Well Number: 110H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMLC062140A

Unit or CA Name: POKER LAKE UNIT

Unit or CA Number: NMNM71016X

US Well Number:

Operator: XTO PERMIAN OPERATING LLC

Notice of Intent

Sundry ID: 2820800

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 11/05/2024

Time Sundry Submitted: 08:48

Date proposed operation will begin: 11/26/2024

Procedure Description: XTO Permian Operating, LLC. respectfully requests approval to make the following changes to the approved APD. Changes to include SHL, KOP, FTP, LTP, BHL, & Proposed total Depth. There will be no additional surface disturbance. FROM: TO: SHL: 2435' FNL & 720' FWL OF SECTION 28-T25S-R31E 2435’ FNL & 600’ FWL OF SECTION 28-T25S-R31E KOP: 2435' FNL & 600' FWL OF SECTION 28-T25S-R31E 2038’ FNL & 652’ FWL OF SECTION 29-T25S-R31E FTP: 2435' FNL & 1210' FWL OF SECTION 28-T25S-R31E 2553' FSL & 656' FEL OF SECTION 29-T25S-R31E LTP: 100' FSL & 1210' FWL OF SECTION 4-T26S-R31E 2559' FNL & 656' FEL OF SECTION 32-T25S-R31E BHL: 50' FSL & 1210' FWL OF SECTION 4-T26S-R31E 2649' FNL & 656' FWL OF SECTION 32-T25S-R31E The proposed total depth is changing from 23711’ MD; 9891’ TVD (Bone Spring) to 15932’ MD; 10157’ TVD (Bone Spring). A saturated salt brine will be utilized while drilling through the salt formations.

NOI Attachments

Procedure Description

PLU_28_BS____110H_Sundry_Documents_20241209103218.pdf

NMNM71016X

US Well Number:

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: TERRA SEBASTIAN

Signed on: DEC 11, 2024 09:16 AM

Name: XTO PERMIAN OPERATING LLC

Title: Regulatory Advisor

Street Address: 6401 HOLIDAY HILL ROAD SUITE 200

City: MIDLAND **State:** TX

Phone: (432) 999-3107

Email address: TERRA.B.SEBASTIAN@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: Approved

Disposition Date: 01/13/2025

Signature: Cody R. Layton

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. WYW36706

6. If Indian, Allottee or Tribe Name

7. If Unit of CA/Agreement, Name and/or No. WYW124702

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

8. Well Name and No. SAGEBRUSH FED/10-12

2. Name of Operator WRC ENERGY LLC

9. API Well No. 4900527597

3a. Address 1200 17TH STREET SUITE 2200, DENVER, CO

3b. Phone No. *(include area code)* (570) 439-8060

10. Field and Pool or Exploratory Area ZIMMERMAN BUTTE/ZIMMERMAN BUTTE

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)* SEC 12/T51N/R76W/6PM

11. Country or Parish, State CAMPBELL/WY

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.)

Please see attached Site Security Diagram for the subject well.

14. I hereby certify that the foregoing is true and correct. Name *(Printed/Typed)* KRIS LEE / Ph: (303) 659-9581

Title Owner - Elite Permitting LLC

Signature (Electronic Submission)

Date 01/13/2025

THE SPACE FOR FEDERAL OR STATE OFICE USE

Approved by ELIZABETH SCHROTH / Ph: (307) 684-1178 / Accepted

Title Legal Instrument Examiner

Date 01/13/2025

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 BUFFALO

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: LOT 2 / 752 FNL / 1618 FEL / TWSP: 51N / RANGE: 76W / SECTION: 12 / LAT: 44.414931 / LONG: -105.939077 (TVD: 0 feet, MD: 0 feet)

BHL: LOT 2 / 752 FNL / 1618 FEL / TWSP: 51N / RANGE: 2 / SECTION: / LAT: 0.0 / LONG: 0.0 (TVD: 0 feet, MD: 0 feet)

☐ As Drilled

APD ID: 10400094957

WELL LOCATION INFORMATION

API Number	Pool Code	Pool Name	
30-015	97860	Jennings, Bone Springs, west	
Property Code	**Property Name**		**Well Number**
	POKER LAKE UNIT 28 BS		110H
ORGID No.	**Operator Name**		**Ground Level Elevation**
373075	XTO PERMIAN OPERATING, LLC.		3,329'

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
E	28	25 S	31 E		2,435' FNL	600' FWL	32.101876	-103.789793	EDDY

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
H	32	25 S	31 E		2,649' FNL	656' FEL	32.086700	-103.793920	EDDY

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
880	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	29	25 S	31 E		2,038' FNL	652' FWL	32.102966	-103.793833	EDDY

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
I	29	25 S	31 E		2,553' FSL	656' FEL	32.100997	-103.793844	EDDY

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
H	32	25 S	31 E		2,559' FNL	656' FEL	32.086947	-103.793920	EDDY

Unitized Area or Area of Uniform Interest	Spacing Unit Type	Ground Floor Elevation:
NMNM-071016X	☒ Horizontal ☐ Vertical	3,329'

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.

Terra Sebastian 11/5/2024

Signature Date

Terra Sebastian

Printed Name

terra.b.sebastian@exxonmobil.com

Email Address

SURVEYOR CERTIFICATIONS

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

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.

30 Sept 2024

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

Printed Name	Certificate Number	Date of Survey
terra.b.sebastian@exxonmobil.com	TIM C. PAPPAS 21209	9/28/2024
Email Address		

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

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.

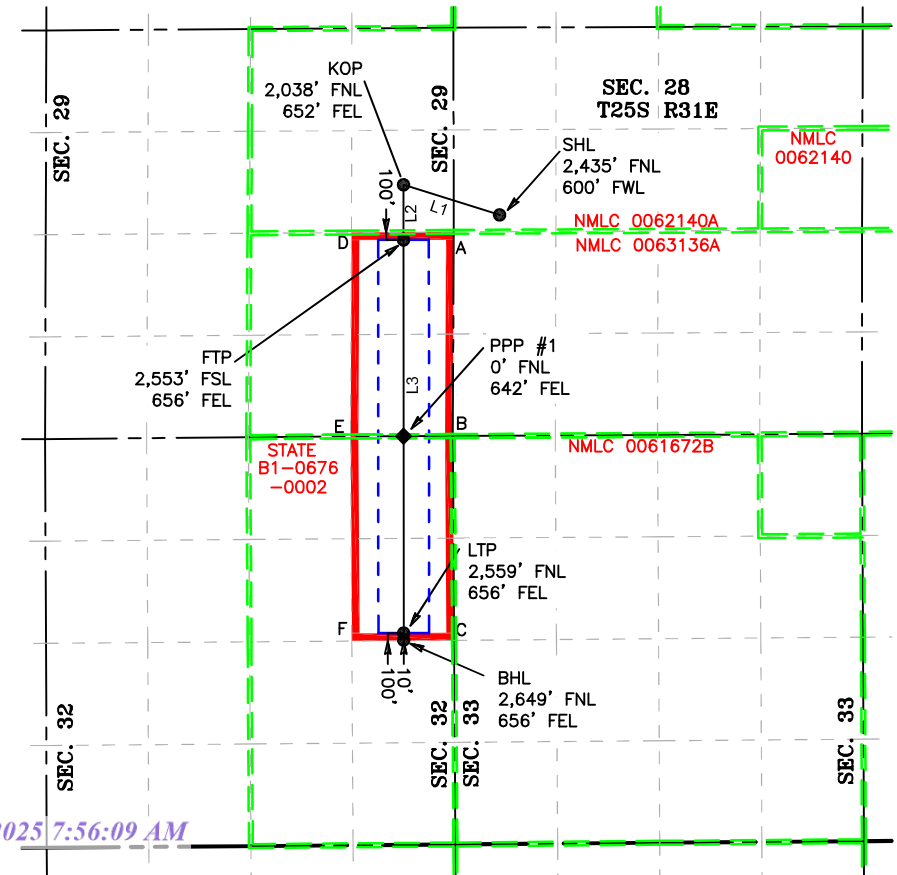
LEGEND

- SECTION LINE
- PROPOSED WELLBORE
- NEW MEXICO MINERAL LEASE LINE
- 330' BUFFER
- DEDICATED ACREAGE

LINE TABLE		
LINE	AZIMUTH	LENGTH
L1	287° 17'57"	1,312.54'
L2	179° 58'27"	716.25'
L3	179° 58'20"	5,201.24'

CORNER COORDINATES (NAD83 NME)					
A - Y =	401,001.6	N	A - X =	709,043.1	E
B - Y =	398,348.5	N	B - X =	709,032.9	E
C - Y =	395,690.8	N	C - X =	709,049.4	E
D - Y =	400,992.8	N	D - X =	707,713.2	E
E - Y =	398,341.4	N	E - X =	707,700.8	E
F - Y =	395,681.1	N	F - X =	707,717.4	E
CORNER COORDINATES (NAD27 NME)					
A - Y =	400,943.7	N	A - X =	667,857.4	E
B - Y =	398,290.7	N	B - X =	667,847.1	E
C - Y =	395,633.1	N	C - X =	667,863.5	E
D - Y =	400,934.9	N	D - X =	666,527.5	E
E - Y =	398,283.6	N	E - X =	666,515.0	E
F - Y =	395,623.3	N	F - X =	666,531.5	E

COORDINATE TABLE					
SHL (NAD 83 NME)			**FTP (NAD 83 NME)**		
Y =	401,223.2	N	Y =	400,897.3	N
X =	709,643.2	E	X =	708,390.3	E
LAT. =	32.101876	°N	LAT. =	32.100997	°N
LONG. =	103.789793	°W	LONG. =	103.793844	°W
KOP (NAD 83 NME)					
Y =	401,613.5	N			
X =	708,390.0	E			
LAT. =	32.102966	°N			
LONG. =	103.793833	°W			
LTP (NAD 83 NME)			**BHL (NAD 83 NME)**		
Y =	395,786.0	N	Y =	395,696.0	N
X =	708,392.4	E	X =	708,392.8	E
LAT. =	32.086947	°N	LAT. =	32.086700	°N
LONG. =	103.793920	°W	LONG. =	103.793920	°W
SHL (NAD 27 NME)			**FTP (NAD 27 NME)**		
Y =	401,165.3	N	Y =	400,839.4	N
X =	668,457.5	E	X =	667,204.6	E
LAT. =	32.101751	°N	LAT. =	32.100873	°N
LONG. =	103.789315	°W	LONG. =	103.793366	°W
KOP (NAD 27 NME)					
Y =	401,555.6	N			
X =	667,204.3	E			
LAT. =	32.102841	°N			
LONG. =	103.793355	°W			
LTP (NAD 27 NME)			**BHL (NAD 27 NME)**		
Y =	395,728.3	N	Y =	395,638.3	N
X =	667,206.5	E	X =	667,206.9	E
LAT. =	32.086822	°N	LAT. =	32.086575	°N
LONG. =	103.793442	°W	LONG. =	103.793442	°W
PPP #1 (NAD 83 NME)			**PPP #1 (NAD 27 NME)**		
Y =	398,345.1	N	Y =	398,287.3	N
X =	708,391.4	E	X =	667,205.6	E
LAT. =	32.093981	°N	LAT. =	32.093857	°N
LONG. =	103.793882	°W	LONG. =	103.793404	°W



