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

Sundry Print Report

07/10/2024

Well Name: CORRAL CANYON 17-8 FEDERAL

Well Location: T25S / R29E / SEC 17 / SWSE / 32.123778 / -104.006277

County or Parish/State: EDDY / NM

Well Number: 166H

Type of Well: CONVENTIONAL GAS WELL

Allottee or Tribe Name:

Lease Number: NMNM96848

Unit or CA Name:

Unit or CA Number:

US Well Number:

Operator: XTO ENERGY INCORPORATED

Notice of Intent

Sundry ID: 2791084

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 05/17/2024

Time Sundry Submitted: 09:05

Date proposed operation will begin: 05/31/2024

Procedure Description: XTO Permian Operating, LLC. respectfully requests approval to make the following changes to the approved APD. Changes to include FTP, LTP, BHL, & Proposed total Depth. FROM: TO: FTP: 330' FSL & 430' FEL OF SECTION 17-T25S-R29E 330' FSL & 540' FEL OF SECTION 17-T25S-R29E LTP: 330' FNL & 430' FEL OF SECTION 8-T25S-R29E 100' FNL & 540' FEL OF SECTION 8-T25S-R29E BHL: 200' FNL & 430' FEL OF SECTION 8-T25S-R29E 50' FNL & 540' FEL OF SECTION 8-T25S-R29E The proposed total depth is changing from 21454' MD; 10761' TVD (Wolfcamp) to 22190' MD; 10867' TVD (Wolfcamp D/E). 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

Corral_17_8_Fed_166H_Sundry_Documents_20240517090505.pdf

Well Name: CORRAL CANYON 17-8 FEDERAL

Well Location: T25S / R29E / SEC 17 / SWSE / 32.123778 / -104.006277

County or Parish/State: EDDY / NM

Well Number: 166H

Type of Well: CONVENTIONAL GAS WELL

Allottee or Tribe Name:

Lease Number: NMNM96848

Unit or CA Name:

Unit or CA Number:

US Well Number:

Operator: XTO ENERGY INCORPORATED

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 17, 2024 09:05 AM

Name: XTO ENERGY INCORPORATED

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: 07/09/2024

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: SWSE / 344 FSL / 2555 FEL / TWSP: 25S / RANGE: 29E / SECTION: 17 / LAT: 32.123778 / LONG: -104.006277 (TVD: 0 feet, MD: 0 feet)

PPP: SENE / 2654 FSL / 425 FEL / TWSP: 25S / RANGE: 29E / SECTION: 17 / LAT: 32.130037 / LONG: -103.999418 (TVD: 10761 feet, MD: 14100 feet)

PPP: SESE / 330 FSL / 430 FEL / TWSP: 25S / RANGE: 29E / SECTION: 17 / LAT: 32.123649 / LONG: -103.999414 (TVD: 10761 feet, MD: 11400 feet)

BHL: NENE / 200 FNL / 430 FEL / TWSP: 25S / RANGE: 29E / SECTION: 8 / LAT: 32.151361 / LONG: -103.99943 (TVD: 10761 feet, MD: 21454 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-	98220	PURPLE SAGE, WOLFCAMP (GAS)

[4] Property Code	[5] Property Name	[6] Well Number
	CORRAL 17-8 FED COM	166H

[7] OGRID No.	[8] Operator Name	[9] Elevation
005380	XTO ENERGY, INC	2,980'

[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
O	17	25 S	29 E		344	SOUTH	2,555	EAST	EDDY

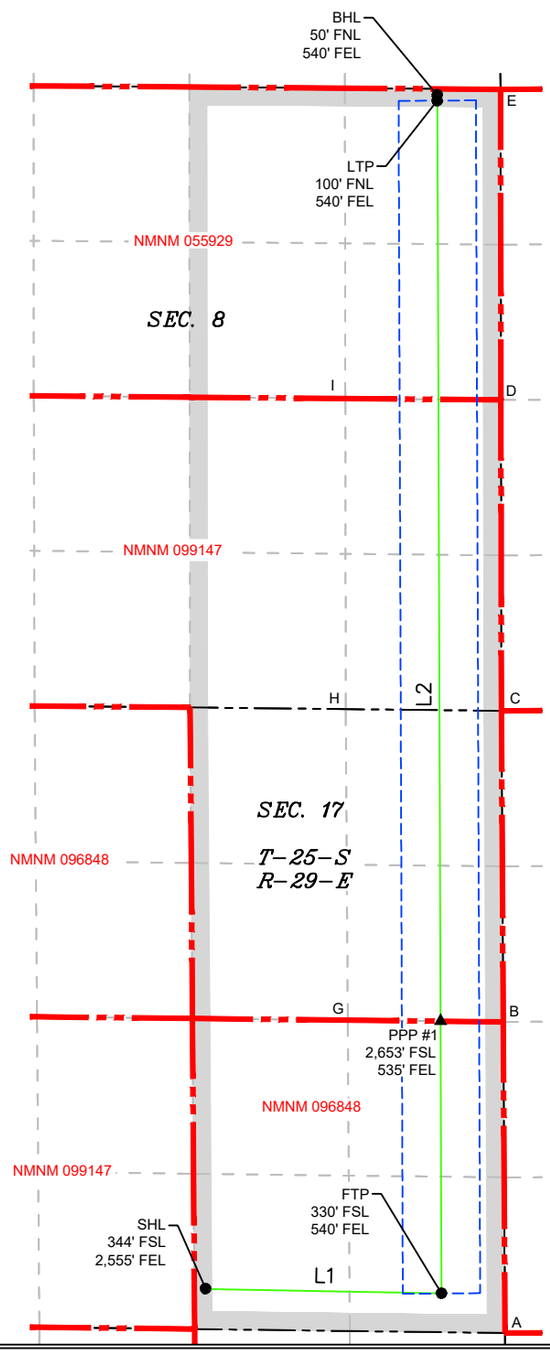
[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	8	25 S	29 E		50	NORTH	540	EAST	EDDY

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
640			

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.

[16]



LEGEND

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

LINE TABLE		
LINE	AZUMITH	LENGTH
L1	091°06'47"	2,015.14'
L2	359°47'48"	10,230.47'

COORDINATE TABLE

	SHL (NAD 83 NME)	SHL (NAD 27 NME)
Y =	408,920.1 N	408,861.7 N
X =	642,584.9 E	601,400.9 E
LAT. =	32.123778 °N	32.123654 °N
LONG. =	104.006277 °W	104.005789 °W

	FTP (NAD 83 NME)	FTP (NAD 27 NME)
Y =	408,881.0 N	408,822.5 N
X =	644,599.6 E	603,415.6 E
LAT. =	32.123653 °N	32.123529 °N
LONG. =	103.999769 °W	103.999281 °W

	PPP #1 (NAD 83 NME)	PPP #1 (NAD 27 NME)
Y =	411,204.8 N	411,146.2 N
X =	644,591.2 E	603,407.1 E
LAT. =	32.130041 °N	32.129917 °N
LONG. =	103.999773 °W	103.999285 °W

	LTP (NAD 83 NME)	LTP (NAD 27 NME)
Y =	419,061.4 N	419,002.7 N
X =	644,563.4 E	603,379.5 E
LAT. =	32.151639 °N	32.151514 °N
LONG. =	103.999784 °W	103.999296 °W

	BHL (NAD 83 NME)	BHL (NAD 27 NME)
Y =	419,111.4 N	419,052.7 N
X =	644,563.3 E	603,379.4 E
LAT. =	32.151776 °N	32.151652 °N
LONG. =	103.999784 °W	103.999295 °W

CORNER COORDINATES (NAD 83 NME)

A - Y =	408,560.9	N	A - X =	643,817.1	E
B - Y =	411,213.4	N	B - X =	643,799.8	E
C - Y =	413,868.1	N	C - X =	643,782.5	E
D - Y =	416,518.5	N	D - X =	643,778.7	E
E - Y =	419,167.3	N	E - X =	643,775.1	E
F - Y =	408,544.1	N	F - X =	645,141.6	E
G - Y =	411,199.0	N	G - X =	645,126.3	E
H - Y =	413,853.8	N	H - X =	645,111.0	E
I - Y =	416,506.6	N	I - X =	645,107.0	E
J - Y =	419,157.4	N	J - X =	645,103.3	E

CORNER COORDINATES (NAD 27 NME)

A - Y =	408,502.4	N	A - X =	602,633.1	E
B - Y =	411,154.8	N	B - X =	602,615.7	E
C - Y =	413,809.5	N	C - X =	602,598.5	E
D - Y =	416,459.9	N	D - X =	602,594.8	E
E - Y =	419,108.6	N	E - X =	602,591.3	E
F - Y =	408,485.6	N	F - X =	603,957.5	E
G - Y =	411,140.4	N	G - X =	603,942.2	E
H - Y =	413,795.2	N	H - X =	603,926.9	E
I - Y =	416,448.0	N	I - X =	603,923.0	E
J - Y =	419,098.7	N	J - X =	603,919.4	E

[17] OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Terra Sebastian 5/16/2024
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.

