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

Sundry Print Report

09/25/2025

Well Name: POKER LAKE UNIT 26 BD

Well Location: T25S / R30E / SEC 26 / SWNE / 32.102252 / -103.849243

County or Parish/State: EDDY / NM

Well Number: 156H

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: 3001547989

Operator: XTO PERMIAN OPERATING LLC

Notice of Intent

Sundry ID: 2873735

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 09/16/2025

Time Sundry Submitted: 09:09

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/ 1320’ FEL & 2567’ FNL t/ 2152’ FSL & 1325’ FEL, Sec 26-25S-30E; Lease NMLC0063875 BLM previously approved sundry Id #2662536. Attachments: Updated C-102 on new required form. No new surface disturbance.

NOI Attachments

Procedure Description

POKER_LAKE_UNIT_26_BD_156H_C102_FINAL__9_10_2025_signed_20250916090849.pdf

Well Name: POKER LAKE UNIT 26 BD

Well Location: T25S / R30E / SEC 26 / SWNE / 32.102252 / -103.849243

County or Parish/State: EDDY / NM

Well Number: 156H

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: 3001547989

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 09:08 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

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

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.

SUBMIT IN TRIPLICATE *- Other instructions on page 2*

5. Lease Serial No. NMLC063875

6. If Indian, Allottee or Tribe Name

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

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

8. Well Name and No. POKER LAKE UNIT 26 BD/156H

2. Name of Operator XTO PERMIAN OPERATING LLC

9. API Well No. 3001547989

3a. Address 6401 HOLIDAY HILL ROAD BLDG 5, MIDLAND,

3b. Phone No. *(include area code)* (432) 683-2277

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

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

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 recomplete 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/ 1320 FEL & 2567 FNL t/ 2152 FSL & 1325 FEL, Sec 26-25S-30E; Lease NMLC0063875

BLM previously approved sundry Id #2662536.

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

Title Regulatory Analyst

Signature (Electronic Submission)

Date 09/16/2025

THE SPACE FOR FEDERAL OR STATE OFICE 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 ofthis form to U.S. Department ofthe Interior, Bureau ofLand 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 / 2280 FNL / 1845 FEL / TWSP: 25S / RANGE: 30E / SECTION: 26 / LAT: 32.102252 / LONG: -103.849243 (TVD: 0 feet, MD: 0 feet)

PPP: NWNE / 330 FNL / 1650 FEL / TWSP: 25S / RANGE: 30E / SECTION: 35 / LAT: 32.09295 / LONG: -103.84977 (TVD: 12130 feet, MD: 15108 feet)

PPP: NWSE / 2310 FSL / 1650 FEL / TWSP: 25S / RANGE: 30E / SECTION: 26 / LAT: 32.100222 / LONG: -103.848628 (TVD: 12130 feet, MD: 12468 feet)

BHL: SWSE / 200 FSL / 1650 FEL / TWSP: 25S / RANGE: 30E / SECTION: 35 / LAT: 32.07978 / LONG: -103.848677 (TVD: 12130 feet, MD: 19905 feet)

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

WELL LOCATION INFORMATION

API Number	Pool Code	Pool Name
30-015-47989	97814	WILDCAT G-015 S2630010; BONE SPRING

Property Code	Property Name	Well Number
329859	POKER LAKE UNIT 26 BD	156H

ORGID No.	Operator Name	Ground Level Elevation
373075	XTO PERMIAN OPERATING, LLC.	3,338'

Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal

Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
G	26	25 S	30 E		2,280' FNL	1,845' FEL	32.102252	-103.849242	EDDY

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
P	35	25 S	30 E		201' FSL	1,324' FEL	32.079786	-103.847624	EDDY

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
480	DEFINING		N	U

Order Numbers.

Well setbacks are under Common Ownership: ☒ Yes ☐ No

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
H	26	25 S	30 E		2,567' FNL	1,320' FEL	32.101462	-103.847554	EDDY

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
I	26	25 S	30 E		2,152' FSL	1,325' FEL	32.099789	-103.847582	EDDY

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
P	35	25 S	30 E		330' FSL	1,324' FEL	32.080141	-103.847624	EDDY

Unitized Area or Area of Uniform Interest	Spacing Unit Type	Ground Floor Elevation:
NMNM 071016X	☒ Horizontal ☐ Vertical	3,338'

OPERATOR 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 Granille 9/15/25

Signature Date

Lacey Granillo

Printed Name

lacey.granillo@exxonmobil.com

Email Address

SURVEYOR CERTIFICATIONS

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

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

TIM C. PAPPAS NEW MEXICO 21209 PROFESSIONAL SURVEYOR

Signature and Seal of Professional Surveyor

Certificate Number	Date of Survey
TIM C. PAPPAS 21209	ORIGINALLY SIGNED 1/24/2022 AMENDED 09/10/2025

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.

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

DATE:	09/10/2025	PROJECT NO:	2018010076
DRAWN BY:	WL	SCALE:	
CHECKED BY:	LM	SHEET:	1 OF 2
FIELD CREW:	IR	REVISION:	0

ACREAGE DEDICATION PLATS

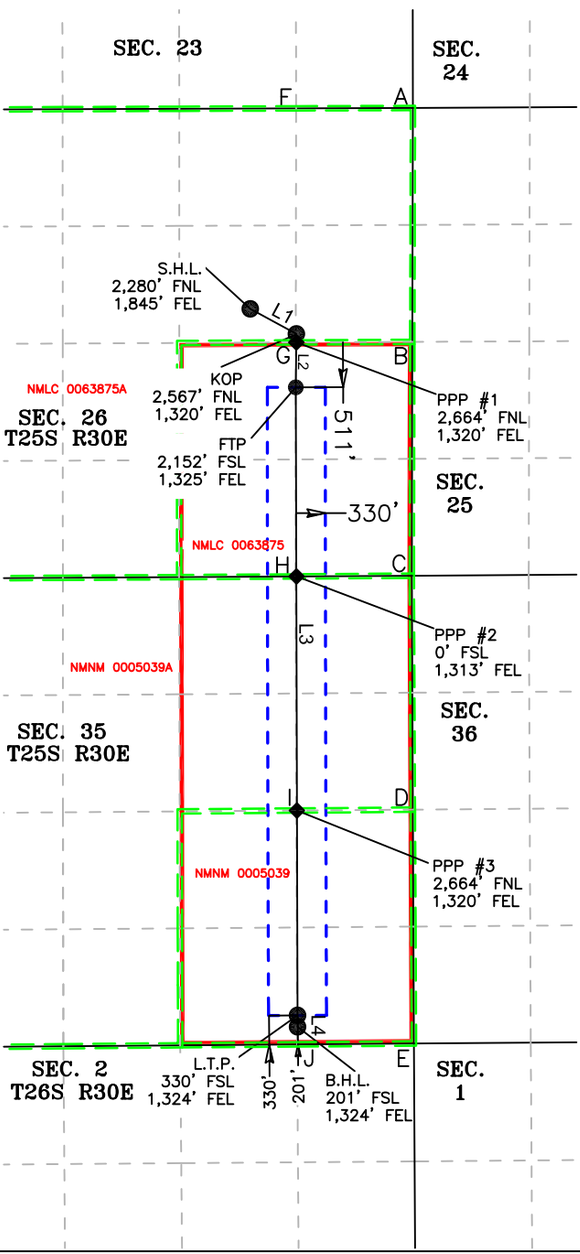
This grid represents a standard section. You may superimpose a non-standard section, or a larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the 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
- NEW MEXICO MINERAL LEASE LINE
- 330' BUFFER
- DEDICATED ACREAGE

LINE TABLE		
LINE	AZIMUTH	LENGTH
L1	118°31'58"	596.49
L2	180°33'19"	608.58
L3	179°50'44"	7,147.90
L3	179°47'12"	129.07



COORDINATE TABLE					
SHL (NAD 83 NME)			LTP (NAD 83 NME)		
Y =	401,272.3	N	Y =	393,230.9	N
X =	691,233.9	E	X =	691,771.3	E
LAT. =	32.102252	°N	LAT. =	32.080141	°N
LONG. =	103.849242	°W	LONG. =	103.847624	°W
KOP (NAD 83 NME)			BHL (NAD 83 NME)		
Y =	400,987.4	N	Y =	393,101.9	N
X =	691,758.0	E	X =	691,771.8	E
LAT. =	32.101462	°N	LAT. =	32.079786	°N
LONG. =	103.847554	°W	LONG. =	103.847624	°W
FTP (NAD 83 NME)					
Y =	400,378.8	N			
X =	691,752.1	E			
LAT. =	32.099789	°N			
LONG. =	103.847582	°W			
SHL (NAD 27 NME)			LTP (NAD 27 NME)		
Y =	401,214.3	N	Y =	393,173.2	N
X =	650,048.6	E	X =	650,585.7	E
LAT. =	32.102127	°N	LAT. =	32.080016	°N
LONG. =	103.848762	°W	LONG. =	103.847145	°W
KOP (NAD 27 NME)			BHL (NAD 27 NME)		
Y =	400,929.4	N	Y =	393,044.1	N
X =	650,572.6	E	X =	650,586.1	E
LAT. =	32.101338	°N	LAT. =	32.079661	°N
LONG. =	103.847074	°W	LONG. =	103.847145	°W
FTP (NAD 27 NME)					
Y =	400,320.9	N			
X =	650,566.7	E			
LAT. =	32.099665	°N			
LONG. =	103.847102	°W			
PPP #1 (NAD 83 NME)			PPP #1 (NAD 27 NME)		
Y =	400,890.1	N	Y =	400,832.1	N
X =	691,758.0	E	X =	650,572.6	E
LAT. =	32.101195	°N	LAT. =	32.101070	°N
LONG. =	103.847556	°W	LONG. =	103.847075	°W
PPP #2 (NAD 83 NME)			PPP #2 (NAD 27 NME)		
Y =	398,226.8	N	Y =	398,168.9	N
X =	691,759.3	E	X =	650,573.8	E
LAT. =	32.093874	°N	LAT. =	32.093749	°N
LONG. =	103.847590	°W	LONG. =	103.847110	°W
PPP #3 (NAD 83 NME)			PPP #3 (NAD 27 NME)		
Y =	395,562.5	N	Y =	395,504.7	N
X =	691,764.2	E	X =	650,578.6	E
LAT. =	32.086550	°N	LAT. =	32.086425	°N
LONG. =	103.847613	°W	LONG. =	103.847133	°W