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

XTO Energy Inc.
POKER LAKE UNIT 28 BS 110H
Projected TD: 15932.81' MD / 10157' TVD
SHL: 2435' FNL & 600' FWL , Section 28, T25S, R31E
BHL: 2649' FNL & 656' FEL , Section 32, T25S, R31E
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	891'	Water
Top of Salt	1173'	Water
Base of Salt	3972'	Water
Delaware	4149'	Water
Brushy Canyon	6823'	Water/Oil/Gas
Bone Spring	8086'	Water
Avalon	8225'	Water/Oil/Gas
1st Bone Spring	8874'	Water/Oil/Gas
2nd Bone Spring	9318'	Water/Oil/Gas
Target/Land Curve	10157'	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 9.625 inch casing @ 991' (182' 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 9406.8' and cemented to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 15932.81 MD/TD and 5.5 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 9106.8 feet).

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0' – 991'	9.625	40	J-55	BTC	New	1.69	6.35	15.89
8.75	0' – 4000'	7.625	29.7	RY P-110	Flush Joint	New	3.68	2.86	2.00
8.75	4000' – 9406.8'	7.625	29.7	HC L-80	Flush Joint	New	2.68	2.44	2.53
6.75	0' – 9306.8'	5.5	20	RY P-110	Freedom/Semi-Permium	New	1.26	2.52	2.55
6.75	9306.8' - 15932.81'	5.5	20	RY P-110	Talon/Semi-Flush	New	1.26	2.31	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

Wellhead:

Operator will utilize Multibowl System - see attached

4. Cement Program

Surface Casing: 9.625, 40 New BTC, J-55 casing to be set at +/- 991'

Lead: 230 sxs EconoCem-HLTRRC (mixed at 10.5 ppg, 1.87 ft3/sx, 10.13 gal/sx water)
Tail: 130 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

Intermediate Casing: 7.625, 29.7 New casing to be set at +/- 9406.8'
1st Stage
Optional Lead: 370 sxs Class C (mixed at 10.5 ppg, 2.77 ft3/sx, 15.59 gal/sx water)
TOC: Surface
Tail: 240 sxs Class C (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)
TOC: Brushy Canyon @ 6823
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: 770 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 (6823') 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 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 Talon/Semi-Flush, RY P-110 casing to be set at +/- 15932.81'

Lead: 20 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft3/sx, 15.00 gal/sx water) Top of Cement: 9106.8 feet
Tail: 450 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft3/sx, 8.38 gal/sx water) Top of Cement: 9606.8 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 surface casing, the blow out preventer equipment (BOP) will consist of a **5M Hydril Annular** and **a 10M Triple Ram** BOP

All BOP testing will be done by an independent service company. Operator will test as per BLM CFR43-3172

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. 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)	Additional Comments
0' - 991'	12.25	FW/Native	8.4-8.9	35-40	NC	Fresh water or native water
991' - 9406.8'	8.75	Saturated brine for salt interval / Direct Emulsion	9-9.5	30-32	NC	Fully saturated salt across salado / salt
9406.8' - 15932.81'	6.75	OBM	9.1-9.6	50-60	NC - 20	N/A

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 surface casing with Saturated Salt. A saturated salt 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 9.625 casing.

8. Logging, Coring and Testing Program

Open hole logging will not be done on this well.

9. Abnormal Pressures and Temperatures / Potential Hazards

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

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 - Poker Lake Unit 28 BS 110H

Measured Depth:	15932.81 ft
TVD RKB:	10157.00 ft
Location	
Cartographic Reference System:	New Mexico East - NAD 27
Northing:	401165.30 ft
Easting:	668457.50 ft
RKB:	3361.00 ft
Ground Level:	3329.00 ft
North Reference:	Grid
Convergence Angle:	0.29 Deg

Plan Sections Poker Lake Unit 28 BS 110H

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	
1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	0.00	
1859.19	15.18	287.30	1850.34	29.74	-95.48	2.00	0.00	2.00	
6106.80	15.18	287.30	5949.66	360.56	-1157.68	0.00	0.00	0.00	
6865.99	0.00	0.00	6700.00	390.30	-1253.17	-2.00	0.00	2.00	
9606.80	0.00	0.00	9440.80	390.30	-1253.17	0.00	0.00	0.00	
10731.80	90.00	179.98	10157.00	-325.90	-1252.90	8.00	0.00	8.00	FTP 13
15842.90	90.00	179.98	10157.00	-5437.00	-1251.00	0.00	0.00	0.00	LTP 13
15932.81	90.00	179.98	10157.00	-5526.92	-1250.97	0.00	0.00	0.00	BHL 7

Position Uncertainty Poker Lake Unit 28 BS 110H

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

Depth (ft)	Inclination (°)	Azimuth (°)	RKB (ft)	Error (ft)	Bias (ft)	Error (ft)	Bias (ft)	Error (ft)	Bias (ft)	of Bias (ft)	Error (ft)	Error (ft)	Azimuth (°)	Used
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	XOMR2_OWSG MWD+IFR1+MS
100.000	0.000	0.000	100.000	0.358	0.000	0.179	0.000	2.300	0.000	0.000	0.358	0.179	90.000	XOMR2_OWSG MWD+IFR1+MS
200.000	0.000	0.000	200.000	0.717	0.000	0.538	0.000	2.309	0.000	0.000	0.717	0.538	90.000	XOMR2_OWSG MWD+IFR1+MS
300.000	0.000	0.000	300.000	1.075	0.000	0.896	0.000	2.325	0.000	0.000	1.075	0.896	90.000	XOMR2_OWSG MWD+IFR1+MS
400.000	0.000	0.000	400.000	1.434	0.000	1.255	0.000	2.347	0.000	0.000	1.434	1.255	90.000	XOMR2_OWSG MWD+IFR1+MS
500.000	0.000	0.000	500.000	1.792	0.000	1.613	0.000	2.374	0.000	0.000	1.792	1.613	90.000	XOMR2_OWSG MWD+IFR1+MS
600.000	0.000	0.000	600.000	2.151	0.000	1.972	0.000	2.406	0.000	0.000	2.151	1.972	90.000	XOMR2_OWSG MWD+IFR1+MS
700.000	0.000	0.000	700.000	2.509	0.000	2.330	0.000	2.443	0.000	0.000	2.509	2.330	90.000	XOMR2_OWSG MWD+IFR1+MS
800.000	0.000	0.000	800.000	2.868	0.000	2.689	0.000	2.485	0.000	0.000	2.868	2.689	90.000	XOMR2_OWSG MWD+IFR1+MS
900.000	0.000	0.000	900.000	3.226	0.000	3.047	0.000	2.531	0.000	0.000	3.226	3.047	90.000	XOMR2_OWSG MWD+IFR1+MS
1000.000	0.000	0.000	1000.000	3.585	0.000	3.405	0.000	2.580	0.000	0.000	3.585	3.405	90.000	XOMR2_OWSG MWD+IFR1+MS
1100.000	0.000	0.000	1100.000	3.943	0.000	3.764	0.000	2.634	0.000	0.000	3.943	3.764	90.000	XOMR2_OWSG MWD+IFR1+MS
1200.000	2.000	287.299	1199.980	4.131	0.000	4.280	0.000	2.690	0.000	0.000	4.296	4.116	89.922	XOMR2_OWSG MWD+IFR1+MS
1300.000	4.000	287.299	1299.838	4.472	0.000	4.628	0.000	2.747	0.000	0.000	4.645	4.465	89.674	XOMR2_OWSG MWD+IFR1+MS
1400.000	6.000	287.299	1399.452	4.810	0.000	4.979	0.000	2.805	0.000	0.000	4.996	4.815	89.390	XOMR2_OWSG MWD+IFR1+MS
1500.000	8.000	287.299	1498.702	5.145	0.000	5.332	0.000	2.864	0.000	0.000	5.349	5.167	89.101	XOMR2_OWSG MWD+IFR1+MS
1600.000	10.000	287.299	1597.465	5.476	0.000	5.687	0.000	2.925	0.000	0.000	5.705	5.519	88.846	XOMR2_OWSG MWD+IFR1+MS
1700.000	12.000	287.299	1695.623	5.804	0.000	6.045	0.000	2.988	0.000	0.000	6.064	5.873	88.665	XOMR2_OWSG MWD+IFR1+MS
1800.000	14.000	287.299	1793.055	6.129	0.000	6.406	0.000	3.054	0.000	0.000	6.426	6.228	88.600	XOMR2_OWSG MWD+IFR1+MS

