.000	12.550	11.064	-30.790	MWD+IFR1+MS
3200.000	8.084	234.000	3195.721	12.774	-0.000	11.430	0.000	4.545	0.000	0.000	12.861	11.414	-30.251	MWD+IFR1+MS
3300.000	8.084	234.000	3294.727	13.090	-0.000	11.781	0.000	4.671	0.000	0.000	13.177	11.763	-29.652	MWD+IFR1+MS
3400.000	8.084	234.000	3393.733	13.410	-0.000	12.135	0.000	4.800	0.000	0.000	13.496	12.114	-29.057	MWD+IFR1+MS
3500.000	8.084	234.000	3492.740	13.730	-0.000	12.487	0.000	4.931	0.000	0.000	13.816	12.463	-28.468	MWD+IFR1+MS
3600.000	8.084	234.000	3591.746	14.053	-0.000	12.841	0.000	5.065	0.000	0.000	14.139	12.813	-27.893	MWD+IFR1+MS
3700.000	8.084	234.000	3690.752	14.380	-0.000	13.197	0.000	5.202	0.000	0.000	14.466	13.166	-27.315	MWD+IFR1+MS
3800.000	8.084	234.000	3789.758	14.707	-0.000	13.553	0.000	5.341	0.000	0.000	14.793	13.519	-26.816	MWD+IFR1+MS
3900.000	8.084	234.000	3888.765	15.037	-0.000	13.908	0.000	5.484	0.000	0.000	15.123	13.871	-26.259	MWD+IFR1+MS
4000.000	8.084	234.000	3987.771	15.370	-0.000	14.265	0.000	5.628	0.000	0.000	15.456	14.224	-25.719	MWD+IFR1+MS
4100.000	8.084	234.000	4086.777	15.703	-0.000	14.622	0.000	5.777	0.000	0.000	15.789	14.578	-25.237	MWD+IFR1+MS
4200.000	8.084	234.000	4185.784	16.039	-0.000	14.979	0.000	5.927	0.000	0.000	16.126	14.931	-24.652	MWD+IFR1+MS
4300.000	8.084	234.000	4284.790	16.378	-0.000	15.339	0.000	6.080	0.000	0.000	16.464	15.288	-24.193	MWD+IFR1+MS
4400.000	8.084	234.000	4383.796	16.715	-0.000	15.697	0.000	6.236	0.000	0.000	16.802	15.643	-23.740	MWD+IFR1+MS
4500.000	8.084	234.000	4482.802	17.054	-0.000	16.054	0.000	6.395	0.000	0.000	17.141	15.997	-23.248	MWD+IFR1+MS
4600.000	8.084	234.000	4581.809	17.395	-0.000	16.413	0.000	6.555	0.000	0.000	17.482	16.352	-22.765	MWD+IFR1+MS
4700.000	8.084	234.000	4680.815	17.738	-0.000	16.772	0.000	6.719	0.000	0.000	17.826	16.708	-22.290	MWD+IFR1+MS
4800.000	8.084	234.000	4779.821	18.083	-0.000	17.133	0.000	6.885	0.000	0.000	18.171	17.065	-21.824	MWD+IFR1+MS
4900.000	8.084	234.000	4878.828	18.429	-0.000	17.494	0.000	7.054	0.000	0.000	18.516	17.423	-21.427	MWD+IFR1+MS
5000.000	8.084	234.000	4977.834	18.774	-0.000	17.854	0.000	7.226	0.000	0.000	18.862	17.780	-20.978	MWD+IFR1+MS
5100.000	8.084	234.000	5076.840	19.121	-0.000	18.215	0.000	7.400	0.000	0.000	19.208	18.137	-20.594	MWD+IFR1+MS
5200.000	8.084	234.000	5175.846	19.468	-0.000	18.574	0.000	7.577	0.000	0.000	19.555	18.493	-20.182	MWD+IFR1+MS
5300.000	8.084	234.000	5274.853	19.816	-0.000	18.935	0.000	7.756	0.000	0.000	19.904	18.850	-19.768	MWD+IFR1+MS
5400.000	8.084	234.000	5373.859	20.166	-0.000	19.296	0.000	7.938	0.000	0.000	20.254	19.208	-19.373	MWD+IFR1+MS
5500.000	8.084	234.000	5472.865	20.518	-0.000	19.658	0.000	8.123	0.000	0.000	20.606	19.567	-18.987	MWD+IFR1+MS
5600.000	8.084	234.000	5571.871	20.868	-0.000	20.019	0.000	8.310	0.000	0.000	20.957	19.925	-18.620	MWD+IFR1+MS
5625.500	8.084	234.000	5597.136	20.956	-0.000	20.110	0.000	8.357	0.000	0.000	21.043	20.017	-18.661	MWD+IFR1+MS
5700.000	6.594	234.000	5671.006	21.249	-0.000	20.374	0.000	8.500	0.000	0.000	21.307	20.281	-18.701	MWD+IFR1+MS
5800.000	4.594	234.000	5770.524	21.699	-0.000	20.731	0.000	8.694	0.000	0.000	21.743	20.633	-18.978	MWD+IFR1+MS
5900.000	2.594	234.000	5870.322	22.151	-0.000	21.088	0.000	8.888	0.000	0.000	22.207	20.984	-19.271	MWD+IFR1+MS
6000.000	0.594	234.000	5970.279	22.574	-0.000	21.444	0.000	9.080	0.000	0.000	22.665	21.333	-19.467	MWD+IFR1+MS
6029.700	0.000	0.000	6000.000	21.587	0.000	22.621	0.000	9.138	0.000	0.000	22.764	21.436	-19.444	MWD+IFR1+MS
6100.000	0.000	0.000	6070.278	21.829	0.000	22.850	0.000	9.274	0.000	0.000	22.993	21.678	-19.520	MWD+IFR1+MS
6200.000	0.000	0.000	6170.278	22.177	0.000	23.180	0.000	9.470	0.000	0.000	23.324	22.025	-19.725	MWD+IFR1+MS
6300.000	0.000	0.000	6270.278	22.523	0.000	23.514	0.000	9.669	0.000	0.000	23.660	22.370	-19.932	MWD+IFR1+MS
6400.000	0.000	0.000	6370.278	22.874	0.000	23.847	0.000	9.870	0.000	0.000	23.996	22.717	-20.206	MWD+IFR1+MS
6500.000	0.000	0.000	6470.278	23.223	0.000	24.183	0.000	10.070	0.000	0.000	24.334	23.064	-20.445	MWD+IFR1+MS
6600.000	0.000	0.000	6570.278	23.571	0.000	24.519	0.000	10.276	0.000	0.000	24.673	23.410	-20.650	MWD+IFR1+MS
6700.000	0.000	0.000	6670.278	23.921	0.000	24.856	0.000	10.488	0.000	0.000	25.011	23.758	-20.882	MWD+IFR1+MS

