

Well Name: CORRAL 17-8 FED COM	Well Location: T25S / R29E / SEC 17 / SESW / 32.123719 / -104.008119	County or Parish/State: EDDY / NM
Well Number: 103H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMNM99147	Unit or CA Name:	Unit or CA Number:
US Well Number: 3001555129	Operator: XTO ENERGY INCORPORATED	

Notice of Intent

Sundry ID: 2797574

Type of Submission: Notice of Intent	Type of Action: APD Change
Date Sundry Submitted: 06/27/2024	Time Sundry Submitted: 11:06
Date proposed operation will begin: 07/11/2024	

Procedure Description: XTO Energy Incorporated respectfully requests approval to make the following changes to the approved APD. Changes to include SHL, LTP, Casing sizes, Cement, Proposed total Depth, and formation (Pool). FROM: TO: SHL: 314' FSL & 2175' FWL OF SECTION 17-T25S-R29E 344' FSL & 2175' FWL OF SECTION 17-T25S-R29E LTP: 2448' FSL& 2430' FWL OF SECTION 8-T25S-R29E 2548' FSL & 2430' FWL OF SECTION 8-T25S-R29E The proposed total depth is changing from 17876' MD; 9951' TVD (Purple Sage/Wolfcamp) to 18007' MD; 9950' TVD (Wolfcamp X/Y). The API number for this well is 30-015-55129. 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_Com_103H___BLM_APD_Change_Sundry_Attachments_20240701145426.pdf

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US Well Number: 3001555129	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: JENA AUSTIN

Signed on: JUL 01, 2024 02:54 PM

Name: XTO ENERGY INCORPORATED

Title: Regulatory Analyst

Street Address: 22777 SPRINGWOODS VILLAGE PARKWAY

City: SPRINGState: TX

Phone: (346) 335-5295

Email address: JENA.N.AUSTIN@EXXONMOBIL.COM

Field

Representative Name:

Street Address:

City:State:Zip:

Phone:

Email address:

BLM Point of Contact

BLM POC Name: BOBBY BALLARD

BLM POC Title: Natural Resource Specialist

BLM POC Phone: 5752342235

BLM POC Email Address: bballard@blm.gov

Disposition: Approved

Disposition Date: 08/14/2024

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.

5. Lease Serial No.	
6. If Indian, Allottee or Tribe Name	
7. If Unit of CA/Agreement, Name and/or No.	
8. Well Name and No.	
9. API Well No.	
10. Field and Pool or Exploratory Area	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				
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off	
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity	
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other	
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon		
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal		

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

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

THE SPACE FOR FEDERAL OR STATE OFFICE 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 of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Additional Information

Additional Remarks

See attached Drilling Plan for updated cement and casing program.

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

Location of Well

0. SHL: SESW / 314 FSL / 2175 FWL / TWSP: 25S / RANGE: 29E / SECTION: 17 / LAT: 32.123719 / LONG: -104.008119 (TVD: 0 feet, MD: 0 feet)

PPP: SESW / 330 FSL / 2430 FWL / TWSP: 25S / RANGE: 29E / SECTION: 17 / LAT: 32.123754 / LONG: -104.007295 (TVD: 9951 feet, MD: 10400 feet)

PPP: SENW / 2650 FSL / 2433 FWL / TWSP: 25S / RANGE: 29E / SECTION: 17 / LAT: 32.130131 / LONG: -104.007323 (TVD: 9951 feet, MD: 13100 feet)

BHL: NESW / 2598 FSL / 2430 FWL / TWSP: 25S / RANGE: 29E / SECTION: 8 / LAT: 32.144569 / LONG: -104.007385 (TVD: 9951 feet, MD: 17876 feet)

CONFIDENTIAL

☒ AMENDED REPORT

CC/AI/AR 618.013013.03-03

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.

CORRAL 17 - 8 FED COM 103H

Projected TD: 18007.41' MD / 9950' TVD

SHL: 344' FSL & 2175' FWL , Section 17, T25S, R29E

BHL: 2598' FSL & 2430' FWL , 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	602'	Water
Base of Salt	2702'	Water
Delaware	2902'	Water
Brushy Canyon	5396'	Water/Oil/Gas
Bone Spring	6624'	Water
1st Bone Spring	7398'	Water/Oil/Gas
2nd Bone Spring	7845'	Water/Oil/Gas
3rd Bone Spring	8668'	Water/Oil/Gas
Wolfcamp	9824'	Water/Oil/Gas
Wolfcamp X	9847'	Water/Oil/Gas
Wolfcamp Y	9925'	Water/Oil/Gas
Target/Land Curve	9950'	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 @ 567' (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 9110.23' and cemented to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 18007.41 MD/TD and 5.5 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 8810.23 feet).