10/13/2023
Date of Survey

Signature and Seal of Professional Surveyor:

MARK DILLON HARP 23786
Certificate Number

KC/AI 618.013013.03-17

J:\618.013 XTO Energy - NM\013 Corral Canyon Unit - Eddy\03 - Corral Canyon 17 - Eddy\Wells\17 - 17-8 FEDERAL 166H\DWG\166H C-102.dwg

Intent [X] As Drilled [ ]

API #
30015

Operator Name:	Property Name:	Well Number
XTO ENERGY, INC	Coral 17-8 Fed Com	166H

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
P	17	25S	29E		330	South	540	East	Eddy

Latitude	Longitude	NAD
32.123653	103.999769	83

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
A	8	25S	29E		100	North	540	East	Eddy

Latitude	Longitude	NAD
32.151639	103.999784	83

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.
CORRAL 17 - 8 FED COM 166H
Projected TD: 22190.49' MD / 10867' TVD
SHL: 344' FSL & 2555' FEL , Section 17, T25S, R29E
BHL: 50' FNL & 540' FEL , Section 8, T25S, R29E
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
Top of Salt	618'	Water
Base of Salt	2744'	Water
Delaware	2944'	Water
Brushy Canyon	5445'	Water/Oil/Gas
Bone Spring	6712'	Water
1st Bone Spring	7489'	Water/Oil/Gas
2nd Bone Spring	7908'	Water/Oil/Gas
3rd Bone Spring	8719'	Water/Oil/Gas
Wolfcamp	9885'	Water/Oil/Gas
Wolfcamp X	9907'	Water/Oil/Gas
Wolfcamp Y	9984'	Water/Oil/Gas
Wolfcamp A	10030'	Water/Oil/Gas
Wolfcamp B	10383'	Water/Oil/Gas
Wolfcamp D	10767'	Water/Oil/Gas
Target/Land Curve	10867'	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 @ 583' (35' 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 10635.21' and cemented to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 22190.49 MD/TD and 5.5 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 10335.21 feet).

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0’ – 583'	9.625	40	J-55	BTC	New	1.50	10.67	27.02
8.75	0’ – 4000'	7.625	29.7	RY P-110	Flush Joint	New	1.91	2.86	1.77
8.75	4000' – 10635.21'	7.625	29.7	HC L-80	Flush Joint	New	1.39	2.15	2.06
6.75	0’ – 10535.21'	5.5	23	RY P-110	Semi-Premium	New	1.45	2.04	1.87
6.75	10535.21' - 22190.49'	5.5	23	RY P-110	Semi-Flush	New	1.45	1.98	1.98

· XTO requests the option to utilize a spudder rig (Atlas Copco RD20 or Equivalent) to set and cement surface casing per this Sundry
· XTO requests to not utilize centralizers in the curve and lateral
· 7.625 Collapse analyzed using 50% evacuation based on regional experience.
· 5.5 Tension calculated using vertical hanging weight plus the lateral weight multiplied by a friction factor of 0.35

· Test on Casing will be limited to 70% burst of the casing or 1500 psi, whichever is less
· XTO requests the option to use 5" BTC Float equipment for the the production casing

Wellhead:

Permanent Wellhead – Multibowl System

A. Starting Head: 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.
- Operator will test the 7-5/8" casing per BLM Onshore Order 2
- Wellhead Manufacturer representative will not be present for BOP test plug installation

4. Cement Program

Surface Casing: 9.625, 40 New BTC, J-55 casing to be set at +/- 583'

Lead: 90 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 +/- 10635.21'
1st Stage
Optional Lead: 290 sxs Class C (mixed at 10.5 ppg, 2.77 ft3/sx, 15.59 gal/sx water)
TOC: Surface
Tail: 480 sxs Class C (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)
TOC: Brushy Canyon @ 5445
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: 610 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 (5445') 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, 23 New Semi-Flush, RY P-110 casing to be set at +/- 22190.49'

Lead: 20 sxs NeoCem (mixed at 13.5 ppg, 2.69 ft3/sx, 15.00 gal/sx water) Top of Cement: 10335.21 feet
Tail: 810 sxs VersaCem (mixed at 14.8 ppg, 1.51 ft3/sx, 8.38 gal/sx water) Top of Cement: 10835.21 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 4955 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 rated 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 day.

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

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

hole on each of the wells.

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

6. Proposed Mud Circulation System

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)
0' - 583'	12.25	FW/Native	8.5-9	35-40	NC
583' - 10635.21'	8.75	FW / Cut Brine / Direct Emulsion	9-9.5	30-32	NC
10635.21' - 22190.49'	6.75	OBM	13-13.5	50-60	NC - 20

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

Spud with fresh water/native mud. Drill out from under 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 7346 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 - Corral 17-8 Fed Com 166H

Measured Depth:	22190.49 ft
TVD RKB:	10867.00 ft
Location	
Cartographic Reference System:	New Mexico East - NAD 27
Northing:	408861.70 ft
Easting:	601400.90 ft
RKB:	3013.00 ft
Ground Level:	2980.00 ft
North Reference:	Grid
Convergence Angle:	0.17 Deg

Plan Sections Corral 17-8 Fed Com 166H

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	
3446.40	50.26	110.53	3156.80	-338.38	903.62	2.14	0.00	2.14	
3738.01	50.26	110.53	3343.20	-417.02	1113.62	0.00	0.00	0.00	
6084.41	0.00	0.00	5400.00	-755.39	2017.24	-2.14	0.00	2.14	
10835.21	0.00	0.00	10150.80	-755.39	2017.24	0.00	0.00	0.00	
11960.21	90.00	359.80	10867.00	-39.20	2014.70	8.00	0.00	8.00	166H FTP
22140.47	90.00	359.80	10867.00	10141.00	1978.60	0.00	0.00	0.00	166H LTP
22190.49	90.00	359.80	10867.00	10191.02	1978.42	0.00	0.00	0.00	166H BHL

Position Uncertainty Corral 17-8 Fed Com 166H

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	XOM_R2OWSG 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	XOM_R2OWSG 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	XOM_R2OWSG MWD+IFR1+MS
300.000	0.000	0.000	300.000	1.075	0.000	0.896	0.000	2.324	0.000	0.000	1.075	0.896	90.000	XOM_R2OWSG MWD+IFR1+MS
400.000	0.000	0.000	400.000	1.434	0.000	1.255	0.000	2.345	0.000	0.000	1.434	1.255	90.000	XOM_R2OWSG MWD+IFR1+MS
500.000	0.000	0.000	500.000	1.792	0.000	1.613	0.000	2.372	0.000	0.000	1.792	1.613	90.000	XOM_R2OWSG MWD+IFR1+MS
600.000	0.000	0.000	600.000	2.151	0.000	1.972	0.000	2.403	0.000	0.000	2.151	1.972	90.000	XOM_R2OWSG MWD+IFR1+MS
700.000	0.000	0.000	700.000	2.509	0.000	2.330	0.000	2.439	0.000	0.000	2.509	2.330	90.000	XOM_R2OWSG MWD+IFR1+MS
800.000	0.000	0.000	800.000	2.868	0.000	2.689	0.000	2.480	0.000	0.000	2.868	2.689	90.000	XOM_R2OWSG MWD+IFR1+MS
900.000	0.000	0.000	900.000	3.226	0.000	3.047	0.000	2.525	0.000	0.000	3.226	3.047	90.000	XOM_R2OWSG MWD+IFR1+MS
1000.000	0.000	0.000	1000.000	3.585	0.000	3.405	0.000	2.573	0.000	0.000	3.585	3.405	90.000	XOM_R2OWSG MWD+IFR1+MS
1100.000	0.000	0.000	1100.000	3.943	0.000	3.764	0.000	2.626	0.000	0.000	3.943	3.764	90.000	XOM_R2OWSG MWD+IFR1+MS
1200.000	2.142	110.529	1199.977	4.131	0.000	4.269	-0.000	2.681	0.000	0.000	4.290	4.111	90.031	XOM_R2OWSG MWD+IFR1+MS
1300.000	4.284	110.529	1299.814	4.461	0.000	4.608	-0.000	2.737	0.000	0.000	4.630	4.449	90.022	XOM_R2OWSG MWD+IFR1+MS
1400.000	6.427	110.529	1399.371	4.788	0.000	4.952	-0.000	2.794	0.000	0.000	4.974	4.791	90.119	XOM_R2OWSG MWD+IFR1+MS
1500.000	8.569	110.529	1498.511	5.113	0.000	5.301	-0.000	2.852	0.000	0.000	5.322	5.136	90.457	XOM_R2OWSG MWD+IFR1+MS
1600.000	10.711	110.529	1597.093	5.434	0.000	5.655	-0.000	2.911	0.000	0.000	5.676	5.484	91.149	XOM_R2OWSG MWD+IFR1+MS
1700.000	12.853	110.529	1694.980	5.753	0.000	6.015	-0.000	2.973	0.000	0.000	6.035	5.835	92.267	XOM_R2OWSG MWD+IFR1+MS
1800.000	14.995	110.529	1792.036	6.069	0.000	6.383	-0.000	3.038	0.000	0.000	6.401	6.188	93.833	XOM_R2OWSG MWD+IFR1+MS