6800.000	0.000	0.000	6770.278	24.271	0.000	25.193	0.000	10.700	0.000	0.000	25.351	24.106	-21.111	MWD+IFR1+MS
6900.000	0.000	0.000	6870.278	24.621	0.000	25.530	0.000	10.918	0.000	0.000	25.691	24.454	-21.337	MWD+IFR1+MS
7000.000	0.000	0.000	6970.278	24.972	0.000	25.869	0.000	11.136	0.000	0.000	26.031	24.803	-21.559	MWD+IFR1+MS
7100.000	0.000	0.000	7070.278	25.322	0.000	26.207	0.000	11.358	0.000	0.000	26.371	25.150	-21.772	MWD+IFR1+MS
7200.000	0.000	0.000	7170.278	25.673	0.000	26.546	0.000	11.580	0.000	0.000	26.713	25.499	-21.988	MWD+IFR1+MS
7300.000	0.000	0.000	7270.278	26.023	0.000	26.887	0.000	11.807	0.000	0.000	27.055	25.848	-22.170	MWD+IFR1+MS
7400.000	0.000	0.000	7370.278	26.374	0.000	27.227	0.000	12.037	0.000	0.000	27.398	26.197	-22.380	MWD+IFR1+MS
7500.000	0.000	0.000	7470.278	26.726	0.000	27.568	0.000	12.272	0.000	0.000	27.741	26.547	-22.587	MWD+IFR1+MS
7600.000	0.000	0.000	7570.278	27.078	0.000	27.909	0.000	12.506	0.000	0.000	28.084	26.896	-22.792	MWD+IFR1+MS
7700.000	0.000	0.000	7670.278	27.430	0.000	28.251	0.000	12.748	0.000	0.000	28.428	27.246	-22.993	MWD+IFR1+MS
7800.000	0.000	0.000	7770.278	27.781	0.000	28.592	0.000	12.988	0.000	0.000	28.771	27.596	-23.191	MWD+IFR1+MS
7900.000	0.000	0.000	7870.278	28.134	0.000	28.934	0.000	13.233	0.000	0.000	29.115	27.946	-23.381	MWD+IFR1+MS
8000.000	0.000	0.000	7970.278	28.485	0.000	29.278	0.000	13.480	0.000	0.000	29.461	28.296	-23.542	MWD+IFR1+MS
8100.000	0.000	0.000	8070.278	28.837	0.000	29.621	0.000	13.730	0.000	0.000	29.806	28.647	-23.732	MWD+IFR1+MS
8200.000	0.000	0.000	8170.278	29.191	0.000	29.965	0.000	13.982	0.000	0.000	30.152	28.998	-23.920	MWD+IFR1+MS
8300.000	0.000	0.000	8270.278	29.543	0.000	30.308	0.000	14.241	0.000	0.000	30.497	29.349	-24.104	MWD+IFR1+MS
8400.000	0.000	0.000	8370.278	29.896	0.000	30.653	0.000	14.498	0.000	0.000	30.843	29.700	-24.286	MWD+IFR1+MS
8500.000	0.000	0.000	8470.278	30.249	0.000	30.997	0.000	14.761	0.000	0.000	31.189	30.051	-24.466	MWD+IFR1+MS
8600.000	0.000	0.000	8570.278	30.602	0.000	31.342	0.000	15.027	0.000	0.000	31.536	30.402	-24.643	MWD+IFR1+MS
8700.000	0.000	0.000	8670.278	30.955	0.000	31.686	0.000	15.294	0.000	0.000	31.882	30.753	-24.812	MWD+IFR1+MS
8800.000	0.000	0.000	8770.278	31.308	0.000	32.031	0.000	15.566	0.000	0.000	32.229	31.105	-24.984	MWD+IFR1+MS
8900.000	0.000	0.000	8870.278	31.654	0.000	32.373	0.000	15.840	0.000	0.000	32.572	31.450	-25.092	MWD+IFR1+MS
9000.000	0.000	0.000	8970.278	32.016	0.000	32.711	0.000	16.115	0.000	0.000	32.914	31.806	-25.568	MWD+IFR1+MS
9100.000	0.000	0.000	9070.278	32.357	0.000	33.061	0.000	16.395	0.000	0.000	33.263	32.149	-25.424	MWD+IFR1+MS
9200.000	0.000	0.000	9170.278	32.711	0.000	33.407	0.000	16.676	0.000	0.000	33.611	32.501	-25.587	MWD+IFR1+MS
9300.000	0.000	0.000	9270.278	33.076	0.000	33.764	0.000	16.965	0.000	0.000	33.970	32.864	-25.748	MWD+IFR1+MS
9356.700	0.000	0.000	9327.000	33.272	0.000	33.956	0.000	17.126	0.000	0.000	34.161	33.061	-25.772	MWD+IFR1+MS
9400.000	4.327	180.000	9370.237	33.417	0.000	34.103	-0.000	17.251	0.000	0.000	34.310	33.224	-26.068	MWD+IFR1+MS
9500.000	14.320	180.000	9468.789	34.198	0.000	34.424	-0.000	17.612	0.000	0.000	35.077	34.083	125.669	MWD+IFR1+MS
9600.000	24.320	180.000	9563.034	35.169	0.000	34.756	-0.000	18.287	0.000	0.000	36.868	34.608	104.600	MWD+IFR1+MS
9700.000	34.320	180.000	9650.106	35.401	0.000	35.071	-0.000	19.380	0.000	0.000	38.463	34.951	100.397	MWD+IFR1+MS
9800.000	44.320	180.000	9727.361	35.023	0.000	35.355	-0.000	20.921	0.000	0.000	39.712	35.241	98.929	MWD+IFR1+MS
9900.000	54.320	180.000	9792.452	34.189	0.000	35.623	-0.000	22.856	0.000	0.000	40.611	35.507	98.379	MWD+IFR1+MS
10000.000	64.310	180.000	9843.400	33.111	0.000	35.861	-0.000	25.074	0.000	0.000	41.166	35.740	98.269	MWD+IFR1+MS
10100.000	74.310	180.000	9878.657	32.051	0.000	36.056	-0.000	27.441	0.000	0.000	41.449	35.930	98.348	MWD+IFR1+MS
10200.000	84.310	180.000	9897.152	31.311	0.000	36.208	-0.000	29.823	0.000	0.000	41.547	36.081	98.457	MWD+IFR1+MS
10256.000	90.000	180.000	9899.958	30.325	0.000	36.277	-0.000	30.325	0.000	0.000	41.558	36.151	98.461	MWD+IFR1+MS
10300.000	90.000	180.000	9899.958	30.407	0.000	36.318	-0.000	30.407	0.000	0.000	41.557	36.194	98.447	MWD+IFR1+MS
10400.000	90.000	180.000	9899.958	30.532	0.000	36.442	-0.000	30.532	0.000	0.000	41.567	36.321	98.436	MWD+IFR1+MS
10500.000	89.980	179.900	9899.958	30.685	0.000	36.581	-0.000	30.681	0.000	0.000	41.577	36.461	98.444	MWD+IFR1+MS
10600.000	89.980	179.900	9899.958	30.851	0.000	36.731	-0.000	30.846	0.000	0.000	41.587	36.614	98.477	MWD+IFR1+MS
10700.000	89.980	179.900	9899.958	31.037	0.000	36.881	-0.000	31.032	0.000	0.000	41.597	36.766	98.509	MWD+IFR1+MS
10800.000	89.980	179.900	9899.958	31.241	0.000	37.057	-0.000	31.236	0.000	0.000	41.607	36.944	98.591	MWD+IFR1+MS
10900.000	89.980	179.900	9899.958	31.463	0.000	37.232	-0.000	31.458	0.000	0.000	41.618	37.121	98.678	MWD+IFR1+MS
11000.000	89.980	179.900	9899.958	31.691	0.000	37.419	-0.000	31.686	0.000	0.000	41.629	37.310	98.796	MWD+IFR1+MS
11100.000	89.980	179.900	9899.958	31.958	0.000	37.619	-0.000	31.953	0.000	0.000	41.640	37.511	98.951	MWD+IFR1+MS
11200.000	89.980	179.900	9899.958	32.223	0.000	37.831	-0.000	32.218	0.000	0.000	41.664	37.725	99.120	MWD+IFR1+MS
11300.000	89.980	179.900	9899.959	32.516	0.000	38.055	-0.000	32.512	0.000	0.000	41.676	37.949	99.367	MWD+IFR1+MS
11400.000	89.980	179.900	9899.959	32.822	0.000	38.291	-0.000	32.818	0.000	0.000	41.688	38.185	99.676	MWD+IFR1+MS
11500.000	89.980	179.900	9899.959	33.156	0.000	38.538	-0.000	33.151	0.000	0.000	41.713	38.432	100.025	MWD+IFR1+MS
11600.000	89.980	179.900	9899.959	33.486	0.000	38.783	-0.000	33.481	0.000	0.000	41.738	38.677	100.421	MWD+IFR1+MS
11700.000	89.980	179.900	9899.959	33.842	0.000	39.053	-0.000	33.838	0.000	0.000	41.753	38.945	101.016	MWD+IFR1+MS
11800.000	89.980	179.900	9899.960	34.210	0.000	39.321	-0.000	34.205	0.000	0.000	41.779	39.211	101.671	MWD+IFR1+MS