CORNER COORDINATES (NAD83 NME)					
A - Y =	403,558.5	N	A - X =	693,085.1	E
B - Y =	400,896.3	N	B - X =	693,078.2	E
C - Y =	398,235.0	N	C - X =	693,072.5	E
D - Y =	395,572.5	N	D - X =	693,084.4	E
E - Y =	392,911.2	N	E - X =	693,096.8	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 =	403,500.5	N	A - X =	651,899.7	E
B - Y =	400,838.4	N	B - X =	651,892.8	E
C - Y =	398,177.1	N	C - X =	651,887.0	E
D - Y =	395,514.6	N	D - X =	651,898.8	E
E - Y =	392,853.4	N	E - X =	651,911.1	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

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

DATE:	09/10/2025	PROJECT NO:	2089010076
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

Sundry Print Report

07/24/2025

Well Name: POKER LAKE UNIT 26 BD
Well Location: T25S / R30E / SEC 26 / SWNE / 32.102252 / -103.849243
County or Parish/State: EDDY / NM

Well Number: 156H
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: 3001547989
Operator: XTO PERMIAN OPERATING LLC

Notice of Intent

Sundry ID: 2662536

Type of Submission: Notice of Intent
Type of Action: Other

Date Sundry Submitted: 03/17/2022
Time Sundry Submitted: 05:51

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 & 1650'FEL to 201'FSL & 1324'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_156H_Sundry_Attachments_20220318063209.pdf

Well Name: POKER LAKE UNIT 26 BD	**Well Location:** T25S / R30E / SEC 26 / SWNE / 32.102252 / -103.849243	**County or Parish/State:** EDDY / NM
Well Number: 156H	**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: 3001547989	**Operator:** XTO PERMIAN OPERATING LLC	

Conditions of Approval

Specialist Review

Conditions_of_Approval_20220318091027.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 06:32 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

Signature: Jennifer Sanchez

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM 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.

SUBMIT IN TRIPLICATE *- Other instructions on page 2*

5. Lease Serial No. NMLC063875

6. If Indian, Allottee or Tribe Name

7. If Unit of CA/Agreement, Name and/or No. DONOTUSE, POKER LAKE UNIT/NMNM071016Z, NMNM71016X

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

8. Well Name and No. POKER LAKE UNIT 26 BD/156H

2. Name of Operator XTO PERMIAN OPERATING LLC

9. API Well No. 3001547989

3a. Address 6401 HOLIDAY HILL ROAD BLDG 5, MIDLAND,

3b. Phone No. *(include area code)* (432) 683-2277

10. Field and Pool or Exploratory Area Purple Sage/BONE SPRING

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

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
	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☑ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
☐ Final Abandonment Notice	☐ 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 recomplete 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.)

**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 & 1650FEL to 201FSL & 1324FEL, 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) 620-6714

Title Regulatory Coordinator

Signature (Electronic Submission)

Date 03/18/2022

THE SPACE FOR FEDERAL OR STATE OFICE USE

Approved by JENNIFER SANCHEZ / Ph: (575) 627-0237 / Approved

Title 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 ofthis form to U.S. Department ofthe Interior, Bureau ofLand 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 / 2280 FNL / 1845 FEL / TWSP: 25S / RANGE: 30E / SECTION: 26 / LAT: 32.102252 / LONG: -103.849243 (TVD: 0 feet, MD: 0 feet)

PPP: NWNE / 330 FNL / 1650 FEL / TWSP: 25S / RANGE: 30E / SECTION: 35 / LAT: 32.09295 / LONG: -103.84977 (TVD: 12130 feet, MD: 15108 feet)

PPP: NWSE / 2310 FSL / 1650 FEL / TWSP: 25S / RANGE: 30E / SECTION: 26 / LAT: 32.100222 / LONG: -103.848628 (TVD: 12130 feet, MD: 12468 feet)

BHL: SWSE / 200 FSL / 1650 FEL / TWSP: 25S / RANGE: 30E / SECTION: 35 / LAT: 32.07978 / LONG: -103.848677 (TVD: 12130 feet, MD: 19905 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	[2] Pool Code	[3] Pool Name
30-015-47989	97814	Wildcat; Bone Spring

[4] Property Code	[5] Property Name	[6] Well Number
	POKER LAKE UNIT 26 BD	156H

[7] OGRID No.	[8] Operator Name	[9] Elevation
373075	XTO PERMIAN OPERATING, LLC.	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
H	26	25 S	30 E		2,280	NORTH	1,845	EAST	EDDY

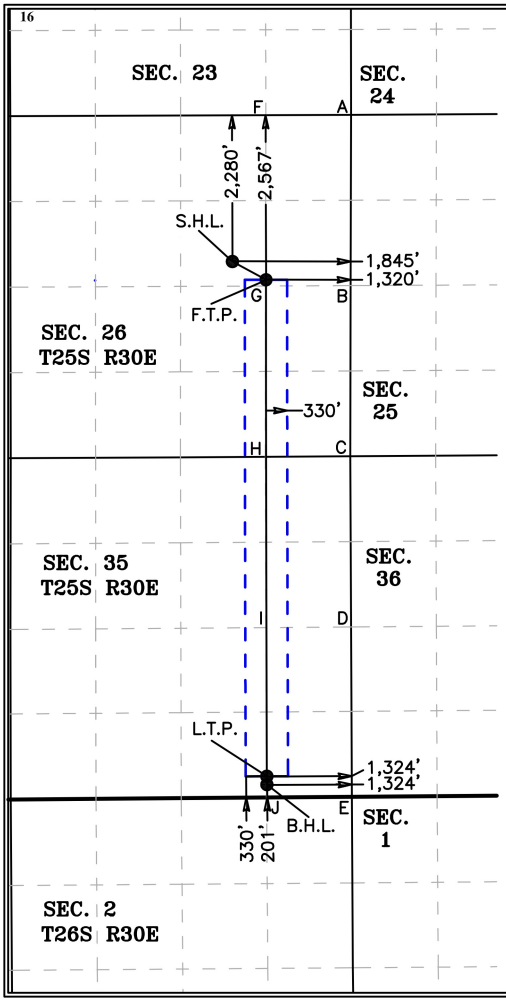
[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	35	25 S	30 E		201	SOUTH	1,324	EAST	EDDY

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
240			

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]



SHL (NAD83 NME)		LTP (NAD83 NME)	
Y =	401,272.3	Y =	393,230.9
X =	691,233.9	X =	691,771.3
LAT. =	32.102252 °N	LAT. =	32.080141 °N
LONG. =	103.849242 °W	LONG. =	103.847624 °W
FTP (NAD83 NME)		**BHL (NAD83 NME)**	
Y =	400,987.4	Y =	393,101.9
X =	691,758.0	X =	691,771.8
LAT. =	32.101462 °N	LAT. =	32.079786 °N
LONG. =	103.847554 °W	LONG. =	103.847624 °W

CORNER COORDINATES (NAD83 NME)

A - Y =	403,558.5 N ,	X =	693,085.1 E
B - Y =	400,896.3 N ,	X =	693,078.2 E
C - Y =	398,235.0 N ,	X =	693,072.5 E
D - Y =	395,572.5 N ,	X =	693,084.4 E
E - Y =	392,911.2 N ,	X =	693,096.8 E
F - Y =	403,554.0 N ,	X =	691,755.5 E
G - Y =	400,890.0 N ,	X =	691,751.4 E
H - Y =	398,226.7 N ,	X =	691,748.0 E
I - Y =	395,562.5 N ,	X =	691,756.9 E
J - Y =	392,900.9 N ,	X =	691,766.1 E

SHL (NAD27 NME)		LTP (NAD27 NME)	
Y =	401,214.3	Y =	393,173.2
X =	650,048.6	X =	650,585.7
LAT. =	32.102127 °N	LAT. =	32.080016 °N
LONG. =	103.848762 °W	LONG. =	103.847145 °W
FTP (NAD27 NME)		**BHL (NAD27 NME)**	
Y =	400,929.4	Y =	393,044.1
X =	650,572.6	X =	650,586.1
LAT. =	32.101338 °N	LAT. =	32.079661 °N
LONG. =	103.847074 °W	LONG. =	103.847145 °W

CORNER COORDINATES (NAD27 NME)

A - Y =	403,500.5 N ,	X =	651,899.7 E
B - Y =	400,838.4 N ,	X =	651,892.8 E
C - Y =	398,177.1 N ,	X =	651,887.0 E
D - Y =	395,514.6 N ,	X =	651,898.8 E
E - Y =	392,853.4 N ,	X =	651,911.1 E
F - Y =	403,495.9 N ,	X =	650,570.2 E
G - Y =	400,832.1 N ,	X =	650,566.0 E
H - Y =	398,168.8 N ,	X =	650,562.5 E
I - Y =	395,504.6 N ,	X =	650,571.4 E
J - Y =	392,843.1 N ,	X =	650,580.4 E

[17] OPERATOR CERTIFICATION

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.

Stephanie Rabadue 01/30/2022
Signature Date

Stephanie Rabadue
Printed Name

stephanie.rabadue@exxonmobil.com
E-mail Address

[18] SURVEYOR CERTIFICATION

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.

1-24-2022
Date of Survey

Signatue and Seal of Professional Surveyor:

MARK DILLON HARP NEW MEXICO 23786 PROFESSIONAL SURVEYOR

MARK DILLON HARP 23786
Certificate Number AW 2018010076

DRILLING PLAN: BLM COMPLIANCE
(Supplement to BLM 3160-3)

XTO Energy Inc.
PLU 26 Brushy Draw 156H
Projected TD: 17337' MD / 9650' TVD
SHL: 2280' FNL & 1845' FEL , Section 26, T25S, R30E
BHL: 200' FSL & 1320' 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	992'	Water
Top of Salt	1142'	Water
Base of Salt	3900'	Water
Delaware	3992'	Water
Brushy Canyon	6481'	Water/Oil/Gas
Bone Spring	7821'	Water
1st Bone Spring Ss	8791'	Water/Oil/Gas
2nd Bone Spring Ss	9601'	Water/Oil/Gas
Target/Land Curve	9650'	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 @ 1092' (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 8350' and cemented to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 17337 MD/TD and 5.5 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 8050 feet).