1900.000	17.138	110.529	1888.124	6.384	0.000	6.761	-0.000	3.107	0.000	0.000	6.775	6.544	95.795	XOM_R2OWSG MWD+IFR1+MS
2000.000	19.280	110.529	1983.111	6.697	0.000	7.149	-0.000	3.184	0.000	0.000	7.160	6.902	98.027	XOM_R2OWSG MWD+IFR1+MS
2100.000	21.422	110.529	2076.864	7.010	0.000	7.549	-0.000	3.268	0.000	0.000	7.558	7.263	100.349	XOM_R2OWSG MWD+IFR1+MS
2200.000	23.564	110.529	2169.251	7.322	0.000	7.965	-0.000	3.362	0.000	0.000	7.972	7.626	102.580	XOM_R2OWSG MWD+IFR1+MS
2300.000	25.707	110.529	2260.144	7.635	0.000	8.398	-0.000	3.469	0.000	0.000	8.403	7.990	104.582	XOM_R2OWSG MWD+IFR1+MS
2400.000	27.849	110.529	2349.414	7.949	0.000	8.851	-0.000	3.591	0.000	0.000	8.854	8.356	106.283	XOM_R2OWSG MWD+IFR1+MS
2500.000	29.991	110.529	2436.939	8.266	0.000	9.326	-0.000	3.730	0.000	0.000	9.327	8.723	107.667	XOM_R2OWSG MWD+IFR1+MS
2600.000	32.133	110.529	2522.595	8.584	0.000	9.826	-0.000	3.889	0.000	0.000	9.826	9.090	108.759	XOM_R2OWSG MWD+IFR1+MS
2700.000	34.275	110.529	2606.263	8.906	0.000	10.352	-0.000	4.070	0.000	0.000	10.352	9.458	109.599	XOM_R2OWSG MWD+IFR1+MS
2800.000	36.418	110.529	2687.825	9.230	0.000	10.908	-0.000	4.275	0.000	0.000	10.908	9.825	110.232	XOM_R2OWSG MWD+IFR1+MS
2900.000	38.560	110.529	2767.167	9.559	0.000	11.495	-0.000	4.507	0.000	0.000	11.495	10.191	110.702	XOM_R2OWSG MWD+IFR1+MS
3000.000	40.702	110.529	2844.180	9.891	0.000	12.114	-0.000	4.766	0.000	0.000	12.115	10.555	111.042	XOM_R2OWSG MWD+IFR1+MS
3100.000	42.844	110.529	2918.754	10.227	0.000	12.769	-0.000	5.054	0.000	0.000	12.769	10.916	111.284	XOM_R2OWSG MWD+IFR1+MS
3200.000	44.986	110.529	2990.787	10.567	0.000	13.459	-0.000	5.373	0.000	0.000	13.460	11.273	111.450	XOM_R2OWSG MWD+IFR1+MS
3300.000	47.129	110.529	3060.176	10.911	0.000	14.186	-0.000	5.721	0.000	0.000	14.187	11.625	111.559	XOM_R2OWSG MWD+IFR1+MS
3400.000	49.271	110.529	3126.826	11.258	0.000	14.950	-0.000	6.100	0.000	0.000	14.951	11.970	111.624	XOM_R2OWSG MWD+IFR1+MS
3446.401	50.265	110.529	3156.796	11.420	0.000	15.315	-0.000	6.282	0.000	0.000	15.317	12.130	111.645	XOM_R2OWSG MWD+IFR1+MS
3500.000	50.265	110.529	3191.059	11.718	0.000	15.745	-0.000	6.507	0.000	0.000	15.746	12.309	111.661	XOM_R2OWSG MWD+IFR1+MS
3600.000	50.265	110.529	3254.983	12.280	0.000	16.564	-0.000	6.941	0.000	0.000	16.566	12.645	111.680	XOM_R2OWSG MWD+IFR1+MS
3700.000	50.265	110.529	3318.907	12.850	0.000	17.400	-0.000	7.385	0.000	0.000	17.401	12.985	111.693	XOM_R2OWSG MWD+IFR1+MS

3738.011	50.265	110.529	3343.204	13.069	0.000	17.719	-0.000	7.556	0.000	0.000	17.720	13.116	111.697	XOM_R2OWSG MWD+IFR1+MS
3800.000	48.937	110.529	3383.379	13.546	0.000	18.240	-0.000	7.836	0.000	0.000	18.242	13.331	111.703	XOM_R2OWSG MWD+IFR1+MS
3900.000	46.795	110.529	3450.462	14.298	0.000	19.074	-0.000	8.281	0.000	0.000	19.076	13.690	111.718	XOM_R2OWSG MWD+IFR1+MS
4000.000	44.652	110.529	3520.270	15.029	0.000	19.890	-0.000	8.711	0.000	0.000	19.892	14.062	111.738	XOM_R2OWSG MWD+IFR1+MS
4100.000	42.510	110.529	3592.705	15.734	0.000	20.685	-0.000	9.123	0.000	0.000	20.688	14.449	111.762	XOM_R2OWSG MWD+IFR1+MS
4200.000	40.368	110.529	3667.667	16.412	0.000	21.455	-0.000	9.514	0.000	0.000	21.458	14.847	111.790	XOM_R2OWSG MWD+IFR1+MS
4300.000	38.226	110.529	3745.050	17.059	0.000	22.197	-0.000	9.883	0.000	0.000	22.200	15.255	111.822	XOM_R2OWSG MWD+IFR1+MS
4400.000	36.084	110.529	3824.746	17.674	0.000	22.910	-0.000	10.231	0.000	0.000	22.913	15.670	111.857	XOM_R2OWSG MWD+IFR1+MS
4500.000	33.941	110.529	3906.644	18.255	0.000	23.592	-0.000	10.556	0.000	0.000	23.596	16.090	111.894	XOM_R2OWSG MWD+IFR1+MS
4600.000	31.799	110.529	3990.629	18.800	0.000	24.242	-0.000	10.859	0.000	0.000	24.246	16.514	111.933	XOM_R2OWSG MWD+IFR1+MS
4700.000	29.657	110.529	4076.584	19.308	0.000	24.859	-0.000	11.140	0.000	0.000	24.863	16.939	111.974	XOM_R2OWSG MWD+IFR1+MS
4800.000	27.515	110.529	4164.389	19.777	0.000	25.443	-0.000	11.399	0.000	0.000	25.448	17.364	112.017	XOM_R2OWSG MWD+IFR1+MS
4900.000	25.373	110.529	4253.921	20.206	0.000	25.995	-0.000	11.638	0.000	0.000	26.000	17.786	112.060	XOM_R2OWSG MWD+IFR1+MS
5000.000	23.230	110.529	4345.055	20.594	0.000	26.513	-0.000	11.855	0.000	0.000	26.519	18.203	112.105	XOM_R2OWSG MWD+IFR1+MS
5100.000	21.088	110.529	4437.664	20.941	0.000	27.000	-0.000	12.054	0.000	0.000	27.006	18.614	112.149	XOM_R2OWSG MWD+IFR1+MS
5200.000	18.946	110.529	4531.617	21.246	0.000	27.456	-0.000	12.233	0.000	0.000	27.462	19.017	112.194	XOM_R2OWSG MWD+IFR1+MS
5300.000	16.804	110.529	4626.785	21.507	0.000	27.881	-0.000	12.395	0.000	0.000	27.887	19.411	112.239	XOM_R2OWSG MWD+IFR1+MS
5400.000	14.662	110.529	4723.033	21.726	0.000	28.277	-0.000	12.541	0.000	0.000	28.284	19.794	112.283	XOM_R2OWSG MWD+IFR1+MS
5500.000	12.519	110.529	4820.227	21.901	0.000	28.646	-0.000	12.672	0.000	0.000	28.653	20.165	112.325	XOM_R2OWSG MWD+IFR1+MS
5600.000	10.377	110.529	4918.232	22.032	0.000	28.988	-0.000	12.790	0.000	0.000	28.996	20.523	112.367	XOM_R2OWSG MWD+IFR1+MS