11900.000	89.980	179.900	9899.960	34.587	0.000	39.612	-0.000	34.583	0.000	0.000	41.808	39.498	102.578	MWD+IFR1+MS
12000.000	89.980	179.900	9899.960	34.990	0.000	39.902	-0.000	34.986	0.000	0.000	41.838	39.782	103.707	MWD+IFR1+MS
12100.000	89.980	179.900	9899.960	35.402	0.000	40.201	-0.000	35.398	0.000	0.000	41.871	40.073	105.235	MWD+IFR1+MS
12200.000	89.980	179.900	9899.961	35.823	0.000	40.511	-0.000	35.819	0.000	0.000	41.908	40.370	107.377	MWD+IFR1+MS
12300.000	89.980	179.900	9899.961	36.253	0.000	40.818	-0.000	36.249	0.000	0.000	41.951	40.658	110.336	MWD+IFR1+MS
12400.000	89.980	179.900	9899.961	36.692	0.000	41.148	-0.000	36.688	0.000	0.000	42.008	40.955	115.064	MWD+IFR1+MS
12500.000	89.980	179.900	9899.962	37.152	0.000	41.486	-0.000	37.148	0.000	0.000	42.090	41.236	122.525	MWD+IFR1+MS
12600.000	89.980	179.900	9899.962	37.620	0.000	41.822	-0.000	37.616	0.000	0.000	42.221	41.478	132.692	MWD+IFR1+MS
12700.000	89.980	179.900	9899.963	38.096	0.000	42.179	-0.000	38.092	0.000	0.000	42.419	41.661	-34.413	MWD+IFR1+MS
12800.000	89.980	179.900	9899.963	38.578	0.000	42.534	-0.000	38.575	0.000	0.000	42.681	41.777	-24.050	MWD+IFR1+MS
12900.000	89.980	179.900	9899.963	39.081	0.000	42.896	-0.000	39.077	0.000	0.000	42.993	41.864	-17.251	MWD+IFR1+MS
13000.000	89.980	179.900	9899.964	39.589	0.000	43.268	-0.000	39.585	0.000	0.000	43.334	41.919	-12.701	MWD+IFR1+MS
13100.000	89.980	179.900	9899.964	40.104	0.000	43.647	-0.000	40.100	0.000	0.000	43.695	41.973	-9.753	MWD+IFR1+MS
13200.000	89.980	179.900	9899.965	40.624	0.000	44.035	-0.000	40.620	0.000	0.000	44.070	42.022	-7.680	MWD+IFR1+MS
13300.000	89.980	179.900	9899.965	41.150	0.000	44.419	-0.000	41.146	0.000	0.000	44.445	42.067	-6.198	MWD+IFR1+MS
13400.000	89.980	179.900	9899.966	41.693	0.000	44.823	-0.000	41.689	0.000	0.000	44.842	42.109	-5.047	MWD+IFR1+MS
13500.000	89.980	179.900	9899.966	42.241	0.000	45.233	-0.000	42.237	0.000	0.000	45.248	42.149	-4.155	MWD+IFR1+MS
13600.000	89.980	179.900	9899.967	42.794	0.000	45.641	-0.000	42.790	0.000	0.000	45.652	42.189	-3.459	MWD+IFR1+MS
13700.000	89.980	179.900	9899.967	43.362	0.000	46.055	-0.000	43.359	0.000	0.000	46.064	42.227	-2.891	MWD+IFR1+MS
13800.000	89.980	179.800	9899.968	43.924	0.000	46.477	-0.000	43.920	0.000	0.000	46.483	42.265	-2.423	MWD+IFR1+MS
13900.000	89.980	179.800	9899.968	44.500	0.000	46.905	-0.000	44.497	0.000	0.000	46.910	42.302	-2.031	MWD+IFR1+MS
14000.000	89.980	179.800	9899.969	45.081	0.000	47.340	-0.000	45.078	0.000	0.000	47.343	42.339	-1.702	MWD+IFR1+MS
14100.000	89.980	179.800	9899.969	45.676	0.000	47.782	-0.000	45.673	0.000	0.000	47.784	42.388	-1.422	MWD+IFR1+MS
14200.000	89.980	179.800	9899.970	46.263	0.000	48.229	-0.000	46.260	0.000	0.000	48.231	42.424	-1.179	MWD+IFR1+MS
14300.000	89.980	179.800	9899.971	46.865	0.000	48.673	-0.000	46.861	0.000	0.000	48.674	42.472	-0.973	MWD+IFR1+MS
14400.000	89.980	179.800	9899.971	47.469	0.000	49.133	-0.000	47.466	0.000	0.000	49.134	42.507	-0.789	MWD+IFR1+MS
14500.000	89.980	179.800	9899.972	48.086	0.000	49.589	-0.000	48.083	0.000	0.000	49.589	42.555	-0.630	MWD+IFR1+MS
14600.000	89.980	179.800	9899.973	48.696	0.000	50.060	-0.000	48.693	0.000	0.000	50.060	42.602	-0.489	MWD+IFR1+MS
14700.000	89.980	179.800	9899.973	49.318	0.000	50.527	-0.000	49.315	0.000	0.000	50.528	42.638	-0.364	MWD+IFR1+MS
14800.000	89.980	179.800	9899.974	49.943	0.000	51.000	-0.000	49.940	0.000	0.000	51.000	42.685	-0.253	MWD+IFR1+MS
14900.000	89.980	179.800	9899.975	50.570	0.000	51.478	-0.000	50.567	0.000	0.000	51.478	42.732	-0.155	MWD+IFR1+MS
15000.000	89.980	179.800	9899.976	51.199	0.000	51.961	-0.000	51.196	0.000	0.000	51.962	42.778	-0.066	MWD+IFR1+MS
15100.000	89.980	179.800	9899.976	51.839	0.000	52.440	-0.000	51.836	0.000	0.000	52.440	42.825	0.013	MWD+IFR1+MS
15200.000	89.980	179.800	9899.977	52.481	0.000	52.934	-0.000	52.479	0.000	0.000	52.934	42.872	0.084	MWD+IFR1+MS
15300.000	89.980	179.800	9899.978	53.125	0.000	53.423	-0.000	53.122	0.000	0.000	53.423	42.930	0.149	MWD+IFR1+MS
15400.000	89.980	179.800	9899.979	53.780	0.000	53.926	-0.000	53.777	0.000	0.000	53.926	42.977	0.207	MWD+IFR1+MS
15500.000	89.980	179.800	9899.979	54.427	0.000	54.424	-0.000	54.424	0.000	0.000	54.424	43.023	0.260	MWD+IFR1+MS
15600.000	89.980	179.800	9899.980	55.084	0.000	54.927	-0.000	55.082	0.000	0.000	54.928	43.081	0.308	MWD+IFR1+MS
15700.000	89.980	179.800	9899.981	55.743	0.000	55.434	-0.000	55.740	0.000	0.000	55.435	43.127	0.351	MWD+IFR1+MS
15800.000	89.980	179.800	9899.982	56.403	0.000	55.946	-0.000	56.400	0.000	0.000	55.947	43.185	0.390	MWD+IFR1+MS
15900.000	89.980	179.800	9899.983	57.073	0.000	56.462	-0.000	57.070	0.000	0.000	56.463	43.231	0.426	MWD+IFR1+MS
16000.000	89.980	179.800	9899.984	57.743	0.000	56.982	-0.000	57.741	0.000	0.000	56.983	43.289	0.459	MWD+IFR1+MS
16100.000	89.980	179.800	9899.985	58.415	0.000	57.497	-0.000	58.412	0.000	0.000	57.499	43.346	0.489	MWD+IFR1+MS
16200.000	89.980	179.800	9899.986	59.087	0.000	58.025	-0.000	59.085	0.000	0.000	58.027	43.404	0.516	MWD+IFR1+MS
16300.000	89.980	179.800	9899.987	59.760	0.000	58.548	-0.000	59.758	0.000	0.000	58.550	43.461	0.541	MWD+IFR1+MS
16400.000	89.980	179.800	9899.988	60.442	0.000	59.084	-0.000	60.440	0.000	0.000	59.086	43.518	0.563	MWD+IFR1+MS
16500.000	89.980	179.800	9899.989	61.125	0.000	59.614	-0.000	61.123	0.000	0.000	59.617	43.576	0.584	MWD+IFR1+MS
16600.000	89.980	179.800	9899.990	61.808	0.000	60.149	-0.000	61.806	0.000	0.000	60.151	43.633	0.602	MWD+IFR1+MS
16700.000	89.980	179.800	9899.991	62.492	0.000	60.686	-0.000	62.490	0.000	0.000	60.689	43.690	0.619	MWD+IFR1+MS
16800.000	89.980	179.800	9899.992	63.185	0.000	61.228	-0.000	63.182	0.000	0.000	61.231	43.747	0.635	MWD+IFR1+MS
16900.000	89.980	179.800	9899.993	63.877	0.000	61.764	-0.000	63.875	0.000	0.000	61.768	43.815	0.649	MWD+IFR1+MS
17000.000	89.980	179.800	9899.994	64.570	0.000	62.312	-0.000	64.568	0.000	0.000	62.316	43.872	0.662	MWD+IFR1+MS
17100.000	89.980	179.800	9899.995	65.263	0.000	62.855	-0.000	65.261	0.000	0.000	62.859	43.929	0.673	MWD+IFR1+MS

