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

Sundry Print Report

07/01/2024

Well Name: POKER LAKE UNIT 21 DTD

Well Location: T24S / R30E / SEC 21 / NWNW / 32.209384 / -103.893727

County or Parish/State: EDDY / NM

Well Number: 102H

Type of Well: CONVENTIONAL GAS WELL

Allottee or Tribe Name:

Lease Number: NMLC68430

Unit or CA Name: POKER LAKE UNIT

Unit or CA Number: NMNM71016X

US Well Number: 3001553214

Operator: XTO PERMIAN OPERATING LLC

Notice of Intent

Sundry ID: 2784106

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 04/09/2024

Time Sundry Submitted: 12:46

Date proposed operation will begin: 04/30/2024

Procedure Description: XTO Permian Operating, LLC. respectfully requests approval to make the following changes to the approved APD. Changes to include SHL, FTP, LTP, BHL, Casing sizes, Cement, Proposed total Depth, and formation (Pool). FROM: TO: SHL: 391' FNL & 358' FWL OF SECTION 21-T24S-R30E 201' FNL & 327' FWL OF SECTION 21-T24S-R30E FTP: 386' FNL & 1145' FWL OF SECTION 21-T24S-R30E 100' FNL & 394' FWL OF SECTION 21-T24S-R30E LTP: 329' FNL & 1291' FWL OF SECTION 33-T23S-R30E 2542' FNL & 394' FWL OF SECTION 33-T24S-R30E BHL: 200' FNL & 1291' FWL OF SECTION 33-T23S-R30E 2632' FNL & 394' FWL OF SECTION 33-T24S-R30E The proposed total depth is changing from 32585’ MD; 10857’ TVD (Wolfcamp) to 23907’ MD; 11112’ TVD (Wolfcamp A). See attached Drilling Plan for updated cement and casing program. Attachments: C-102, Drilling Plan, Directional Plan, MBS, BOP Variance and Well Control Plan.

NOI Attachments

Procedure Description

PLU_21_DTD_102H_Sundry_Attachments_20240502143341.pdf

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Lease Number: NMLC68430

Unit or CA Name: POKER LAKE UNIT

Unit or CA Number: NMNM71016X

US Well Number: 3001553214

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: MAY 02, 2024 02:33 PM

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: 07/01/2024

Signature: Chris Walls

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.

6. If Indian, Allottee or Tribe Name

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

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

8. Well Name and No.

2. Name of Operator

9. API Well No.

3a. Address

3b. Phone No. *(include area code)*

10. Field and Pool or Exploratory Area

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)*

11. Country or Parish, State

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.)

14. I hereby certify that the foregoing is true and correct. Name *(Printed/Typed)*

Title

Signature

Date

THE SPACE FOR FEDERAL OR STATE OFICE USE

Approved by

Title

Date

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

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

Attachments: C-102, Drilling Plan, Directional Plan, MBS, BOP Variance and Well Control Plan.

Location of Well

0. SHL: NWNW / 391 FNL / 358 FWL / TWSP: 24S / RANGE: 30E / SECTION: 21 / LAT: 32.209384 / LONG: -103.893727 (TVD: 0 feet, MD: 0 feet)

PPP: NWNW / 386 FNL / 1145 FWL / TWSP: 24S / RANGE: 30E / SECTION: 21 / LAT: 32.209395 / LONG: -103.893841 (TVD: 10857 feet, MD: 11238 feet)

BHL: NWNW / 200 FNL / 1291 FWL / TWSP: 23S / RANGE: 30E / SECTION: 33 / LAT: 32.268082 / LONG: -103.890707 (TVD: 10857 feet, MD: 32585 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

[1] API Number	[2] Pool Code	[3] Pool Name
30-015-53214	98220	PURPLE SAGE;WOLFCAMP (GAS)

[4] Property Code	[5] Property Name	[6] Well Number
333571	POKER LAKE UNIT 21 DTD	102H

[7] OGRID No.	[8] Operator Name	[9] Elevation
373075	XTO PERMIAN OPERATING, LLC.	3,316'

[10] Surface Location

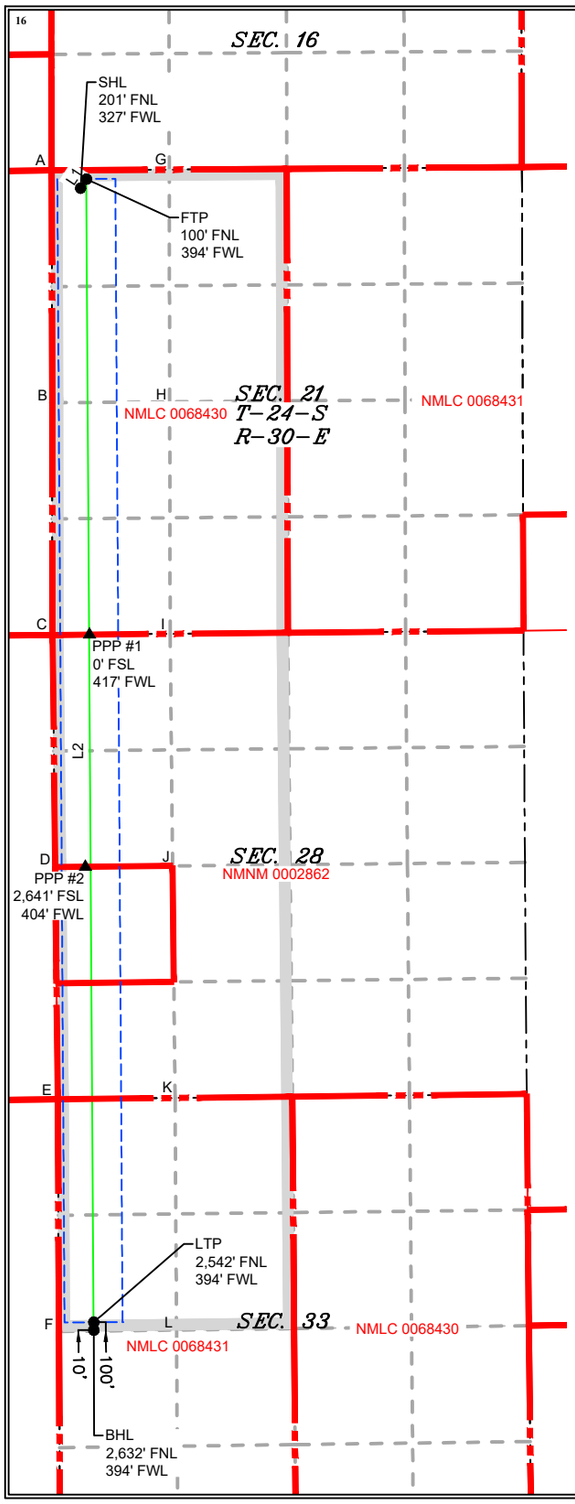
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	21	24S	30E		201	NORTH	327	WEST	EDDY

[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
E	33	24S	30E		2,632	NORTH	394	WEST	EDDY

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
800.00			

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.



LEGEND

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

LINE TABLE		
LINE	AZIMUTH	LENGTH
L1	033°17'49"	120.95'
L2	179°38'23"	13,100.45'

COORDINATE TABLE

	SHL (NAD 83 NME)	SHL (NAD 27 NME)
Y =	440,375.7 N	440,316.4 N
X =	677,268.9 E	636,085.2 E
LAT. =	32.209906 °N	32.209781 °N
LONG. =	103.893826 °W	103.893338 °W

	FTP (NAD 83 NME)	FTP (NAD 27 NME)
Y =	440,476.8 N	440,417.5 N
X =	677,335.3 E	636,151.6 E
LAT. =	32.210183 °N	32.210058 °N
LONG. =	103.893610 °W	103.893122 °W

	PPP #1 (NAD 83 NME)	PPP #1 (NAD 27 NME)
Y =	435,291.8 N	435,232.7 N
X =	677,368.0 E	636,184.1 E
LAT. =	32.195930 °N	32.195805 °N
LONG. =	103.893573 °W	103.893086 °W

	PPP #2 (NAD 83 NME)	PPP #2 (NAD 27 NME)
Y =	432,649.5 N	432,590.4 N
X =	677,384.6 E	636,200.6 E
LAT. =	32.188666 °N	32.188542 °N
LONG. =	103.893554 °W	103.893068 °W

	LTP (NAD 83 NME)	LTP (NAD 27 NME)
Y =	427,466.6 N	427,407.6 N
X =	677,417.2 E	636,233.1 E
LAT. =	32.174419 °N	32.174294 °N
LONG. =	103.893517 °W	103.893031 °W

	BHL (NAD 83 NME)	BHL (NAD 27 NME)
Y =	427,376.6 N	427,317.6 N
X =	677,417.7 E	636,233.5 E
LAT. =	32.174172 °N	32.174047 °N
LONG. =	103.893517 °W	103.893031 °W

CORNER COORDINATES (NAD 83 NME)

A - Y =	440,574.0 N	A - X =	676,941.2 E
B - Y =	437,930.7 N	B - X =	676,946.1 E
C - Y =	435,287.9 N	C - X =	676,950.7 E
D - Y =	432,645.4 N	D - X =	676,980.5 E
E - Y =	430,004.1 N	E - X =	677,010.5 E
F - Y =	427,361.7 N	F - X =	677,023.8 E
G - Y =	440,583.3 N	G - X =	678,278.3 E
H - Y =	437,940.9 N	H - X =	678,283.6 E
I - Y =	435,300.4 N	I - X =	678,288.8 E
J - Y =	432,659.0 N	J - X =	678,316.8 E
K - Y =	430,019.0 N	K - X =	678,344.9 E
L - Y =	427,374.3 N	L - X =	678,361.6 E

CORNER COORDINATES (NAD 27 NME)

A - Y =	440,514.7 N	A - X =	635,757.5 E
B - Y =	437,871.5 N	B - X =	635,762.3 E
C - Y =	435,228.8 N	C - X =	635,766.8 E
D - Y =	432,586.3 N	D - X =	635,796.5 E
E - Y =	429,945.0 N	E - X =	635,826.4 E
F - Y =	427,302.8 N	F - X =	635,839.6 E
G - Y =	440,524.0 N	G - X =	637,094.6 E
H - Y =	437,881.6 N	H - X =	637,099.8 E
I - Y =	435,241.2 N	I - X =	637,104.9 E
J - Y =	432,600.0 N	J - X =	637,132.8 E
K - Y =	429,960.0 N	K - X =	637,160.8 E
L - Y =	427,315.3 N	L - X =	637,177.5 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.