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0' – 567'	9.625	40	J-55	BTC	New	1.75	11.10	27.78
8.75	0' – 4000'	7.625	29.7	RY P-110	Flush Joint	New	2.70	2.86	2.06
8.75	4000' – 9110.23'	7.625	29.7	HC L-80	Flush Joint	New	1.96	2.52	2.68
6.75	0' – 9010.23'	5.5	20	RY P-110	Semi-Premium	New	1.26	2.15	2.45
6.75	9010.23' - 18007.41'	5.5	20	RY P-110	Semi-Flush	New	1.26	1.95	2.45

- 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 +/- 567'

Lead: 80 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 +/- 9110.23'

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

TOC: Brushy Canyon @ 5396

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 (5396') 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 +/- 18007.41'

Lead: 20 sxs NeoCem (mixed at 12.8 ppg, 2.69 ft³/sx, 15.00 gal/sx water) Top of Cement: 8810.23 feet

Tail: 620 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft³/sx, 8.38 gal/sx water) Top of Cement: 9310.23 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 3502 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 nipping up on the 9.625, 10M bradenhead and flange, the BOP test will be limited to 10000 psi. When nipping 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' - 567'	12.25	FW/Native	8.4-8.9	35-40	NC
567' - 9110.23'	8.75	FW / Cut Brine / Direct Emulsion	9-9.5	30-32	NC
9110.23' - 18007.41'	6.75	OBM	11-11.5	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 165 to 185 F is anticipated. No H2S is expected but monitors will be in place to detect any H2S occurrences. Should these circumstances be encountered the operator and drilling contractor are prepared to take all necessary steps to ensure safety of all personnel and environment. Lost circulation could occur but is not expected to be a serious problem in this area and hole seepage will be compensated for by additions of small amounts of LCM in the drilling fluid. The maximum anticipated bottom hole pressure for this well is 5691 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 103H_Updated

Measured Depth: 18007.41 ft

TVD RKB: 9950.00 ft

Location

Cartographic Reference System: New Mexico East - NAD 27

Northing: 408868.40 ft

Easting: 600830.90 ft

RKB: 3002.00 ft

Ground Level: 2969.00 ft

North Reference: Grid

Convergence Angle: 0.17 Deg

Plan Sections

Corral 17-8 Fed Com 103H_Updated

Measured		TVD				Build	Turn	Dogleg	Target
Depth	Inclination	Azimuth	RKB	Y Offset	X Offset	Rate	Rate	Rate	
(ft)	(Deg)	(Deg)	(ft)	(ft)	(ft)	(Deg/100ft)	(Deg/100ft)	(Deg/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	0.00	
1692.44	11.85	160.49	1688.23	-57.54	20.38	2.00	0.00	2.00	
4883.99	11.85	160.49	4811.77	-675.24	239.21	0.00	0.00	0.00	
5476.43	0.00	0.00	5400.00	-732.78	259.59	-2.00	0.00	2.00	
9310.23	0.00	0.00	9233.80	-732.78	259.59	0.00	0.00	0.00	
10435.23	90.00	359.62	9950.00	-16.60	254.80	8.00	0.00	8.00	103H FTP
17957.40	90.00	359.62	9950.00	7505.40	204.50	0.00	0.00	0.00	103H LTP
18007.41	90.00	359.62	9950.00	7555.40	204.17	0.00	0.00	0.00	103H BHL