17200.000	89.980	179.800	9899.996	65.964	0.000	63.410	-0.000	65.962	0.000	0.000	63.414	43.997	0.684	MWD+IFR1+MS
17300.000	89.980	179.700	9899.997	66.665	0.000	63.958	-0.000	66.663	0.000	0.000	63.963	44.065	0.694	MWD+IFR1+MS
17400.000	89.980	179.700	9899.998	67.367	0.000	64.511	-0.000	67.365	0.000	0.000	64.516	44.121	0.702	MWD+IFR1+MS
17500.000	89.980	179.700	9899.999	68.068	0.000	65.066	-0.000	68.066	0.000	0.000	65.072	44.189	0.710	MWD+IFR1+MS
17572.000	89.980	179.700	9900.000	68.581	0.000	65.472	-0.000	68.578	0.000	0.000	65.478	44.234	0.715	MWD+IFR1+MS

Plan Targets		PLU 26 Brushy Draw 126H			
Target Name	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape
PLU 26 BD FTP 3	10256.07	400348.20	649705.20	6550.00	CIRCLE
PLU 26 BD LTP 3	17572.66	393032.32	649718.61	6550.00	CIRCLE

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 180 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 (OOGO) No. 2, 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. OOGO No. 2, Section I.D.2 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 OOGO No. 2, Section IV., XTO Energy submits this request for the variance.

Supporting Documentation

OOGO No. 2 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 OOGO No. 2 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.