Terra Sebastian 5/2/2024
Signature Date

Terra Sebastian
Printed Name

terra.b.sebastian@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.

4/29/2024
Date of Survey

Signature and Seal of Professional Surveyor:

MARK DILLON HARP NEW MEXICO 23786 PROFESSIONAL SURVEYOR

MARK DILLON HARP 23786
Certificate Number

RP 618.013003.07-39

Intent ☐ As Drilled ☐

API #

Operator Name:	Property Name:	Well Number

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County

Latitude	Longitude	NAD

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County

Latitude	Longitude	NAD

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County

Latitude	Longitude	NAD

Is this well the defining well for the Horizontal Spacing Unit? ☐

Is this well an infill well? ☐

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #

Operator Name:	Property Name:	Well Number

KZ 06/29/2018

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

XTO Energy Inc.
POKER LAKE UNIT 21 DTD 102H
Projected TD: 23907' MD / 11112' TVD
SHL: 201' FNL & 327' FWL , Section 21, T24S, R30E
BHL: 2632' FNL & 394' FWL , Section 33, T23S, 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	878'	Water
Top of Salt	1281'	Water
Base of Salt	3474'	Water
Delaware	3668'	Water
Brushy Canyon	6214'	Water/Oil/Gas
Bone Spring	7538'	Water
Avalon	8231'	Water/Oil/Gas
1st Bone Spring	8247'	Water/Oil/Gas
2nd Bone Spring	8832'	Water/Oil/Gas
3rd Bone Spring	9658'	Water/Oil/Gas
Wolfcamp	10843'	Water/Oil/Gas
Wolfcamp X	10864'	Water/Oil/Gas
Wolfcamp Y	10945'	Water/Oil/Gas
Wolfcamp A	10992'	Water/Oil/Gas
Target/Land Curve	11112'	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 @ 978' (303' 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 10198' and cemented to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 23907 MD/TD and 5.5 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 9898 feet).

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0’ – 978'	9.625	40	J-55	BTC	New	1.63	6.44	16.10
8.75	0’ – 4000'	7.625	29.7	RY P-110	Flush Joint	New	2.25	2.92	1.84
8.75	4000' – 10198'	7.625	29.7	HC L-80	Flush Joint	New	1.64	2.34	2.21
6.75	0’ – 10098'	5.5	20	RY P-110	Semi-Premium	New	1.05	1.84	2.02
6.75	10098' - 23907'	5.5	20	RY P-110	Semi-Flush	New	1.05	1.67	2.02

· XTO requests the option to utilize a spudder rig (Atlas Copco RD20 or Equivalent) to set and cement surface casing per this Sundry
· 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: 11” 10M top flange x 9-5/8” bottom

B. Tubing Head: 11” 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.

4. Cement Program

Surface Casing: 9.625, 40 New BTC, J-55 casing to be set at +/- 978'

Lead: 220 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

2nd Intermediate Casing: 7.625, 29.7 New casing to be set at +/- 10198'
1st Stage
Optional Lead: 330 sxs Class C (mixed at 10.5 ppg, 2.77 ft3/sx, 15.59 gal/sx water)
TOC: Surface
Tail: 370 sxs Class C (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)
TOC: Brushy Canyon @ 6214
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: 700 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 (6214') 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 Semi-Flush, RY P-110 casing to be set at +/- 23907'

Lead: 20 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft3/sx, 15.00 gal/sx water) Top of Cement: 9898 feet
Tail: 970 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft3/sx, 8.38 gal/sx water) Top of Cement: 10398 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 9.625 casing, the blow out preventer equipment (BOP) will consist of a 13-5/8" minimum 5M Hydril and a 13-5/8" minimum 10M Double Ram BOP. MASP should not exceed 4200 psi. In any instance where 10M BOP is required by BLM, XTO requests a variance to utilize 5M annular with 10M ram preventers (a common BOP configuration, which allows use of 10M rams in unlikely event that pressures exceed 5M).

All BOP testing will be done by an independent service company. Annular pressure tests will be limited to 50% of the working pressure. When nippling up on the 9.625, 10M bradenhead and flange, the BOP test will be limited to 10000 psi. When nippling up on the 7.625, the BOP will be tested to a minimum of 10000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 10M BOP diagrams are attached. Blind rams will be functioned tested each trip, pipe rams will be functioned tested each week.

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' - 978'	12.25	FW/Native	8.4-8.9	35-40	NC
978' - 10198'	8.75	FW / Cut Brine / Direct Emulsion	8.8-9.3	30-32	NC
10198' - 23907'	6.75	OBM	11.5-12	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 9-5/8" surface casing with brine solution. 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 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 175 to 195 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 6645 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 - Poker Lake Unit 21 DTD South 102H

Measured Depth:	23907.35 ft
TVD RKB:	11112.00 ft
Location	
Cartographic Reference System:	New Mexico East - NAD 27
Northing:	440316.40 ft
Easting:	636085.20 ft
RKB:	3348.00 ft
Ground Level:	3316.00 ft
North Reference:	Grid
Convergence Angle:	0.23 Deg

Plan Sections Poker Lake Unit 21 DTD South 102H

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	
1224.78	2.50	33.30	1224.74	2.27	1.49	2.00	0.00	2.00	
3877.81	2.50	33.30	3875.26	98.83	64.91	0.00	0.00	0.00	
4002.60	0.00	0.00	4000.00	101.10	66.40	-2.00	0.00	2.00	
10398.40	0.00	0.00	10395.80	101.10	66.40	0.00	0.00	0.00	
11523.40	90.00	179.64	11112.00	-615.08	70.89	8.00	0.00	8.00	
23817.35	90.00	179.64	11112.00	-12908.80	147.92	0.00	0.00	0.00	LTP 2
23907.35	90.00	179.64	11112.00	-12998.80	148.48	0.00	0.00	0.00	BHL 2

Position Uncertainty Poker Lake Unit 21 DTD South 102H

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	MWD+IFR1+MS
100.000	0.000	0.000	100.000	0.700	0.000	0.350	0.000	2.300	0.000	0.000	0.751	0.220	112.264	MWD+IFR1+MS
200.000	0.000	0.000	200.000	1.112	0.000	0.861	0.000	2.309	0.000	0.000	1.259	0.627	122.711	MWD+IFR1+MS
300.000	0.000	0.000	300.000	1.497	0.000	1.271	0.000	2.325	0.000	0.000	1.698	0.986	125.469	MWD+IFR1+MS
400.000	0.000	0.000	400.000	1.871	0.000	1.658	0.000	2.347	0.000	0.000	2.108	1.344	126.713	MWD+IFR1+MS
500.000	0.000	0.000	500.000	2.240	0.000	2.034	0.000	2.374	0.000	0.000	2.503	1.701	127.419	MWD+IFR1+MS
600.000	0.000	0.000	600.000	2.607	0.000	2.405	0.000	2.406	0.000	0.000	2.888	2.059	127.873	MWD+IFR1+MS
700.000	0.000	0.000	700.000	2.971	0.000	2.773	0.000	2.443	0.000	0.000	3.267	2.417	128.190	MWD+IFR1+MS
800.000	0.000	0.000	800.000	3.334	0.000	3.138	0.000	2.485	0.000	0.000	3.642	2.775	128.423	MWD+IFR1+MS
900.000	0.000	0.000	900.000	3.696	0.000	3.502	0.000	2.530	0.000	0.000	4.014	3.133	128.602	MWD+IFR1+MS
1000.000	0.000	0.000	1000.000	4.058	0.000	3.865	0.000	2.580	0.000	0.000	4.384	3.491	128.744	MWD+IFR1+MS
1100.000	0.000	0.000	1100.000	4.419	0.000	4.228	0.000	2.633	0.000	0.000	4.752	3.849	128.859	MWD+IFR1+MS
1200.000	2.000	33.296	1199.980	5.281	0.000	4.229	0.000	2.689	0.000	0.000	5.299	4.210	130.567	MWD+IFR1+MS
1224.781	2.496	33.296	1224.742	5.363	0.000	4.317	0.000	2.703	0.000	0.000	5.383	4.298	130.564	MWD+IFR1+MS
1300.000	2.496	33.296	1299.889	5.595	0.000	4.586	0.000	2.748	0.000	0.000	5.615	4.567	130.675	MWD+IFR1+MS
1400.000	2.496	33.296	1399.794	5.915	0.000	4.966	0.000	2.811	0.000	0.000	5.939	4.942	131.729	MWD+IFR1+MS
1500.000	2.496	33.296	1499.700	6.246	0.000	5.350	0.000	2.876	0.000	0.000	6.276	5.320	133.155	MWD+IFR1+MS
1600.000	2.496	33.296	1599.605	6.580	0.000	5.731	0.000	2.944	0.000	0.000	6.616	5.693	134.512	MWD+IFR1+MS
1700.000	2.496	33.296	1699.510	6.917	0.000	6.109	0.000	3.014	0.000	0.000	6.959	6.064	-44.200	MWD+IFR1+MS
1800.000	2.496	33.296	1799.415	7.256	0.000	6.485	0.000	3.086	0.000	0.000	7.305	6.433	-42.981	MWD+IFR1+MS
1900.000	2.496	33.296	1899.320	7.596	0.000	6.859	0.000	3.160	0.000	0.000	7.652	6.800	-41.832	MWD+IFR1+MS
2000.000	2.496	33.296	1999.225	7.939	0.000	7.232	0.000	3.236	0.000	0.000	8.001	7.165	-40.750	MWD+IFR1+MS
2100.000	2.496	33.296	2099.130	8.283	0.000	7.603	0.000	3.314	0.000	0.000	8.351	7.529	-39.733	MWD+IFR1+MS
2200.000	2.496	33.296	2199.036	8.628	0.000	7.973	0.000	3.393	0.000	0.000	8.703	7.893	-38.778	MWD+IFR1+MS
2300.000	2.496	33.296	2298.941	8.975	0.000	8.342	0.000	3.474	0.000	0.000	9.055	8.255	-37.882	MWD+IFR1+MS
2400.000	2.496	33.296	2398.846	9.322	0.000	8.710	0.000	3.557	0.000	0.000	9.409	8.617	-37.042	MWD+IFR1+MS
2500.000	2.496	33.296	2498.751	9.670	0.000	9.077	0.000	3.641	0.000	0.000	9.763	8.978	-36.254	MWD+IFR1+MS
2600.000	2.496	33.296	2598.656	10.019	0.000	9.444	0.000	3.726	0.000	0.000	10.118	9.338	-35.515	MWD+IFR1+MS
2700.000	2.496	33.296	2698.561	10.369	0.000	9.810	0.000	3.813	0.000	0.000	10.473	9.699	-34.822	MWD+IFR1+MS
2800.000	2.496	33.296	2798.467	10.720	0.000	10.175	0.000	3.901	0.000	0.000	10.829	10.058	-34.172	MWD+IFR1+MS
2900.000	2.496	33.296	2898.372	11.071	0.000	10.540	0.000	3.991	0.000	0.000	11.185	10.418	-33.562	MWD+IFR1+MS