Position Uncertainty

Corral 17-8 Fed Com 103H_Updated

Measured	TVD	Highside	Lateral	Vertical	Magnitude	Semi-major	Semi-minor	Semi-minor	Tool
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Depth	Inclination	Azimuth	RKB	Error	Bias	Error	Bias	Error	Bias	of Bias	Error	Error	Azimuth	Used
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	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	2.000	160.493	1199.980	4.263	0.000	4.125	-0.000	2.681	0.000	0.000	4.285	4.105	90.005	XOM_R2OWSG MWD+IFR1+MS
1300.000	4.000	160.493	1299.838	4.584	0.000	4.452	-0.000	2.737	0.000	0.000	4.614	4.432	89.927	XOM_R2OWSG MWD+IFR1+MS
1400.000	6.000	160.493	1399.452	4.904	0.000	4.784	-0.000	2.795	0.000	0.000	4.947	4.763	89.857	XOM_R2OWSG MWD+IFR1+MS
1500.000	8.000	160.493	1498.702	5.224	0.000	5.119	-0.000	2.853	0.000	0.000	5.285	5.099	89.854	XOM_R2OWSG MWD+IFR1+MS
1600.000	10.000	160.493	1597.465	5.541	0.000	5.459	-0.000	2.913	0.000	0.000	5.626	5.438	89.969	XOM_R2OWSG MWD+IFR1+MS
1692.441	11.849	160.493	1688.228	5.833	0.000	5.778	-0.000	2.971	0.000	0.000	5.943	5.756	90.194	XOM_R2OWSG MWD+IFR1+MS
1700.000	11.849	160.493	1695.625	5.859	0.000	5.804	-0.000	2.971	0.000	0.000	5.972	5.783	89.978	XOM_R2OWSG MWD+IFR1+MS

1800.000	11.849	160.493	1793.494	6.208	0.000	6.154	-0.000	3.049	0.000	0.000	6.314	6.131	90.975	XOM_R2OWSG MWD+IFR1+MS
1900.000	11.849	160.493	1891.364	6.561	0.000	6.508	-0.000	3.130	0.000	0.000	6.660	6.485	92.014	XOM_R2OWSG MWD+IFR1+MS
2000.000	11.849	160.493	1989.233	6.918	0.000	6.867	-0.000	3.214	0.000	0.000	7.009	6.841	93.110	XOM_R2OWSG MWD+IFR1+MS
2100.000	11.849	160.493	2087.102	7.278	0.000	7.228	-0.000	3.302	0.000	0.000	7.362	7.201	94.276	XOM_R2OWSG MWD+IFR1+MS
2200.000	11.849	160.493	2184.972	7.640	0.000	7.592	-0.000	3.393	0.000	0.000	7.718	7.564	95.527	XOM_R2OWSG MWD+IFR1+MS
2300.000	11.849	160.493	2282.841	8.005	0.000	7.958	-0.000	3.486	0.000	0.000	8.076	7.929	96.878	XOM_R2OWSG MWD+IFR1+MS
2400.000	11.849	160.493	2380.710	8.372	0.000	8.327	-0.000	3.583	0.000	0.000	8.436	8.296	98.344	XOM_R2OWSG MWD+IFR1+MS
2500.000	11.849	160.493	2478.579	8.740	0.000	8.697	-0.000	3.681	0.000	0.000	8.798	8.664	99.942	XOM_R2OWSG MWD+IFR1+MS
2600.000	11.849	160.493	2576.449	9.110	0.000	9.069	-0.000	3.782	0.000	0.000	9.161	9.034	101.688	XOM_R2OWSG MWD+IFR1+MS
2700.000	11.849	160.493	2674.318	9.482	0.000	9.442	-0.000	3.885	0.000	0.000	9.527	9.406	103.596	XOM_R2OWSG MWD+IFR1+MS
2800.000	11.849	160.493	2772.187	9.854	0.000	9.816	-0.000	3.991	0.000	0.000	9.893	9.778	105.678	XOM_R2OWSG MWD+IFR1+MS
2900.000	11.849	160.493	2870.056	10.228	0.000	10.192	-0.000	4.098	0.000	0.000	10.261	10.151	107.942	XOM_R2OWSG MWD+IFR1+MS
3000.000	11.849	160.493	2967.926	10.602	0.000	10.568	-0.000	4.207	0.000	0.000	10.631	10.524	110.387	XOM_R2OWSG MWD+IFR1+MS
3100.000	11.849	160.493	3065.795	10.978	0.000	10.946	-0.000	4.318	0.000	0.000	11.002	10.898	113.002	XOM_R2OWSG MWD+IFR1+MS
3200.000	11.849	160.493	3163.664	11.354	0.000	11.324	-0.000	4.431	0.000	0.000	11.373	11.273	115.764	XOM_R2OWSG MWD+IFR1+MS
3300.000	11.849	160.493	3261.534	11.731	0.000	11.703	-0.000	4.546	0.000	0.000	11.747	11.647	118.636	XOM_R2OWSG MWD+IFR1+MS
3400.000	11.849	160.493	3359.403	12.109	0.000	12.082	-0.000	4.663	0.000	0.000	12.121	12.022	121.569	XOM_R2OWSG MWD+IFR1+MS
3500.000	11.849	160.493	3457.272	12.487	0.000	12.462	-0.000	4.781	0.000	0.000	12.496	12.397	124.507	XOM_R2OWSG MWD+IFR1+MS
3600.000	11.849	160.493	3555.141	12.866	0.000	12.843	-0.000	4.901	0.000	0.000	12.872	12.772	127.393	XOM_R2OWSG MWD+IFR1+MS
3700.000	11.849	160.493	3653.011	13.245	0.000	13.224	-0.000	5.023	0.000	0.000	13.250	13.147	130.174	XOM_R2OWSG MWD+IFR1+MS