1859.192	15.184	287.299	1850.337	6.321	0.000	6.622	0.000	3.092	0.000	0.000	6.643	6.440	88.480	XOMR2_OWSG MWD+IFR1+MS
1900.000	15.184	287.299	1889.720	6.470	0.000	6.771	0.000	3.123	0.000	0.000	6.793	6.585	88.560	XOMR2_OWSG MWD+IFR1+MS
2000.000	15.184	287.299	1986.229	6.837	0.000	7.141	0.000	3.212	0.000	0.000	7.163	6.939	89.164	XOMR2_OWSG MWD+IFR1+MS
2100.000	15.184	287.299	2082.738	7.209	0.000	7.514	0.000	3.305	0.000	0.000	7.536	7.296	89.627	XOMR2_OWSG MWD+IFR1+MS
2200.000	15.184	287.299	2179.247	7.584	0.000	7.890	0.000	3.402	0.000	0.000	7.912	7.656	89.983	XOMR2_OWSG MWD+IFR1+MS
2300.000	15.184	287.299	2275.756	7.962	0.000	8.268	0.000	3.502	0.000	0.000	8.291	8.019	90.258	XOMR2_OWSG MWD+IFR1+MS
2400.000	15.184	287.299	2372.266	8.342	0.000	8.648	0.000	3.606	0.000	0.000	8.672	8.385	90.470	XOMR2_OWSG MWD+IFR1+MS
2500.000	15.184	287.299	2468.775	8.724	0.000	9.030	0.000	3.713	0.000	0.000	9.055	8.752	90.634	XOMR2_OWSG MWD+IFR1+MS
2600.000	15.184	287.299	2565.284	9.108	0.000	9.414	0.000	3.823	0.000	0.000	9.439	9.122	90.759	XOMR2_OWSG MWD+IFR1+MS
2700.000	15.184	287.299	2661.793	9.494	0.000	9.799	0.000	3.935	0.000	0.000	9.825	9.493	90.854	XOMR2_OWSG MWD+IFR1+MS
2800.000	15.184	287.299	2758.302	9.881	0.000	10.185	0.000	4.050	0.000	0.000	10.212	9.865	90.924	XOMR2_OWSG MWD+IFR1+MS
2900.000	15.184	287.299	2854.811	10.270	0.000	10.572	0.000	4.168	0.000	0.000	10.600	10.239	90.974	XOMR2_OWSG MWD+IFR1+MS
3000.000	15.184	287.299	2951.320	10.659	0.000	10.960	0.000	4.287	0.000	0.000	10.989	10.613	91.008	XOMR2_OWSG MWD+IFR1+MS
3100.000	15.184	287.299	3047.829	11.050	0.000	11.349	0.000	4.409	0.000	0.000	11.380	10.989	91.029	XOMR2_OWSG MWD+IFR1+MS
3200.000	15.184	287.299	3144.338	11.442	0.000	11.739	0.000	4.533	0.000	0.000	11.771	11.366	91.039	XOMR2_OWSG MWD+IFR1+MS
3300.000	15.184	287.299	3240.847	11.834	0.000	12.130	0.000	4.658	0.000	0.000	12.162	11.743	91.040	XOMR2_OWSG MWD+IFR1+MS
3400.000	15.184	287.299	3337.356	12.227	0.000	12.521	0.000	4.786	0.000	0.000	12.555	12.122	91.034	XOMR2_OWSG MWD+IFR1+MS
3500.000	15.184	287.299	3433.865	12.621	0.000	12.913	0.000	4.915	0.000	0.000	12.948	12.501	91.022	XOMR2_OWSG MWD+IFR1+MS
3600.000	15.184	287.299	3530.374	13.015	0.000	13.306	0.000	5.046	0.000	0.000	13.341	12.880	91.004	XOMR2_OWSG MWD+IFR1+MS
3700.000	15.184	287.299	3626.883	13.410	0.000	13.698	0.000	5.179	0.000	0.000	13.735	13.260	90.982	XOMR2_OWSG MWD+IFR1+MS

3800.000	15.184	287.299	3723.392	13.806	0.000	14.092	0.000	5.313	0.000	0.000	14.130	13.641	90.957	XOMR2_OWSG MWD+IFR1+MS
3900.000	15.184	287.299	3819.901	14.202	0.000	14.486	0.000	5.449	0.000	0.000	14.525	14.022	90.929	XOMR2_OWSG MWD+IFR1+MS
4000.000	15.184	287.299	3916.410	14.598	0.000	14.880	0.000	5.587	0.000	0.000	14.920	14.404	90.898	XOMR2_OWSG MWD+IFR1+MS
4100.000	15.184	287.299	4012.919	14.995	0.000	15.274	0.000	5.726	0.000	0.000	15.316	14.786	90.865	XOMR2_OWSG MWD+IFR1+MS
4200.000	15.184	287.299	4109.428	15.392	0.000	15.669	0.000	5.867	0.000	0.000	15.712	15.169	90.831	XOMR2_OWSG MWD+IFR1+MS
4300.000	15.184	287.299	4205.937	15.790	0.000	16.064	0.000	6.009	0.000	0.000	16.109	15.552	90.795	XOMR2_OWSG MWD+IFR1+MS
4400.000	15.184	287.299	4302.446	16.187	0.000	16.460	0.000	6.153	0.000	0.000	16.505	15.935	90.758	XOMR2_OWSG MWD+IFR1+MS
4500.000	15.184	287.299	4398.955	16.586	0.000	16.855	0.000	6.299	0.000	0.000	16.902	16.319	90.720	XOMR2_OWSG MWD+IFR1+MS
4600.000	15.184	287.299	4495.464	16.984	0.000	17.251	0.000	6.446	0.000	0.000	17.299	16.703	90.681	XOMR2_OWSG MWD+IFR1+MS
4700.000	15.184	287.299	4591.973	17.383	0.000	17.648	0.000	6.594	0.000	0.000	17.697	17.087	90.641	XOMR2_OWSG MWD+IFR1+MS
4800.000	15.184	287.299	4688.482	17.781	0.000	18.044	0.000	6.744	0.000	0.000	18.095	17.471	90.601	XOMR2_OWSG MWD+IFR1+MS
4900.000	15.184	287.299	4784.991	18.180	0.000	18.440	0.000	6.896	0.000	0.000	18.492	17.856	90.560	XOMR2_OWSG MWD+IFR1+MS
5000.000	15.184	287.299	4881.500	18.580	0.000	18.837	0.000	7.049	0.000	0.000	18.891	18.241	90.519	XOMR2_OWSG MWD+IFR1+MS
5100.000	15.184	287.299	4978.010	18.979	0.000	19.234	0.000	7.203	0.000	0.000	19.289	18.626	90.478	XOMR2_OWSG MWD+IFR1+MS
5200.000	15.184	287.299	5074.519	19.379	0.000	19.631	0.000	7.360	0.000	0.000	19.687	19.011	90.436	XOMR2_OWSG MWD+IFR1+MS
5300.000	15.184	287.299	5171.028	19.779	0.000	20.028	0.000	7.518	0.000	0.000	20.086	19.397	90.394	XOMR2_OWSG MWD+IFR1+MS
5400.000	15.184	287.299	5267.537	20.179	0.000	20.426	0.000	7.677	0.000	0.000	20.485	19.783	90.352	XOMR2_OWSG MWD+IFR1+MS
5500.000	15.184	287.299	5364.046	20.579	0.000	20.823	0.000	7.838	0.000	0.000	20.883	20.169	90.310	XOMR2_OWSG MWD+IFR1+MS
5600.000	15.184	287.299	5460.555	20.979	0.000	21.221	0.000	8.001	0.000	0.000	21.283	20.555	90.267	XOMR2_OWSG MWD+IFR1+MS
5700.000	15.184	287.299	5557.064	21.379	0.000	21.619	0.000	8.165	0.000	0.000	21.682	20.941	90.225	XOMR2_OWSG MWD+IFR1+MS

5800.000	15.184	287.299	5653.573	21.780	0.000	22.017	0.000	8.331	0.000	0.000	22.081	21.328	90.182	XOMR2_OWSG MWD+IFR1+MS
5900.000	15.184	287.299	5750.082	22.181	0.000	22.415	0.000	8.499	0.000	0.000	22.480	21.714	90.139	XOMR2_OWSG MWD+IFR1+MS
6000.000	15.184	287.299	5846.591	22.581	0.000	22.813	0.000	8.668	0.000	0.000	22.880	22.101	90.096	XOMR2_OWSG MWD+IFR1+MS
6106.800	15.184	287.299	5949.663	23.009	0.000	23.238	0.000	8.851	0.000	0.000	23.307	22.514	90.051	XOMR2_OWSG MWD+IFR1+MS
6200.000	13.320	287.299	6039.990	23.405	0.000	23.605	0.000	9.011	0.000	0.000	23.675	22.872	90.006	XOMR2_OWSG MWD+IFR1+MS
6300.000	11.320	287.299	6137.682	23.795	0.000	23.991	0.000	9.179	0.000	0.000	24.062	23.250	89.928	XOMR2_OWSG MWD+IFR1+MS
6400.000	9.320	287.299	6236.060	24.151	0.000	24.367	0.000	9.341	0.000	0.000	24.439	23.622	89.820	XOMR2_OWSG MWD+IFR1+MS
6500.000	7.320	287.299	6335.002	24.471	0.000	24.733	0.000	9.497	0.000	0.000	24.807	23.986	89.697	XOMR2_OWSG MWD+IFR1+MS
6600.000	5.320	287.299	6434.389	24.754	0.000	25.090	0.000	9.647	0.000	0.000	25.165	24.343	89.577	XOMR2_OWSG MWD+IFR1+MS
6700.000	3.320	287.299	6534.100	25.000	0.000	25.438	0.000	9.793	0.000	0.000	25.514	24.691	89.473	XOMR2_OWSG MWD+IFR1+MS
6800.000	1.320	287.299	6634.013	25.209	0.000	25.776	0.000	9.934	0.000	0.000	25.853	25.029	89.403	XOMR2_OWSG MWD+IFR1+MS
6865.993	0.000	0.000	6700.000	26.070	0.000	25.245	0.000	10.025	0.000	0.000	26.070	25.245	89.450	XOMR2_OWSG MWD+IFR1+MS
6900.000	0.000	0.000	6734.007	26.181	0.000	25.354	0.000	10.072	0.000	0.000	26.181	25.354	89.515	XOMR2_OWSG MWD+IFR1+MS
7000.000	0.000	0.000	6834.007	26.506	0.000	25.676	0.000	10.210	0.000	0.000	26.506	25.676	89.703	XOMR2_OWSG MWD+IFR1+MS
7100.000	0.000	0.000	6934.007	26.832	0.000	25.999	0.000	10.352	0.000	0.000	26.832	25.999	89.884	XOMR2_OWSG MWD+IFR1+MS
7200.000	0.000	0.000	7034.007	27.159	0.000	26.322	0.000	10.497	0.000	0.000	27.159	26.322	90.059	XOMR2_OWSG MWD+IFR1+MS
7300.000	0.000	0.000	7134.007	27.487	0.000	26.647	0.000	10.644	0.000	0.000	27.487	26.647	90.229	XOMR2_OWSG MWD+IFR1+MS
7400.000	0.000	0.000	7234.007	27.816	0.000	26.972	0.000	10.794	0.000	0.000	27.816	26.972	90.393	XOMR2_OWSG MWD+IFR1+MS
7500.000	0.000	0.000	7334.007	28.145	0.000	27.298	0.000	10.948	0.000	0.000	28.146	27.298	90.552	XOMR2_OWSG MWD+IFR1+MS
7600.000	0.000	0.000	7434.007	28.476	0.000	27.625	0.000	11.104	0.000	0.000	28.476	27.625	90.706	XOMR2_OWSG MWD+IFR1+MS