3000.000	2.496	33.296	2998.277	11.423	0.000	10.905	0.000	4.082	0.000	0.000	11.541	10.778	-32.989	MWD+IFR1+MS
3100.000	2.496	33.296	3098.182	11.775	0.000	11.269	0.000	4.174	0.000	0.000	11.898	11.137	-32.451	MWD+IFR1+MS
3200.000	2.496	33.296	3198.087	12.127	0.000	11.633	0.000	4.268	0.000	0.000	12.255	11.496	-31.945	MWD+IFR1+MS
3300.000	2.496	33.296	3297.992	12.480	0.000	11.996	0.000	4.363	0.000	0.000	12.612	11.855	-31.469	MWD+IFR1+MS
3400.000	2.496	33.296	3397.897	12.834	0.000	12.359	0.000	4.459	0.000	0.000	12.969	12.214	-31.020	MWD+IFR1+MS
3500.000	2.496	33.296	3497.803	13.187	0.000	12.722	0.000	4.557	0.000	0.000	13.327	12.573	-30.598	MWD+IFR1+MS
3600.000	2.496	33.296	3597.708	13.542	0.000	13.085	0.000	4.656	0.000	0.000	13.685	12.931	-30.200	MWD+IFR1+MS
3700.000	2.496	33.296	3697.613	13.896	0.000	13.447	0.000	4.757	0.000	0.000	14.043	13.290	-29.825	MWD+IFR1+MS
3800.000	2.496	33.296	3797.518	14.250	0.000	13.809	0.000	4.859	0.000	0.000	14.400	13.648	-29.471	MWD+IFR1+MS
3877.814	2.496	33.296	3875.258	14.523	0.000	14.087	0.000	4.940	0.000	0.000	14.672	13.927	-29.375	MWD+IFR1+MS
3900.000	2.052	33.296	3897.427	14.600	0.000	14.165	0.000	4.963	0.000	0.000	14.747	14.006	-29.420	MWD+IFR1+MS
4002.595	0.000	0.000	4000.000	14.618	0.000	14.928	0.000	5.070	0.000	0.000	15.137	14.401	-32.561	MWD+IFR1+MS
4100.000	0.000	0.000	4097.405	15.029	0.000	15.268	0.000	5.173	0.000	0.000	15.517	14.771	-35.666	MWD+IFR1+MS
4200.000	0.000	0.000	4197.405	15.389	0.000	15.617	0.000	5.280	0.000	0.000	15.874	15.124	-36.122	MWD+IFR1+MS
4300.000	0.000	0.000	4297.405	15.749	0.000	15.968	0.000	5.388	0.000	0.000	16.231	15.478	-36.560	MWD+IFR1+MS
4400.000	0.000	0.000	4397.405	16.109	0.000	16.318	0.000	5.499	0.000	0.000	16.588	15.832	-36.976	MWD+IFR1+MS
4500.000	0.000	0.000	4497.405	16.469	0.000	16.669	0.000	5.610	0.000	0.000	16.945	16.186	-37.370	MWD+IFR1+MS
4600.000	0.000	0.000	4597.405	16.830	0.000	17.021	0.000	5.724	0.000	0.000	17.303	16.540	-37.744	MWD+IFR1+MS
4700.000	0.000	0.000	4697.405	17.190	0.000	17.372	0.000	5.839	0.000	0.000	17.660	16.894	-38.099	MWD+IFR1+MS
4800.000	0.000	0.000	4797.405	17.549	0.000	17.724	0.000	5.956	0.000	0.000	18.018	17.248	-38.437	MWD+IFR1+MS
4900.000	0.000	0.000	4897.405	17.909	0.000	18.076	0.000	6.075	0.000	0.000	18.375	17.602	-38.759	MWD+IFR1+MS
5000.000	0.000	0.000	4997.405	18.269	0.000	18.429	0.000	6.196	0.000	0.000	18.733	17.957	-39.066	MWD+IFR1+MS
5100.000	0.000	0.000	5097.405	18.629	0.000	18.781	0.000	6.319	0.000	0.000	19.091	18.311	-39.359	MWD+IFR1+MS
5200.000	0.000	0.000	5197.405	18.989	0.000	19.134	0.000	6.443	0.000	0.000	19.449	18.666	-39.638	MWD+IFR1+MS
5300.000	0.000	0.000	5297.405	19.348	0.000	19.487	0.000	6.570	0.000	0.000	19.807	19.021	-39.905	MWD+IFR1+MS
5400.000	0.000	0.000	5397.405	19.708	0.000	19.841	0.000	6.698	0.000	0.000	20.165	19.376	-40.160	MWD+IFR1+MS
5500.000	0.000	0.000	5497.405	20.067	0.000	20.194	0.000	6.829	0.000	0.000	20.523	19.731	-40.405	MWD+IFR1+MS
5600.000	0.000	0.000	5597.405	20.427	0.000	20.548	0.000	6.962	0.000	0.000	20.881	20.086	-40.639	MWD+IFR1+MS
5700.000	0.000	0.000	5697.405	20.786	0.000	20.901	0.000	7.097	0.000	0.000	21.239	20.441	-40.863	MWD+IFR1+MS
5800.000	0.000	0.000	5797.405	21.146	0.000	21.255	0.000	7.234	0.000	0.000	21.597	20.796	-41.078	MWD+IFR1+MS
5900.000	0.000	0.000	5897.405	21.505	0.000	21.609	0.000	7.373	0.000	0.000	21.956	21.152	-41.285	MWD+IFR1+MS
6000.000	0.000	0.000	5997.405	21.865	0.000	21.964	0.000	7.515	0.000	0.000	22.314	21.507	-41.483	MWD+IFR1+MS
6100.000	0.000	0.000	6097.405	22.224	0.000	22.318	0.000	7.658	0.000	0.000	22.672	21.863	-41.674	MWD+IFR1+MS