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
14.75	0' – 1092'	11.75	54	J-55	BTC	New	1.50	4.19	14.41
8.75	0' – 4000'	7.625	29.7	RY P-110	Flush Joint	New	3.27	2.65	2.25
8.75	4000' – 8350'	7.625	29.7	HC L-80	Flush Joint	New	2.38	2.40	3.14
6.75	0' – 8250'	5.5	20	RY P-110	Semi-Premium	New	1.05	2.59	2.55
6.75	8250' - 17337'	5.5	20	RY P-110	Semi-Flush	New	1.05	2.21	2.55

· 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 +/- 1092'

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 +/- 8350'
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: 170 sxs Class C (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)
TOC: Brushy Canyon @ 6481
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 (6481') 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 +/- 17337'

Lead: 40 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft3/sx, 15.00 gal/sx water) Top of Cement: 8050 feet
Tail: 590 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft3/sx, 8.38 gal/sx water) Top of Cement: 9125 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. 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 nippling up on the 11.75, 5M bradenhead and flange, the BOP test will be limited to 3000 psi. When nippling 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 5M 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' - 1092'	14.75	FW/Native	8.7-9.2	35-40	NC
1092' - 8350'	8.75	FW / Cut Brine / Direct Emulsion	9.7-10.2	30-32	NC
8350' - 17337'	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 160 to 180 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 5018 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 156H

Measured Depth:	17337.00 ft	**Site:**	PLU 26 BD Pad C
TVD RKB:	9650.00 ft	**Slot:**	PLU 26 Brushy Draw 156H
Location			
Cartographic Reference System:	New Mexico East - NAD 27		
Northing:	401209.41 ft		
Easting:	650061.08 ft		
RKB:	3350.00 ft		
Ground Level:	3320.00 ft		
North Reference:	Grid		
Convergence Angle:	0.26 Deg		

Plan Sections PLU 26 Brushy Draw 156H

Measured Depth (ft)	Inclination (Deg)	Azimuth (Deg)	TVD RKB (ft)	Y Offset (ft)	X Offset (ft)	Build Rate (Deg/100ft)	Turn Rate (Deg/100ft)	Dogleg Rate (Deg/100ft)	Target
0.00	0.00	0.00	0.00	0.00	-0.00	0.00	0.00	0.00	
2000.00	0.00	0.00	2000.00	0.00	-0.00	0.00	0.00	0.00	
2481.18	9.62	118.53	2478.92	-19.25	35.42	2.00	0.00	2.00	
5566.76	9.62	118.53	5521.08	-265.65	488.60	0.00	0.00	0.00	
6047.94	0.00	0.00	6000.00	-284.91	524.02	-2.00	0.00	2.00	
9124.94	0.00	0.00	9077.00	-284.91	524.02	0.00	0.00	0.00	
10024.94	90.00	180.00	9649.96	-857.86	524.02	10.00	0.00	10.00	PLU 26 BD FTP 6
17337.29	90.00	179.79	9650.00	-8170.20	537.59	0.00	-0.00	0.00	PLU 26 BD LTP 6

Position Uncertainty PLU 26 Brushy Draw 156H

Measured Depth (ft)	Inclination (°)	Azimuth (°)	TVD RKB (ft)	Highside Error (ft)	Highside Bias (ft)	Lateral Error (ft)	Lateral Bias (ft)	Vertical Error (ft)	Vertical Bias (ft)	Magnitude of Bias (ft)	Semi-major Error (ft)	Semi-minor Error (ft)	Semi-minor Azimuth (°)	Tool Used
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	1.999	118.500	2099.980	7.693	0.000	8.323	-0.000	3.354	0.000	0.000	8.404	7.608	-42.455	MWD+IFR1+MS
2200.000	4.000	118.500	2199.838	8.339	0.000	8.645	-0.000	3.447	0.000	0.000	8.706	8.290	-38.715	MWD+IFR1+MS
2300.000	6.000	118.500	2299.452	8.943	0.000	8.970	-0.000	3.545	0.000	0.000	9.036	8.909	-15.225	MWD+IFR1+MS
2400.000	7.999	118.500	2398.702	9.510	0.000	9.296	-0.000	3.650	0.000	0.000	9.568	9.296	31.323	MWD+IFR1+MS
2481.100	9.623	118.500	2478.923	9.874	0.000	9.558	-0.000	3.736	0.000	0.000	9.964	9.551	35.695	MWD+IFR1+MS
2500.000	9.623	118.500	2497.476	9.932	0.000	9.616	-0.000	3.752	0.000	0.000	10.023	9.610	35.720	MWD+IFR1+MS
2600.000	9.623	118.500	2596.069	10.240	0.000	9.934	-0.000	3.859	0.000	0.000	10.328	9.926	36.420	MWD+IFR1+MS
2700.000	9.623	118.500	2694.662	10.562	0.000	10.267	-0.000	3.969	0.000	0.000	10.652	10.254	38.745	MWD+IFR1+MS
2800.000	9.623	118.500	2793.254	10.891	0.000	10.607	-0.000	4.083	0.000	0.000	10.982	10.587	41.295	MWD+IFR1+MS
2900.000	9.623	118.500	2891.847	11.218	0.000	10.942	-0.000	4.200	0.000	0.000	11.312	10.915	43.376	MWD+IFR1+MS
3000.000	9.623	118.500	2990.440	11.554	0.000	11.284	-0.000	4.320	0.000	0.000	11.650	11.250	45.313	MWD+IFR1+MS
3100.000	9.623	118.500	3089.032	11.890	0.000	11.629	-0.000	4.444	0.000	0.000	11.991	11.585	47.401	MWD+IFR1+MS
3200.000	9.623	118.500	3187.625	12.228	0.000	11.972	-0.000	4.571	0.000	0.000	12.333	11.921	49.029	MWD+IFR1+MS
3300.000	9.623	118.500	3286.218	12.570	0.000	12.318	-0.000	4.699	0.000	0.000	12.678	12.259	50.514	MWD+IFR1+MS
3400.000	9.623	118.500	3384.811	12.911	0.000	12.663	-0.000	4.831	0.000	0.000	13.022	12.595	51.867	MWD+IFR1+MS
3500.000	9.623	118.500	3483.403	13.258	0.000	13.013	-0.000	4.967	0.000	0.000	13.373	12.937	53.096	MWD+IFR1+MS
3600.000	9.623	118.500	3581.996	13.604	0.000	13.362	-0.000	5.105	0.000	0.000	13.723	13.277	54.211	MWD+IFR1+MS
3700.000	9.623	118.500	3680.589	13.953	0.000	13.713	-0.000	5.245	0.000	0.000	14.075	13.620	55.223	MWD+IFR1+MS
3800.000	9.623	118.500	3779.181	14.301	0.000	14.065	-0.000	5.389	0.000	0.000	14.428	13.962	56.343	MWD+IFR1+MS
3900.000	9.623	118.500	3877.774	14.650	0.000	14.416	-0.000	5.534	0.000	0.000	14.781	14.305	57.167	MWD+IFR1+MS
4000.000	9.623	118.500	3976.367	15.005	0.000	14.772	-0.000	5.683	0.000	0.000	15.139	14.653	57.916	MWD+IFR1+MS
4100.000	9.623	118.500	4074.960	15.359	0.000	15.126	-0.000	5.834	0.000	0.000	15.495	15.000	58.596	MWD+IFR1+MS
4200.000	9.623	118.500	4173.552	15.712	0.000	15.479	-0.000	5.988	0.000	0.000	15.850	15.345	59.218	MWD+IFR1+MS
4300.000	9.623	118.500	4272.145	16.069	0.000	15.836	-0.000	6.145	0.000	0.000	16.210	15.695	59.783	MWD+IFR1+MS
4400.000	9.623	118.500	4370.738	16.425	0.000	16.191	-0.000	6.304	0.000	0.000	16.568	16.044	60.299	MWD+IFR1+MS
4500.000	9.623	118.500	4469.330	16.782	0.000	16.548	-0.000	6.465	0.000	0.000	16.927	16.394	60.772	MWD+IFR1+MS
4600.000	9.623	118.500	4567.923	17.139	0.000	16.905	-0.000	6.629	0.000	0.000	17.288	16.743	61.335	MWD+IFR1+MS
4700.000	9.623	118.500	4666.516	17.500	0.000	17.264	-0.000	6.796	0.000	0.000	17.650	17.096	61.724	MWD+IFR1+MS
4800.000	9.623	118.500	4765.109	17.859	0.000	17.622	-0.000	6.966	0.000	0.000	18.010	17.448	62.082	MWD+IFR1+MS
4900.000	9.623	118.500	4863.701	18.220	0.000	17.981	-0.000	7.138	0.000	0.000	18.372	17.801	62.409	MWD+IFR1+MS
5000.000	9.623	118.500	4962.294	18.581	0.000	18.340	-0.000	7.312	0.000	0.000	18.735	18.155	62.710	MWD+IFR1+MS
5100.000	9.623	118.500	5060.887	18.944	0.000	18.701	-0.000	7.489	0.000	0.000	19.099	18.510	62.986	MWD+IFR1+MS
5200.000	9.623	118.500	5159.479	19.306	0.000	19.060	-0.000	7.668	0.000	0.000	19.461	18.864	63.239	MWD+IFR1+MS
5300.000	9.623	118.500	5258.072	19.669	0.000	19.420	-0.000	7.850	0.000	0.000	19.825	19.219	63.472	MWD+IFR1+MS
5400.000	9.623	118.500	5356.665	20.033	0.000	19.781	-0.000	8.035	0.000	0.000	20.189	19.576	63.687	MWD+IFR1+MS
5500.000	9.623	118.500	5455.258	20.398	0.000	20.143	-0.000	8.222	0.000	0.000	20.554	19.933	63.883	MWD+IFR1+MS
5566.700	9.623	118.500	5521.077	20.638	0.000	20.382	-0.000	8.348	0.000	0.000	20.792	20.171	63.922	MWD+IFR1+MS
5600.000	8.958	118.500	5553.882	20.769	0.000	20.499	-0.000	8.411	0.000	0.000	20.908	20.289	63.867	MWD+IFR1+MS
5700.000	6.958	118.500	5652.913	21.201	0.000	20.855	-0.000	8.605	0.000	0.000	21.308	20.651	62.116	MWD+IFR1+MS
5800.000	4.958	118.500	5752.368	21.676	0.000	21.213	-0.000	8.801	0.000	0.000	21.772	21.016	58.925	MWD+IFR1+MS
5900.000	2.958	118.500	5852.124	22.117	0.000	21.566	-0.000	8.993	0.000	0.000	22.231	21.373	56.646	MWD+IFR1+MS
6000.000	0.959	118.500	5952.061	22.529	0.000	21.918	-0.000	9.184	0.000	0.000	22.685	21.725	54.863	MWD+IFR1+MS
6047.900	0.000	0.000	6000.000	22.530	0.000	22.213	0.000	9.276	0.000	0.000	22.844	21.890	54.714	MWD+IFR1+MS
6100.000	0.000	0.000	6052.059	22.702	0.000	22.383	0.000	9.374	0.000	0.000	23.011	22.066	54.877	MWD+IFR1+MS
6200.000	0.000	0.000	6152.059	23.030	0.000	22.718	0.000	9.567	0.000	0.000	23.330	22.410	54.932	MWD+IFR1+MS
6300.000	0.000	0.000	6252.059	23.365	0.000	23.054	0.000	9.762	0.000	0.000	23.651	22.760	55.186	MWD+IFR1+MS
6400.000	0.000	0.000	6352.059	23.698	0.000	23.392	0.000	9.960	0.000	0.000	23.973	23.111	55.387	MWD+IFR1+MS