7700.000	0.000	0.000	7534.007	28.806	0.000	27.953	0.000	11.263	0.000	0.000	28.806	27.953	90.856	XOMR2_OWSG MWD+IFR1+MS
7800.000	0.000	0.000	7634.007	29.138	0.000	28.281	0.000	11.425	0.000	0.000	29.138	28.281	91.001	XOMR2_OWSG MWD+IFR1+MS
7900.000	0.000	0.000	7734.007	29.470	0.000	28.611	0.000	11.591	0.000	0.000	29.470	28.610	91.142	XOMR2_OWSG MWD+IFR1+MS
8000.000	0.000	0.000	7834.007	29.802	0.000	28.941	0.000	11.759	0.000	0.000	29.803	28.940	91.278	XOMR2_OWSG MWD+IFR1+MS
8100.000	0.000	0.000	7934.007	30.136	0.000	29.271	0.000	11.931	0.000	0.000	30.136	29.271	91.411	XOMR2_OWSG MWD+IFR1+MS
8200.000	0.000	0.000	8034.007	30.470	0.000	29.602	0.000	12.105	0.000	0.000	30.470	29.602	91.540	XOMR2_OWSG MWD+IFR1+MS
8300.000	0.000	0.000	8134.007	30.804	0.000	29.934	0.000	12.283	0.000	0.000	30.805	29.933	91.665	XOMR2_OWSG MWD+IFR1+MS
8400.000	0.000	0.000	8234.007	31.139	0.000	30.267	0.000	12.464	0.000	0.000	31.140	30.266	91.787	XOMR2_OWSG MWD+IFR1+MS
8500.000	0.000	0.000	8334.007	31.474	0.000	30.600	0.000	12.647	0.000	0.000	31.475	30.599	91.905	XOMR2_OWSG MWD+IFR1+MS
8600.000	0.000	0.000	8434.007	31.810	0.000	30.933	0.000	12.834	0.000	0.000	31.811	30.932	92.020	XOMR2_OWSG MWD+IFR1+MS
8700.000	0.000	0.000	8534.007	32.147	0.000	31.268	0.000	13.025	0.000	0.000	32.148	31.266	92.132	XOMR2_OWSG MWD+IFR1+MS
8800.000	0.000	0.000	8634.007	32.484	0.000	31.602	0.000	13.218	0.000	0.000	32.485	31.601	92.241	XOMR2_OWSG MWD+IFR1+MS
8900.000	0.000	0.000	8734.007	32.821	0.000	31.937	0.000	13.414	0.000	0.000	32.822	31.936	92.348	XOMR2_OWSG MWD+IFR1+MS
9000.000	0.000	0.000	8834.007	33.159	0.000	32.273	0.000	13.614	0.000	0.000	33.160	32.271	92.451	XOMR2_OWSG MWD+IFR1+MS
9100.000	0.000	0.000	8934.007	33.497	0.000	32.609	0.000	13.817	0.000	0.000	33.499	32.608	92.552	XOMR2_OWSG MWD+IFR1+MS
9200.000	0.000	0.000	9034.007	33.836	0.000	32.946	0.000	14.023	0.000	0.000	33.838	32.944	92.650	XOMR2_OWSG MWD+IFR1+MS
9300.000	0.000	0.000	9134.007	34.175	0.000	33.283	0.000	14.232	0.000	0.000	34.177	33.281	92.746	XOMR2_OWSG MWD+IFR1+MS
9400.000	0.000	0.000	9234.007	34.514	0.000	33.621	0.000	14.444	0.000	0.000	34.516	33.618	92.840	XOMR2_OWSG MWD+IFR1+MS
9500.000	0.000	0.000	9334.007	34.854	0.000	33.959	0.000	14.660	0.000	0.000	34.856	33.956	92.931	XOMR2_OWSG MWD+IFR1+MS
9606.795	0.000	0.000	9440.803	35.217	0.000	34.320	0.000	14.894	0.000	0.000	35.220	34.318	93.026	XOMR2_OWSG MWD+IFR1+MS

9700.000	7.456	179.979	9533.745	35.085	0.000	34.621	-0.000	15.098	0.000	0.000	35.518	34.618	93.229	XOMR2_OWSG MWD+IFR1+MS
9800.000	15.456	179.979	9631.673	34.381	0.000	34.920	-0.000	15.311	0.000	0.000	35.808	34.917	93.701	XOMR2_OWSG MWD+IFR1+MS
9900.000	23.456	179.979	9725.885	33.138	0.000	35.203	-0.000	15.519	0.000	0.000	36.074	35.197	94.394	XOMR2_OWSG MWD+IFR1+MS
10000.000	31.456	179.979	9814.550	31.405	0.000	35.465	-0.000	15.721	0.000	0.000	36.308	35.457	95.213	XOMR2_OWSG MWD+IFR1+MS
10100.000	39.456	179.979	9895.939	29.256	0.000	35.704	-0.000	15.922	0.000	0.000	36.506	35.695	96.028	XOMR2_OWSG MWD+IFR1+MS
10200.000	47.456	179.979	9968.470	26.798	0.000	35.920	-0.000	16.126	0.000	0.000	36.665	35.909	96.661	XOMR2_OWSG MWD+IFR1+MS
10300.000	55.456	179.979	10030.731	24.179	0.000	36.110	-0.000	16.339	0.000	0.000	36.785	36.100	96.853	XOMR2_OWSG MWD+IFR1+MS
10400.000	63.456	179.979	10081.509	21.609	0.000	36.275	-0.000	16.568	0.000	0.000	36.867	36.268	96.174	XOMR2_OWSG MWD+IFR1+MS
10500.000	71.456	179.979	10119.816	19.379	0.000	36.413	-0.000	16.818	0.000	0.000	36.916	36.411	93.832	XOMR2_OWSG MWD+IFR1+MS
10600.000	79.456	179.979	10144.908	17.853	0.000	36.525	-0.000	17.091	0.000	0.000	36.942	36.525	88.425	XOMR2_OWSG MWD+IFR1+MS
10700.000	87.456	179.979	10156.294	17.382	0.000	36.608	-0.000	17.388	0.000	0.000	36.969	36.594	78.733	XOMR2_OWSG MWD+IFR1+MS
10731.795	90.000	179.979	10157.000	17.487	0.000	36.628	-0.000	17.487	0.000	0.000	36.982	36.603	75.111	XOMR2_OWSG MWD+IFR1+MS
10800.000	90.000	179.979	10157.000	17.707	0.000	36.672	-0.000	17.707	0.000	0.000	37.019	36.612	67.553	XOMR2_OWSG MWD+IFR1+MS
10900.000	90.000	179.979	10157.000	18.054	0.000	36.750	-0.000	18.054	0.000	0.000	37.098	36.616	58.185	XOMR2_OWSG MWD+IFR1+MS
11000.000	90.000	179.979	10157.000	18.428	0.000	36.845	-0.000	18.428	0.000	0.000	37.201	36.612	51.113	XOMR2_OWSG MWD+IFR1+MS
11100.000	90.000	179.979	10157.000	18.827	0.000	36.955	-0.000	18.827	0.000	0.000	37.323	36.604	45.819	XOMR2_OWSG MWD+IFR1+MS
11200.000	90.000	179.979	10157.000	19.250	0.000	37.080	-0.000	19.250	0.000	0.000	37.462	36.595	41.743	XOMR2_OWSG MWD+IFR1+MS
11300.000	90.000	179.979	10157.000	19.695	0.000	37.221	-0.000	19.695	0.000	0.000	37.617	36.587	38.494	XOMR2_OWSG MWD+IFR1+MS
11400.000	90.000	179.979	10157.000	20.161	0.000	37.377	-0.000	20.161	0.000	0.000	37.786	36.579	35.819	XOMR2_OWSG MWD+IFR1+MS
11500.000	90.000	179.979	10157.000	20.646	0.000	37.547	-0.000	20.646	0.000	0.000	37.969	36.574	33.560	XOMR2_OWSG MWD+IFR1+MS