3800.000	11.849	160.493	3750.880	13.624	0.000	13.605	-0.000	5.146	0.000	0.000	13.628	13.522	132.812	XOM_R2OWSG MWD+IFR1+MS
3900.000	11.849	160.493	3848.749	14.004	0.000	13.987	-0.000	5.271	0.000	0.000	14.007	13.898	-44.724	XOM_R2OWSG MWD+IFR1+MS
4000.000	11.849	160.493	3946.619	14.385	0.000	14.370	-0.000	5.398	0.000	0.000	14.387	14.273	-42.446	XOM_R2OWSG MWD+IFR1+MS
4100.000	11.849	160.493	4044.488	14.765	0.000	14.752	-0.000	5.526	0.000	0.000	14.767	14.648	-40.358	XOM_R2OWSG MWD+IFR1+MS
4200.000	11.849	160.493	4142.357	15.146	0.000	15.135	-0.000	5.656	0.000	0.000	15.148	15.023	-38.456	XOM_R2OWSG MWD+IFR1+MS
4300.000	11.849	160.493	4240.226	15.528	0.000	15.519	-0.000	5.788	0.000	0.000	15.530	15.398	-36.730	XOM_R2OWSG MWD+IFR1+MS
4400.000	11.849	160.493	4338.096	15.909	0.000	15.902	-0.000	5.921	0.000	0.000	15.912	15.774	-35.166	XOM_R2OWSG MWD+IFR1+MS
4500.000	11.849	160.493	4435.965	16.291	0.000	16.286	-0.000	6.056	0.000	0.000	16.295	16.149	-33.750	XOM_R2OWSG MWD+IFR1+MS
4600.000	11.849	160.493	4533.834	16.673	0.000	16.670	-0.000	6.193	0.000	0.000	16.678	16.525	-32.467	XOM_R2OWSG MWD+IFR1+MS
4700.000	11.849	160.493	4631.703	17.056	0.000	17.054	-0.000	6.331	0.000	0.000	17.061	16.901	-31.304	XOM_R2OWSG MWD+IFR1+MS
4800.000	11.849	160.493	4729.573	17.438	0.000	17.439	-0.000	6.472	0.000	0.000	17.445	17.277	-30.246	XOM_R2OWSG MWD+IFR1+MS
4883.989	11.849	160.493	4811.772	17.760	0.000	17.762	-0.000	6.591	0.000	0.000	17.767	17.592	-29.435	XOM_R2OWSG MWD+IFR1+MS
4900.000	11.529	160.493	4827.451	17.825	0.000	17.823	-0.000	6.614	0.000	0.000	17.828	17.652	-29.282	XOM_R2OWSG MWD+IFR1+MS
5000.000	9.529	160.493	4925.762	18.220	0.000	18.204	-0.000	6.757	0.000	0.000	18.208	18.025	-28.457	XOM_R2OWSG MWD+IFR1+MS
5100.000	7.529	160.493	5024.652	18.588	0.000	18.578	-0.000	6.898	0.000	0.000	18.582	18.392	-27.810	XOM_R2OWSG MWD+IFR1+MS
5200.000	5.529	160.493	5123.998	18.929	0.000	18.945	-0.000	7.034	0.000	0.000	18.948	18.753	-27.318	XOM_R2OWSG MWD+IFR1+MS
5300.000	3.529	160.493	5223.681	19.241	0.000	19.304	-0.000	7.166	0.000	0.000	19.307	19.109	-26.938	XOM_R2OWSG MWD+IFR1+MS
5400.000	1.529	160.493	5323.578	19.525	0.000	19.656	-0.000	7.294	0.000	0.000	19.659	19.458	-26.638	XOM_R2OWSG MWD+IFR1+MS
5476.431	0.000	0.000	5400.000	19.753	0.000	19.872	0.000	7.390	0.000	0.000	19.913	19.711	-26.831	XOM_R2OWSG MWD+IFR1+MS
5500.000	0.000	0.000	5423.569	19.828	0.000	19.946	0.000	7.419	0.000	0.000	19.987	19.787	-27.013	XOM_R2OWSG MWD+IFR1+MS