6500.000	0.000	0.000	6452.059	24.033	0.000	23.732	0.000	10.159	0.000	0.000	24.296	23.462	55.596	MWD+IFR1+MS
6600.000	0.000	0.000	6552.059	24.368	0.000	24.071	0.000	10.363	0.000	0.000	24.620	23.813	55.814	MWD+IFR1+MS
6700.000	0.000	0.000	6652.059	24.704	0.000	24.411	0.000	10.569	0.000	0.000	24.945	24.165	56.034	MWD+IFR1+MS
6800.000	0.000	0.000	6752.059	25.042	0.000	24.751	0.000	10.780	0.000	0.000	25.272	24.516	56.339	MWD+IFR1+MS
6900.000	0.000	0.000	6852.059	25.379	0.000	25.092	0.000	10.995	0.000	0.000	25.598	24.868	56.585	MWD+IFR1+MS
7000.000	0.000	0.000	6952.059	25.716	0.000	25.434	0.000	11.212	0.000	0.000	25.926	25.220	56.762	MWD+IFR1+MS
7100.000	0.000	0.000	7052.059	26.056	0.000	25.776	0.000	11.428	0.000	0.000	26.255	25.573	57.101	MWD+IFR1+MS
7200.000	0.000	0.000	7152.059	26.395	0.000	26.119	0.000	11.649	0.000	0.000	26.585	25.926	57.379	MWD+IFR1+MS
7300.000	0.000	0.000	7252.059	26.734	0.000	26.461	0.000	11.874	0.000	0.000	26.914	26.278	57.670	MWD+IFR1+MS
7400.000	0.000	0.000	7352.059	27.074	0.000	26.805	0.000	12.104	0.000	0.000	27.246	26.630	57.966	MWD+IFR1+MS
7500.000	0.000	0.000	7452.059	27.414	0.000	27.148	0.000	12.333	0.000	0.000	27.576	26.982	58.283	MWD+IFR1+MS
7600.000	0.000	0.000	7552.059	27.754	0.000	27.492	0.000	12.566	0.000	0.000	27.909	27.335	58.614	MWD+IFR1+MS
7700.000	0.000	0.000	7652.059	28.096	0.000	27.835	0.000	12.802	0.000	0.000	28.242	27.687	59.043	MWD+IFR1+MS
7800.000	0.000	0.000	7752.059	28.438	0.000	28.180	0.000	13.042	0.000	0.000	28.575	28.040	59.399	MWD+IFR1+MS
7900.000	0.000	0.000	7852.059	28.780	0.000	28.525	0.000	13.285	0.000	0.000	28.910	28.394	59.781	MWD+IFR1+MS
8000.000	0.000	0.000	7952.059	29.122	0.000	28.870	0.000	13.531	0.000	0.000	29.245	28.746	60.182	MWD+IFR1+MS
8100.000	0.000	0.000	8052.059	29.465	0.000	29.216	0.000	13.780	0.000	0.000	29.580	29.100	60.593	MWD+IFR1+MS
8200.000	0.000	0.000	8152.059	29.809	0.000	29.562	0.000	14.032	0.000	0.000	29.917	29.453	61.124	MWD+IFR1+MS
8300.000	0.000	0.000	8252.059	30.153	0.000	29.908	0.000	14.286	0.000	0.000	30.254	29.806	61.591	MWD+IFR1+MS
8400.000	0.000	0.000	8352.059	30.498	0.000	30.256	0.000	14.543	0.000	0.000	30.591	30.161	62.082	MWD+IFR1+MS
8500.000	0.000	0.000	8452.059	30.842	0.000	30.602	0.000	14.802	0.000	0.000	30.929	30.514	62.586	MWD+IFR1+MS
8600.000	0.000	0.000	8552.059	31.187	0.000	30.948	0.000	15.067	0.000	0.000	31.267	30.867	63.223	MWD+IFR1+MS
8700.000	0.000	0.000	8652.059	31.531	0.000	31.297	0.000	15.333	0.000	0.000	31.606	31.221	63.695	MWD+IFR1+MS
8800.000	0.000	0.000	8752.059	31.875	0.000	31.639	0.000	15.601	0.000	0.000	31.943	31.569	64.579	MWD+IFR1+MS
8900.000	0.000	0.000	8852.059	32.218	0.000	31.984	0.000	15.871	0.000	0.000	32.281	31.921	65.217	MWD+IFR1+MS
9000.000	0.000	0.000	8952.059	32.558	0.000	32.326	0.000	16.149	0.000	0.000	32.615	32.268	65.889	MWD+IFR1+MS
9100.000	0.000	0.000	9052.059	32.909	0.000	32.680	0.000	16.426	0.000	0.000	32.961	32.627	66.598	MWD+IFR1+MS
9124.900	0.000	0.000	9077.000	32.985	0.000	32.772	0.000	16.495	0.000	0.000	33.039	32.717	65.650	MWD+IFR1+MS
9200.000	7.505	179.900	9151.844	33.296	0.000	33.015	-0.000	16.712	0.000	0.000	33.424	32.983	74.287	MWD+IFR1+MS
9300.000	17.500	179.900	9249.348	34.366	0.000	33.362	-0.000	17.144	0.000	0.000	35.143	33.361	88.752	MWD+IFR1+MS
9400.000	27.500	179.900	9341.615	35.120	0.000	33.675	-0.000	17.956	0.000	0.000	37.041	33.674	90.822	MWD+IFR1+MS
9500.000	37.500	179.900	9425.841	35.150	0.000	34.000	-0.000	19.222	0.000	0.000	38.565	33.996	91.540	MWD+IFR1+MS
9600.000	47.500	179.900	9499.469	34.590	0.000	34.279	-0.000	20.943	0.000	0.000	39.705	34.271	91.966	MWD+IFR1+MS
9700.000	57.500	179.900	9560.259	33.626	0.000	34.541	-0.000	23.028	0.000	0.000	40.494	34.529	92.314	MWD+IFR1+MS
9800.000	67.500	179.900	9606.367	32.485	0.000	34.772	-0.000	25.357	0.000	0.000	40.951	34.756	92.656	MWD+IFR1+MS
9900.000	77.500	179.900	9636.389	31.455	0.000	34.958	-0.000	27.788	0.000	0.000	41.174	34.939	92.995	MWD+IFR1+MS
10000.000	87.500	179.900	9649.415	30.829	0.000	35.115	-0.000	30.188	0.000	0.000	41.238	35.092	93.327	MWD+IFR1+MS
10024.000	90.000	179.900	9649.958	30.270	0.000	35.144	-0.000	30.270	0.000	0.000	41.239	35.119	93.398	MWD+IFR1+MS
10100.000	90.000	179.900	9649.958	30.386	0.000	35.229	-0.000	30.386	0.000	0.000	41.253	35.202	93.613	MWD+IFR1+MS
10200.000	90.000	179.900	9649.958	30.525	0.000	35.357	-0.000	30.525	0.000	0.000	41.257	35.325	93.927	MWD+IFR1+MS
10300.000	89.990	179.900	9649.958	30.688	0.000	35.498	-0.000	30.686	0.000	0.000	41.273	35.462	94.252	MWD+IFR1+MS
10400.000	89.990	179.900	9649.958	30.868	0.000	35.667	-0.000	30.866	0.000	0.000	41.289	35.626	94.610	MWD+IFR1+MS
10500.000	89.990	179.900	9649.958	31.067	0.000	35.835	-0.000	31.064	0.000	0.000	41.306	35.788	94.985	MWD+IFR1+MS
10600.000	89.990	179.900	9649.958	31.285	0.000	36.016	-0.000	31.283	0.000	0.000	41.324	35.963	95.392	MWD+IFR1+MS
10700.000	89.990	179.900	9649.958	31.521	0.000	36.196	-0.000	31.518	0.000	0.000	41.342	36.137	95.822	MWD+IFR1+MS
10800.000	89.990	179.900	9649.958	31.767	0.000	36.403	-0.000	31.765	0.000	0.000	41.361	36.336	96.307	MWD+IFR1+MS
10900.000	89.990	179.900	9649.959	32.034	0.000	36.622	-0.000	32.031	0.000	0.000	41.392	36.547	96.826	MWD+IFR1+MS
11000.000	89.990	179.900	9649.959	32.329	0.000	36.840	-0.000	32.326	0.000	0.000	41.413	36.755	97.400	MWD+IFR1+MS
11100.000	89.990	179.900	9649.959	32.621	0.000	37.070	-0.000	32.619	0.000	0.000	41.435	36.975	98.042	MWD+IFR1+MS
11200.000	89.990	179.900	9649.959	32.942	0.000	37.325	-0.000	32.939	0.000	0.000	41.470	37.219	98.765	MWD+IFR1+MS
11300.000	89.990	179.900	9649.959	33.274	0.000	37.579	-0.000	33.272	0.000	0.000	41.495	37.459	99.585	MWD+IFR1+MS
11400.000	89.990	179.900	9649.959	33.633	0.000	37.844	-0.000	33.630	0.000	0.000	41.534	37.709	100.490	MWD+IFR1+MS