6200.000	0.000	0.000	6197.405	22.584	0.000	22.672	0.000	7.804	0.000	0.000	23.030	22.218	-41.858	MWD+IFR1+MS
6300.000	0.000	0.000	6297.405	22.943	0.000	23.027	0.000	7.953	0.000	0.000	23.389	22.574	-42.035	MWD+IFR1+MS
6400.000	0.000	0.000	6397.405	23.302	0.000	23.382	0.000	8.103	0.000	0.000	23.747	22.930	-42.205	MWD+IFR1+MS
6500.000	0.000	0.000	6497.405	23.661	0.000	23.737	0.000	8.256	0.000	0.000	24.105	23.286	-42.369	MWD+IFR1+MS
6600.000	0.000	0.000	6597.405	24.021	0.000	24.092	0.000	8.412	0.000	0.000	24.464	23.642	-42.527	MWD+IFR1+MS
6700.000	0.000	0.000	6697.405	24.380	0.000	24.447	0.000	8.570	0.000	0.000	24.822	23.998	-42.680	MWD+IFR1+MS
6800.000	0.000	0.000	6797.405	24.739	0.000	24.802	0.000	8.730	0.000	0.000	25.180	24.354	-42.828	MWD+IFR1+MS
6900.000	0.000	0.000	6897.405	25.098	0.000	25.157	0.000	8.893	0.000	0.000	25.539	24.710	-42.970	MWD+IFR1+MS
7000.000	0.000	0.000	6997.405	25.457	0.000	25.512	0.000	9.058	0.000	0.000	25.897	25.066	-43.108	MWD+IFR1+MS
7100.000	0.000	0.000	7097.405	25.817	0.000	25.868	0.000	9.226	0.000	0.000	26.256	25.422	-43.241	MWD+IFR1+MS
7200.000	0.000	0.000	7197.405	26.176	0.000	26.223	0.000	9.397	0.000	0.000	26.614	25.778	-43.370	MWD+IFR1+MS
7300.000	0.000	0.000	7297.405	26.535	0.000	26.579	0.000	9.570	0.000	0.000	26.972	26.135	-43.495	MWD+IFR1+MS
7400.000	0.000	0.000	7397.405	26.894	0.000	26.934	0.000	9.745	0.000	0.000	27.331	26.491	-43.616	MWD+IFR1+MS
7500.000	0.000	0.000	7497.405	27.253	0.000	27.290	0.000	9.924	0.000	0.000	27.689	26.847	-43.733	MWD+IFR1+MS
7600.000	0.000	0.000	7597.405	27.612	0.000	27.646	0.000	10.105	0.000	0.000	28.048	27.204	-43.846	MWD+IFR1+MS
7700.000	0.000	0.000	7697.405	27.971	0.000	28.002	0.000	10.288	0.000	0.000	28.406	27.560	-43.956	MWD+IFR1+MS
7800.000	0.000	0.000	7797.405	28.330	0.000	28.358	0.000	10.475	0.000	0.000	28.765	27.917	-44.063	MWD+IFR1+MS
7900.000	0.000	0.000	7897.405	28.689	0.000	28.714	0.000	10.664	0.000	0.000	29.123	28.273	-44.167	MWD+IFR1+MS
8000.000	0.000	0.000	7997.405	29.048	0.000	29.070	0.000	10.855	0.000	0.000	29.482	28.630	-44.268	MWD+IFR1+MS
8100.000	0.000	0.000	8097.405	29.407	0.000	29.426	0.000	11.050	0.000	0.000	29.840	28.987	-44.365	MWD+IFR1+MS
8200.000	0.000	0.000	8197.405	29.766	0.000	29.782	0.000	11.247	0.000	0.000	30.199	29.343	-44.460	MWD+IFR1+MS
8300.000	0.000	0.000	8297.405	30.125	0.000	30.138	0.000	11.447	0.000	0.000	30.557	29.700	-44.553	MWD+IFR1+MS
8400.000	0.000	0.000	8397.405	30.484	0.000	30.495	0.000	11.650	0.000	0.000	30.916	30.057	-44.643	MWD+IFR1+MS
8500.000	0.000	0.000	8497.405	30.843	0.000	30.851	0.000	11.855	0.000	0.000	31.274	30.414	-44.730	MWD+IFR1+MS
8600.000	0.000	0.000	8597.405	31.202	0.000	31.207	0.000	12.064	0.000	0.000	31.633	30.771	-44.815	MWD+IFR1+MS
8700.000	0.000	0.000	8697.405	31.561	0.000	31.564	0.000	12.275	0.000	0.000	31.991	31.127	-44.898	MWD+IFR1+MS
8800.000	0.000	0.000	8797.405	31.920	0.000	31.920	0.000	12.489	0.000	0.000	32.350	31.484	-44.979	MWD+IFR1+MS
8900.000	0.000	0.000	8897.405	32.279	0.000	32.277	0.000	12.706	0.000	0.000	32.708	31.841	134.942	MWD+IFR1+MS
9000.000	0.000	0.000	8997.405	32.637	0.000	32.633	0.000	12.925	0.000	0.000	33.067	32.198	134.866	MWD+IFR1+MS
9100.000	0.000	0.000	9097.405	32.996	0.000	32.990	0.000	13.148	0.000	0.000	33.425	32.555	134.791	MWD+IFR1+MS
9200.000	0.000	0.000	9197.405	33.355	0.000	33.347	0.000	13.373	0.000	0.000	33.784	32.912	134.718	MWD+IFR1+MS
9300.000	0.000	0.000	9297.405	33.714	0.000	33.703	0.000	13.602	0.000	0.000	34.142	33.269	134.647	MWD+IFR1+MS
9400.000	0.000	0.000	9397.405	34.073	0.000	34.060	0.000	13.833	0.000	0.000	34.501	33.627	134.577	MWD+IFR1+MS

9500.000	0.000	0.000	9497.405	34.432	0.000	34.417	0.000	14.067	0.000	0.000	34.859	33.984	134.510	MWD+IFR1+MS
9600.000	0.000	0.000	9597.405	34.791	0.000	34.774	0.000	14.304	0.000	0.000	35.218	34.341	134.444	MWD+IFR1+MS
9700.000	0.000	0.000	9697.405	35.149	0.000	35.130	0.000	14.544	0.000	0.000	35.576	34.698	134.379	MWD+IFR1+MS
9800.000	0.000	0.000	9797.405	35.508	0.000	35.487	0.000	14.787	0.000	0.000	35.935	35.055	134.316	MWD+IFR1+MS
9900.000	0.000	0.000	9897.405	35.867	0.000	35.844	0.000	15.033	0.000	0.000	36.293	35.412	134.254	MWD+IFR1+MS
10000.000	0.000	0.000	9997.405	36.226	0.000	36.201	0.000	15.282	0.000	0.000	36.652	35.770	134.194	MWD+IFR1+MS
10100.000	0.000	0.000	10097.405	36.585	0.000	36.558	0.000	15.534	0.000	0.000	37.010	36.127	134.135	MWD+IFR1+MS
10200.000	0.000	0.000	10197.405	36.943	0.000	36.915	0.000	15.788	0.000	0.000	37.369	36.484	134.078	MWD+IFR1+MS
10300.000	0.000	0.000	10297.405	37.302	0.000	37.272	0.000	16.046	0.000	0.000	37.727	36.841	134.021	MWD+IFR1+MS
10398.395	0.000	0.000	10395.800	37.655	0.000	37.623	0.000	16.303	0.000	0.000	38.080	37.193	133.967	MWD+IFR1+MS
10400.000	0.128	179.641	10397.405	37.654	0.000	37.634	-0.000	16.307	0.000	0.000	38.085	37.199	133.966	MWD+IFR1+MS
10500.000	8.128	179.641	10497.064	37.914	0.000	37.949	-0.000	16.580	0.000	0.000	38.584	37.619	125.270	MWD+IFR1+MS
10600.000	16.128	179.641	10594.753	38.418	0.000	38.258	-0.000	16.943	0.000	0.000	39.791	38.080	108.248	MWD+IFR1+MS
10700.000	24.128	179.641	10688.569	38.335	0.000	38.552	-0.000	17.472	0.000	0.000	40.973	38.411	102.965	MWD+IFR1+MS
10800.000	32.128	179.641	10776.687	37.719	0.000	38.828	-0.000	18.218	0.000	0.000	42.013	38.700	100.762	MWD+IFR1+MS
10900.000	40.128	179.641	10857.391	36.646	0.000	39.083	-0.000	19.203	0.000	0.000	42.880	38.958	99.709	MWD+IFR1+MS
11000.000	48.128	179.641	10929.111	35.221	0.000	39.316	-0.000	20.419	0.000	0.000	43.564	39.189	99.219	MWD+IFR1+MS
11100.000	56.128	179.641	10990.450	33.581	0.000	39.525	-0.000	21.833	0.000	0.000	44.070	39.392	99.061	MWD+IFR1+MS
11200.000	64.128	179.641	11040.216	31.903	0.000	39.708	-0.000	23.397	0.000	0.000	44.413	39.569	99.119	MWD+IFR1+MS
11300.000	72.128	179.641	11077.438	30.396	0.000	39.864	-0.000	25.054	0.000	0.000	44.617	39.718	99.317	MWD+IFR1+MS
11400.000	80.128	179.641	11101.394	29.291	0.000	39.993	-0.000	26.747	0.000	0.000	44.715	39.839	99.588	MWD+IFR1+MS
11500.000	88.128	179.641	11111.615	28.807	0.000	40.093	-0.000	28.419	0.000	0.000	44.747	39.933	99.849	MWD+IFR1+MS
11523.395	90.000	179.641	11111.997	28.479	0.000	40.110	-0.000	28.479	0.000	0.000	44.750	39.949	99.891	MWD+IFR1+MS
11600.000	90.000	179.641	11111.997	28.597	0.000	40.170	-0.000	28.597	0.000	0.000	44.757	40.006	100.043	MWD+IFR1+MS
11700.000	90.000	179.641	11111.997	28.751	0.000	40.265	-0.000	28.751	0.000	0.000	44.768	40.097	100.280	MWD+IFR1+MS
11800.000	90.000	179.641	11111.997	28.927	0.000	40.375	-0.000	28.927	0.000	0.000	44.779	40.202	100.557	MWD+IFR1+MS
11900.000	90.000	179.641	11111.997	29.123	0.000	40.499	-0.000	29.123	0.000	0.000	44.792	40.321	100.878	MWD+IFR1+MS
12000.000	90.000	179.641	11111.997	29.339	0.000	40.638	-0.000	29.339	0.000	0.000	44.807	40.452	101.246	MWD+IFR1+MS
12100.000	90.000	179.641	11111.997	29.574	0.000	40.790	-0.000	29.574	0.000	0.000	44.822	40.597	101.670	MWD+IFR1+MS
12200.000	90.000	179.641	11111.997	29.828	0.000	40.956	-0.000	29.828	0.000	0.000	44.840	40.755	102.157	MWD+IFR1+MS
12300.000	90.000	179.641	11111.997	30.100	0.000	41.135	-0.000	30.100	0.000	0.000	44.859	40.925	102.718	MWD+IFR1+MS
12400.000	90.000	179.641	11111.997	30.390	0.000	41.328	-0.000	30.390	0.000	0.000	44.880	41.107	103.366	MWD+IFR1+MS
12500.000	90.000	179.641	11111.997	30.697	0.000	41.535	-0.000	30.697	0.000	0.000	44.904	41.300	104.118	MWD+IFR1+MS