5700.000	8.235	110.529	5016.910	22.120	0.000	29.306	-0.000	12.895	0.000	0.000	29.314	20.868	112.406	XOM_R2OWSG MWD+IFR1+MS
5800.000	6.093	110.529	5116.124	22.165	0.000	29.600	-0.000	12.990	0.000	0.000	29.609	21.198	112.443	XOM_R2OWSG MWD+IFR1+MS
5900.000	3.950	110.529	5215.734	22.167	0.000	29.874	-0.000	13.075	0.000	0.000	29.882	21.512	112.477	XOM_R2OWSG MWD+IFR1+MS
6000.000	1.808	110.529	5315.602	22.127	0.000	30.127	-0.000	13.153	0.000	0.000	30.136	21.811	112.508	XOM_R2OWSG MWD+IFR1+MS
6084.412	0.000	0.000	5400.000	29.267	0.000	23.443	0.000	13.214	0.000	0.000	30.333	22.046	112.499	XOM_R2OWSG MWD+IFR1+MS
6100.000	0.000	0.000	5415.588	29.303	0.000	23.483	0.000	13.225	0.000	0.000	30.368	22.088	112.492	XOM_R2OWSG MWD+IFR1+MS
6200.000	0.000	0.000	5515.588	29.536	0.000	23.736	0.000	13.297	0.000	0.000	30.593	22.357	112.442	XOM_R2OWSG MWD+IFR1+MS
6300.000	0.000	0.000	5615.588	29.771	0.000	23.991	0.000	13.370	0.000	0.000	30.820	22.628	112.393	XOM_R2OWSG MWD+IFR1+MS
6400.000	0.000	0.000	5715.588	30.009	0.000	24.250	0.000	13.446	0.000	0.000	31.049	22.902	112.344	XOM_R2OWSG MWD+IFR1+MS
6500.000	0.000	0.000	5815.588	30.249	0.000	24.510	0.000	13.525	0.000	0.000	31.281	23.178	112.296	XOM_R2OWSG MWD+IFR1+MS
6600.000	0.000	0.000	5915.588	30.492	0.000	24.774	0.000	13.606	0.000	0.000	31.516	23.457	112.248	XOM_R2OWSG MWD+IFR1+MS
6700.000	0.000	0.000	6015.588	30.737	0.000	25.039	0.000	13.690	0.000	0.000	31.753	23.737	112.200	XOM_R2OWSG MWD+IFR1+MS
6800.000	0.000	0.000	6115.588	30.984	0.000	25.307	0.000	13.776	0.000	0.000	31.992	24.020	112.153	XOM_R2OWSG MWD+IFR1+MS
6900.000	0.000	0.000	6215.588	31.233	0.000	25.577	0.000	13.865	0.000	0.000	32.233	24.305	112.106	XOM_R2OWSG MWD+IFR1+MS
7000.000	0.000	0.000	6315.588	31.484	0.000	25.849	0.000	13.956	0.000	0.000	32.476	24.591	112.060	XOM_R2OWSG MWD+IFR1+MS
7100.000	0.000	0.000	6415.588	31.737	0.000	26.124	0.000	14.050	0.000	0.000	32.722	24.879	112.014	XOM_R2OWSG MWD+IFR1+MS
7200.000	0.000	0.000	6515.588	31.993	0.000	26.400	0.000	14.148	0.000	0.000	32.970	25.170	111.968	XOM_R2OWSG MWD+IFR1+MS
7300.000	0.000	0.000	6615.588	32.250	0.000	26.678	0.000	14.247	0.000	0.000	33.219	25.461	111.923	XOM_R2OWSG MWD+IFR1+MS
7400.000	0.000	0.000	6715.588	32.509	0.000	26.959	0.000	14.350	0.000	0.000	33.471	25.755	111.878	XOM_R2OWSG MWD+IFR1+MS
7500.000	0.000	0.000	6815.588	32.770	0.000	27.241	0.000	14.456	0.000	0.000	33.725	26.050	111.833	XOM_R2OWSG MWD+IFR1+MS

7600.000	0.000	0.000	6915.588	33.033	0.000	27.525	0.000	14.565	0.000	0.000	33.980	26.347	111.789	XOM_R2OWSG MWD+IFR1+MS
7700.000	0.000	0.000	7015.588	33.298	0.000	27.810	0.000	14.677	0.000	0.000	34.237	26.645	111.745	XOM_R2OWSG MWD+IFR1+MS
7800.000	0.000	0.000	7115.588	33.565	0.000	28.097	0.000	14.791	0.000	0.000	34.497	26.945	111.701	XOM_R2OWSG MWD+IFR1+MS
7900.000	0.000	0.000	7215.588	33.833	0.000	28.386	0.000	14.909	0.000	0.000	34.758	27.246	111.658	XOM_R2OWSG MWD+IFR1+MS
8000.000	0.000	0.000	7315.588	34.103	0.000	28.677	0.000	15.030	0.000	0.000	35.020	27.548	111.615	XOM_R2OWSG MWD+IFR1+MS
8100.000	0.000	0.000	7415.588	34.374	0.000	28.968	0.000	15.155	0.000	0.000	35.285	27.852	111.572	XOM_R2OWSG MWD+IFR1+MS
8200.000	0.000	0.000	7515.588	34.647	0.000	29.262	0.000	15.282	0.000	0.000	35.551	28.157	111.529	XOM_R2OWSG MWD+IFR1+MS
8300.000	0.000	0.000	7615.588	34.922	0.000	29.557	0.000	15.413	0.000	0.000	35.818	28.463	111.487	XOM_R2OWSG MWD+IFR1+MS
8400.000	0.000	0.000	7715.588	35.198	0.000	29.853	0.000	15.547	0.000	0.000	36.088	28.771	111.446	XOM_R2OWSG MWD+IFR1+MS
8500.000	0.000	0.000	7815.588	35.475	0.000	30.151	0.000	15.684	0.000	0.000	36.358	29.080	111.404	XOM_R2OWSG MWD+IFR1+MS
8600.000	0.000	0.000	7915.588	35.754	0.000	30.449	0.000	15.824	0.000	0.000	36.631	29.389	111.363	XOM_R2OWSG MWD+IFR1+MS
8700.000	0.000	0.000	8015.588	36.035	0.000	30.750	0.000	15.968	0.000	0.000	36.904	29.700	111.322	XOM_R2OWSG MWD+IFR1+MS
8800.000	0.000	0.000	8115.588	36.316	0.000	31.051	0.000	16.116	0.000	0.000	37.180	30.012	111.282	XOM_R2OWSG MWD+IFR1+MS
8900.000	0.000	0.000	8215.588	36.599	0.000	31.354	0.000	16.267	0.000	0.000	37.456	30.325	111.241	XOM_R2OWSG MWD+IFR1+MS
9000.000	0.000	0.000	8315.588	36.884	0.000	31.657	0.000	16.421	0.000	0.000	37.734	30.639	111.201	XOM_R2OWSG MWD+IFR1+MS
9100.000	0.000	0.000	8415.588	37.170	0.000	31.962	0.000	16.578	0.000	0.000	38.014	30.954	111.162	XOM_R2OWSG MWD+IFR1+MS
9200.000	0.000	0.000	8515.588	37.457	0.000	32.268	0.000	16.740	0.000	0.000	38.294	31.270	111.122	XOM_R2OWSG MWD+IFR1+MS
9300.000	0.000	0.000	8615.588	37.745	0.000	32.575	0.000	16.904	0.000	0.000	38.576	31.586	111.083	XOM_R2OWSG MWD+IFR1+MS
9400.000	0.000	0.000	8715.588	38.034	0.000	32.884	0.000	17.073	0.000	0.000	38.860	31.904	111.044	XOM_R2OWSG MWD+IFR1+MS
9500.000	0.000	0.000	8815.588	38.325	0.000	33.193	0.000	17.244	0.000	0.000	39.144	32.222	111.006	XOM_R2OWSG MWD+IFR1+MS

9600.000	0.000	0.000	8915.588	38.616	0.000	33.503	0.000	17.420	0.000	0.000	39.430	32.542	110.968	XOM_R2OWSG MWD+IFR1+MS
9700.000	0.000	0.000	9015.588	38.909	0.000	33.814	0.000	17.599	0.000	0.000	39.717	32.862	110.930	XOM_R2OWSG MWD+IFR1+MS
9800.000	0.000	0.000	9115.588	39.203	0.000	34.126	0.000	17.781	0.000	0.000	40.005	33.183	110.892	XOM_R2OWSG MWD+IFR1+MS
9900.000	0.000	0.000	9215.588	39.498	0.000	34.439	0.000	17.967	0.000	0.000	40.294	33.504	110.854	XOM_R2OWSG MWD+IFR1+MS
10000.000	0.000	0.000	9315.588	39.794	0.000	34.753	0.000	18.157	0.000	0.000	40.584	33.827	110.817	XOM_R2OWSG MWD+IFR1+MS
10100.000	0.000	0.000	9415.588	40.091	0.000	35.067	0.000	18.350	0.000	0.000	40.876	34.150	110.780	XOM_R2OWSG MWD+IFR1+MS
10200.000	0.000	0.000	9515.588	40.389	0.000	35.383	0.000	18.547	0.000	0.000	41.168	34.473	110.744	XOM_R2OWSG MWD+IFR1+MS
10300.000	0.000	0.000	9615.588	40.688	0.000	35.699	0.000	18.748	0.000	0.000	41.461	34.798	110.707	XOM_R2OWSG MWD+IFR1+MS
10400.000	0.000	0.000	9715.588	40.988	0.000	36.016	0.000	18.952	0.000	0.000	41.756	35.123	110.671	XOM_R2OWSG MWD+IFR1+MS
10500.000	0.000	0.000	9815.588	41.289	0.000	36.334	0.000	19.160	0.000	0.000	42.051	35.449	110.635	XOM_R2OWSG MWD+IFR1+MS
10600.000	0.000	0.000	9915.588	41.591	0.000	36.653	0.000	19.372	0.000	0.000	42.348	35.775	110.599	XOM_R2OWSG MWD+IFR1+MS
10700.000	0.000	0.000	10015.588	41.893	0.000	36.972	0.000	19.587	0.000	0.000	42.645	36.102	110.564	XOM_R2OWSG MWD+IFR1+MS
10800.000	0.000	0.000	10115.588	42.197	0.000	37.292	0.000	19.806	0.000	0.000	42.944	36.429	110.529	XOM_R2OWSG MWD+IFR1+MS
10835.210	0.000	0.000	10150.803	42.304	0.000	37.405	0.000	19.884	0.000	0.000	43.049	36.545	110.517	XOM_R2OWSG MWD+IFR1+MS
10900.000	5.183	359.796	10215.505	42.161	0.000	37.625	0.000	20.028	0.000	0.000	43.241	36.753	110.501	XOM_R2OWSG MWD+IFR1+MS
11000.000	13.183	359.796	10314.143	41.436	0.000	37.925	0.000	20.253	0.000	0.000	43.525	37.056	110.505	XOM_R2OWSG MWD+IFR1+MS
11100.000	21.183	359.796	10409.602	40.106	0.000	38.203	0.000	20.486	0.000	0.000	43.789	37.333	110.546	XOM_R2OWSG MWD+IFR1+MS
11200.000	29.183	359.796	10500.023	38.232	0.000	38.456	0.000	20.734	0.000	0.000	44.023	37.582	110.620	XOM_R2OWSG MWD+IFR1+MS
11300.000	37.183	359.796	10583.648	35.908	0.000	38.681	0.000	21.005	0.000	0.000	44.222	37.804	110.715	XOM_R2OWSG MWD+IFR1+MS
11400.000	45.183	359.796	10658.848	33.262	0.000	38.879	0.000	21.303	0.000	0.000	44.381	37.999	110.812	XOM_R2OWSG MWD+IFR1+MS