11500.000	89.990	179.900	9649.960	33.988	0.000	38.121	-0.000	33.985	0.000	0.000	41.575	37.968	101.531	MWD+IFR1+MS
11600.000	89.990	179.900	9649.960	34.368	0.000	38.408	-0.000	34.366	0.000	0.000	41.608	38.234	102.786	MWD+IFR1+MS
11700.000	89.990	179.900	9649.960	34.758	0.000	38.694	-0.000	34.756	0.000	0.000	41.655	38.495	104.159	MWD+IFR1+MS
11800.000	89.990	179.900	9649.960	35.173	0.000	39.003	-0.000	35.171	0.000	0.000	41.709	38.774	105.842	MWD+IFR1+MS
11900.000	89.990	179.900	9649.961	35.583	0.000	39.309	-0.000	35.581	0.000	0.000	41.767	39.045	107.778	MWD+IFR1+MS
12000.000	89.990	179.900	9649.961	36.016	0.000	39.639	-0.000	36.014	0.000	0.000	41.836	39.329	110.192	MWD+IFR1+MS
12100.000	89.990	179.900	9649.961	36.458	0.000	39.965	-0.000	36.455	0.000	0.000	41.914	39.600	113.009	MWD+IFR1+MS
12200.000	89.990	179.900	9649.962	36.907	0.000	40.302	-0.000	36.905	0.000	0.000	42.008	39.867	116.399	MWD+IFR1+MS
12300.000	89.990	179.900	9649.962	37.379	0.000	40.648	-0.000	37.376	0.000	0.000	42.121	40.123	120.434	MWD+IFR1+MS
12400.000	89.990	179.900	9649.962	37.857	0.000	41.003	-0.000	37.855	0.000	0.000	42.267	40.367	124.942	MWD+IFR1+MS
12500.000	89.990	179.900	9649.963	38.343	0.000	41.367	-0.000	38.341	0.000	0.000	42.436	40.586	130.127	MWD+IFR1+MS
12600.000	89.990	179.900	9649.963	38.835	0.000	41.741	-0.000	38.833	0.000	0.000	42.640	40.778	-44.447	MWD+IFR1+MS
12700.000	89.990	179.900	9649.964	39.334	0.000	42.110	-0.000	39.332	0.000	0.000	42.879	40.944	-39.490	MWD+IFR1+MS
12800.000	89.990	179.900	9649.964	39.852	0.000	42.500	-0.000	39.850	0.000	0.000	43.154	41.082	-34.593	MWD+IFR1+MS
12900.000	89.990	179.900	9649.964	40.375	0.000	42.887	-0.000	40.373	0.000	0.000	43.455	41.203	-30.578	MWD+IFR1+MS
13000.000	89.990	179.900	9649.965	40.904	0.000	43.282	-0.000	40.902	0.000	0.000	43.781	41.306	-27.133	MWD+IFR1+MS
13100.000	89.990	179.900	9649.965	41.439	0.000	43.696	-0.000	41.437	0.000	0.000	44.136	41.388	-24.044	MWD+IFR1+MS
13200.000	89.990	179.900	9649.966	41.990	0.000	44.106	-0.000	41.988	0.000	0.000	44.502	41.467	-21.633	MWD+IFR1+MS
13300.000	89.990	179.900	9649.966	42.546	0.000	44.523	-0.000	42.544	0.000	0.000	44.884	41.538	-19.607	MWD+IFR1+MS
13400.000	89.990	179.900	9649.967	43.106	0.000	44.937	-0.000	43.105	0.000	0.000	45.269	41.602	-17.947	MWD+IFR1+MS
13500.000	89.990	179.800	9649.967	43.671	0.000	45.372	-0.000	43.669	0.000	0.000	45.675	41.663	-16.483	MWD+IFR1+MS
13600.000	89.990	179.800	9649.968	44.240	0.000	45.811	-0.000	44.238	0.000	0.000	46.092	41.719	-15.227	MWD+IFR1+MS
13700.000	89.990	179.800	9649.969	44.824	0.000	46.246	-0.000	44.822	0.000	0.000	46.509	41.772	-14.176	MWD+IFR1+MS
13800.000	89.990	179.800	9649.969	45.411	0.000	46.698	-0.000	45.409	0.000	0.000	46.945	41.835	-13.249	MWD+IFR1+MS
13900.000	89.990	179.800	9649.970	46.002	0.000	47.146	-0.000	46.000	0.000	0.000	47.379	41.884	-12.441	MWD+IFR1+MS
14000.000	89.990	179.800	9649.970	46.606	0.000	47.600	-0.000	46.605	0.000	0.000	47.821	41.930	-11.726	MWD+IFR1+MS
14100.000	89.990	179.800	9649.971	47.203	0.000	48.060	-0.000	47.202	0.000	0.000	48.271	41.988	-11.107	MWD+IFR1+MS
14200.000	89.990	179.800	9649.972	47.814	0.000	48.526	-0.000	47.812	0.000	0.000	48.727	42.032	-10.533	MWD+IFR1+MS
14300.000	89.990	179.800	9649.972	48.427	0.000	48.998	-0.000	48.425	0.000	0.000	49.190	42.087	-10.031	MWD+IFR1+MS
14400.000	89.990	179.800	9649.973	49.053	0.000	49.475	-0.000	49.051	0.000	0.000	49.660	42.141	-9.575	MWD+IFR1+MS
14500.000	89.990	179.800	9649.974	49.670	0.000	49.948	-0.000	49.669	0.000	0.000	50.126	42.183	-9.158	MWD+IFR1+MS
14600.000	89.990	179.800	9649.974	50.301	0.000	50.436	-0.000	50.299	0.000	0.000	50.607	42.236	-8.777	MWD+IFR1+MS
14700.000	89.990	179.800	9649.975	50.933	0.000	50.920	-0.000	50.931	0.000	0.000	51.085	42.289	-8.436	MWD+IFR1+MS
14800.000	89.990	179.800	9649.976	51.567	0.000	51.409	-0.000	51.565	0.000	0.000	51.568	42.340	-8.122	MWD+IFR1+MS
14900.000	89.990	179.800	9649.977	52.213	0.000	51.912	-0.000	52.211	0.000	0.000	52.067	42.392	-7.821	MWD+IFR1+MS
15000.000	89.990	179.800	9649.977	52.860	0.000	52.411	-0.000	52.858	0.000	0.000	52.560	42.443	-7.550	MWD+IFR1+MS
15100.000	89.990	179.800	9649.978	53.508	0.000	52.914	-0.000	53.507	0.000	0.000	53.060	42.493	-7.303	MWD+IFR1+MS
15200.000	89.990	179.800	9649.979	54.159	0.000	53.412	-0.000	54.157	0.000	0.000	53.554	42.544	-7.073	MWD+IFR1+MS
15300.000	89.990	179.800	9649.980	54.810	0.000	53.925	-0.000	54.809	0.000	0.000	54.063	42.594	-6.851	MWD+IFR1+MS
15400.000	89.990	179.800	9649.981	55.472	0.000	54.442	-0.000	55.471	0.000	0.000	54.576	42.655	-6.649	MWD+IFR1+MS
15500.000	89.990	179.800	9649.982	56.135	0.000	54.954	-0.000	56.134	0.000	0.000	55.085	42.704	-6.463	MWD+IFR1+MS
15600.000	89.990	179.800	9649.982	56.799	0.000	55.479	-0.000	56.798	0.000	0.000	55.607	42.765	-6.282	MWD+IFR1+MS
15700.000	89.990	179.800	9649.983	57.464	0.000	56.000	-0.000	57.463	0.000	0.000	56.124	42.814	-6.116	MWD+IFR1+MS
15800.000	89.990	179.800	9649.984	58.139	0.000	56.524	-0.000	58.138	0.000	0.000	56.646	42.875	-5.958	MWD+IFR1+MS
15900.000	89.990	179.800	9649.985	58.815	0.000	57.052	-0.000	58.813	0.000	0.000	57.172	42.923	-5.809	MWD+IFR1+MS
16000.000	89.990	179.800	9649.986	59.491	0.000	57.585	-0.000	59.489	0.000	0.000	57.701	42.983	-5.666	MWD+IFR1+MS
16100.000	89.990	179.800	9649.987	60.168	0.000	58.121	-0.000	60.166	0.000	0.000	58.235	43.043	-5.534	MWD+IFR1+MS
16200.000	89.990	179.800	9649.988	60.854	0.000	58.660	-0.000	60.852	0.000	0.000	58.772	43.103	-5.405	MWD+IFR1+MS
16300.000	89.990	179.800	9649.989	61.532	0.000	59.195	-0.000	61.530	0.000	0.000	59.305	43.162	-5.288	MWD+IFR1+MS
16400.000	89.990	179.800	9649.990	62.219	0.000	59.742	-0.000	62.217	0.000	0.000	59.849	43.221	-5.173	MWD+IFR1+MS
16500.000	89.990	179.800	9649.991	62.914	0.000	60.283	-0.000	62.913	0.000	0.000	60.389	43.280	-5.063	MWD+IFR1+MS
16600.000	89.990	179.800	9649.992	63.602	0.000	60.828	-0.000	63.600	0.000	0.000	60.932	43.339	-4.960	MWD+IFR1+MS

16700.000	89.990	179.800	9649.993	64.297	0.000	61.385	-0.000	64.296	0.000	0.000	61.487	43.398	-4.858	MWD+IFR1+MS
16800.000	89.990	179.800	9649.994	64.994	0.000	61.936	-0.000	64.992	0.000	0.000	62.036	43.468	-4.766	MWD+IFR1+MS
16900.000	89.990	179.800	9649.995	65.690	0.000	62.491	-0.000	65.689	0.000	0.000	62.589	43.527	-4.674	MWD+IFR1+MS
17000.000	89.990	179.700	9649.996	66.386	0.000	63.053	-0.000	66.385	0.000	0.000	63.145	43.585	-4.586	MWD+IFR1+MS
17100.000	89.990	179.700	9649.997	67.091	0.000	63.606	-0.000	67.089	0.000	0.000	63.697	43.655	-4.506	MWD+IFR1+MS
17200.000	89.990	179.700	9649.998	67.795	0.000	64.170	-0.000	67.794	0.000	0.000	64.259	43.724	-4.426	MWD+IFR1+MS
17300.000	89.990	179.700	9650.000	68.499	0.000	64.728	-0.000	68.498	0.000	0.000	64.816	43.782	-4.348	MWD+IFR1+MS
17337.000	89.990	179.700	9650.000	68.762	0.000	64.944	-0.000	68.760	0.000	0.000	65.032	43.805	-4.319	MWD+IFR1+MS