12600.000	90.000	179.641	11111.997	31.021	0.000	41.754	-0.000	31.021	0.000	0.000	44.930	41.504	104.995	MWD+IFR1+MS
12700.000	90.000	179.641	11111.997	31.361	0.000	41.986	-0.000	31.361	0.000	0.000	44.960	41.719	106.022	MWD+IFR1+MS
12800.000	90.000	179.641	11111.997	31.717	0.000	42.231	-0.000	31.717	0.000	0.000	44.994	41.943	107.234	MWD+IFR1+MS
12900.000	90.000	179.641	11111.997	32.089	0.000	42.488	-0.000	32.089	0.000	0.000	45.032	42.174	108.675	MWD+IFR1+MS
13000.000	90.000	179.641	11111.997	32.475	0.000	42.757	-0.000	32.475	0.000	0.000	45.077	42.413	110.401	MWD+IFR1+MS
13100.000	90.000	179.641	11111.997	32.875	0.000	43.038	-0.000	32.875	0.000	0.000	45.129	42.656	112.480	MWD+IFR1+MS
13200.000	90.000	179.641	11111.997	33.289	0.000	43.331	-0.000	33.289	0.000	0.000	45.192	42.902	114.997	MWD+IFR1+MS
13300.000	90.000	179.641	11111.997	33.716	0.000	43.635	-0.000	33.716	0.000	0.000	45.267	43.146	118.045	MWD+IFR1+MS
13400.000	90.000	179.641	11111.997	34.156	0.000	43.951	-0.000	34.156	0.000	0.000	45.360	43.385	121.708	MWD+IFR1+MS
13500.000	90.000	179.641	11111.997	34.608	0.000	44.277	-0.000	34.608	0.000	0.000	45.476	43.612	126.025	MWD+IFR1+MS
13600.000	90.000	179.641	11111.997	35.072	0.000	44.614	-0.000	35.072	0.000	0.000	45.620	43.823	130.929	MWD+IFR1+MS
13700.000	90.000	179.641	11111.997	35.547	0.000	44.962	-0.000	35.547	0.000	0.000	45.798	44.011	-43.792	MWD+IFR1+MS
13800.000	90.000	179.641	11111.997	36.033	0.000	45.320	-0.000	36.033	0.000	0.000	46.012	44.174	-38.480	MWD+IFR1+MS
13900.000	90.000	179.641	11111.997	36.529	0.000	45.688	-0.000	36.529	0.000	0.000	46.263	44.310	-33.486	MWD+IFR1+MS
14000.000	90.000	179.641	11111.997	37.036	0.000	46.066	-0.000	37.036	0.000	0.000	46.547	44.424	-29.051	MWD+IFR1+MS
14100.000	90.000	179.641	11111.997	37.552	0.000	46.454	-0.000	37.552	0.000	0.000	46.860	44.518	-25.264	MWD+IFR1+MS
14200.000	90.000	179.641	11111.997	38.077	0.000	46.850	-0.000	38.077	0.000	0.000	47.199	44.597	-22.101	MWD+IFR1+MS
14300.000	90.000	179.641	11111.997	38.611	0.000	47.256	-0.000	38.611	0.000	0.000	47.558	44.665	-19.482	MWD+IFR1+MS
14400.000	90.000	179.641	11111.997	39.153	0.000	47.671	-0.000	39.153	0.000	0.000	47.935	44.725	-17.314	MWD+IFR1+MS
14500.000	90.000	179.641	11111.997	39.703	0.000	48.094	-0.000	39.703	0.000	0.000	48.328	44.778	-15.510	MWD+IFR1+MS
14600.000	90.000	179.641	11111.997	40.262	0.000	48.526	-0.000	40.262	0.000	0.000	48.735	44.826	-13.999	MWD+IFR1+MS
14700.000	90.000	179.641	11111.997	40.827	0.000	48.966	-0.000	40.827	0.000	0.000	49.154	44.871	-12.722	MWD+IFR1+MS
14800.000	90.000	179.641	11111.997	41.400	0.000	49.413	-0.000	41.400	0.000	0.000	49.584	44.913	-11.634	MWD+IFR1+MS
14900.000	90.000	179.641	11111.997	41.980	0.000	49.869	-0.000	41.980	0.000	0.000	50.024	44.954	-10.698	MWD+IFR1+MS
15000.000	90.000	179.641	11111.997	42.566	0.000	50.332	-0.000	42.566	0.000	0.000	50.474	44.992	-9.888	MWD+IFR1+MS
15100.000	90.000	179.641	11111.997	43.158	0.000	50.802	-0.000	43.158	0.000	0.000	50.933	45.030	-9.180	MWD+IFR1+MS
15200.000	90.000	179.641	11111.997	43.757	0.000	51.280	-0.000	43.757	0.000	0.000	51.401	45.066	-8.559	MWD+IFR1+MS
15300.000	90.000	179.641	11111.997	44.361	0.000	51.764	-0.000	44.361	0.000	0.000	51.876	45.103	-8.009	MWD+IFR1+MS
15400.000	90.000	179.641	11111.997	44.971	0.000	52.255	-0.000	44.971	0.000	0.000	52.360	45.138	-7.519	MWD+IFR1+MS
15500.000	90.000	179.641	11111.997	45.587	0.000	52.753	-0.000	45.587	0.000	0.000	52.850	45.174	-7.082	MWD+IFR1+MS
15600.000	90.000	179.641	11111.997	46.207	0.000	53.257	-0.000	46.207	0.000	0.000	53.348	45.209	-6.688	MWD+IFR1+MS
15700.000	90.000	179.641	11111.997	46.833	0.000	53.767	-0.000	46.833	0.000	0.000	53.853	45.244	-6.333	MWD+IFR1+MS
15800.000	90.000	179.641	11111.997	47.463	0.000	54.283	-0.000	47.463	0.000	0.000	54.364	45.279	-6.011	MWD+IFR1+MS

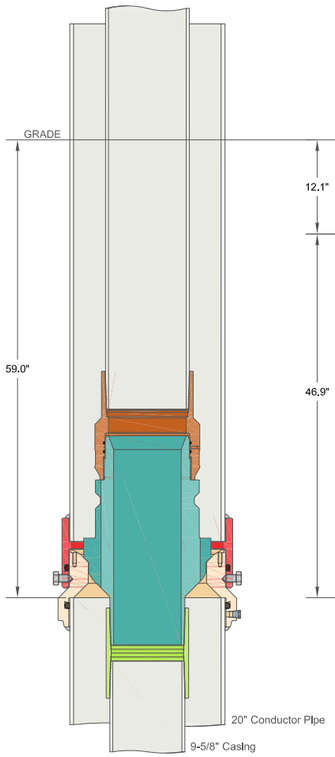
15900.000	90.000	179.641	11111.997	48.097	0.000	54.805	-0.000	48.097	0.000	0.000	54.881	45.315	-5.717	MWD+IFR1+MS
16000.000	90.000	179.641	11111.997	48.736	0.000	55.333	-0.000	48.736	0.000	0.000	55.405	45.350	-5.450	MWD+IFR1+MS
16100.000	90.000	179.641	11111.997	49.380	0.000	55.866	-0.000	49.380	0.000	0.000	55.934	45.386	-5.204	MWD+IFR1+MS
16200.000	90.000	179.641	11111.997	50.027	0.000	56.405	-0.000	50.027	0.000	0.000	56.469	45.422	-4.978	MWD+IFR1+MS
16300.000	90.000	179.641	11111.997	50.678	0.000	56.948	-0.000	50.678	0.000	0.000	57.010	45.458	-4.770	MWD+IFR1+MS
16400.000	90.000	179.641	11111.997	51.333	0.000	57.497	-0.000	51.333	0.000	0.000	57.556	45.495	-4.577	MWD+IFR1+MS
16500.000	90.000	179.641	11111.997	51.992	0.000	58.051	-0.000	51.992	0.000	0.000	58.107	45.532	-4.399	MWD+IFR1+MS
16600.000	90.000	179.641	11111.997	52.654	0.000	58.609	-0.000	52.654	0.000	0.000	58.663	45.569	-4.233	MWD+IFR1+MS
16700.000	90.000	179.641	11111.997	53.319	0.000	59.173	-0.000	53.319	0.000	0.000	59.223	45.606	-4.078	MWD+IFR1+MS
16800.000	90.000	179.641	11111.997	53.987	0.000	59.740	-0.000	53.987	0.000	0.000	59.789	45.644	-3.934	MWD+IFR1+MS
16900.000	90.000	179.641	11111.997	54.659	0.000	60.312	-0.000	54.659	0.000	0.000	60.359	45.683	-3.799	MWD+IFR1+MS
17000.000	90.000	179.641	11111.997	55.334	0.000	60.888	-0.000	55.334	0.000	0.000	60.933	45.722	-3.673	MWD+IFR1+MS
17100.000	90.000	179.641	11111.997	56.011	0.000	61.469	-0.000	56.011	0.000	0.000	61.512	45.761	-3.555	MWD+IFR1+MS
17200.000	90.000	179.641	11111.997	56.691	0.000	62.053	-0.000	56.691	0.000	0.000	62.094	45.801	-3.443	MWD+IFR1+MS
17300.000	90.000	179.641	11111.997	57.374	0.000	62.642	-0.000	57.374	0.000	0.000	62.681	45.841	-3.338	MWD+IFR1+MS
17400.000	90.000	179.641	11111.997	58.060	0.000	63.234	-0.000	58.060	0.000	0.000	63.272	45.881	-3.239	MWD+IFR1+MS
17500.000	90.000	179.641	11111.997	58.748	0.000	63.830	-0.000	58.748	0.000	0.000	63.866	45.922	-3.146	MWD+IFR1+MS
17600.000	90.000	179.641	11111.997	59.438	0.000	64.429	-0.000	59.438	0.000	0.000	64.464	45.964	-3.058	MWD+IFR1+MS
17700.000	90.000	179.641	11111.997	60.131	0.000	65.032	-0.000	60.131	0.000	0.000	65.066	46.006	-2.974	MWD+IFR1+MS
17800.000	90.000	179.641	11111.997	60.825	0.000	65.638	-0.000	60.825	0.000	0.000	65.671	46.048	-2.895	MWD+IFR1+MS
17900.000	90.000	179.641	11111.997	61.523	0.000	66.248	-0.000	61.523	0.000	0.000	66.279	46.091	-2.820	MWD+IFR1+MS
18000.000	90.000	179.641	11111.997	62.222	0.000	66.860	-0.000	62.222	0.000	0.000	66.891	46.135	-2.749	MWD+IFR1+MS
18100.000	90.000	179.641	11111.997	62.923	0.000	67.476	-0.000	62.923	0.000	0.000	67.506	46.178	-2.681	MWD+IFR1+MS
18200.000	90.000	179.641	11111.997	63.626	0.000	68.095	-0.000	63.626	0.000	0.000	68.124	46.223	-2.616	MWD+IFR1+MS
18300.000	90.000	179.641	11111.997	64.331	0.000	68.717	-0.000	64.331	0.000	0.000	68.745	46.268	-2.554	MWD+IFR1+MS
18400.000	90.000	179.641	11111.997	65.038	0.000	69.342	-0.000	65.038	0.000	0.000	69.369	46.313	-2.496	MWD+IFR1+MS
18500.000	90.000	179.641	11111.997	65.747	0.000	69.970	-0.000	65.747	0.000	0.000	69.995	46.359	-2.439	MWD+IFR1+MS
18600.000	90.000	179.641	11111.997	66.457	0.000	70.600	-0.000	66.457	0.000	0.000	70.625	46.405	-2.386	MWD+IFR1+MS
18700.000	90.000	179.641	11111.997	67.169	0.000	71.233	-0.000	67.169	0.000	0.000	71.257	46.452	-2.335	MWD+IFR1+MS
18800.000	90.000	179.641	11111.997	67.882	0.000	71.868	-0.000	67.882	0.000	0.000	71.892	46.499	-2.285	MWD+IFR1+MS
18900.000	90.000	179.641	11111.997	68.598	0.000	72.506	-0.000	68.598	0.000	0.000	72.529	46.547	-2.238	MWD+IFR1+MS
19000.000	90.000	179.641	11111.997	69.314	0.000	73.147	-0.000	69.314	0.000	0.000	73.169	46.595	-2.193	MWD+IFR1+MS
19100.000	90.000	179.641	11111.997	70.032	0.000	73.790	-0.000	70.032	0.000	0.000	73.811	46.644	-2.150	MWD+IFR1+MS