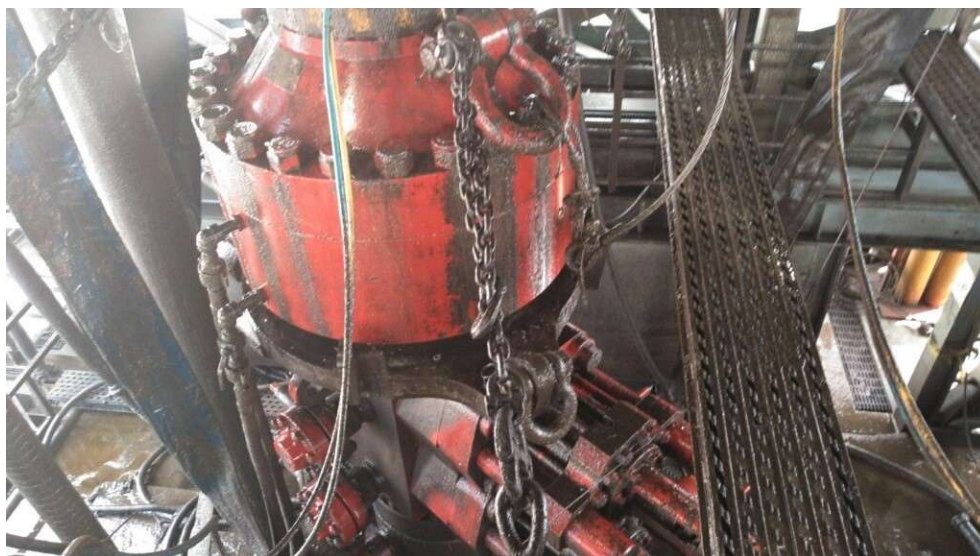


Figure 1: Winch System attached to BOP Stack

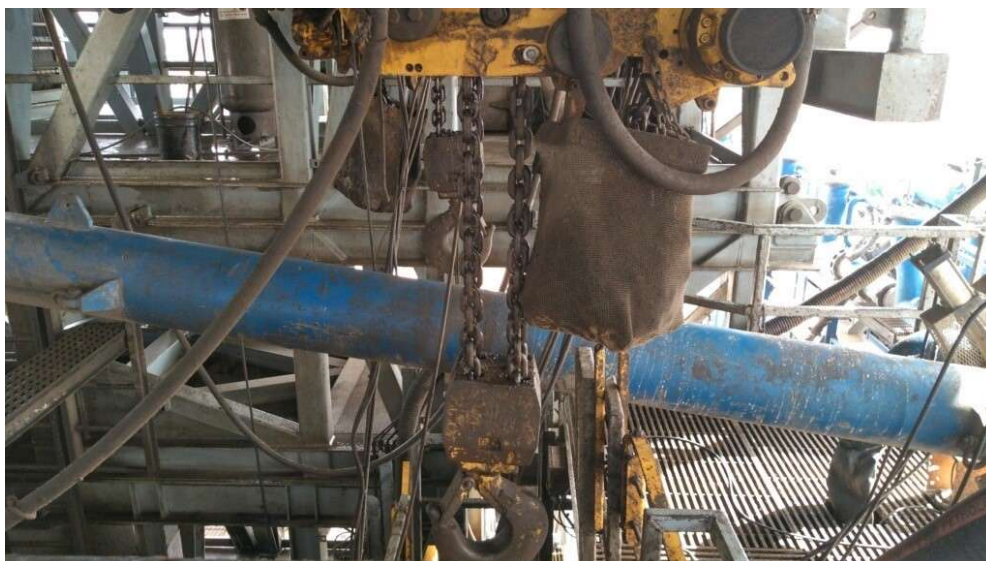


Figure 2: BOP Winch System

American Petroleum Institute (API) standards, specification and recommended practices are considered the industry standard and are consistently utilized and referenced by the industry. OOGO No. 2 recognizes API recommended Practices (RP) 53 in its original development. API Standard 53, *Well Control Equipment Systems for Drilling Wells* (Fifth Edition, December 2018, Annex C, Table C.4) recognizes break testing as an acceptable practice. Specifically, API Standard 53, Section 5.3.7.1 states “A pressure test of the pressure containing component shall be performed following the disconnection or repair, limited to the affected component.” See Table C.4 below for reference.

62 API STANDARD 53			
Table C.4—Initial Pressure Testing, Surface BOP Stacks			
Component to be Pressure Tested	Pressure Test—Low Pressure ^{a,c} psig (MPa)	Pressure Test—High Pressure ^{a,c}	
		Change Out of Component, Elastomer, or Ring Gasket	No Change Out of Component, Elastomer, or Ring Gasket
Annular preventer ^b	250 to 350 (1.72 to 2.41)	RWP of annular preventer	MASP or 70% annular RWP, whichever is lower.
Fixed pipe, variable bore, blind, and BSR preventers ^{b,d}	250 to 350 (1.72 to 2.41)	RWP of ram preventer or wellhead system, whichever is lower	ITP
Choke and kill line and BOP side outlet valves below ram preventers (both sides)	250 to 350 (1.72 to 2.41)	RWP of side outlet valve or wellhead system, whichever is lower	ITP
Choke manifold—upstream of chokes ^e	250 to 350 (1.72 to 2.41)	RWP of ram preventers or wellhead system, whichever is lower	ITP
Choke manifold—downstream of chokes ^e	250 to 350 (1.72 to 2.41)	RWP of valve(s), line(s), or MASP for the well program, whichever is lower	
Kelly, kelly valves, drill pipe safety valves, IBOPs	250 to 350 (1.72 to 2.41)	MASP for the well program	
^a Pressure test evaluation periods shall be a minimum of five minutes. No visible leaks. The pressure shall remain stable during the evaluation period. The pressure shall not decrease below the intended test pressure. ^b Annular(s) and VBR(s) shall be pressure tested on the largest and smallest OD drill pipe to be used in well program. ^c For pad drilling operations, moving from one wellhead to another within the 21 days, pressure testing is required for pressure-containing and pressure-controlling connections when the integrity of a pressure seal is broken. ^d For surface offshore operations, the ram BOPs shall be pressure tested with the ram locks engaged and the closing and locking pressure vented during the initial test. For land operations, the ram BOPs shall be pressure tested with the ram locks engaged and the closing and locking pressure vented at commissioning and annually. ^e Adjustable chokes are not required to be full sealing devices. Pressure testing against a closed choke is not required.			