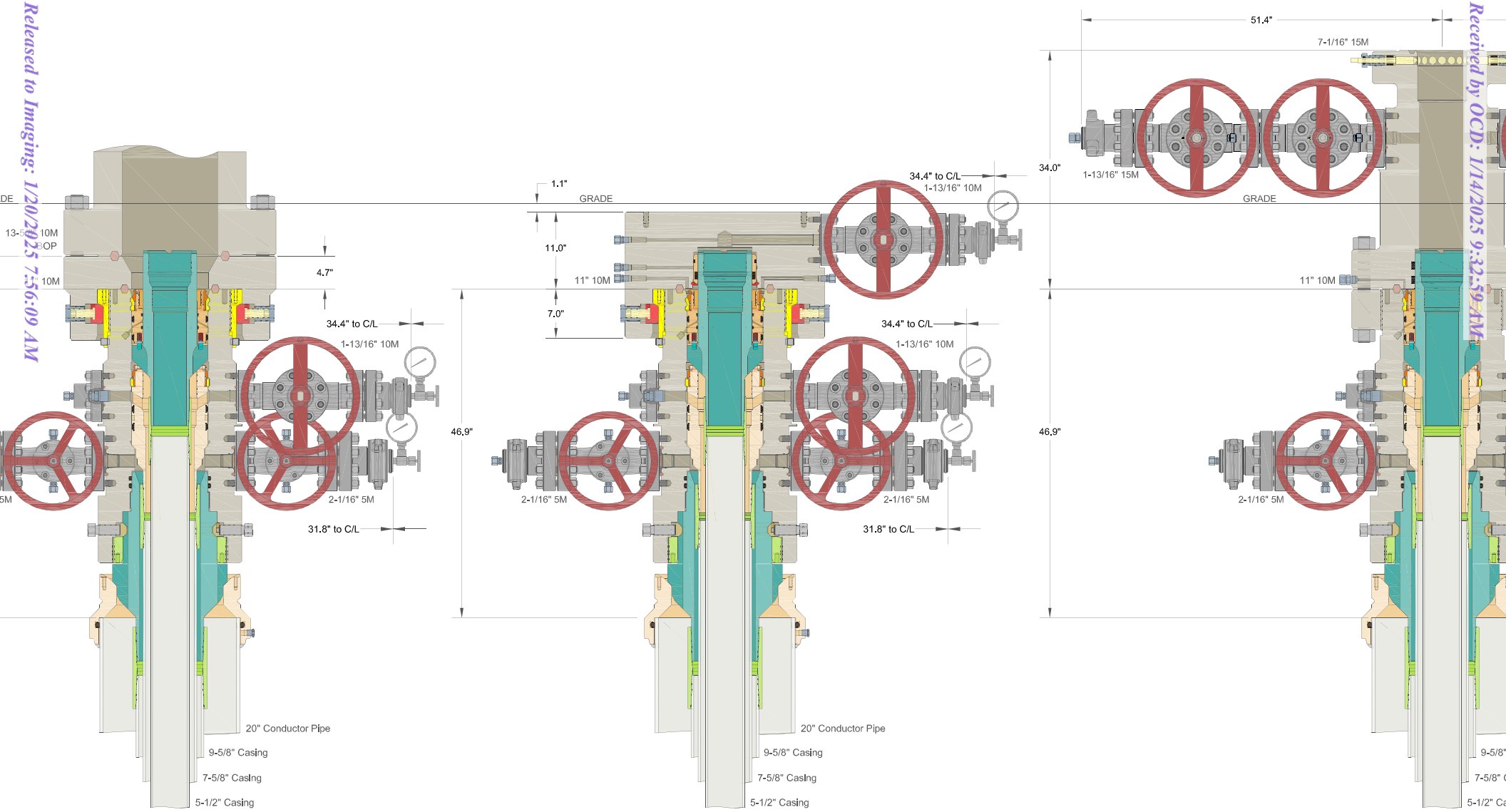
11600.000	90.000	179.979	10157.000	21.150	0.000	37.733	-0.000	21.150	0.000	0.000	38.165	36.569	31.613	XOMR2_OWSG MWD+IFR1+MS
11700.000	90.000	179.979	10157.000	21.670	0.000	37.933	-0.000	21.670	0.000	0.000	38.375	36.566	29.907	XOMR2_OWSG MWD+IFR1+MS
11800.000	90.000	179.979	10157.000	22.205	0.000	38.147	-0.000	22.205	0.000	0.000	38.598	36.565	28.394	XOMR2_OWSG MWD+IFR1+MS
11900.000	90.000	179.979	10157.000	22.755	0.000	38.375	-0.000	22.755	0.000	0.000	38.833	36.565	27.037	XOMR2_OWSG MWD+IFR1+MS
12000.000	90.000	179.979	10157.000	23.319	0.000	38.617	-0.000	23.319	0.000	0.000	39.082	36.567	25.810	XOMR2_OWSG MWD+IFR1+MS
12100.000	90.000	179.979	10157.000	23.894	0.000	38.873	-0.000	23.894	0.000	0.000	39.343	36.570	24.694	XOMR2_OWSG MWD+IFR1+MS
12200.000	90.000	179.979	10157.000	24.482	0.000	39.141	-0.000	24.482	0.000	0.000	39.617	36.575	23.673	XOMR2_OWSG MWD+IFR1+MS
12300.000	90.000	179.979	10157.000	25.080	0.000	39.423	-0.000	25.080	0.000	0.000	39.902	36.580	22.734	XOMR2_OWSG MWD+IFR1+MS
12400.000	90.000	179.979	10157.000	25.689	0.000	39.718	-0.000	25.689	0.000	0.000	40.200	36.587	21.866	XOMR2_OWSG MWD+IFR1+MS
12500.000	90.000	179.979	10157.000	26.306	0.000	40.025	-0.000	26.306	0.000	0.000	40.510	36.595	21.062	XOMR2_OWSG MWD+IFR1+MS
12600.000	90.000	179.979	10157.000	26.933	0.000	40.344	-0.000	26.933	0.000	0.000	40.831	36.604	20.315	XOMR2_OWSG MWD+IFR1+MS
12700.000	90.000	179.979	10157.000	27.567	0.000	40.675	-0.000	27.567	0.000	0.000	41.163	36.615	19.618	XOMR2_OWSG MWD+IFR1+MS
12800.000	90.000	179.979	10157.000	28.209	0.000	41.017	-0.000	28.209	0.000	0.000	41.506	36.626	18.967	XOMR2_OWSG MWD+IFR1+MS
12900.000	90.000	179.979	10157.000	28.859	0.000	41.371	-0.000	28.859	0.000	0.000	41.861	36.638	18.356	XOMR2_OWSG MWD+IFR1+MS
13000.000	90.000	179.979	10157.000	29.514	0.000	41.736	-0.000	29.514	0.000	0.000	42.225	36.651	17.783	XOMR2_OWSG MWD+IFR1+MS
13100.000	90.000	179.979	10157.000	30.176	0.000	42.111	-0.000	30.176	0.000	0.000	42.601	36.665	17.244	XOMR2_OWSG MWD+IFR1+MS
13200.000	90.000	179.979	10157.000	30.844	0.000	42.497	-0.000	30.844	0.000	0.000	42.986	36.680	16.736	XOMR2_OWSG MWD+IFR1+MS
13300.000	90.000	179.979	10157.000	31.517	0.000	42.894	-0.000	31.517	0.000	0.000	43.381	36.696	16.256	XOMR2_OWSG MWD+IFR1+MS
13400.000	90.000	179.979	10157.000	32.195	0.000	43.299	-0.000	32.195	0.000	0.000	43.786	36.713	15.802	XOMR2_OWSG MWD+IFR1+MS
13500.000	90.000	179.979	10157.000	32.878	0.000	43.715	-0.000	32.878	0.000	0.000	44.200	36.731	15.372	XOMR2_OWSG MWD+IFR1+MS

13600.000	90.000	179.979	10157.000	33.565	0.000	44.140	-0.000	33.565	0.000	0.000	44.623	36.749	14.965	XOMR2_OWSG MWD+IFR1+MS
13700.000	90.000	179.979	10157.000	34.257	0.000	44.574	-0.000	34.257	0.000	0.000	45.055	36.768	14.578	XOMR2_OWSG MWD+IFR1+MS
13800.000	90.000	179.979	10157.000	34.952	0.000	45.017	-0.000	34.952	0.000	0.000	45.495	36.789	14.210	XOMR2_OWSG MWD+IFR1+MS
13900.000	90.000	179.979	10157.000	35.651	0.000	45.468	-0.000	35.651	0.000	0.000	45.944	36.809	13.859	XOMR2_OWSG MWD+IFR1+MS
14000.000	90.000	179.979	10157.000	36.354	0.000	45.928	-0.000	36.354	0.000	0.000	46.401	36.831	13.525	XOMR2_OWSG MWD+IFR1+MS
14100.000	90.000	179.979	10157.000	37.060	0.000	46.395	-0.000	37.060	0.000	0.000	46.866	36.853	13.207	XOMR2_OWSG MWD+IFR1+MS
14200.000	90.000	179.979	10157.000	37.769	0.000	46.871	-0.000	37.769	0.000	0.000	47.339	36.876	12.902	XOMR2_OWSG MWD+IFR1+MS
14300.000	90.000	179.979	10157.000	38.481	0.000	47.354	-0.000	38.481	0.000	0.000	47.819	36.900	12.612	XOMR2_OWSG MWD+IFR1+MS
14400.000	90.000	179.979	10157.000	39.196	0.000	47.844	-0.000	39.196	0.000	0.000	48.306	36.925	12.333	XOMR2_OWSG MWD+IFR1+MS
14500.000	90.000	179.979	10157.000	39.913	0.000	48.342	-0.000	39.913	0.000	0.000	48.800	36.950	12.067	XOMR2_OWSG MWD+IFR1+MS
14600.000	90.000	179.979	10157.000	40.633	0.000	48.846	-0.000	40.633	0.000	0.000	49.301	36.976	11.811	XOMR2_OWSG MWD+IFR1+MS
14700.000	90.000	179.979	10157.000	41.355	0.000	49.357	-0.000	41.355	0.000	0.000	49.809	37.003	11.566	XOMR2_OWSG MWD+IFR1+MS
14800.000	90.000	179.979	10157.000	42.080	0.000	49.874	-0.000	42.080	0.000	0.000	50.323	37.030	11.330	XOMR2_OWSG MWD+IFR1+MS
14900.000	90.000	179.979	10157.000	42.807	0.000	50.398	-0.000	42.807	0.000	0.000	50.844	37.058	11.104	XOMR2_OWSG MWD+IFR1+MS
15000.000	90.000	179.979	10157.000	43.535	0.000	50.928	-0.000	43.535	0.000	0.000	51.370	37.087	10.887	XOMR2_OWSG MWD+IFR1+MS
15100.000	90.000	179.979	10157.000	44.266	0.000	51.464	-0.000	44.266	0.000	0.000	51.903	37.116	10.677	XOMR2_OWSG MWD+IFR1+MS
15200.000	90.000	179.979	10157.000	44.998	0.000	52.005	-0.000	44.998	0.000	0.000	52.441	37.146	10.476	XOMR2_OWSG MWD+IFR1+MS
15300.000	90.000	179.979	10157.000	45.732	0.000	52.552	-0.000	45.732	0.000	0.000	52.984	37.177	10.281	XOMR2_OWSG MWD+IFR1+MS
15400.000	90.000	179.979	10157.000	46.468	0.000	53.105	-0.000	46.468	0.000	0.000	53.533	37.209	10.094	XOMR2_OWSG MWD+IFR1+MS
15500.000	90.000	179.979	10157.000	47.205	0.000	53.662	-0.000	47.205	0.000	0.000	54.088	37.241	9.913	XOMR2_OWSG MWD+IFR1+MS

15600.000	90.000	179.979	10157.000	47.944	0.000	54.225	-0.000	47.944	0.000	0.000	54.647	37.273	9.739	XOMR2_OWSG MWD+IFR1+MS
15700.000	90.000	179.979	10157.000	48.685	0.000	54.793	-0.000	48.685	0.000	0.000	55.211	37.307	9.570	XOMR2_OWSG MWD+IFR1+MS
15800.000	90.000	179.979	10157.000	49.426	0.000	55.365	-0.000	49.426	0.000	0.000	55.780	37.341	9.407	XOMR2_OWSG MWD+IFR1+MS
15842.896	90.000	179.979	10157.000	49.745	0.000	55.611	-0.000	49.745	0.000	0.000	56.024	37.355	9.339	XOMR2_OWSG MWD+IFR1+MS
15900.000	90.000	179.979	10157.000	50.169	0.000	55.940	-0.000	50.169	0.000	0.000	56.352	37.375	9.250	XOMR2_OWSG MWD+IFR1+MS
15932.811	90.000	179.979	10157.000	50.413	0.000	56.130	-0.000	50.413	0.000	0.000	56.540	37.387	9.200	XOMR2_OWSG MWD+IFR1+MS