11500.000	53.183	359.796	10724.159	30.468	0.000	39.048	0.000	21.633	0.000	0.000	44.497	38.171	110.887	XOM_R2OWSG MWD+IFR1+MS
11600.000	61.183	359.796	10778.310	27.760	0.000	39.190	0.000	21.996	0.000	0.000	44.572	38.323	110.912	XOM_R2OWSG MWD+IFR1+MS
11700.000	69.183	359.796	10820.248	25.436	0.000	39.306	0.000	22.392	0.000	0.000	44.607	38.458	110.855	XOM_R2OWSG MWD+IFR1+MS
11800.000	77.183	359.796	10849.156	23.845	0.000	39.396	0.000	22.818	0.000	0.000	44.608	38.578	110.680	XOM_R2OWSG MWD+IFR1+MS
11900.000	85.183	359.796	10864.471	23.298	0.000	39.461	0.000	23.266	0.000	0.000	44.582	38.687	110.345	XOM_R2OWSG MWD+IFR1+MS
11960.210	90.000	359.796	10867.000	23.543	0.000	39.487	0.000	23.543	0.000	0.000	44.557	38.746	110.043	XOM_R2OWSG MWD+IFR1+MS
12000.000	90.000	359.796	10867.000	23.728	0.000	39.502	0.000	23.728	0.000	0.000	44.538	38.784	109.820	XOM_R2OWSG MWD+IFR1+MS
12100.000	90.000	359.796	10867.000	24.205	0.000	39.557	0.000	24.205	0.000	0.000	44.495	38.894	109.293	XOM_R2OWSG MWD+IFR1+MS
12200.000	90.000	359.796	10867.000	24.698	0.000	39.632	0.000	24.698	0.000	0.000	44.454	39.021	108.796	XOM_R2OWSG MWD+IFR1+MS
12300.000	90.000	359.796	10867.000	25.206	0.000	39.727	0.000	25.206	0.000	0.000	44.417	39.165	108.327	XOM_R2OWSG MWD+IFR1+MS
12400.000	90.000	359.796	10867.000	25.728	0.000	39.840	0.000	25.728	0.000	0.000	44.382	39.325	107.886	XOM_R2OWSG MWD+IFR1+MS
12500.000	90.000	359.796	10867.000	26.262	0.000	39.973	0.000	26.262	0.000	0.000	44.350	39.501	107.472	XOM_R2OWSG MWD+IFR1+MS
12600.000	90.000	359.796	10867.000	26.810	0.000	40.125	0.000	26.810	0.000	0.000	44.321	39.694	107.086	XOM_R2OWSG MWD+IFR1+MS
12700.000	90.000	359.796	10867.000	27.368	0.000	40.295	0.000	27.368	0.000	0.000	44.295	39.904	106.726	XOM_R2OWSG MWD+IFR1+MS
12800.000	90.000	359.796	10867.000	27.938	0.000	40.484	0.000	27.938	0.000	0.000	44.270	40.130	106.394	XOM_R2OWSG MWD+IFR1+MS
12900.000	90.000	359.796	10867.000	28.517	0.000	40.690	0.000	28.517	0.000	0.000	44.248	40.372	106.092	XOM_R2OWSG MWD+IFR1+MS
13000.000	90.000	359.796	10867.000	29.107	0.000	40.915	0.000	29.107	0.000	0.000	44.228	40.630	105.822	XOM_R2OWSG MWD+IFR1+MS
13100.000	90.000	359.796	10867.000	29.705	0.000	41.158	0.000	29.705	0.000	0.000	44.210	40.904	105.588	XOM_R2OWSG MWD+IFR1+MS
13200.000	90.000	359.796	10867.000	30.312	0.000	41.417	0.000	30.312	0.000	0.000	44.194	41.193	105.397	XOM_R2OWSG MWD+IFR1+MS
13300.000	90.000	359.796	10867.000	30.927	0.000	41.694	0.000	30.927	0.000	0.000	44.180	41.498	105.259	XOM_R2OWSG MWD+IFR1+MS

13400.000	90.000	359.796	10867.000	31.549	0.000	41.988	0.000	31.549	0.000	0.000	44.168	41.818	105.194	XOM_R2OWSG MWD+IFR1+MS
13500.000	90.000	359.796	10867.000	32.179	0.000	42.297	0.000	32.179	0.000	0.000	44.157	42.152	105.235	XOM_R2OWSG MWD+IFR1+MS
13600.000	90.000	359.796	10867.000	32.815	0.000	42.623	0.000	32.815	0.000	0.000	44.148	42.501	105.447	XOM_R2OWSG MWD+IFR1+MS
13700.000	90.000	359.796	10867.000	33.458	0.000	42.964	0.000	33.458	0.000	0.000	44.142	42.864	105.976	XOM_R2OWSG MWD+IFR1+MS
13800.000	90.000	359.796	10867.000	34.106	0.000	43.321	0.000	34.106	0.000	0.000	44.137	43.239	107.233	XOM_R2OWSG MWD+IFR1+MS
13900.000	90.000	359.796	10867.000	34.760	0.000	43.692	0.000	34.760	0.000	0.000	44.138	43.625	110.892	XOM_R2OWSG MWD+IFR1+MS
14000.000	90.000	359.796	10867.000	35.420	0.000	44.078	0.000	35.420	0.000	0.000	44.171	43.994	133.324	XOM_R2OWSG MWD+IFR1+MS
14100.000	90.000	359.796	10867.000	36.084	0.000	44.478	0.000	36.084	0.000	0.000	44.478	44.102	-1.005	XOM_R2OWSG MWD+IFR1+MS
14200.000	90.000	359.796	10867.000	36.753	0.000	44.891	0.000	36.753	0.000	0.000	44.899	44.111	5.436	XOM_R2OWSG MWD+IFR1+MS
14300.000	90.000	359.796	10867.000	37.427	0.000	45.318	0.000	37.427	0.000	0.000	45.339	44.114	7.300	XOM_R2OWSG MWD+IFR1+MS
14400.000	90.000	359.796	10867.000	38.105	0.000	45.758	0.000	38.105	0.000	0.000	45.792	44.117	8.093	XOM_R2OWSG MWD+IFR1+MS
14500.000	90.000	359.796	10867.000	38.787	0.000	46.210	0.000	38.787	0.000	0.000	46.258	44.121	8.480	XOM_R2OWSG MWD+IFR1+MS
14600.000	90.000	359.796	10867.000	39.472	0.000	46.675	0.000	39.472	0.000	0.000	46.736	44.125	8.671	XOM_R2OWSG MWD+IFR1+MS
14700.000	90.000	359.796	10867.000	40.162	0.000	47.152	0.000	40.162	0.000	0.000	47.224	44.131	8.755	XOM_R2OWSG MWD+IFR1+MS
14800.000	90.000	359.796	10867.000	40.855	0.000	47.640	0.000	40.855	0.000	0.000	47.724	44.137	8.776	XOM_R2OWSG MWD+IFR1+MS
14900.000	90.000	359.796	10867.000	41.551	0.000	48.139	0.000	41.551	0.000	0.000	48.234	44.145	8.757	XOM_R2OWSG MWD+IFR1+MS
15000.000	90.000	359.796	10867.000	42.250	0.000	48.649	0.000	42.250	0.000	0.000	48.755	44.154	8.711	XOM_R2OWSG MWD+IFR1+MS
15100.000	90.000	359.796	10867.000	42.952	0.000	49.170	0.000	42.952	0.000	0.000	49.285	44.163	8.647	XOM_R2OWSG MWD+IFR1+MS
15200.000	90.000	359.796	10867.000	43.657	0.000	49.700	0.000	43.657	0.000	0.000	49.825	44.174	8.571	XOM_R2OWSG MWD+IFR1+MS
15300.000	90.000	359.796	10867.000	44.365	0.000	50.241	0.000	44.365	0.000	0.000	50.374	44.185	8.487	XOM_R2OWSG MWD+IFR1+MS