Plan Targets	PLU 26 Brushy Draw 156H				
	Measured Depth	**Grid Northing**	**Grid Easting**	**TVD MSL**	**Target Shape**
Target Name	**(ft)**	**(ft)**	**(ft)**	**(ft)**	
PLU 26 BD FTP 6	10024.07	400351.50	650585.10	6300.00	CIRCLE
PLU 26 BD LTP 6	17337.30	393039.21	650598.67	6300.00	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 nippled up and tested on the wellhead before drilling operations resume on each well.
    a. The larger rig will move back onto the location within 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

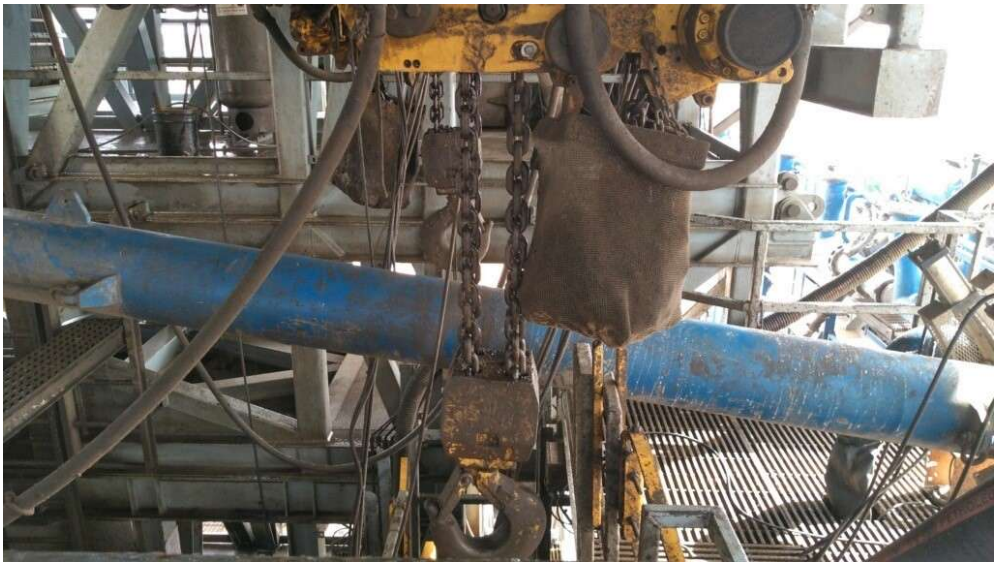


Figure 2: BOP Winch System

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.

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

Component to be Pressure Tested	Pressure Test—Low Pressure[ac] psig (MPa)	Pressure Test—High Pressure[ac]	
		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[bd]	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.

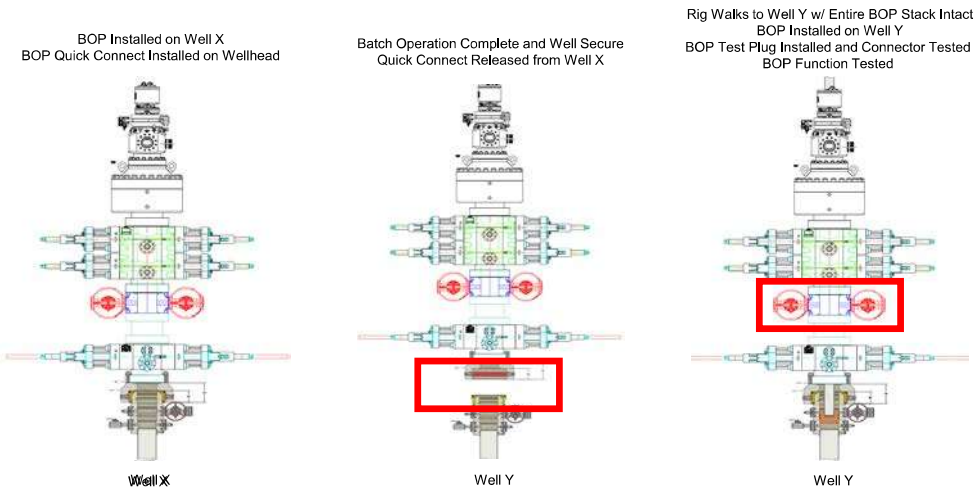
XTO Energy feels break testing and our current procedures meet the intent of OOGO No. 2 and often exceed it. There has been no evidence that break testing results in more components failing than seen on full BOP tests. XTO Energy's internal standards requires complete BOPE tests more often than that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

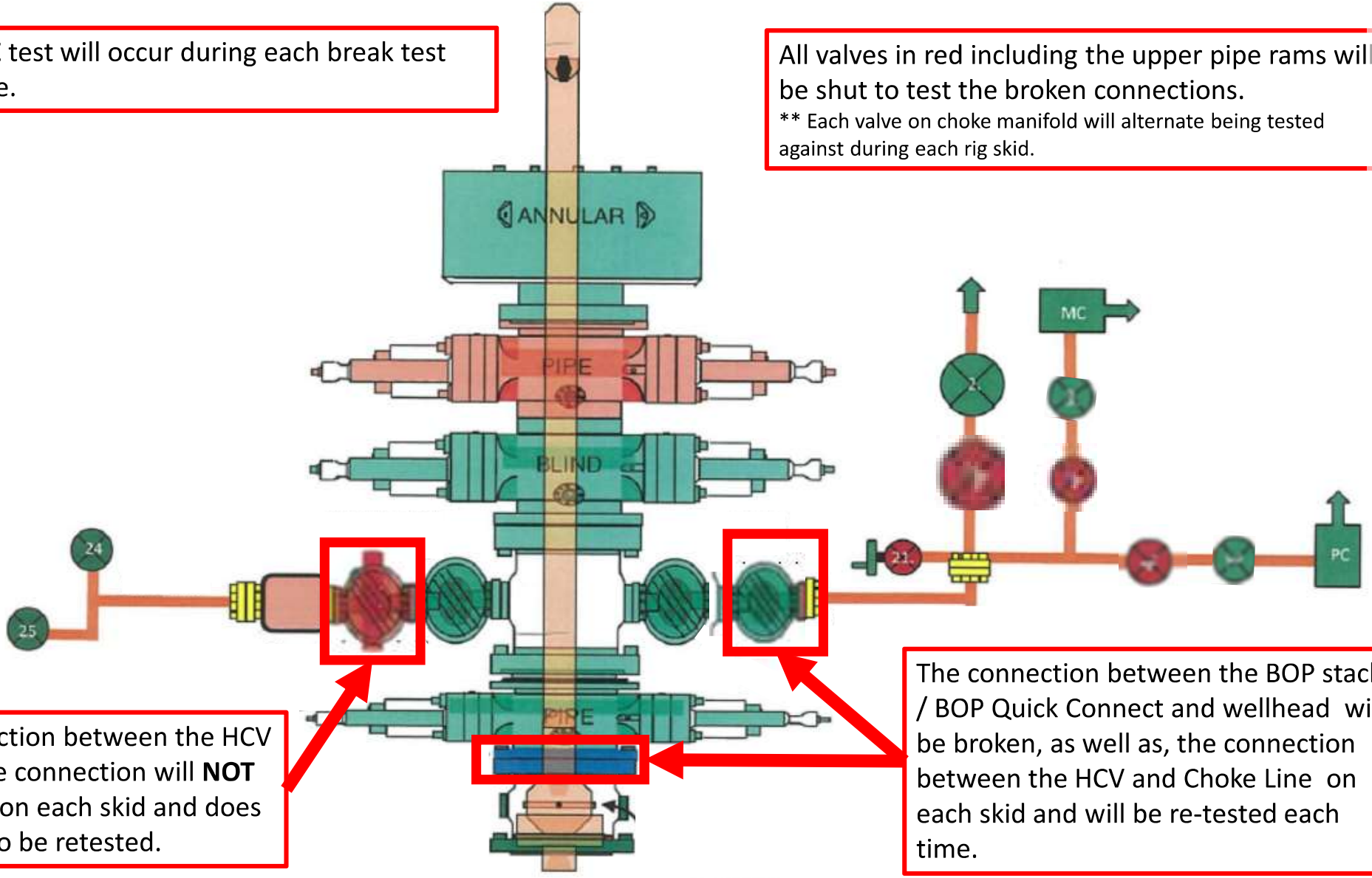
3. Full BOP test will be required if the intermediate hole section being drilled has a MASP over 5M.

4. Full BOP test will be required prior to drilling the production hole.

Only **ONE** test will occur during each break test procedure.

All valves in red including the upper pipe rams will be shut to test the broken connections.

** Each valve on choke manifold will alternate being tested against during each rig skid.



The connection between the HCV and kill line connection will **NOT** be broken on each skid and does not need to be retested.

The connection between the BOP stack / BOP Quick Connect and wellhead will be broken, as well as, the connection between the HCV and Choke Line on each skid and will be re-tested each time.