5600.000	0.000	0.000	5523.569	20.150	0.000	20.261	0.000	7.545	0.000	0.000	20.304	20.106	-27.782	XOM_R2OWSG MWD+IFR1+MS
5700.000	0.000	0.000	5623.569	20.472	0.000	20.578	0.000	7.672	0.000	0.000	20.623	20.428	-28.549	XOM_R2OWSG MWD+IFR1+MS
5800.000	0.000	0.000	5723.569	20.796	0.000	20.896	0.000	7.802	0.000	0.000	20.942	20.750	-29.314	XOM_R2OWSG MWD+IFR1+MS
5900.000	0.000	0.000	5823.569	21.121	0.000	21.216	0.000	7.935	0.000	0.000	21.263	21.073	-30.074	XOM_R2OWSG MWD+IFR1+MS
6000.000	0.000	0.000	5923.569	21.447	0.000	21.536	0.000	8.070	0.000	0.000	21.585	21.398	-30.829	XOM_R2OWSG MWD+IFR1+MS
6100.000	0.000	0.000	6023.569	21.774	0.000	21.858	0.000	8.208	0.000	0.000	21.909	21.723	-31.578	XOM_R2OWSG MWD+IFR1+MS
6200.000	0.000	0.000	6123.569	22.102	0.000	22.181	0.000	8.348	0.000	0.000	22.233	22.049	-32.320	XOM_R2OWSG MWD+IFR1+MS
6300.000	0.000	0.000	6223.569	22.431	0.000	22.505	0.000	8.491	0.000	0.000	22.559	22.377	-33.054	XOM_R2OWSG MWD+IFR1+MS
6400.000	0.000	0.000	6323.569	22.761	0.000	22.830	0.000	8.636	0.000	0.000	22.886	22.705	-33.779	XOM_R2OWSG MWD+IFR1+MS
6500.000	0.000	0.000	6423.569	23.092	0.000	23.156	0.000	8.784	0.000	0.000	23.214	23.034	-34.495	XOM_R2OWSG MWD+IFR1+MS
6600.000	0.000	0.000	6523.569	23.423	0.000	23.483	0.000	8.935	0.000	0.000	23.542	23.364	-35.201	XOM_R2OWSG MWD+IFR1+MS
6700.000	0.000	0.000	6623.569	23.755	0.000	23.811	0.000	9.088	0.000	0.000	23.872	23.694	-35.895	XOM_R2OWSG MWD+IFR1+MS
6800.000	0.000	0.000	6723.569	24.088	0.000	24.140	0.000	9.244	0.000	0.000	24.202	24.026	-36.579	XOM_R2OWSG MWD+IFR1+MS
6900.000	0.000	0.000	6823.569	24.422	0.000	24.469	0.000	9.403	0.000	0.000	24.533	24.358	-37.250	XOM_R2OWSG MWD+IFR1+MS
7000.000	0.000	0.000	6923.569	24.757	0.000	24.800	0.000	9.565	0.000	0.000	24.865	24.690	-37.910	XOM_R2OWSG MWD+IFR1+MS
7100.000	0.000	0.000	7023.569	25.092	0.000	25.131	0.000	9.729	0.000	0.000	25.198	25.024	-38.556	XOM_R2OWSG MWD+IFR1+MS
7200.000	0.000	0.000	7123.569	25.428	0.000	25.463	0.000	9.896	0.000	0.000	25.532	25.358	-39.190	XOM_R2OWSG MWD+IFR1+MS
7300.000	0.000	0.000	7223.569	25.764	0.000	25.795	0.000	10.066	0.000	0.000	25.866	25.693	-39.811	XOM_R2OWSG MWD+IFR1+MS
7400.000	0.000	0.000	7323.569	26.101	0.000	26.128	0.000	10.239	0.000	0.000	26.201	26.028	-40.419	XOM_R2OWSG MWD+IFR1+MS
7500.000	0.000	0.000	7423.569	26.438	0.000	26.462	0.000	10.414	0.000	0.000	26.537	26.364	-41.013	XOM_R2OWSG MWD+IFR1+MS