15400.000	90.000	359.796	10867.000	45.075	0.000	50.791	0.000	45.075	0.000	0.000	50.932	44.198	8.398	XOM_R2OWSG MWD+IFR1+MS
15500.000	90.000	359.796	10867.000	45.788	0.000	51.350	0.000	45.788	0.000	0.000	51.499	44.211	8.304	XOM_R2OWSG MWD+IFR1+MS
15600.000	90.000	359.796	10867.000	46.503	0.000	51.919	0.000	46.503	0.000	0.000	52.074	44.226	8.208	XOM_R2OWSG MWD+IFR1+MS
15700.000	90.000	359.796	10867.000	47.220	0.000	52.495	0.000	47.220	0.000	0.000	52.658	44.241	8.111	XOM_R2OWSG MWD+IFR1+MS
15800.000	90.000	359.796	10867.000	47.939	0.000	53.081	0.000	47.939	0.000	0.000	53.249	44.257	8.013	XOM_R2OWSG MWD+IFR1+MS
15900.000	90.000	359.796	10867.000	48.661	0.000	53.674	0.000	48.661	0.000	0.000	53.848	44.274	7.916	XOM_R2OWSG MWD+IFR1+MS
16000.000	90.000	359.796	10867.000	49.384	0.000	54.275	0.000	49.384	0.000	0.000	54.455	44.292	7.818	XOM_R2OWSG MWD+IFR1+MS
16100.000	90.000	359.796	10867.000	50.109	0.000	54.884	0.000	50.109	0.000	0.000	55.068	44.311	7.721	XOM_R2OWSG MWD+IFR1+MS
16200.000	90.000	359.796	10867.000	50.836	0.000	55.499	0.000	50.836	0.000	0.000	55.689	44.331	7.626	XOM_R2OWSG MWD+IFR1+MS
16300.000	90.000	359.796	10867.000	51.565	0.000	56.122	0.000	51.565	0.000	0.000	56.316	44.351	7.531	XOM_R2OWSG MWD+IFR1+MS
16400.000	90.000	359.796	10867.000	52.295	0.000	56.752	0.000	52.295	0.000	0.000	56.950	44.373	7.438	XOM_R2OWSG MWD+IFR1+MS
16500.000	90.000	359.796	10867.000	53.027	0.000	57.389	0.000	53.027	0.000	0.000	57.591	44.395	7.346	XOM_R2OWSG MWD+IFR1+MS
16600.000	90.000	359.796	10867.000	53.760	0.000	58.031	0.000	53.760	0.000	0.000	58.237	44.418	7.256	XOM_R2OWSG MWD+IFR1+MS
16700.000	90.000	359.796	10867.000	54.494	0.000	58.680	0.000	54.494	0.000	0.000	58.889	44.441	7.167	XOM_R2OWSG MWD+IFR1+MS
16800.000	90.000	359.796	10867.000	55.231	0.000	59.335	0.000	55.231	0.000	0.000	59.547	44.466	7.079	XOM_R2OWSG MWD+IFR1+MS
16900.000	90.000	359.796	10867.000	55.968	0.000	59.996	0.000	55.968	0.000	0.000	60.211	44.491	6.993	XOM_R2OWSG MWD+IFR1+MS
17000.000	90.000	359.796	10867.000	56.707	0.000	60.662	0.000	56.707	0.000	0.000	60.880	44.517	6.909	XOM_R2OWSG MWD+IFR1+MS
17100.000	90.000	359.796	10867.000	57.447	0.000	61.334	0.000	57.447	0.000	0.000	61.554	44.544	6.827	XOM_R2OWSG MWD+IFR1+MS
17200.000	90.000	359.796	10867.000	58.188	0.000	62.011	0.000	58.188	0.000	0.000	62.233	44.572	6.745	XOM_R2OWSG MWD+IFR1+MS
17300.000	90.000	359.796	10867.000	58.930	0.000	62.693	0.000	58.930	0.000	0.000	62.917	44.600	6.666	XOM_R2OWSG MWD+IFR1+MS

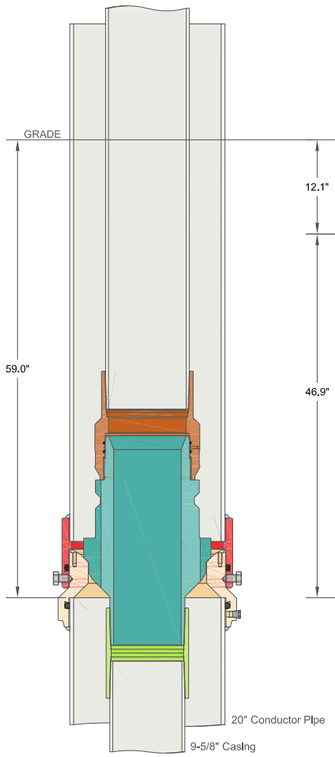
17400.000	90.000	359.796	10867.000	59.673	0.000	63.380	0.000	59.673	0.000	0.000	63.606	44.630	6.588	XOM_R2OWSG MWD+IFR1+MS
17500.000	90.000	359.796	10867.000	60.418	0.000	64.071	0.000	60.418	0.000	0.000	64.299	44.659	6.511	XOM_R2OWSG MWD+IFR1+MS
17600.000	90.000	359.796	10867.000	61.163	0.000	64.768	0.000	61.163	0.000	0.000	64.997	44.690	6.436	XOM_R2OWSG MWD+IFR1+MS
17700.000	90.000	359.796	10867.000	61.909	0.000	65.468	0.000	61.909	0.000	0.000	65.699	44.721	6.363	XOM_R2OWSG MWD+IFR1+MS
17800.000	90.000	359.796	10867.000	62.657	0.000	66.173	0.000	62.657	0.000	0.000	66.406	44.753	6.291	XOM_R2OWSG MWD+IFR1+MS
17900.000	90.000	359.796	10867.000	63.405	0.000	66.883	0.000	63.405	0.000	0.000	67.116	44.786	6.220	XOM_R2OWSG MWD+IFR1+MS
18000.000	90.000	359.796	10867.000	64.154	0.000	67.596	0.000	64.154	0.000	0.000	67.830	44.819	6.151	XOM_R2OWSG MWD+IFR1+MS
18100.000	90.000	359.796	10867.000	64.904	0.000	68.313	0.000	64.904	0.000	0.000	68.548	44.854	6.083	XOM_R2OWSG MWD+IFR1+MS
18200.000	90.000	359.796	10867.000	65.654	0.000	69.034	0.000	65.654	0.000	0.000	69.270	44.888	6.016	XOM_R2OWSG MWD+IFR1+MS
18300.000	90.000	359.796	10867.000	66.406	0.000	69.758	0.000	66.406	0.000	0.000	69.995	44.924	5.950	XOM_R2OWSG MWD+IFR1+MS
18400.000	90.000	359.796	10867.000	67.158	0.000	70.486	0.000	67.158	0.000	0.000	70.724	44.960	5.886	XOM_R2OWSG MWD+IFR1+MS
18500.000	90.000	359.796	10867.000	67.911	0.000	71.218	0.000	67.911	0.000	0.000	71.456	44.997	5.823	XOM_R2OWSG MWD+IFR1+MS
18600.000	90.000	359.796	10867.000	68.665	0.000	71.953	0.000	68.665	0.000	0.000	72.191	45.034	5.762	XOM_R2OWSG MWD+IFR1+MS
18700.000	90.000	359.796	10867.000	69.419	0.000	72.691	0.000	69.419	0.000	0.000	72.930	45.073	5.701	XOM_R2OWSG MWD+IFR1+MS
18800.000	90.000	359.796	10867.000	70.174	0.000	73.432	0.000	70.174	0.000	0.000	73.671	45.111	5.642	XOM_R2OWSG MWD+IFR1+MS
18900.000	90.000	359.796	10867.000	70.930	0.000	74.176	0.000	70.930	0.000	0.000	74.416	45.151	5.583	XOM_R2OWSG MWD+IFR1+MS
19000.000	90.000	359.796	10867.000	71.686	0.000	74.924	0.000	71.686	0.000	0.000	75.163	45.191	5.526	XOM_R2OWSG MWD+IFR1+MS
19100.000	90.000	359.796	10867.000	72.443	0.000	75.674	0.000	72.443	0.000	0.000	75.914	45.232	5.470	XOM_R2OWSG MWD+IFR1+MS
19200.000	90.000	359.796	10867.000	73.201	0.000	76.427	0.000	73.201	0.000	0.000	76.667	45.273	5.415	XOM_R2OWSG MWD+IFR1+MS
19300.000	90.000	359.796	10867.000	73.959	0.000	77.182	0.000	73.959	0.000	0.000	77.422	45.315	5.361	XOM_R2OWSG MWD+IFR1+MS