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

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

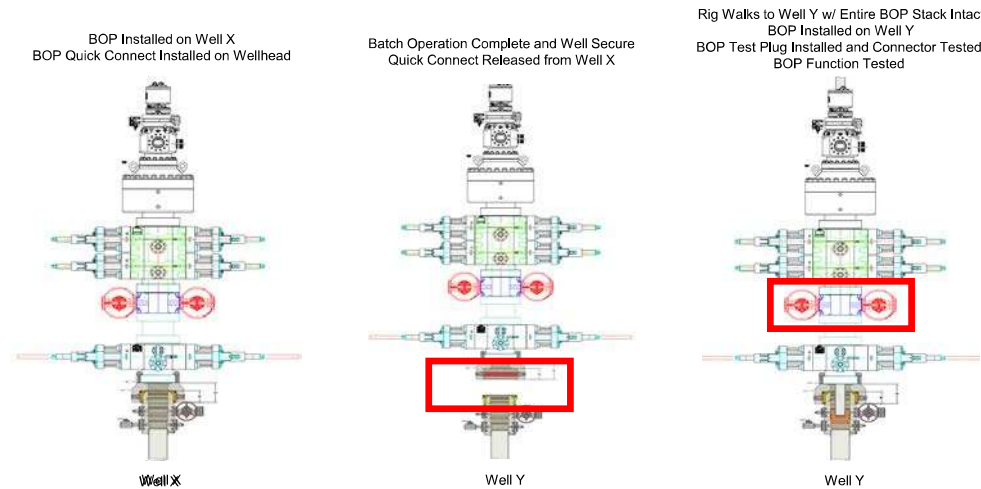
XTO Energy feels break testing and our current procedures meet the intent of OOGO No. 2 and often exceed it. There has been no evidence that break testing results in more components failing than seen on full BOP tests. XTO Energy's internal standards requires complete BOPE tests more often than that of OOGO No. 2 (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 OOGO No.2.

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



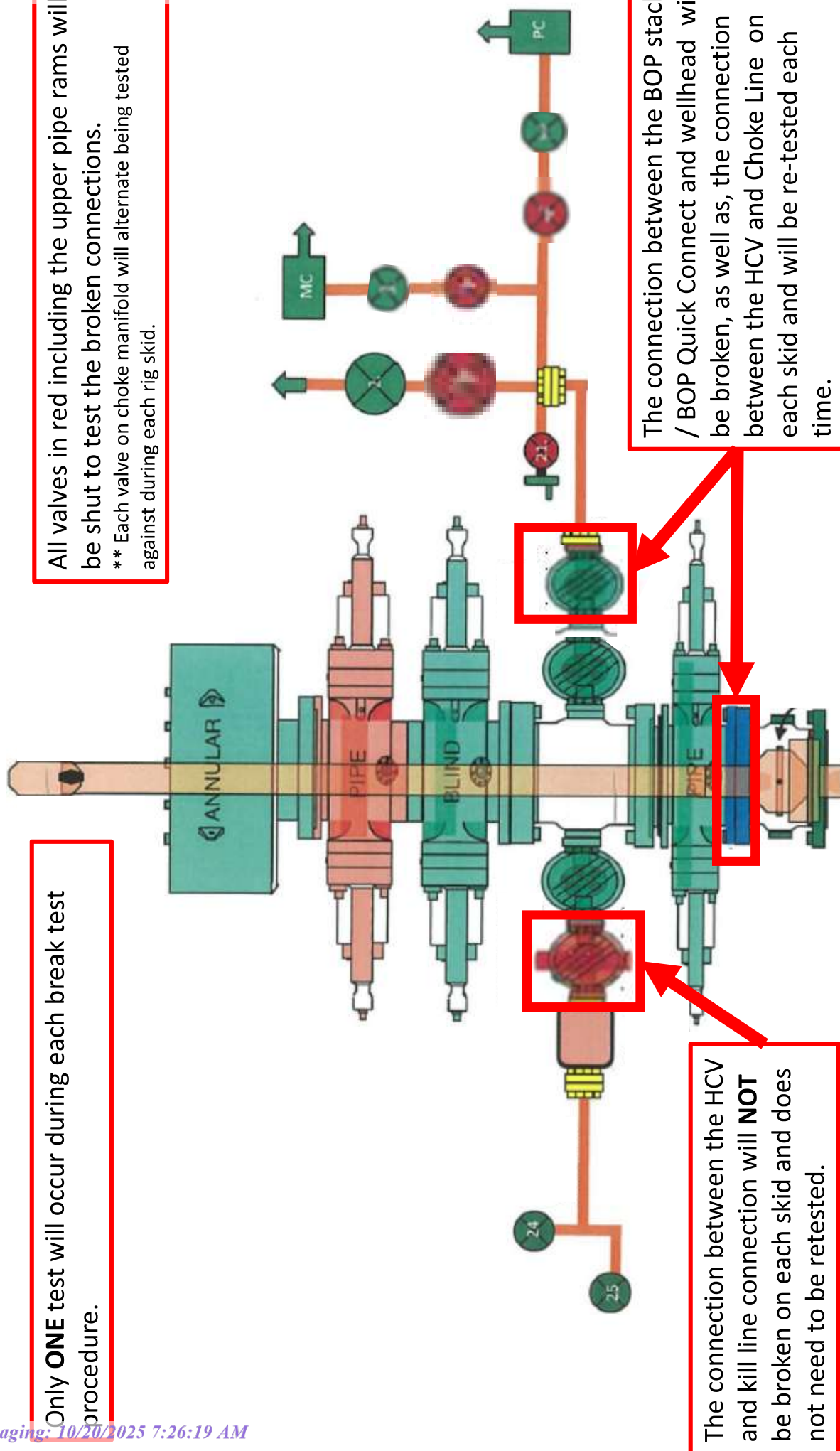
Summary

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.

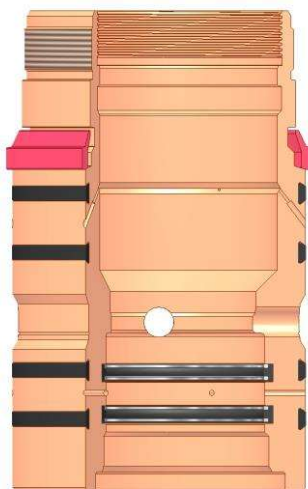
1. Cement Program

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

2. Offline Cementing Procedure

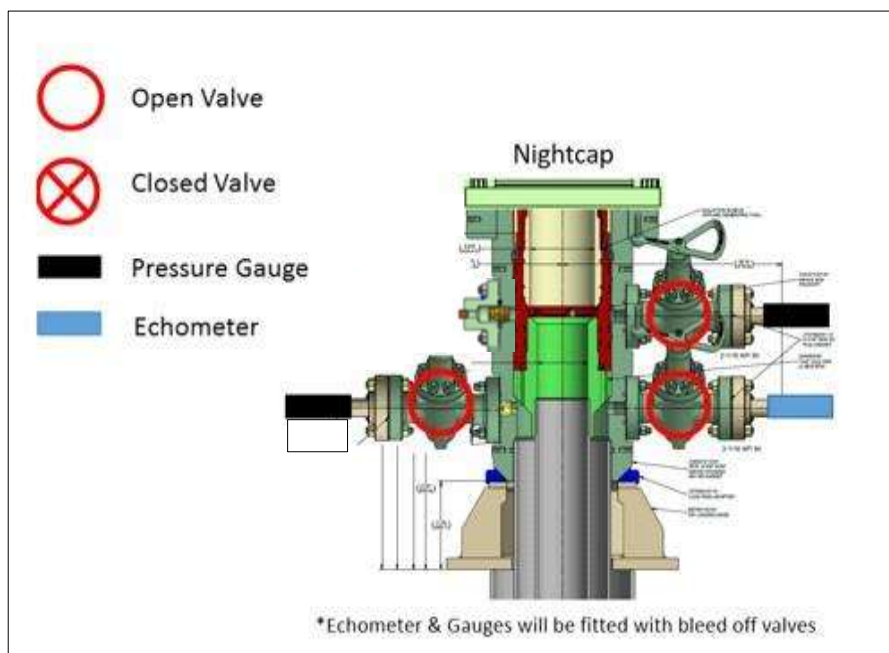
The operational sequence will be as follows. If a well control event occurs, the BLM will be contacted for approval prior to conducting offline cementing operations.