XTO Permian Operating, LLC Offline Cementing Variance Request

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

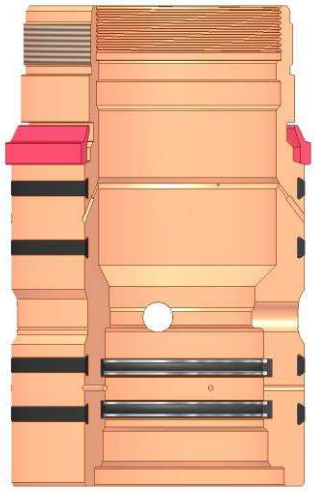
1. Cement Program

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

2. Offline Cementing Procedure

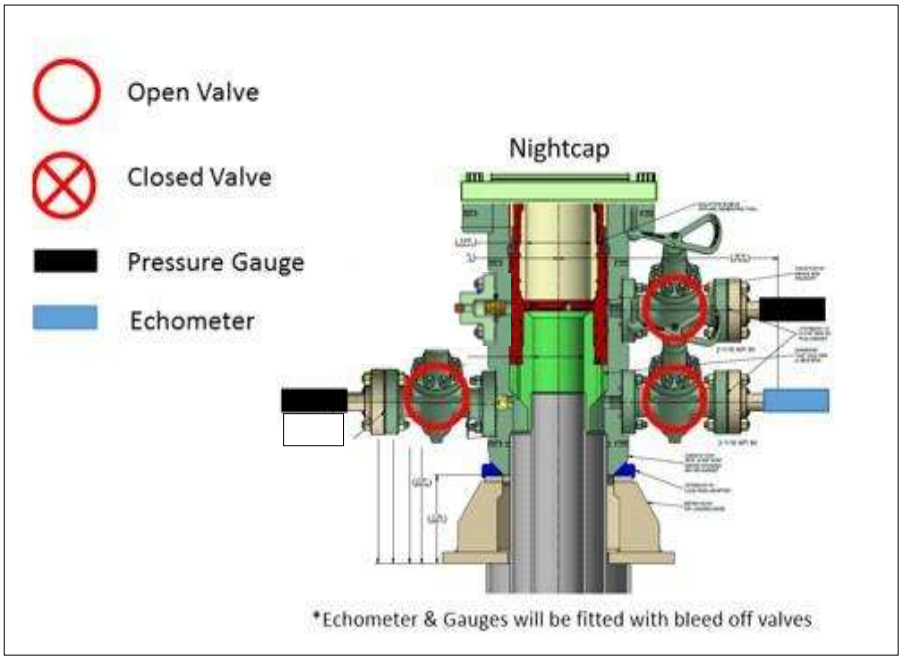
The operational sequence will be as follows. If a well control event occurs, the BLM will be contacted for approval prior to conducting offline cementing operations.

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



Annular packoff with both external and internal seals

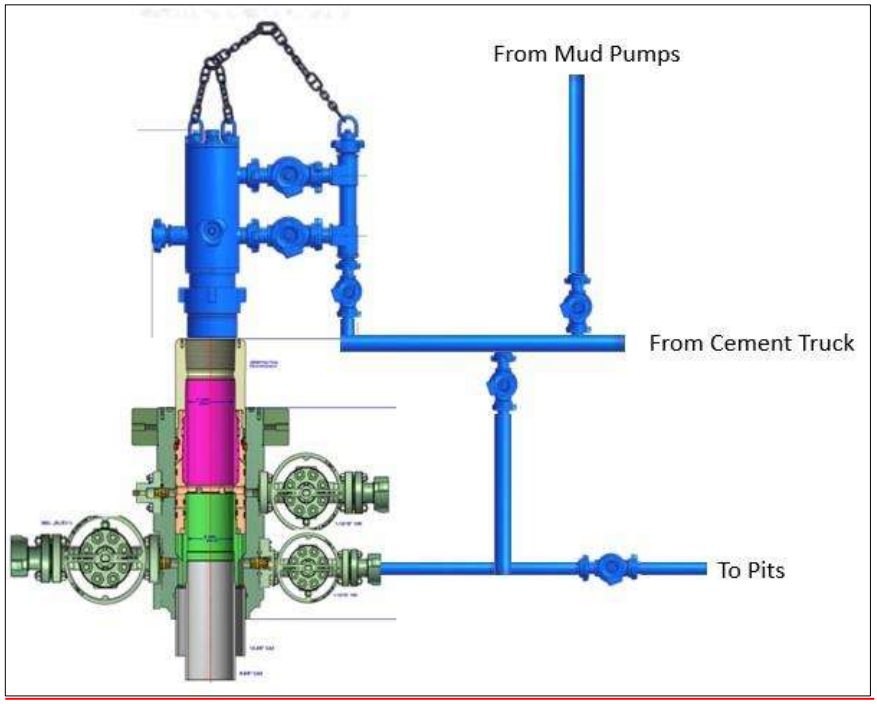
XTO Permian Operating, LLC Offline Cementing Variance Request



Wellhead diagram during skidding operations

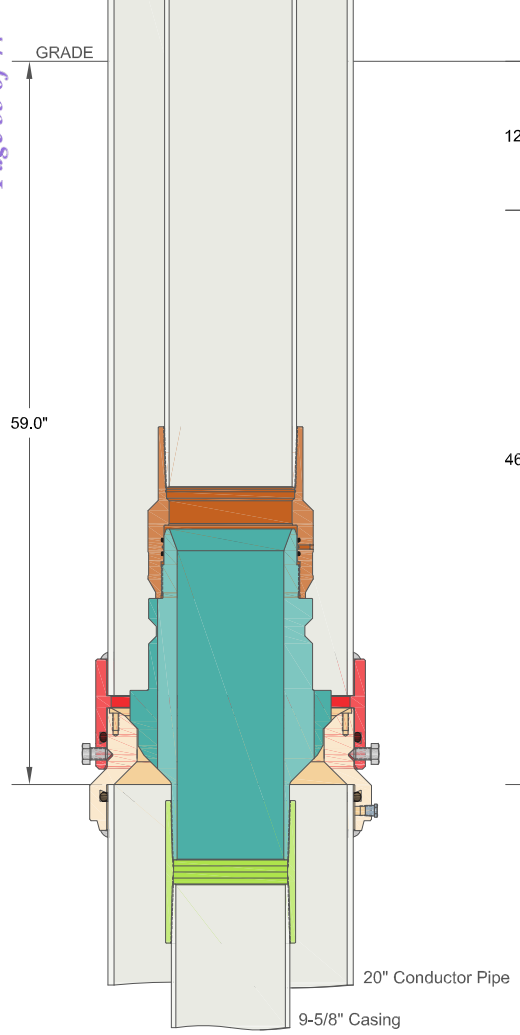
6. Skid rig to next well on pad.
7. Confirm well is static before removing cap flange, flange will not be removed and offline cementing operations will not commence until well is under control. If well is not static, casing outlet valves will provide access to both the casing ID and annulus. Rig or third party pump truck will kill well prior to cementing or nippling up for further remediation.
    a. Well Control Plan
        i. The Drillers Method will be the primary well control method to regain control of the wellbore prior to cementing, if wellbore conditions do not permit the drillers method other methods of well control may be used
        ii. Rig pumps or a 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

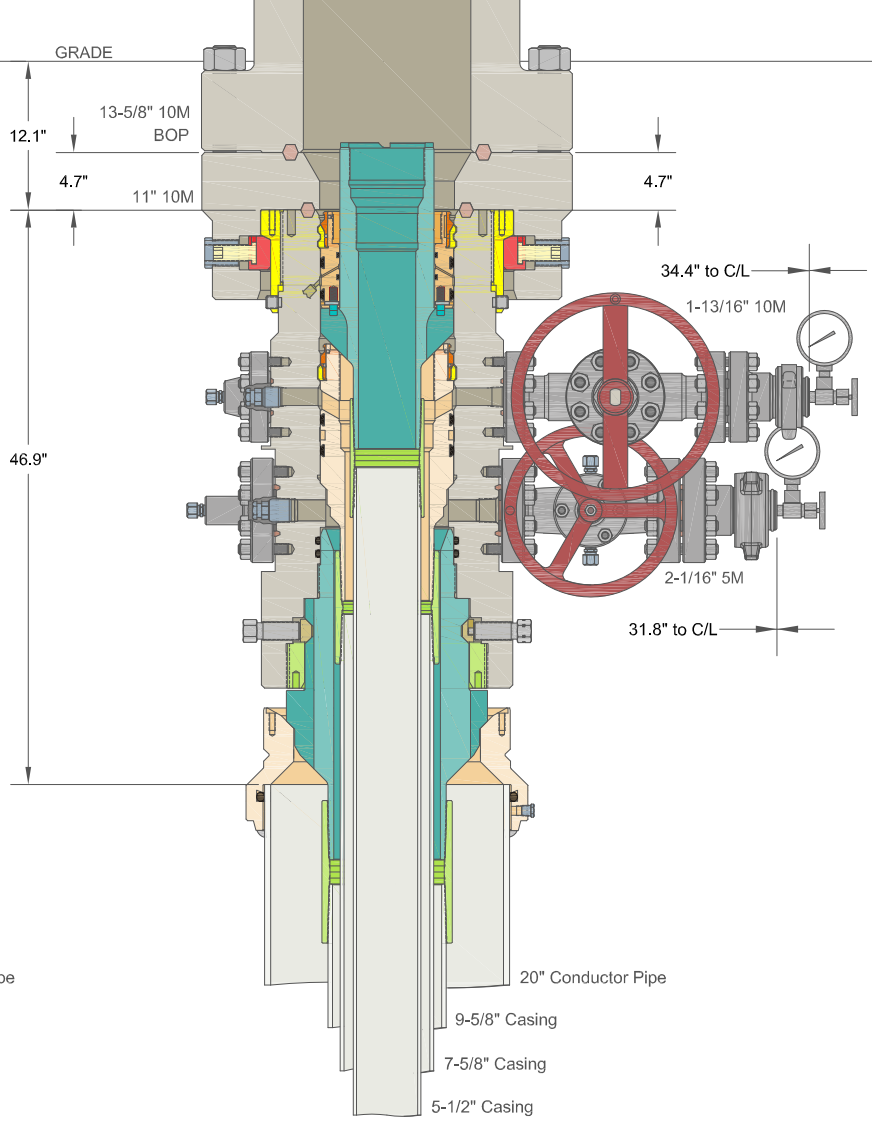
XTO Permian Operating, LLC Offline Cementing Variance Request