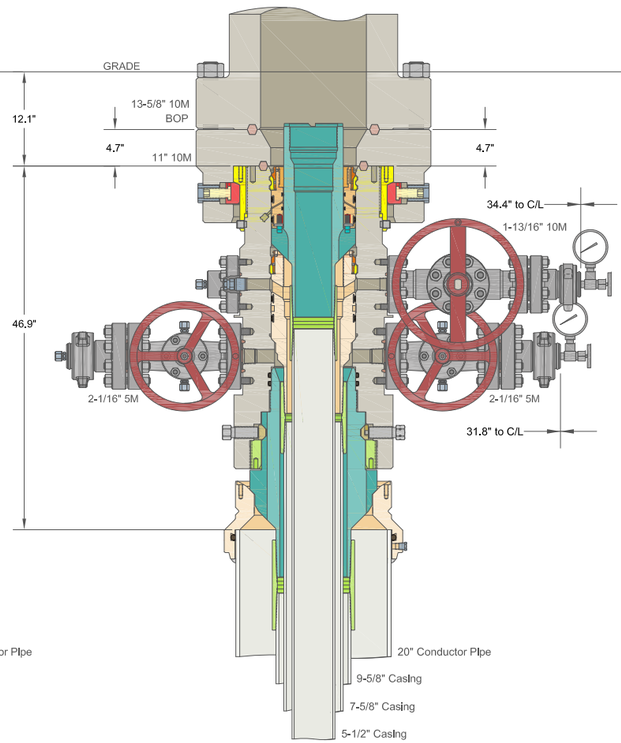
19400.000	90.000	359.796	10867.000	74.718	0.000	77.941	0.000	74.718	0.000	0.000	78.180	45.358	5.308	XOM_R2OWSG MWD+IFR1+MS
19500.000	90.000	359.796	10867.000	75.477	0.000	78.702	0.000	75.477	0.000	0.000	78.941	45.401	5.256	XOM_R2OWSG MWD+IFR1+MS
19600.000	90.000	359.796	10867.000	76.237	0.000	79.465	0.000	76.237	0.000	0.000	79.704	45.445	5.204	XOM_R2OWSG MWD+IFR1+MS
19700.000	90.000	359.796	10867.000	76.997	0.000	80.231	0.000	76.997	0.000	0.000	80.470	45.490	5.154	XOM_R2OWSG MWD+IFR1+MS
19800.000	90.000	359.796	10867.000	77.757	0.000	80.999	0.000	77.757	0.000	0.000	81.237	45.535	5.105	XOM_R2OWSG MWD+IFR1+MS
19900.000	90.000	359.796	10867.000	78.519	0.000	81.769	0.000	78.519	0.000	0.000	82.007	45.581	5.056	XOM_R2OWSG MWD+IFR1+MS
20000.000	90.000	359.796	10867.000	79.280	0.000	82.541	0.000	79.280	0.000	0.000	82.780	45.627	5.008	XOM_R2OWSG MWD+IFR1+MS
20100.000	90.000	359.796	10867.000	80.042	0.000	83.316	0.000	80.042	0.000	0.000	83.554	45.674	4.961	XOM_R2OWSG MWD+IFR1+MS
20200.000	90.000	359.796	10867.000	80.805	0.000	84.093	0.000	80.805	0.000	0.000	84.330	45.722	4.915	XOM_R2OWSG MWD+IFR1+MS
20300.000	90.000	359.796	10867.000	81.568	0.000	84.872	0.000	81.568	0.000	0.000	85.108	45.770	4.870	XOM_R2OWSG MWD+IFR1+MS
20400.000	90.000	359.796	10867.000	82.331	0.000	85.652	0.000	82.331	0.000	0.000	85.889	45.819	4.826	XOM_R2OWSG MWD+IFR1+MS
20500.000	90.000	359.796	10867.000	83.095	0.000	86.435	0.000	83.095	0.000	0.000	86.671	45.868	4.782	XOM_R2OWSG MWD+IFR1+MS
20600.000	90.000	359.796	10867.000	83.859	0.000	87.219	0.000	83.859	0.000	0.000	87.455	45.918	4.739	XOM_R2OWSG MWD+IFR1+MS
20700.000	90.000	359.796	10867.000	84.623	0.000	88.006	0.000	84.623	0.000	0.000	88.241	45.969	4.696	XOM_R2OWSG MWD+IFR1+MS
20800.000	90.000	359.796	10867.000	85.388	0.000	88.794	0.000	85.388	0.000	0.000	89.028	46.020	4.655	XOM_R2OWSG MWD+IFR1+MS
20900.000	90.000	359.796	10867.000	86.154	0.000	89.584	0.000	86.154	0.000	0.000	89.818	46.072	4.614	XOM_R2OWSG MWD+IFR1+MS
21000.000	90.000	359.796	10867.000	86.919	0.000	90.375	0.000	86.919	0.000	0.000	90.608	46.124	4.574	XOM_R2OWSG MWD+IFR1+MS
21100.000	90.000	359.796	10867.000	87.685	0.000	91.169	0.000	87.685	0.000	0.000	91.401	46.177	4.534	XOM_R2OWSG MWD+IFR1+MS
21200.000	90.000	359.796	10867.000	88.451	0.000	91.963	0.000	88.451	0.000	0.000	92.195	46.230	4.495	XOM_R2OWSG MWD+IFR1+MS
21300.000	90.000	359.796	10867.000	89.218	0.000	92.760	0.000	89.218	0.000	0.000	92.991	46.285	4.457	XOM_R2OWSG MWD+IFR1+MS

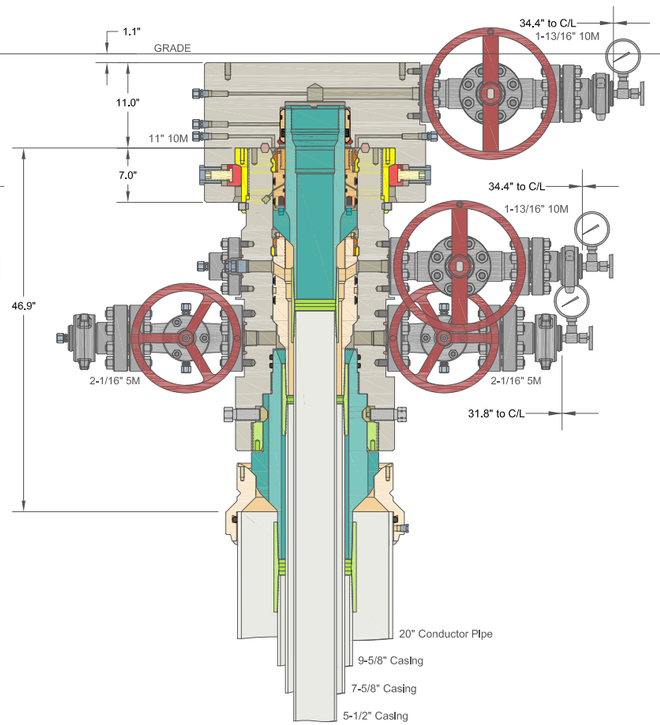
21400.000	90.000	359.796	10867.000	89.985	0.000	93.557	0.000	89.985	0.000	0.000	93.788	46.339	4.419	XOM_R2OWSG MWD+IFR1+MS
21500.000	90.000	359.796	10867.000	90.752	0.000	94.357	0.000	90.752	0.000	0.000	94.587	46.394	4.382	XOM_R2OWSG MWD+IFR1+MS
21600.000	90.000	359.796	10867.000	91.520	0.000	95.157	0.000	91.520	0.000	0.000	95.387	46.450	4.345	XOM_R2OWSG MWD+IFR1+MS
21700.000	90.000	359.796	10867.000	92.287	0.000	95.960	0.000	92.287	0.000	0.000	96.188	46.506	4.309	XOM_R2OWSG MWD+IFR1+MS
21800.000	90.000	359.796	10867.000	93.055	0.000	96.763	0.000	93.055	0.000	0.000	96.991	46.563	4.274	XOM_R2OWSG MWD+IFR1+MS
21900.000	90.000	359.796	10867.000	93.824	0.000	97.568	0.000	93.824	0.000	0.000	97.795	46.620	4.239	XOM_R2OWSG MWD+IFR1+MS
22000.000	90.000	359.796	10867.000	94.592	0.000	98.374	0.000	94.592	0.000	0.000	98.600	46.678	4.204	XOM_R2OWSG MWD+IFR1+MS
22100.000	90.000	359.796	10867.000	95.361	0.000	99.181	0.000	95.361	0.000	0.000	99.407	46.737	4.170	XOM_R2OWSG MWD+IFR1+MS
22140.470	90.000	359.796	10867.000	95.672	0.000	99.508	0.000	95.672	0.000	0.000	99.733	46.760	4.157	XOM_R2OWSG MWD+IFR1+MS
22190.490	90.000	359.796	10867.000	96.057	0.000	99.912	0.000	96.057	0.000	0.000	100.137	46.790	4.140	XOM_R2OWSG MWD+IFR1+MS

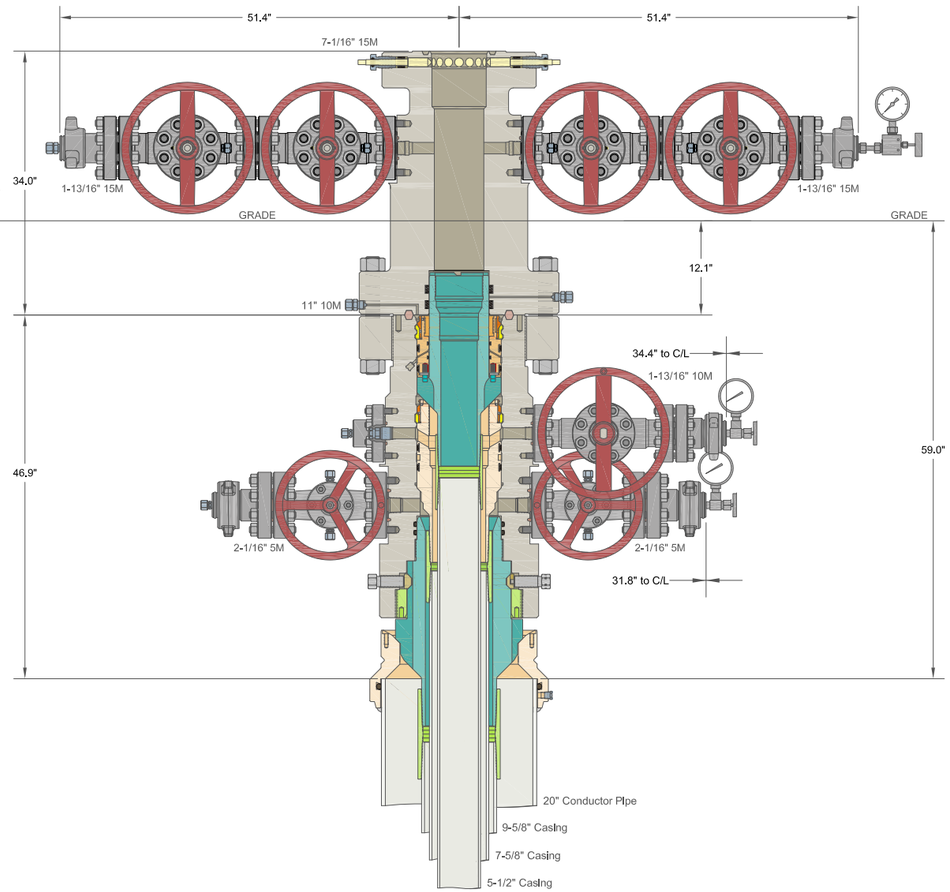
Plan Targets Corral 17-8 Fed Com 166H

Target Name	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape
166H BHL	22190.47	419052.70	603379.40	7854.00	CIRCLE
166H LTP	22140.47	419002.70	603379.50	7854.00	CIRCLE
166H FTP	11960.19	408822.50	603415.60	7854.00	CIRCLE