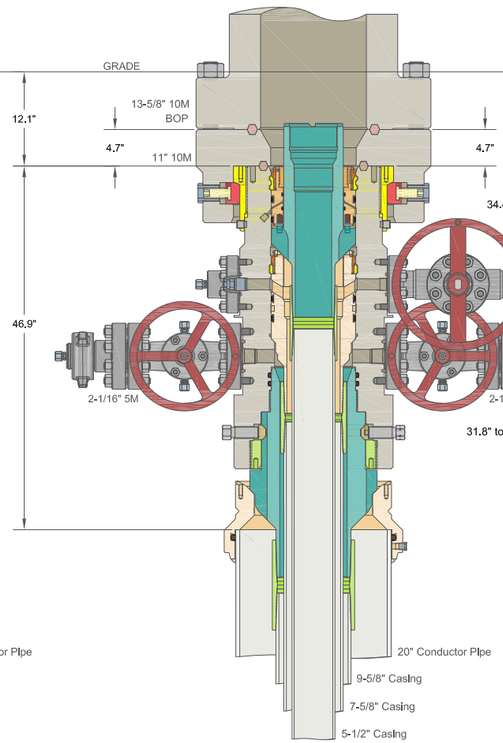
19200.000	90.000	179.641	11111.997	70.752	0.000	74.435	-0.000	70.752	0.000	0.000	74.456	46.693	-2.109	MWD+IFR1+MS
19300.000	90.000	179.641	11111.997	71.473	0.000	75.082	-0.000	71.473	0.000	0.000	75.103	46.743	-2.069	MWD+IFR1+MS
19400.000	90.000	179.641	11111.997	72.195	0.000	75.732	-0.000	72.195	0.000	0.000	75.752	46.793	-2.030	MWD+IFR1+MS
19500.000	90.000	179.641	11111.997	72.919	0.000	76.384	-0.000	72.919	0.000	0.000	76.403	46.844	-1.993	MWD+IFR1+MS
19600.000	90.000	179.641	11111.997	73.643	0.000	77.038	-0.000	73.643	0.000	0.000	77.057	46.895	-1.958	MWD+IFR1+MS
19700.000	90.000	179.641	11111.997	74.369	0.000	77.694	-0.000	74.369	0.000	0.000	77.712	46.947	-1.924	MWD+IFR1+MS
19800.000	90.000	179.641	11111.997	75.096	0.000	78.352	-0.000	75.096	0.000	0.000	78.370	46.999	-1.891	MWD+IFR1+MS
19900.000	90.000	179.641	11111.997	75.825	0.000	79.012	-0.000	75.825	0.000	0.000	79.029	47.052	-1.859	MWD+IFR1+MS
20000.000	90.000	179.641	11111.997	76.554	0.000	79.673	-0.000	76.554	0.000	0.000	79.691	47.105	-1.828	MWD+IFR1+MS
20100.000	90.000	179.641	11111.997	77.285	0.000	80.337	-0.000	77.285	0.000	0.000	80.354	47.158	-1.799	MWD+IFR1+MS
20200.000	90.000	179.641	11111.997	78.016	0.000	81.003	-0.000	78.016	0.000	0.000	81.019	47.212	-1.770	MWD+IFR1+MS
20300.000	90.000	179.641	11111.997	78.749	0.000	81.670	-0.000	78.749	0.000	0.000	81.686	47.267	-1.743	MWD+IFR1+MS
20400.000	90.000	179.641	11111.997	79.483	0.000	82.339	-0.000	79.483	0.000	0.000	82.354	47.322	-1.716	MWD+IFR1+MS
20500.000	90.000	179.641	11111.997	80.217	0.000	83.009	-0.000	80.217	0.000	0.000	83.024	47.378	-1.690	MWD+IFR1+MS
20600.000	90.000	179.641	11111.997	80.953	0.000	83.681	-0.000	80.953	0.000	0.000	83.696	47.434	-1.665	MWD+IFR1+MS
20700.000	90.000	179.641	11111.997	81.689	0.000	84.355	-0.000	81.689	0.000	0.000	84.370	47.490	-1.641	MWD+IFR1+MS
20800.000	90.000	179.641	11111.997	82.426	0.000	85.031	-0.000	82.426	0.000	0.000	85.045	47.547	-1.618	MWD+IFR1+MS
20900.000	90.000	179.641	11111.997	83.165	0.000	85.707	-0.000	83.165	0.000	0.000	85.721	47.605	-1.595	MWD+IFR1+MS
21000.000	90.000	179.641	11111.997	83.904	0.000	86.386	-0.000	83.904	0.000	0.000	86.399	47.663	-1.573	MWD+IFR1+MS
21100.000	90.000	179.641	11111.997	84.644	0.000	87.066	-0.000	84.644	0.000	0.000	87.079	47.721	-1.552	MWD+IFR1+MS
21200.000	90.000	179.641	11111.997	85.384	0.000	87.747	-0.000	85.384	0.000	0.000	87.760	47.780	-1.531	MWD+IFR1+MS
21300.000	90.000	179.641	11111.997	86.126	0.000	88.429	-0.000	86.126	0.000	0.000	88.442	47.840	-1.511	MWD+IFR1+MS
21400.000	90.000	179.641	11111.997	86.868	0.000	89.113	-0.000	86.868	0.000	0.000	89.126	47.900	-1.492	MWD+IFR1+MS
21500.000	90.000	179.641	11111.997	87.611	0.000	89.799	-0.000	87.611	0.000	0.000	89.811	47.960	-1.473	MWD+IFR1+MS
21600.000	90.000	179.641	11111.997	88.355	0.000	90.485	-0.000	88.355	0.000	0.000	90.497	48.021	-1.455	MWD+IFR1+MS
21700.000	90.000	179.641	11111.997	89.099	0.000	91.173	-0.000	89.099	0.000	0.000	91.185	48.082	-1.437	MWD+IFR1+MS
21800.000	90.000	179.641	11111.997	89.844	0.000	91.862	-0.000	89.844	0.000	0.000	91.873	48.144	-1.419	MWD+IFR1+MS
21900.000	90.000	179.641	11111.997	90.590	0.000	92.552	-0.000	90.590	0.000	0.000	92.563	48.206	-1.403	MWD+IFR1+MS
22000.000	90.000	179.641	11111.997	91.336	0.000	93.244	-0.000	91.336	0.000	0.000	93.255	48.269	-1.386	MWD+IFR1+MS
22100.000	90.000	179.641	11111.997	92.083	0.000	93.936	-0.000	92.083	0.000	0.000	93.947	48.332	-1.370	MWD+IFR1+MS
22200.000	90.000	179.641	11111.997	92.831	0.000	94.630	-0.000	92.831	0.000	0.000	94.640	48.395	-1.355	MWD+IFR1+MS
22300.000	90.000	179.641	11111.997	93.579	0.000	95.325	-0.000	93.579	0.000	0.000	95.335	48.459	-1.340	MWD+IFR1+MS
22400.000	90.000	179.641	11111.997	94.328	0.000	96.021	-0.000	94.328	0.000	0.000	96.031	48.524	-1.325	MWD+IFR1+MS