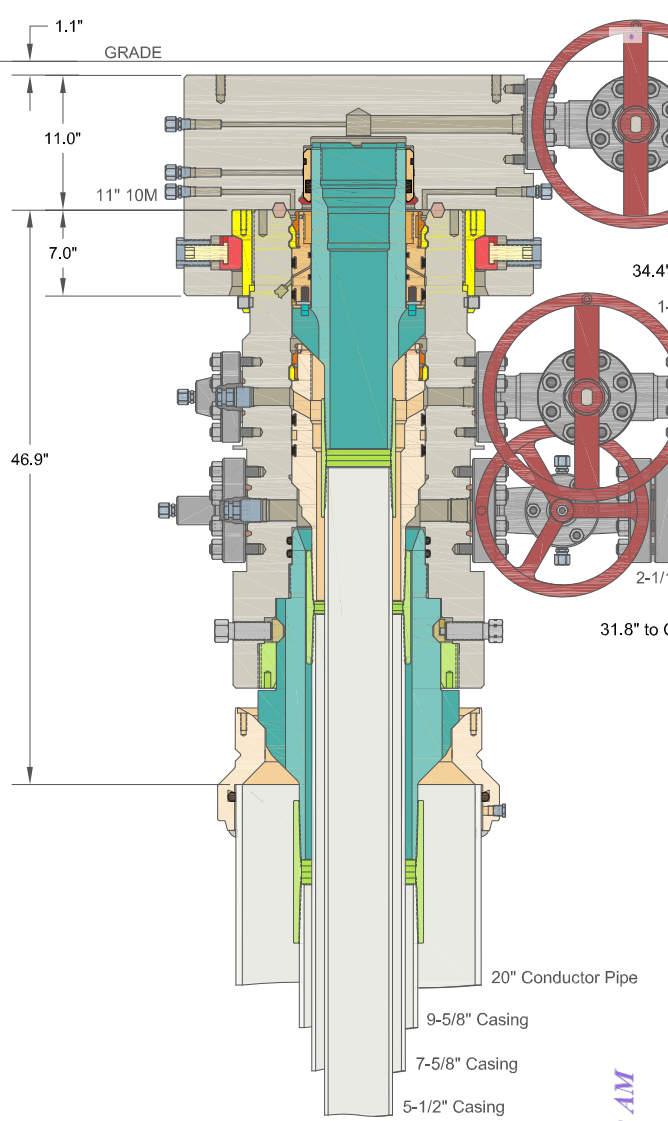


Wellhead diagram during offline cementing operations

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.

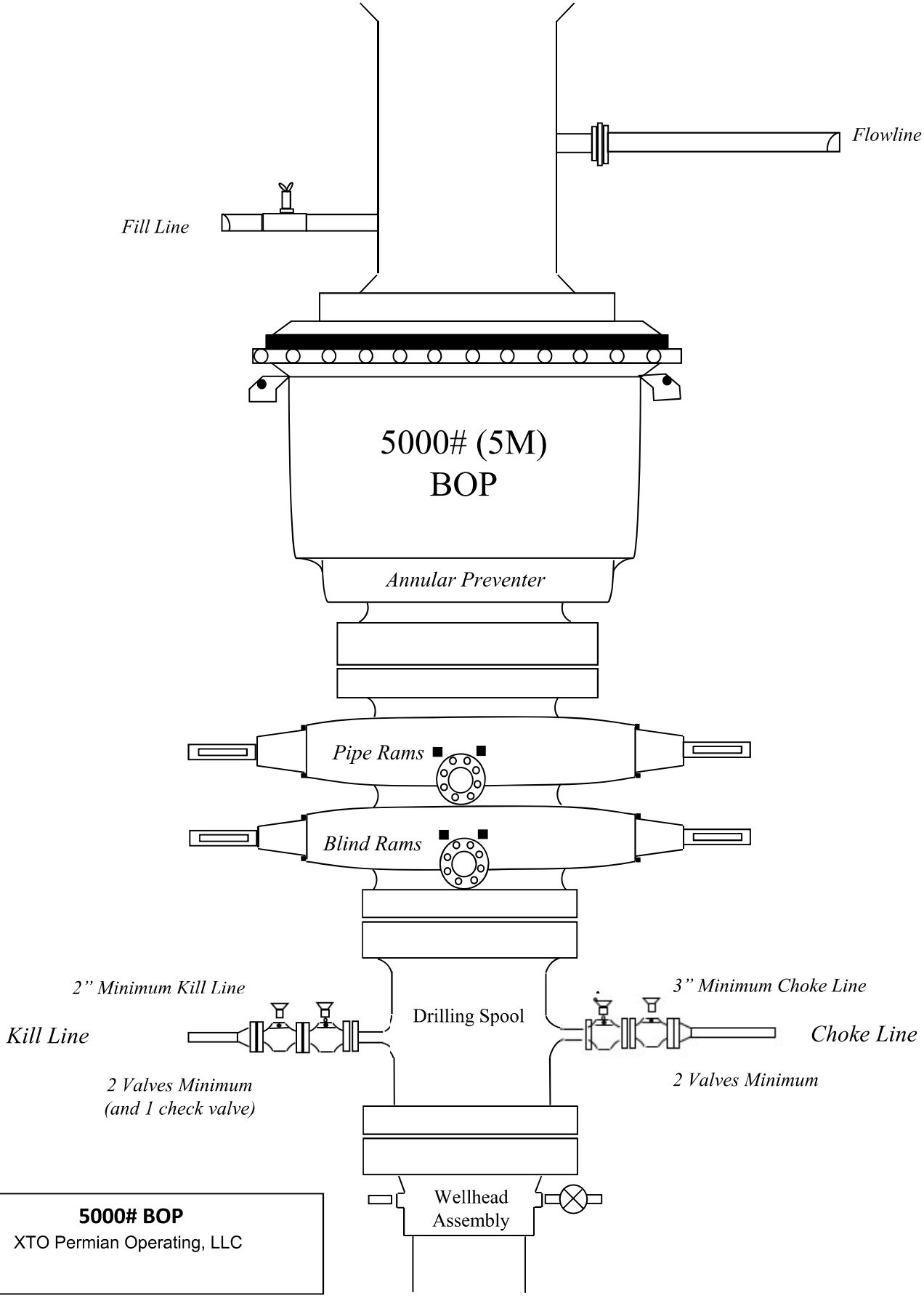




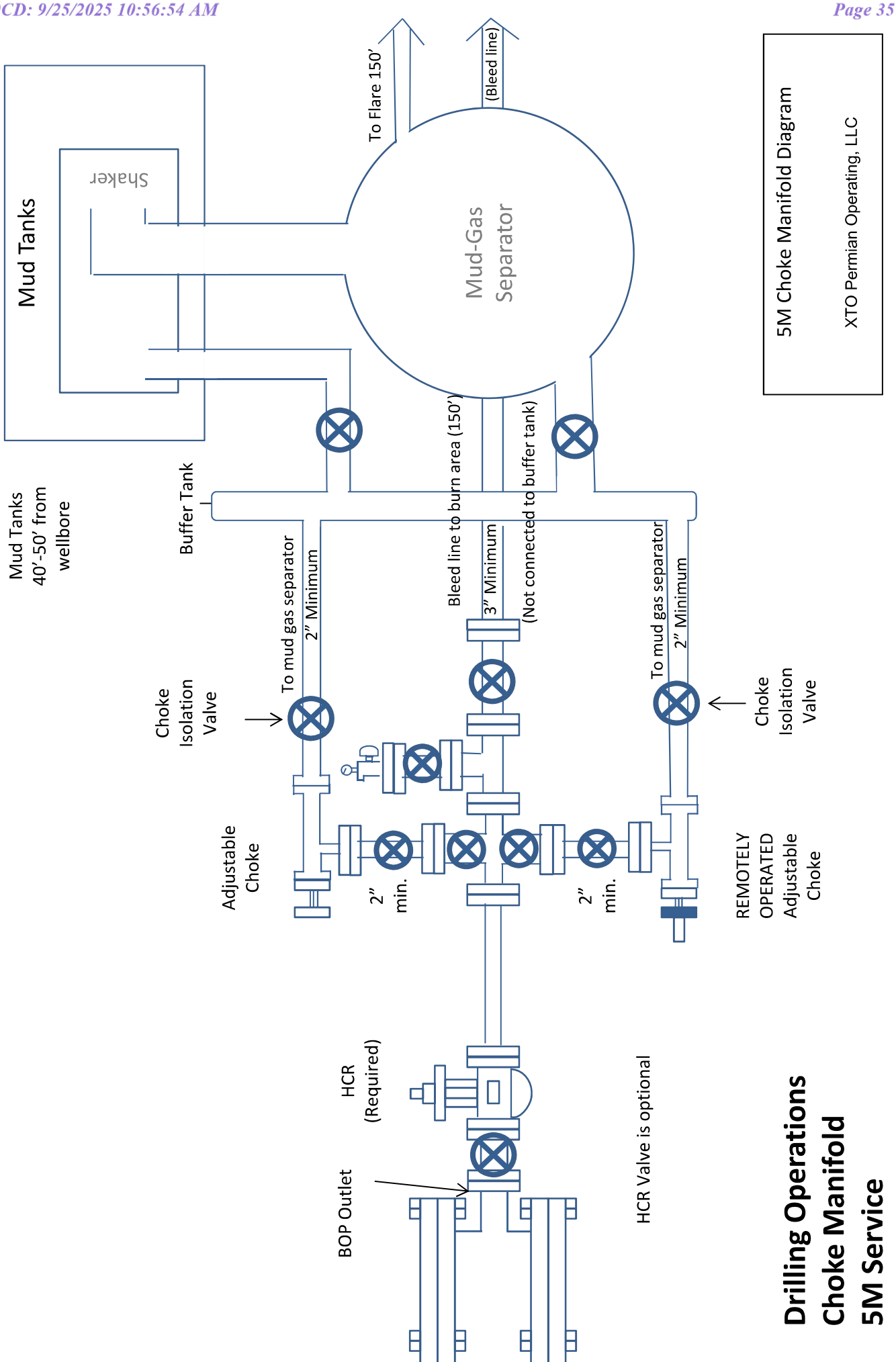


CACTUS W

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



5000# BOP
XTO Permian Operating, LLC


Mud Tanks
Shaker
To Flare 150'
(Bleed line)
Mud-Gas Separator
5M Choke Manifold Diagram
XTO Permian Operating, LLC
Mud Tanks 40'-50' from wellbore
Buffer Tank
Bleed line to burn area (150')
3" Minimum
(Not connected to buffer tank)
To mud gas separator
2" Minimum
Choke Isolation Valve
Adjustable Choke
2" min.
TD
REMOTELY OPERATED Adjustable Choke
HCR (Required)
BOP Outlet
HCR Valve is optional
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 156H**
SURFACE HOLE FOOTAGE:	**2280' FNL & 1845' FEL**
BOTTOM HOLE FOOTAGE	**0201' FSL & 1324' FEL Sec. 35, T.25 S., R.30 E.**
LOCATION:	**Section 26, 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

- Shelll 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 intergrity 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/ocd/contact-us

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

CONDITIONS

Operator:	OGRID:
XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	373075
	Action Number: 509391
	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