7600.000	0.000	0.000	7523.569	26.776	0.000	26.797	0.000	10.592	0.000	0.000	26.873	26.700	-41.593	XOM_R2OWSG MWD+IFR1+MS
7700.000	0.000	0.000	7623.569	27.115	0.000	27.132	0.000	10.773	0.000	0.000	27.210	27.037	-42.161	XOM_R2OWSG MWD+IFR1+MS
7800.000	0.000	0.000	7723.569	27.454	0.000	27.468	0.000	10.958	0.000	0.000	27.547	27.375	-42.715	XOM_R2OWSG MWD+IFR1+MS
7900.000	0.000	0.000	7823.569	27.794	0.000	27.804	0.000	11.144	0.000	0.000	27.885	27.713	-43.255	XOM_R2OWSG MWD+IFR1+MS
8000.000	0.000	0.000	7923.569	28.134	0.000	28.141	0.000	11.334	0.000	0.000	28.224	28.051	-43.782	XOM_R2OWSG MWD+IFR1+MS
8100.000	0.000	0.000	8023.569	28.474	0.000	28.479	0.000	11.527	0.000	0.000	28.563	28.390	-44.297	XOM_R2OWSG MWD+IFR1+MS
8200.000	0.000	0.000	8123.569	28.815	0.000	28.816	0.000	11.723	0.000	0.000	28.902	28.729	-44.798	XOM_R2OWSG MWD+IFR1+MS
8300.000	0.000	0.000	8223.569	29.157	0.000	29.155	0.000	11.921	0.000	0.000	29.242	29.069	134.714	XOM_R2OWSG MWD+IFR1+MS
8400.000	0.000	0.000	8323.569	29.498	0.000	29.494	0.000	12.123	0.000	0.000	29.583	29.409	134.238	XOM_R2OWSG MWD+IFR1+MS
8500.000	0.000	0.000	8423.569	29.841	0.000	29.833	0.000	12.327	0.000	0.000	29.923	29.750	133.774	XOM_R2OWSG MWD+IFR1+MS
8600.000	0.000	0.000	8523.569	30.183	0.000	30.173	0.000	12.534	0.000	0.000	30.265	30.091	133.323	XOM_R2OWSG MWD+IFR1+MS
8700.000	0.000	0.000	8623.569	30.526	0.000	30.513	0.000	12.745	0.000	0.000	30.607	30.432	132.883	XOM_R2OWSG MWD+IFR1+MS
8800.000	0.000	0.000	8723.569	30.869	0.000	30.854	0.000	12.958	0.000	0.000	30.949	30.774	132.455	XOM_R2OWSG MWD+IFR1+MS
8900.000	0.000	0.000	8823.569	31.213	0.000	31.195	0.000	13.174	0.000	0.000	31.291	31.116	132.038	XOM_R2OWSG MWD+IFR1+MS
9000.000	0.000	0.000	8923.569	31.557	0.000	31.536	0.000	13.394	0.000	0.000	31.634	31.459	131.632	XOM_R2OWSG MWD+IFR1+MS
9100.000	0.000	0.000	9023.569	31.901	0.000	31.878	0.000	13.616	0.000	0.000	31.977	31.801	131.237	XOM_R2OWSG MWD+IFR1+MS
9200.000	0.000	0.000	9123.569	32.246	0.000	32.220	0.000	13.841	0.000	0.000	32.321	32.145	130.852	XOM_R2OWSG MWD+IFR1+MS
9300.000	0.000	0.000	9223.569	32.590	0.000	32.563	0.000	14.069	0.000	0.000	32.665	32.488	130.478	XOM_R2OWSG MWD+IFR1+MS
9310.233	0.000	0.000	9233.803	32.626	0.000	32.598	0.000	14.093	0.000	0.000	32.700	32.523	130.440	XOM_R2OWSG MWD+IFR1+MS
9400.000	7.181	359.617	9323.334	32.429	0.000	32.901	0.000	14.296	0.000	0.000	33.002	32.823	130.792	XOM_R2OWSG MWD+IFR1+MS