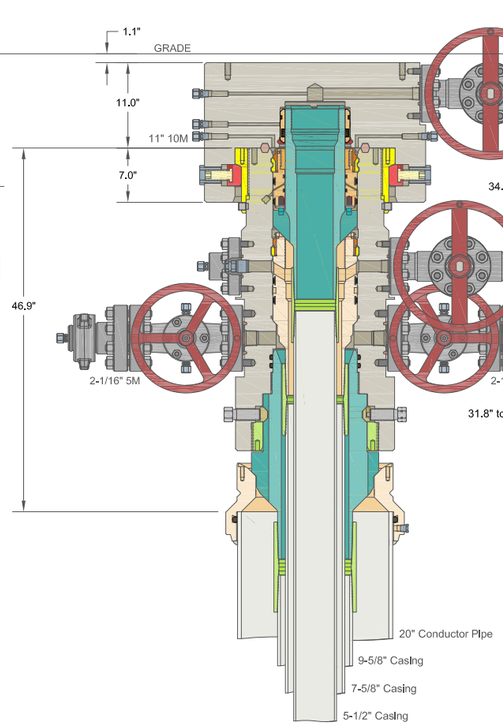
22500.000	90.000	179.641	11111.997	95.077	0.000	96.717	-0.000	95.077	0.000	0.000	96.727	48.589	-1.311	MWD+IFR1+MS
22600.000	90.000	179.641	11111.997	95.827	0.000	97.415	-0.000	95.827	0.000	0.000	97.425	48.654	-1.297	MWD+IFR1+MS
22700.000	90.000	179.641	11111.997	96.578	0.000	98.114	-0.000	96.578	0.000	0.000	98.124	48.720	-1.283	MWD+IFR1+MS
22800.000	90.000	179.641	11111.997	97.329	0.000	98.814	-0.000	97.329	0.000	0.000	98.824	48.786	-1.270	MWD+IFR1+MS
22900.000	90.000	179.641	11111.997	98.081	0.000	99.515	-0.000	98.081	0.000	0.000	99.525	48.853	-1.257	MWD+IFR1+MS
23000.000	90.000	179.641	11111.997	98.833	0.000	100.217	-0.000	98.833	0.000	0.000	100.226	48.920	-1.244	MWD+IFR1+MS
23100.000	90.000	179.641	11111.997	99.585	0.000	100.920	-0.000	99.585	0.000	0.000	100.929	48.988	-1.232	MWD+IFR1+MS
23200.000	90.000	179.641	11111.997	100.339	0.000	101.624	-0.000	100.339	0.000	0.000	101.632	49.056	-1.220	MWD+IFR1+MS
23300.000	90.000	179.641	11111.997	101.092	0.000	102.328	-0.000	101.092	0.000	0.000	102.337	49.125	-1.208	MWD+IFR1+MS
23400.000	90.000	179.641	11111.997	101.846	0.000	103.034	-0.000	101.846	0.000	0.000	103.042	49.194	-1.197	MWD+IFR1+MS
23500.000	90.000	179.641	11111.997	102.601	0.000	103.740	-0.000	102.601	0.000	0.000	103.748	49.263	-1.186	MWD+IFR1+MS
23600.000	90.000	179.641	11111.997	103.356	0.000	104.447	-0.000	103.356	0.000	0.000	104.455	49.333	-1.175	MWD+IFR1+MS
23700.000	90.000	179.641	11111.997	104.111	0.000	105.155	-0.000	104.111	0.000	0.000	105.163	49.403	-1.164	MWD+IFR1+MS
23800.000	90.000	179.641	11111.997	104.867	0.000	105.864	-0.000	104.867	0.000	0.000	105.872	49.474	-1.154	MWD+IFR1+MS
23817.351	90.000	179.641	11111.997	104.998	0.000	105.987	-0.000	104.998	0.000	0.000	105.994	49.486	-1.152	MWD+IFR1+MS
23907.353	90.000	179.641	11111.997	105.678	0.000	106.624	-0.000	105.678	0.000	0.000	106.632	49.550	-1.143	MWD+IFR1+MS

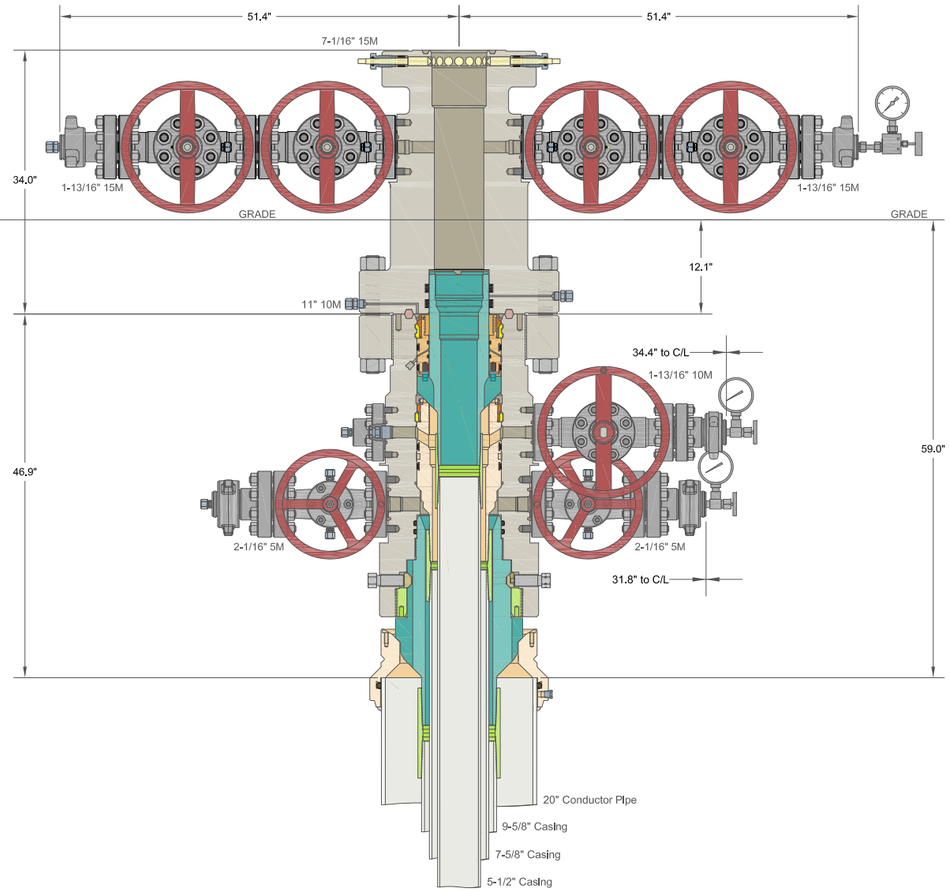
Plan Targets Poker Lake Unit 21 DTD South 102H

Target Name	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape
FTP 2	11300.28	440417.50	636151.60	7764.00	RECTANGLE
SHL 2	11172.90	440283.23	636087.94	7703.00	RECTANGLE
LTP 2	23817.37	427407.60	636233.10	7764.00	RECTANGLE
BHL 2	23907.53	427317.60	636233.50	7764.00	RECTANGLE









ALL DIMENSIONS APPROXIMATE

CACTUS WELLHEAD LLC

XTO ENERGY INC
DELAWARE BASIN

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

DRAWN	VJK	31MAR22
APPRV		
DRAWING NO.	HBE0000479	

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

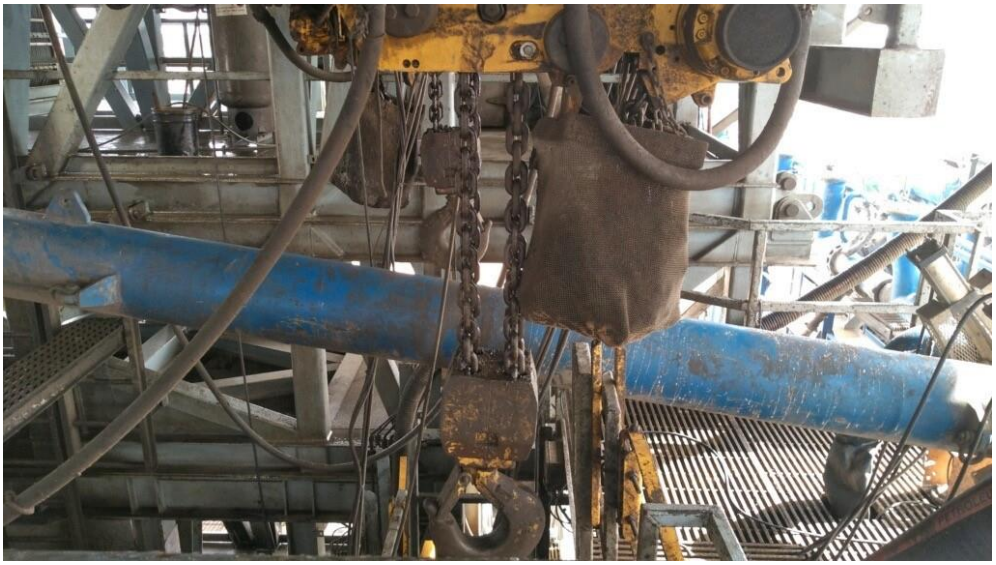


Figure 2: BOP Winch System

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.

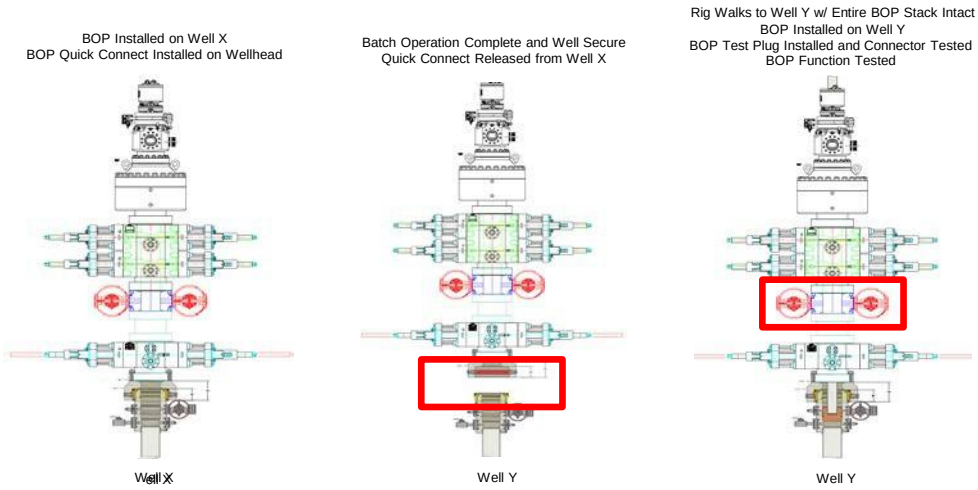
XTO Energy feels break testing and our current procedures meet the intent of CFR Title 43 Part 317 0and often exceed it. There has been no evidence that break testing results in more components failing than seen on full BOP tests. XTO Energy's internal standards requires complete BOPE tests more often 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.