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.



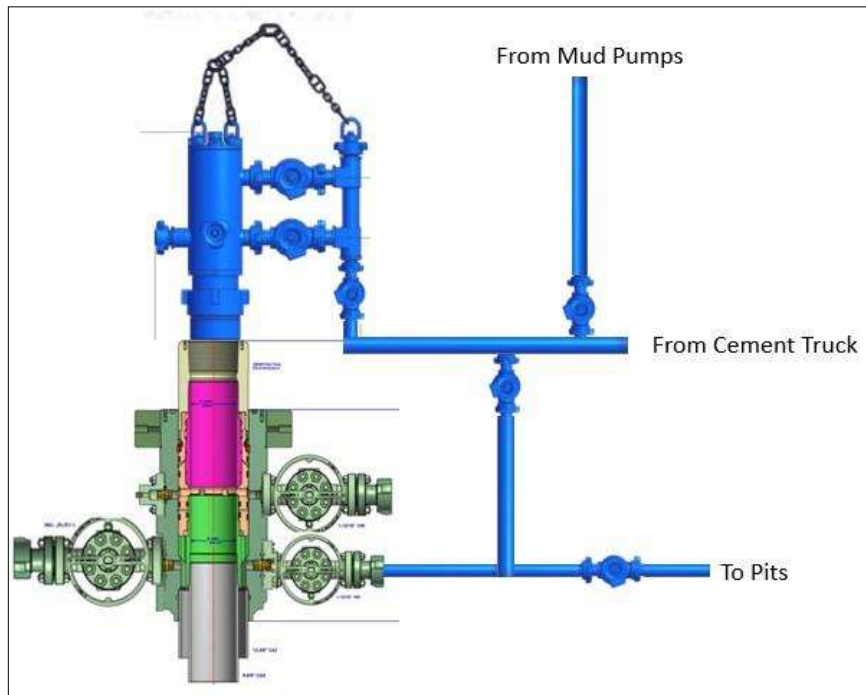
Annular packoff with both external and internal seals

XTO Permian Operating, LLC Offline Cementing Variance Request



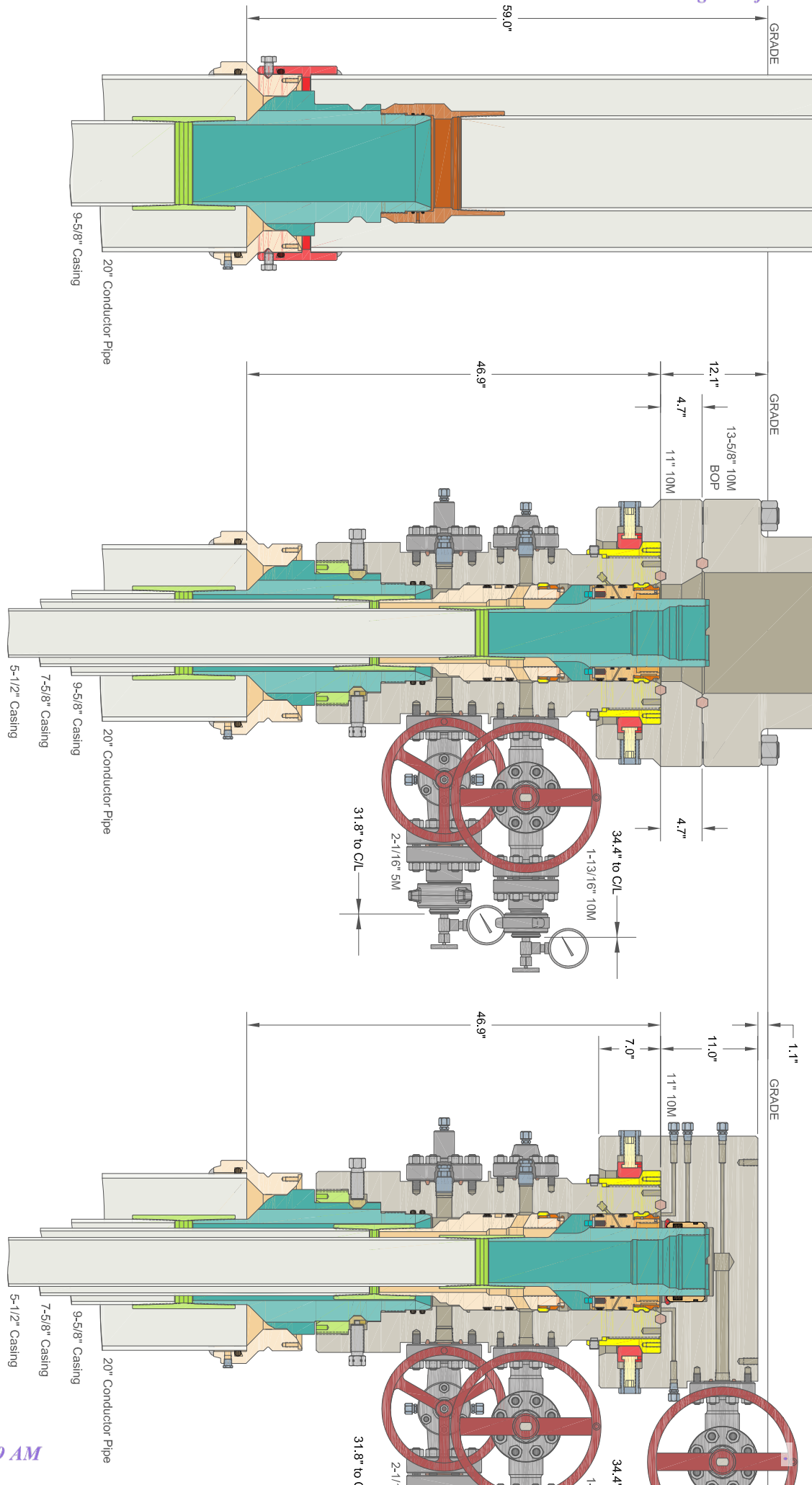
Wellhead diagram during skidding operations