9500.000	15.181	359.617	9421.357	31.707	0.000	33.222	0.000	14.509	0.000	0.000	33.319	33.136	132.808	XOM_R2OWSG MWD+IFR1+MS
9600.000	23.181	359.617	9515.728	30.478	0.000	33.522	0.000	14.707	0.000	0.000	33.610	33.419	-43.050	XOM_R2OWSG MWD+IFR1+MS
9700.000	31.181	359.617	9604.613	28.791	0.000	33.799	0.000	14.891	0.000	0.000	33.874	33.664	-37.073	XOM_R2OWSG MWD+IFR1+MS
9800.000	39.181	359.617	9686.279	26.719	0.000	34.049	0.000	15.062	0.000	0.000	34.110	33.866	-30.415	XOM_R2OWSG MWD+IFR1+MS
9900.000	47.181	359.617	9759.139	24.369	0.000	34.272	0.000	15.227	0.000	0.000	34.321	34.023	-24.367	XOM_R2OWSG MWD+IFR1+MS
10000.000	55.181	359.617	9821.774	21.893	0.000	34.465	0.000	15.394	0.000	0.000	34.505	34.136	-19.532	XOM_R2OWSG MWD+IFR1+MS
10100.000	63.181	359.617	9872.965	19.507	0.000	34.629	0.000	15.570	0.000	0.000	34.661	34.210	-15.873	XOM_R2OWSG MWD+IFR1+MS
10200.000	71.181	359.617	9911.715	17.508	0.000	34.764	0.000	15.766	0.000	0.000	34.790	34.253	-13.128	XOM_R2OWSG MWD+IFR1+MS
10300.000	79.181	359.617	9937.270	16.266	0.000	34.868	0.000	15.987	0.000	0.000	34.889	34.274	-11.053	XOM_R2OWSG MWD+IFR1+MS
10400.000	87.181	359.617	9949.134	16.102	0.000	34.942	0.000	16.234	0.000	0.000	34.959	34.283	-9.473	XOM_R2OWSG MWD+IFR1+MS
10435.233	90.000	359.617	9950.000	16.327	0.000	34.960	0.000	16.327	0.000	0.000	34.975	34.286	-9.027	XOM_R2OWSG MWD+IFR1+MS
10500.000	90.000	359.617	9950.000	16.508	0.000	34.993	0.000	16.508	0.000	0.000	35.006	34.291	-8.199	XOM_R2OWSG MWD+IFR1+MS
10600.000	90.000	359.617	9950.000	16.815	0.000	35.060	0.000	16.815	0.000	0.000	35.069	34.297	-6.910	XOM_R2OWSG MWD+IFR1+MS
10700.000	90.000	359.617	9950.000	17.152	0.000	35.143	0.000	17.152	0.000	0.000	35.150	34.304	-5.698	XOM_R2OWSG MWD+IFR1+MS
10800.000	90.000	359.617	9950.000	17.517	0.000	35.242	0.000	17.517	0.000	0.000	35.247	34.311	-4.610	XOM_R2OWSG MWD+IFR1+MS
10900.000	90.000	359.617	9950.000	17.910	0.000	35.358	0.000	17.910	0.000	0.000	35.362	34.319	-3.666	XOM_R2OWSG MWD+IFR1+MS
11000.000	90.000	359.617	9950.000	18.327	0.000	35.490	0.000	18.327	0.000	0.000	35.493	34.326	-2.866	XOM_R2OWSG MWD+IFR1+MS
11100.000	90.000	359.617	9950.000	18.769	0.000	35.638	0.000	18.769	0.000	0.000	35.640	34.334	-2.199	XOM_R2OWSG MWD+IFR1+MS
11200.000	90.000	359.617	9950.000	19.232	0.000	35.802	0.000	19.232	0.000	0.000	35.803	34.342	-1.649	XOM_R2OWSG MWD+IFR1+MS
11300.000	90.000	359.617	9950.000	19.715	0.000	35.982	0.000	19.715	0.000	0.000	35.982	34.351	-1.199	XOM_R2OWSG MWD+IFR1+MS