Plan Targets Poker Lake Unit 28 BS 110H

Target Name	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape
FTP 13	10731.79	400839.40	667204.60	6796.00	CIRCLE
LTP 13	15842.90	395728.30	667206.50	6796.00	CIRCLE
BHL 7	15933.19	395638.30	667206.90	6796.00	CIRCLE



CACTUS WELLHEAD LLC

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

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

Background

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

Supporting Documentation

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

Figure 1: Winch System attached to BOP Stack

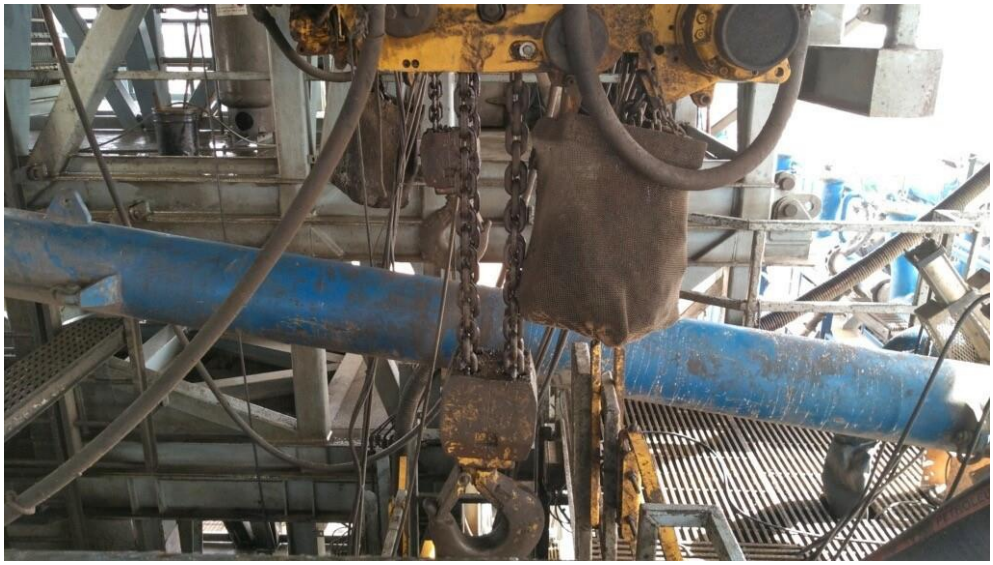


Figure 2: BOP Winch System

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

62 API STANDARD 53

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.

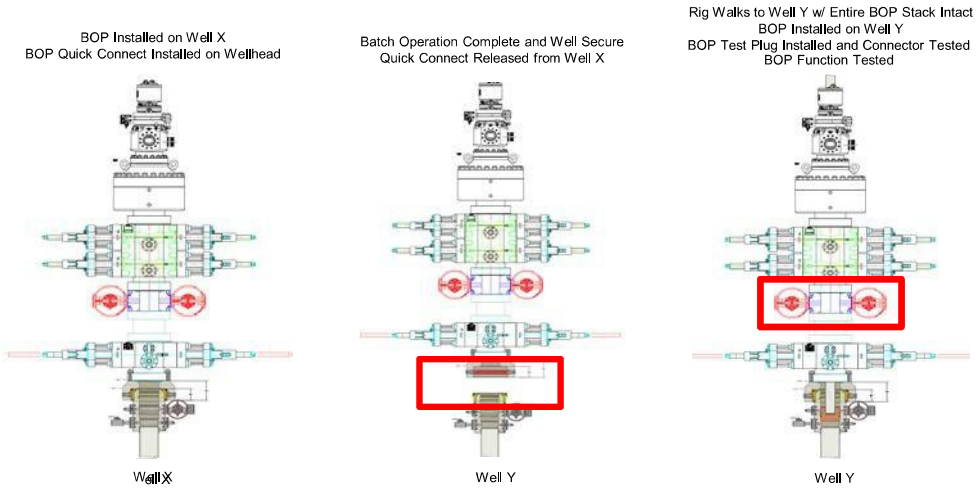
XTO Energy feels break testing and our current procedures meet the intent of CFR Title 43 Part 317 0and often exceed it. There has been no evidence that break testing results in more components failing than seen on full BOP tests. XTO Energy's internal standards requires complete BOPE tests more often than that of CFR Title 43 Part 3170 (Every 21 days). In addition to function testing the annular, pipe rams and blind rams after
each BOP nipple up, XTO Energy performs a choke drill with the rig crew prior to drilling out every casing shoe. This is additional training for the rig crew that exceeds the requirements of the CFR Title 43 Part 3170.

Procedures

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

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

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



Summary

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

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

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

1. After a full BOP test is conducted on the first well on the pad.

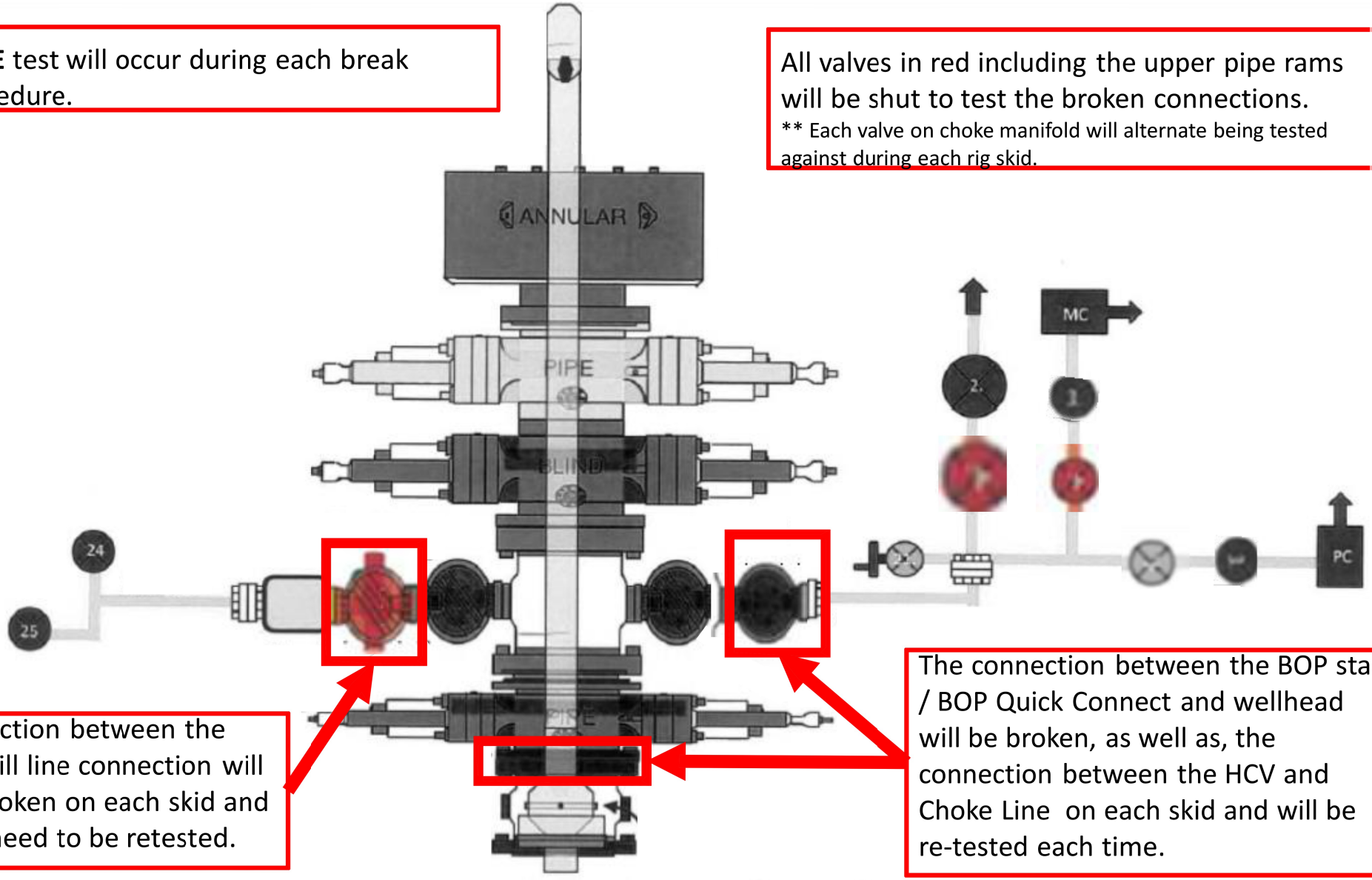
2. The first intermediate hole section drilled on the pad will be the deepest. All of the remaining hole sections will be the same depth or shallower.