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

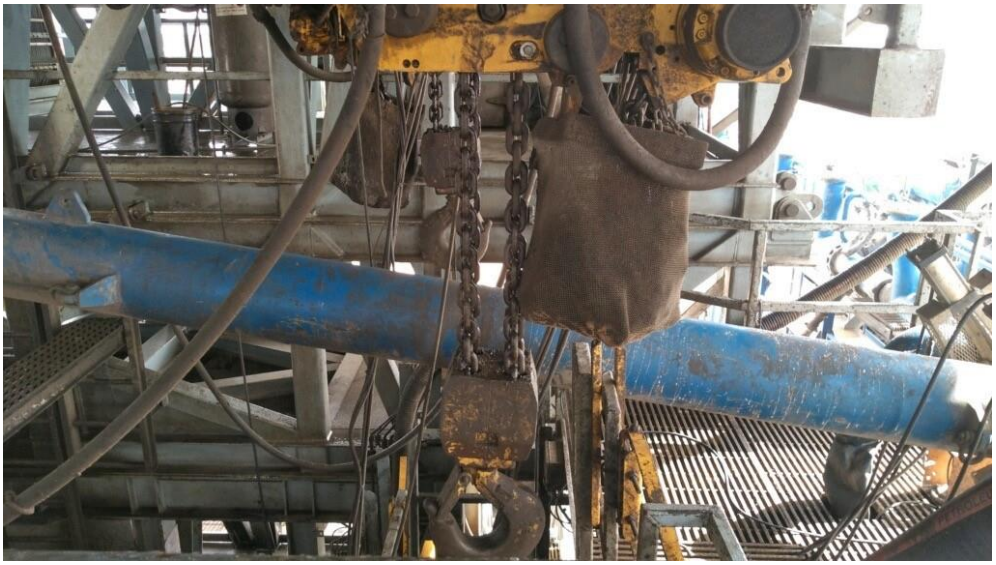


Figure 2: BOP Winch System

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.

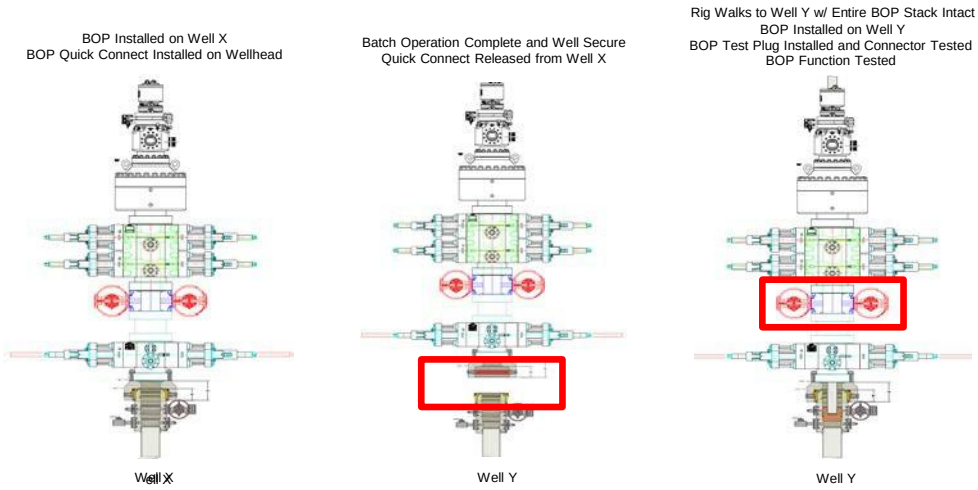
XTO Energy feels break testing and our current procedures meet the intent of CFR Title 43 Part 317 0and often exceed it. There has been no evidence that break testing results in more components failing than seen on full BOP tests. XTO Energy's internal standards requires complete BOPE tests more often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

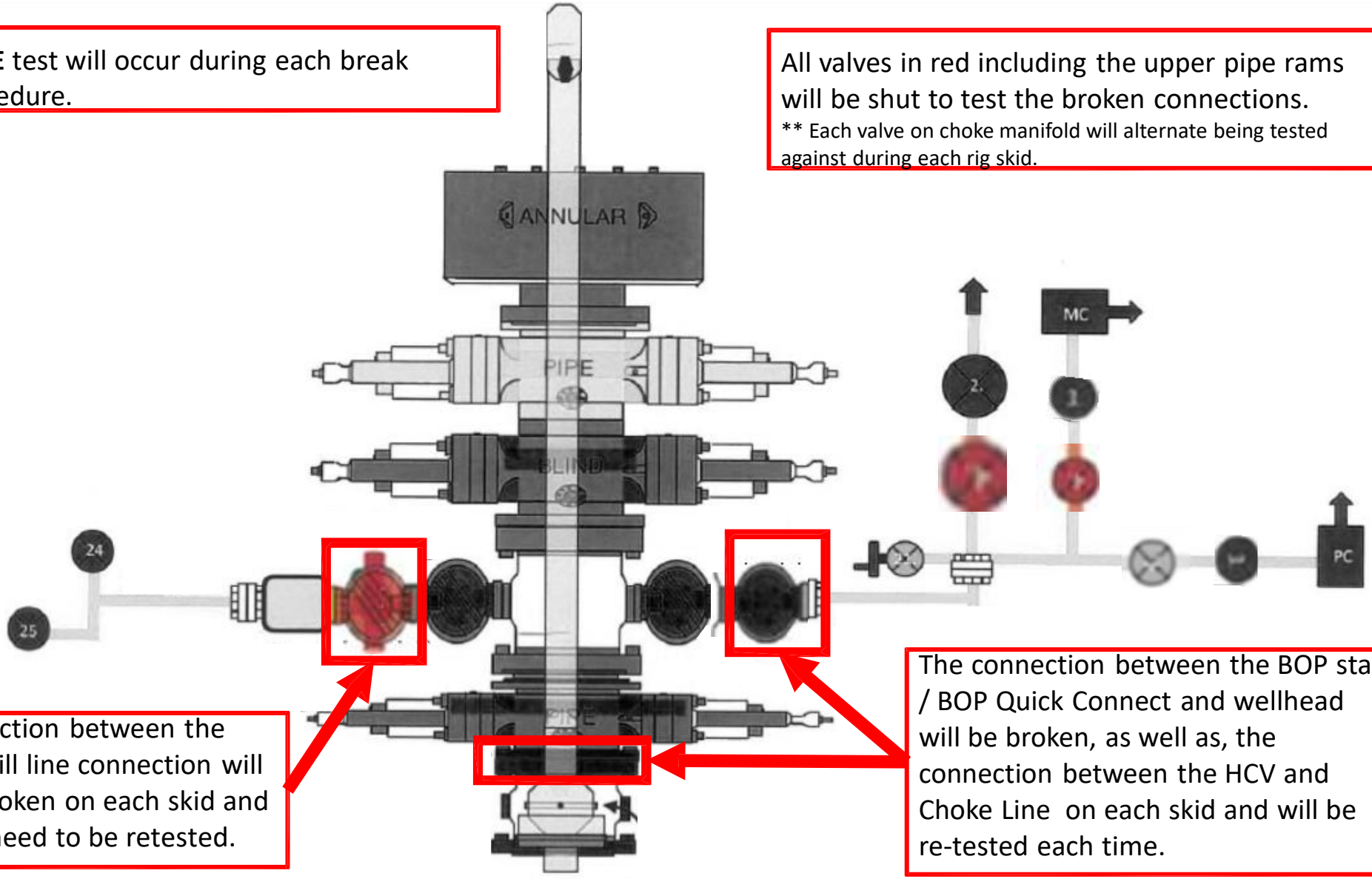
3. Full BOP test will be required if the intermediate hole section being drilled has a MASP over 5M.

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 Onshore O&G Order No. 2 with the exception of the 5000 psi annular which will be tested to 70% of its RWP.

General Procedure While Drilling

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

1. Sound alarm (alert crew)
2. Stab crossover and full-opening safety valve and close
3. Space out 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% 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

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

CONDITIONS

Action 362911

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 362911
	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.	7/19/2024