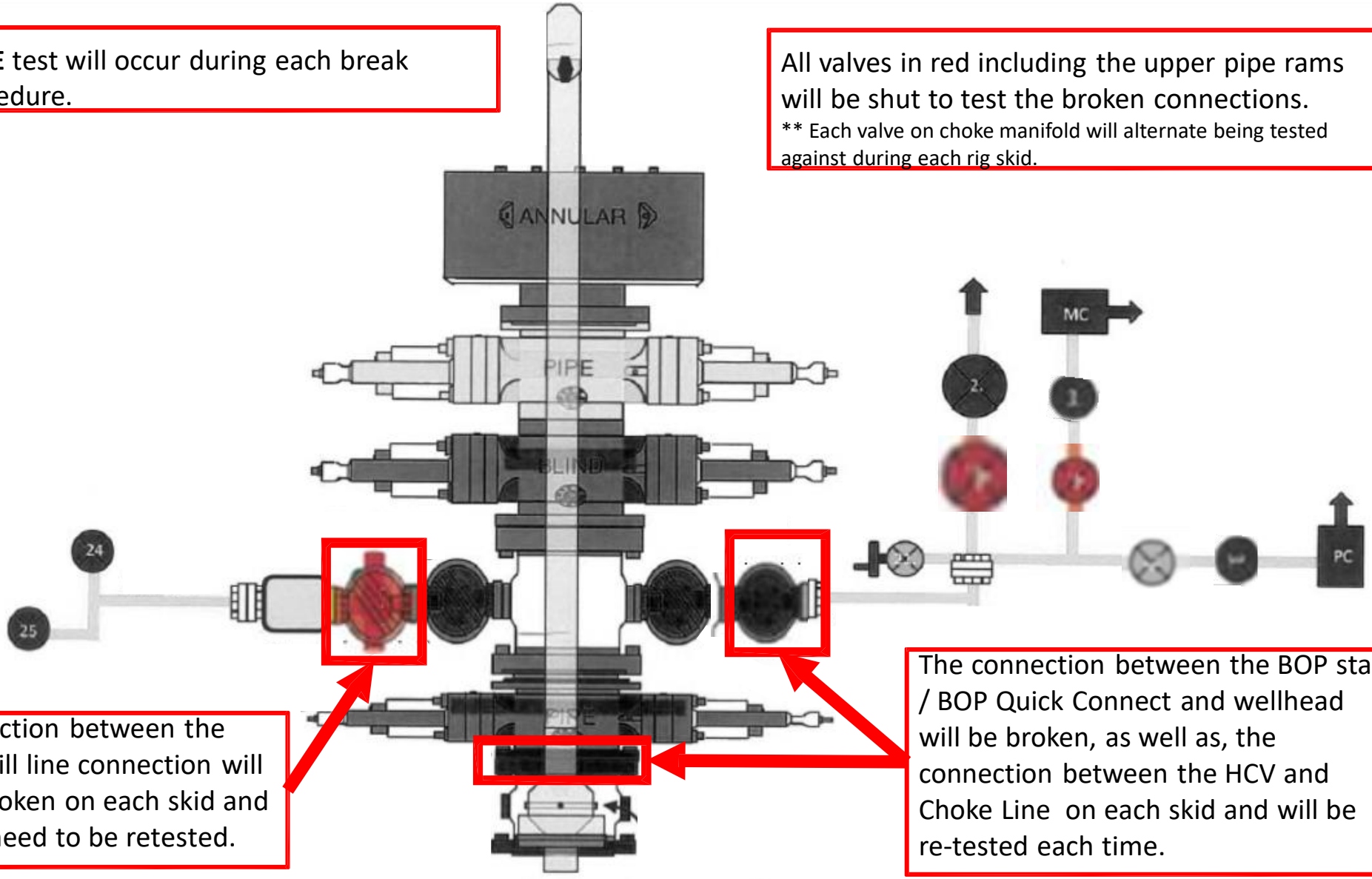
3. Full BOP test will be required if the intermediate hole section being drilled has a MASP over 5M.

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.

10,000 PSI Annular BOP Variance Request

XTO Energy/XTO Permian Op. request a variance to use a 5000 psi annular BOP with a 10,000 psi BOP stack. The component and compatibility tables along with the general well control plans demonstrate how the 5000 psi annular BOP will be protected from pressures that exceed its rated working pressure (RWP). The pressure at which the control of the wellbore is transferred from the annular preventer to another available preventer will not exceed 3500 psi (70% of the RWP of the 5000 psi annular BOPL).

1. Component and Preventer Compatibility Tables

The tables below outline the tubulars and the compatible preventers in use. This table, combined with the drilling fluid, documents that two barriers to flow will be maintained at all times.

8-1/2" Production Hole Section 10M psi Requirement					
Component	**OD**	**Primary Preventer**	**RWP**	**Alternate Preventer(s)**	**RWP**
Drillpipe	5.000" or 4.500"	Annular	5M	Upper 3.5"-5.5" VBR Lower 3.5"-5.5" VBR	10M 10M
HWDP	5.000" or 4.500"	Annular	5M	Upper 3.5"-5.5" VBR Lower 3.5"-5.5" VBR	10M 10M
Jars	6.500"	Annular	5M	-	-
DCs and MWD tools	6.500"-8.000"	Annular	5M	-	-
Mud Motor	6.750"-8.000"	Annular	5M	-	-
Production Casing	5-1/2"	Annular	5M	-	-
Open-Hole	-	Blind Rams	10M	-	-

2. Well Control Procedures

Below are the minimal high-level tasks prescribed to assure a proper shut-in while drilling, tripping, running casing, pipe out of the hole (open hole), and moving the BHA through the BOPs. At least one well control drill will be performed weekly per crew to demonstrate compliance with the procedure and well control plan. The well control drill will be recorded in the daily drilling log. The type of drill will be determined by the ongoing operations, but reasonable attempts will be made to vary the type of drill conducted (pit, trip, open hole, choke, etc.). This well control plan will be available for review by rig personnel in the XTO Energy/Permian Operating drilling supervisor's office on location and on the rig floor. All BOP equipment will be tested as per 43.CFR.3172 with the exception of the 5000 psi annular which will be tested to 70% of its RWP.

<u>General Procedure While Drilling</u>

1. Sound alarm (alert crew)
2. Space out drill string
3. Shut down pumps (stop pumps and rotary)
4. Shut-in well (uppermost applicable BOP, typically annular preventer, first. HCR & choke will already be in the closed position.)
5. Confirm shut-in
6. Notify toolpusher/company representative
7. Read and record the following:
   a. SIDPP & SICP
   b. Pit gain
   c. Time
8. Regroup and identify forward plan

9. If pressure has built or is anticipated during the kill to reach 70% or greater of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure While Tripping

1. Sound alarm (alert crew)
2. Stab full-opening safety valve & close
3. Space out drill string
4. Shut-in well (uppermost applicable BOP, typically annular preventer, first. HCR & choke will already be in the closed position.)
5. Confirm shut-in
6. Notify toolpusher/company representative
7. Read and record the following:
    a. SIDPP & SICP
    b. Pit gain
    c. Time
8. Regroup and identify forward plan
9. If pressure has built or is anticipated during the kill to reach 70% of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure While Running Production Casing

a. Sound alarm (alert crew)
b. Stab crossover and full-opening safety valve and close
c. Space out string
d. Shut-in well (uppermost applicable BOP, typically annular preventer, first. HCR & choke will already be in the closed position.)
e. Confirm shut-in
f. Notify toolpusher/company representative
g. Read and record the following:
    a. SIDPP & SICP
    b. Pit gain
    c. Time
h. Regroup and identify forward plan
i. If pressure has built or is anticipated during the kill to reach 70% or greater of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure With No Pipe In Hole (Open Hole)

1. Sound alarm (alert crew)
2. Shut-in with blind rams (HCR & choke will already be in the closed position)
3. Confirm shut-in
4. Notify toolpusher/company representative
5. Read and record the following:
   a. SICP
   b. Pit gain
   c. Time
6. Regroup and identify forward plan

General Procedures While Pulling BHA Through Stack

1. PRIOR to pulling last joint of drillpipe through stack:
   a. Perform flow check. If flowing, continue to (b).
   b. Sound alarm (alert crew)
   c. Stab full-opening safety valve and close
   d. Space out drill string with tool joint just beneath the upper variable bore rams
   e. Shut-in using upper variable bore rams (HCR & choke will already be in the closed position)
   f. Confirm shut-in
   g. Notify toolpusher/company representative
   h. Read and record the following:
      i. SIDPP & SICP
      ii. Pit gain
      iii. Time
   i. Regroup and identify forward plan
2. With BHA in the stack and compatible ram preventer and pipe combination immediately available:
   a. Sound alarm (alert crew)
   b. Stab crossover and full-opening safety valve and close
   c. Space out drill string with upset just beneath the upper variable bore rams
   d. Shut-in using upper variable bore rams (HCR & choke will already be in the closed position)
   e. Confirm shut-in
   f. Notify toolpusher/company representative
   g. Read and record the following:
      i. SIDPP & SICP
      ii. Pit gain
      iii. Time

h. Regroup and identify forward plan

3. With BHA in the stack and NO compatible ram preventer and pipe combination immediately available:
    a. Sound alarm (alert crew)
    b. If possible, pull string clear of the stack and follow "Open Hole" procedure.
    c. If impossible to pull string clear of the stack:
    d. Stab crossover, make up one joint/stand of drillpipe and full-opening safety valve and close
    e. Space out drill string with tooljoint just beneath the upper variable bore ram
    f. Shut-in using upper variable bore ram (HCR & choke will already be in the closed position)
    g. Confirm shut-in
    h. Notify toolpusher/company representative
    i. Read and record the following:
        i. SIDPP & SICP
        ii. Pit gain
        iii. Time
    j. Regroup and identify forward plan

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 Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 360211
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	All original COA's still apply. Additionally, if cement is not circulated to surface during cementing operations, then a CBL is required.	7/12/2024