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

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

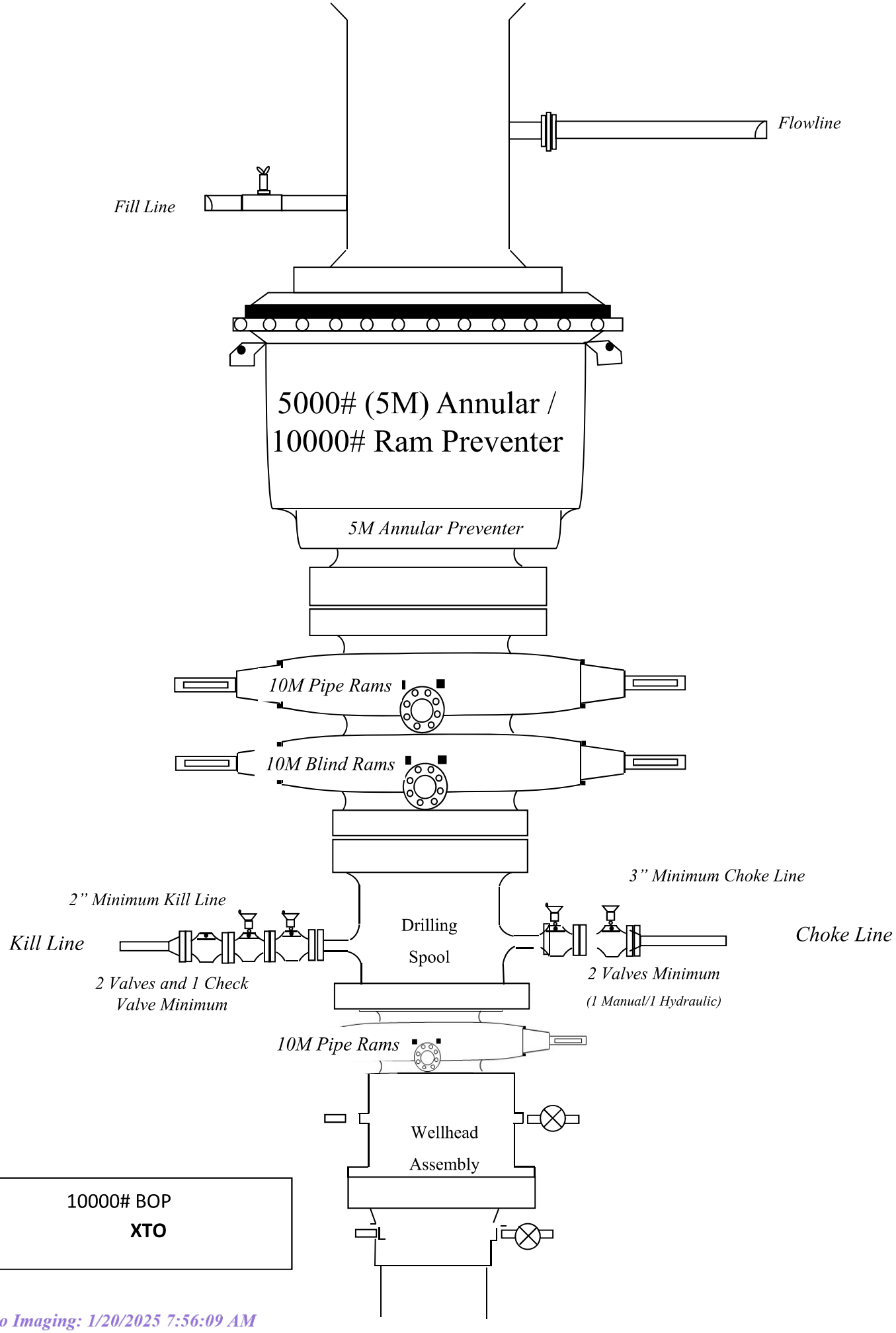
Only **ONE** test will occur during each break test procedure.

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.

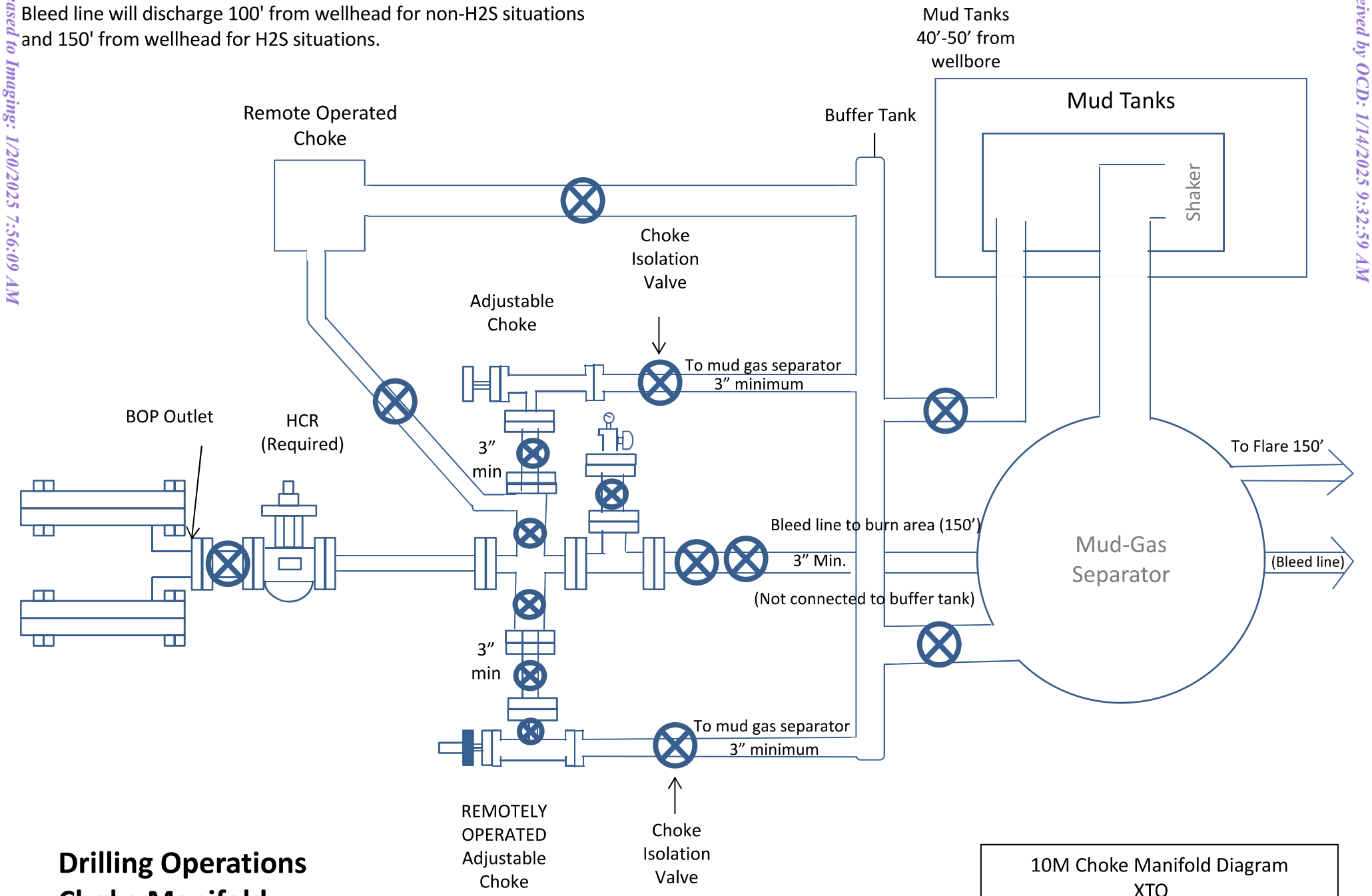
The connection between the BOP stack / BOP Quick Connect and wellhead will be broken, as well as, the connection between the HCV and Choke Line on each skid and will be re-tested each time.



10000# BOP

XTO

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



Drilling Operations
Choke Manifold
10M Service

10M Choke Manifold Diagram
XTO

U. S. Steel Tubular Products

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

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

Notes

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

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

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

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.

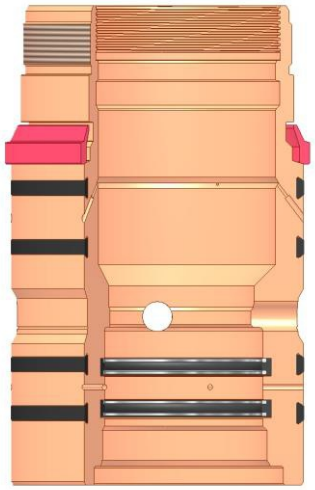
1. Cement Program

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

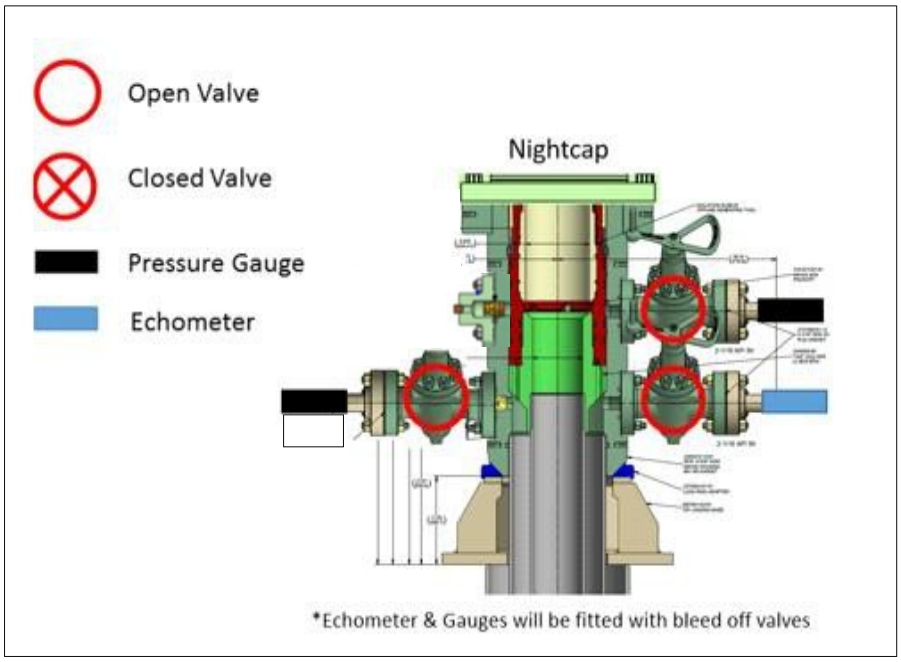
2. Offline Cementing Procedure

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.



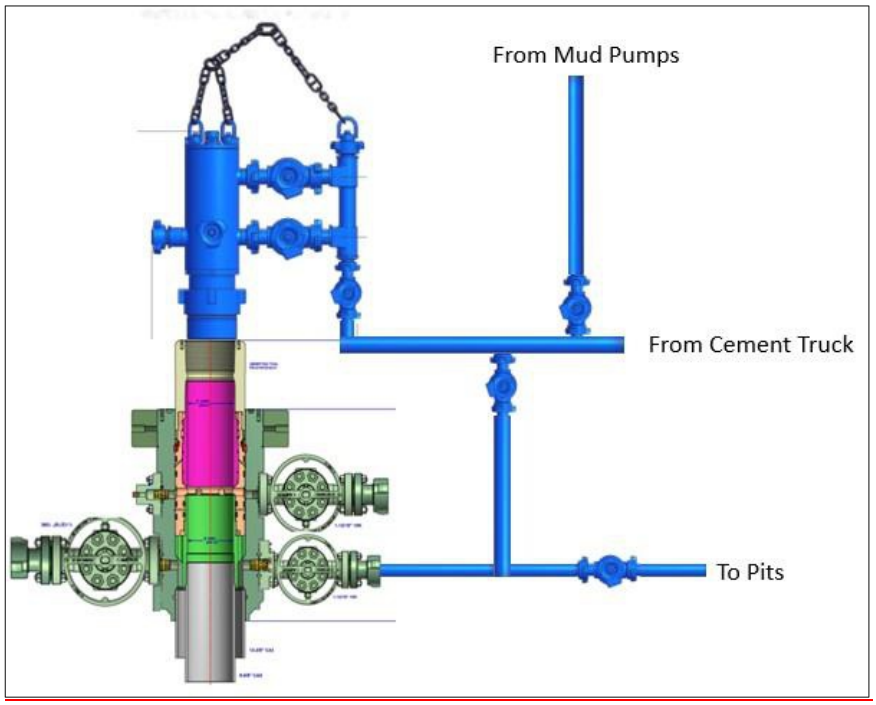
Annular packoff with both external and internal seals



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.