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

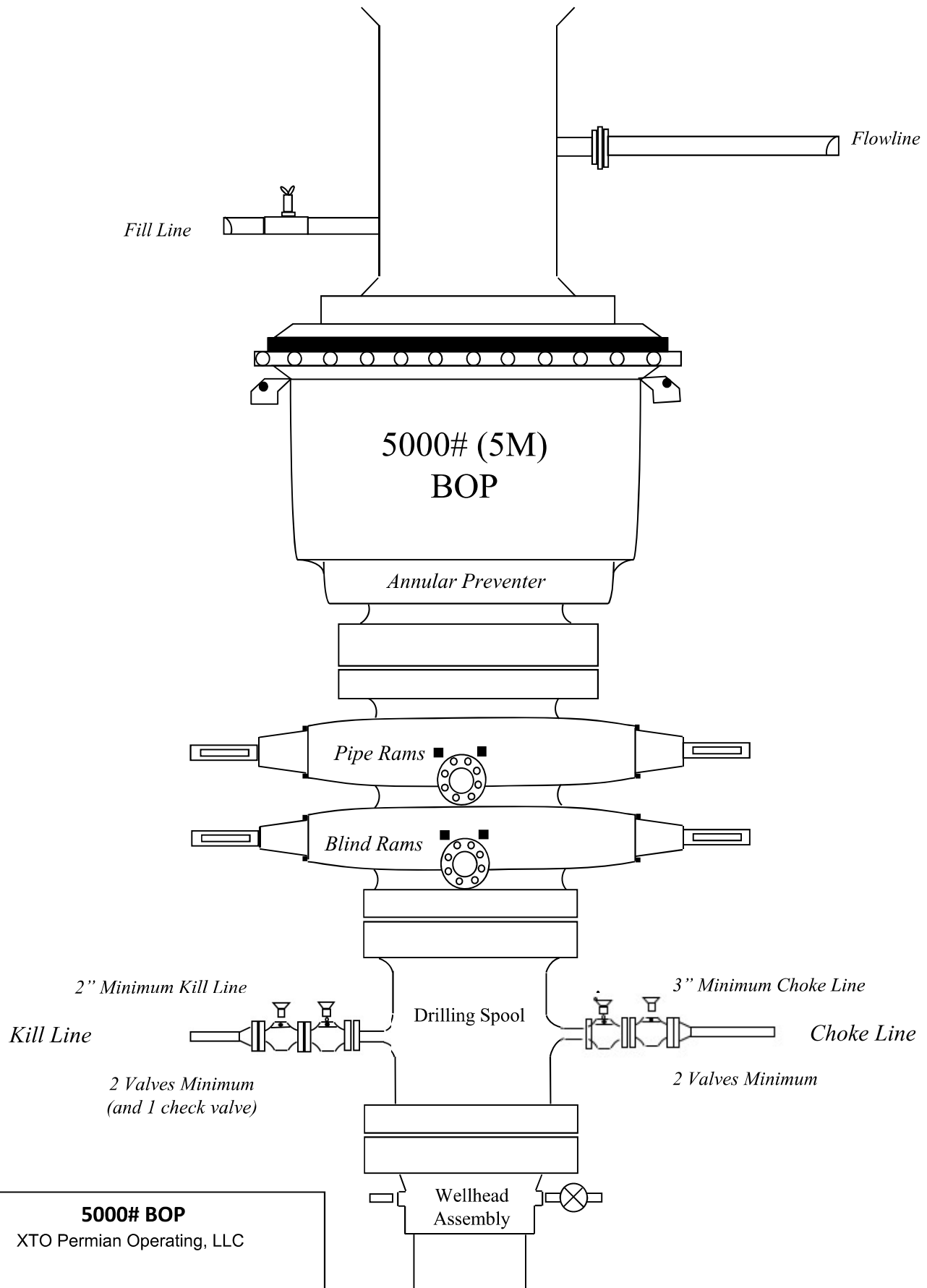
10. Circulate bottoms up with cement truck
 - a. If gas is present on bottoms up, well will be shut in and returns rerouted through gas buster to handle entrained gas
 - b. Max anticipated time before circulating with cement truck is 6 hrs
11. Perform cement job taking returns from the annulus wellhead 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.



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CACTUS

20" x 9-5/8" x 7-5/8" x 5-1/2"
With 11" 10M x 7-1/16" 15"
And 9-5/8", 7-5/8" & 5-1/2" Pi





Drilling Operations Choke Manifold 5M Service

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO Permian Operating, LLC
LEASE NO.:	NMLC-0063875
WELL NAME & NO.:	Poker Lake Unit 26 BD 126H
SURFACE HOLE FOOTAGE:	2310' FNL & 1845' FEL
BOTTOM HOLE FOOTAGE:	0201' FSL & 2204' FEL Sec. 26, T.25 S., R.30 E.
LOCATION:	Section 35, T.25 S., R.30 E., NMPM
COUNTY:	Eddy County, New Mexico

COA

H2S	☐ Yes	☒ No	
Potash	☒ None	☐ Secretary	☐ R-111-P
Cave/Karst Potential	☐ Low	☒ Medium	☐ High
Cave/Karst Potential	☐ Critical		
Variance	☐ None	☒ Flex Hose	☐ Other
Wellhead	☐ Conventional	☒ Multibowl	☐ Both
Other	☐ 4 String Area	☐ Capitan Reef	☐ WIPP
Other	☒ Fluid Filled	☐ Cement Squeeze	☐ Pilot Hole
Special Requirements	☐ Water Disposal	☐ COM	☒ Unit

Medium Cave/Karst

Possibility of water flows in the Salado and Castile.

Possibility of lost circulation in the Red Beds, Rustler, and Delaware.

Abnormal pressure may be encountered in the 3rd Bone Spring and all subsequent formations.

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 Onshore Order 6 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 **11-3/4** inch surface casing shall be set at approximately **1075** feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.

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

2. The minimum required fill of cement behind the **7-5/8** inch intermediate casing is:
 - Cement as proposed. Report Echo meter results on subsequent sundry.
 - ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
3. The minimum required fill of cement behind the **5-1/2** inch production casing is:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

C. PRESSURE CONTROL

1. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. 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 OOGO2.III.A.2.i must be followed.

BOP Break Testing Variance

- Shell testing is not approved for any portion of the hole with a MASP of 5000 psi or greater.
- 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 prior to the commencement of any BOP Break Testing operations.
- A full BOP test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOP test will be required.

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.

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)

☒ Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,
(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
 - Notify the BLM when moving in and removing the Spudder Rig.
 - 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.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 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. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

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 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.
3. 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.
4. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
5. 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.
6. 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.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
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.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. 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 when specified), 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).
 - b. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 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 water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
 - c. 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.

- d. The results of the test shall be reported to the appropriate BLM office.
- e. 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.
- f. 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.
- g. 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 Onshore Order No. 2.

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.

JAM 03182022

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

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/oed/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 509384

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 509384
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Work was performed without OCD approval.	10/20/2025