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

Description of Operations:

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

U. S. Steel Tubular Products

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

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

UNCONTROLLED

Notes

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

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

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

BLACK GOLD®

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

PHONE: +1 (281) 602-4100
FAX: +1 (281) 602-4147
EMAIL: gesna.quality@gates.com
WEB: www.gates.com/oilandgas

NEW CHOKE HOSE
INSTALLED 02-10-2024

CERTIFICATE OF CONFORMANCE

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

CUSTOMER:	NABORS DRILLING TECHNOLOGIES USA DBA NABORS DRILLING USA
CUSTOMER P.O.#:	15582803 (TAG NABORS PO #15582803 SN 74621 ASSET 66-1531)
CUSTOMER P/N:	IMR RETEST SN 74621 ASSET #66-1531
PART DESCRIPTION:	RETEST OF CUSTOMER 3" X 45 FT 16C CHOKE & KILL HOSE ASSEMBLY C/W 4 1/16" 10K FLANGES
SALES ORDER #:	529480
QUANTITY:	1
SERIAL #:	74621 H3-012524-1

SIGNATURE: F. OSUNOS

TITLE: QUALITY ASSURANCE

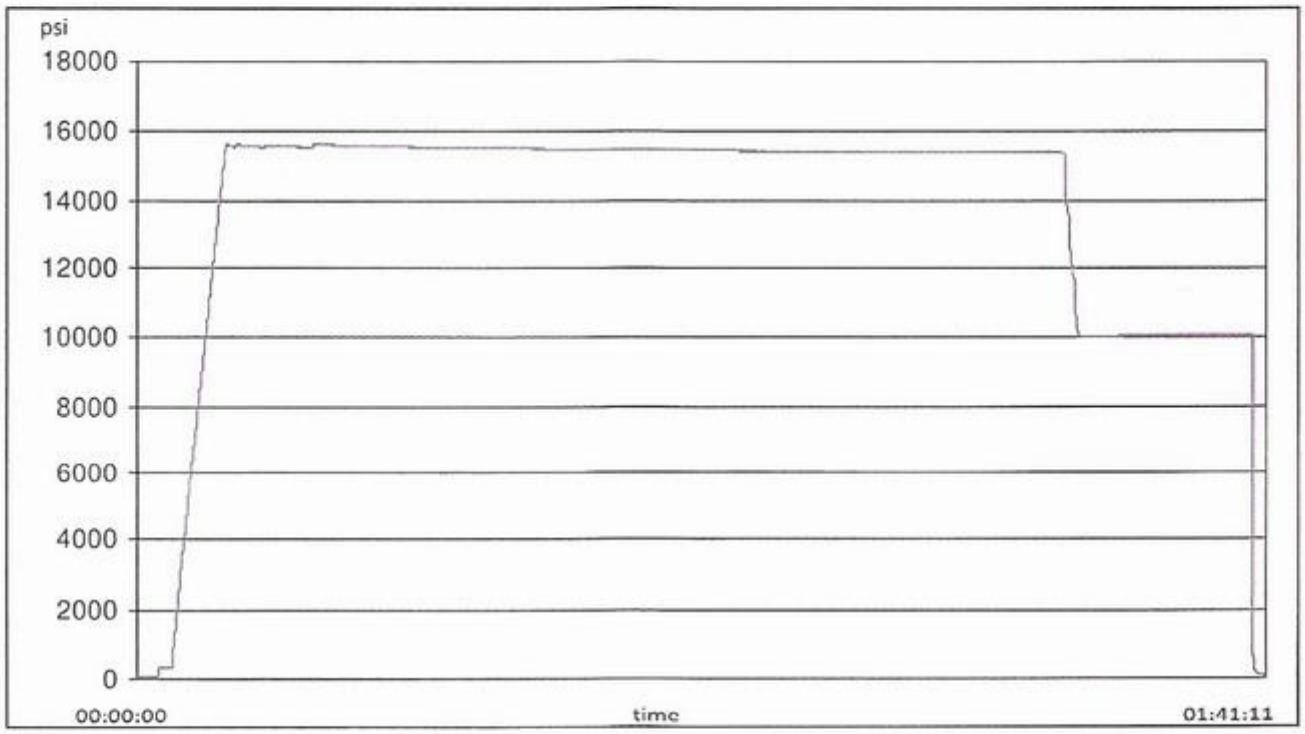
DATE: 1/25/2024

H3-15716

1/25/2024 11:48:06 AM

TEST REPORT

CUSTOMER			TEST OBJECT		
Company:	Nabors Industries Inc.		Serial number:	H3-012524-1	
			Lot number:		
Production description:	74621/66-1531		Description:	74621/66-1531	
Sales order #:	529480				
Customer reference:	FG1213		Hose ID:	3" 16C CK	
			Part number:		
TEST INFORMATION					
Test procedure:	GTS-04-053		Fitting 1:	3.0 x 4-1/16 10K	
Test pressure:	15000.00	psi	Part number:		
Test pressure hold:	3600.00	sec	Description:		
Work pressure:	10000.00	psi			
Work pressure hold:	900.00	sec	Fitting 2:	3.0 x 4-1/16 10K	
Length difference:	0.00	%	Part number:		
Length difference:	0.00	inch	Description:		
Visual check:			Length:	45	feet
Pressure test result:	PASS				
Length measurement result:					
Test operator:	Travis				



H3-15716

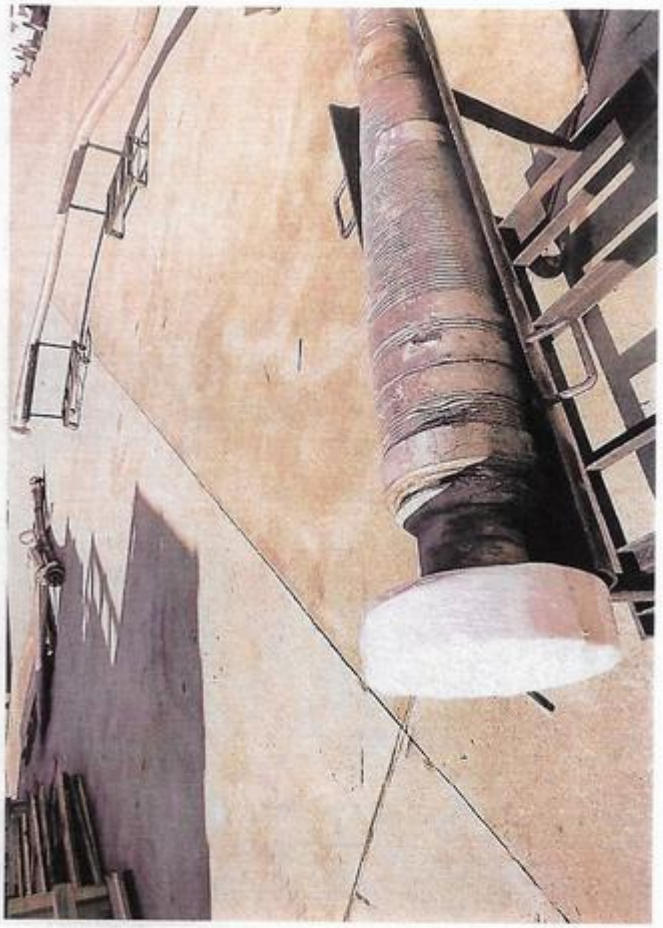
1/25/2024 11:48:06 AM

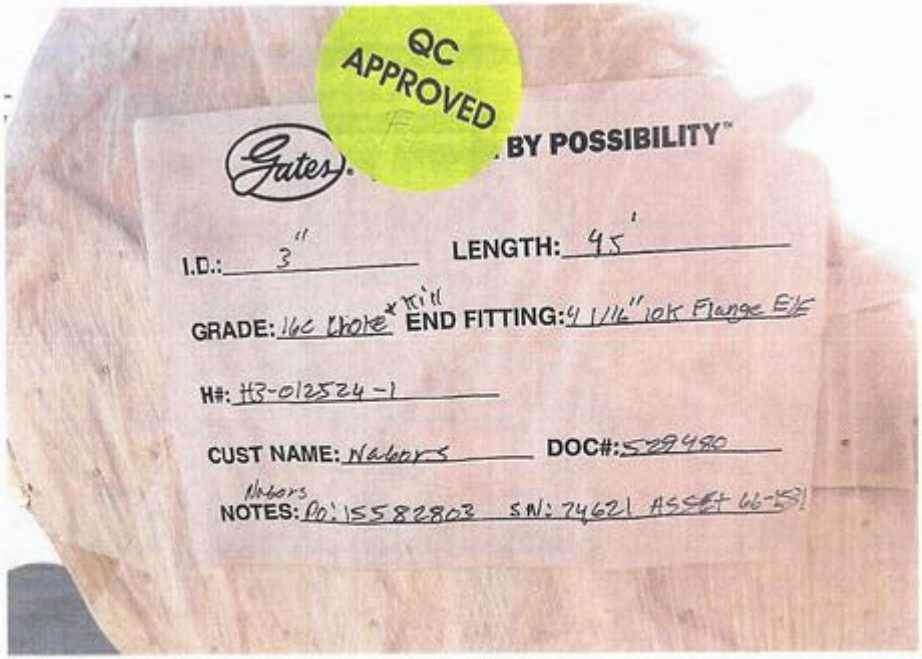
TEST REPORT

GAUGE TRACEABILITY

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

Comment





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

General Information
Phone: (505) 629-6116

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

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

CONDITIONS

Action 420380

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 420380
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Any previous COA's not addressed within the updated COA's still apply.	1/20/2025