11400.000	90.000	359.617	9950.000	20.218	0.000	36.176	0.000	20.218	0.000	0.000	36.176	34.360	-0.831	XOM_R2OWSG MWD+IFR1+MS
11500.000	90.000	359.617	9950.000	20.738	0.000	36.386	0.000	20.738	0.000	0.000	36.386	34.370	-0.532	XOM_R2OWSG MWD+IFR1+MS
11600.000	90.000	359.617	9950.000	21.274	0.000	36.610	0.000	21.274	0.000	0.000	36.610	34.380	-0.289	XOM_R2OWSG MWD+IFR1+MS
11700.000	90.000	359.617	9950.000	21.825	0.000	36.849	0.000	21.825	0.000	0.000	36.849	34.391	-0.092	XOM_R2OWSG MWD+IFR1+MS
11800.000	90.000	359.617	9950.000	22.390	0.000	37.103	0.000	22.390	0.000	0.000	37.103	34.403	0.069	XOM_R2OWSG MWD+IFR1+MS
11900.000	90.000	359.617	9950.000	22.968	0.000	37.370	0.000	22.968	0.000	0.000	37.370	34.415	0.198	XOM_R2OWSG MWD+IFR1+MS
12000.000	90.000	359.617	9950.000	23.559	0.000	37.651	0.000	23.559	0.000	0.000	37.651	34.428	0.304	XOM_R2OWSG MWD+IFR1+MS
12100.000	90.000	359.617	9950.000	24.160	0.000	37.945	0.000	24.160	0.000	0.000	37.946	34.442	0.388	XOM_R2OWSG MWD+IFR1+MS
12200.000	90.000	359.617	9950.000	24.771	0.000	38.252	0.000	24.771	0.000	0.000	38.253	34.456	0.457	XOM_R2OWSG MWD+IFR1+MS
12300.000	90.000	359.617	9950.000	25.392	0.000	38.572	0.000	25.392	0.000	0.000	38.573	34.471	0.511	XOM_R2OWSG MWD+IFR1+MS
12400.000	90.000	359.617	9950.000	26.022	0.000	38.905	0.000	26.022	0.000	0.000	38.906	34.487	0.555	XOM_R2OWSG MWD+IFR1+MS
12500.000	90.000	359.617	9950.000	26.660	0.000	39.249	0.000	26.660	0.000	0.000	39.251	34.503	0.589	XOM_R2OWSG MWD+IFR1+MS
12600.000	90.000	359.617	9950.000	27.306	0.000	39.606	0.000	27.306	0.000	0.000	39.607	34.520	0.615	XOM_R2OWSG MWD+IFR1+MS
12700.000	90.000	359.617	9950.000	27.958	0.000	39.974	0.000	27.958	0.000	0.000	39.975	34.538	0.635	XOM_R2OWSG MWD+IFR1+MS
12800.000	90.000	359.617	9950.000	28.618	0.000	40.353	0.000	28.618	0.000	0.000	40.354	34.556	0.650	XOM_R2OWSG MWD+IFR1+MS
12900.000	90.000	359.617	9950.000	29.283	0.000	40.743	0.000	29.283	0.000	0.000	40.744	34.575	0.661	XOM_R2OWSG MWD+IFR1+MS
13000.000	90.000	359.617	9950.000	29.955	0.000	41.143	0.000	29.955	0.000	0.000	41.145	34.595	0.667	XOM_R2OWSG MWD+IFR1+MS
13100.000	90.000	359.617	9950.000	30.632	0.000	41.554	0.000	30.632	0.000	0.000	41.556	34.615	0.671	XOM_R2OWSG MWD+IFR1+MS
13200.000	90.000	359.617	9950.000	31.313	0.000	41.974	0.000	31.313	0.000	0.000	41.977	34.636	0.672	XOM_R2OWSG MWD+IFR1+MS
13300.000	90.000	359.617	9950.000	32.000	0.000	42.405	0.000	32.000	0.000	0.000	42.407	34.658	0.671	XOM_R2OWSG MWD+IFR1+MS

13400.000	90.000	359.617	9950.000	32.691	0.000	42.844	0.000	32.691	0.000	0.000	42.847	34.681	0.668	XOM_R2OWSG MWD+IFR1+MS
13500.000	90.000	359.617	9950.000	33.386	0.000	43.293	0.000	33.386	0.000	0.000	43.295	34.704	0.664	XOM_R2OWSG MWD+IFR1+MS
13600.000	90.000	359.617	9950.000	34.085	0.000	43.750	0.000	34.085	0.000	0.000	43.753	34.728	0.659	XOM_R2OWSG MWD+IFR1+MS
13700.000	90.000	359.617	9950.000	34.788	0.000	44.216	0.000	34.788	0.000	0.000	44.219	34.752	0.652	XOM_R2OWSG MWD+IFR1+MS
13800.000	90.000	359.617	9950.000	35.494	0.000	44.691	0.000	35.494	0.000	0.000	44.693	34.777	0.645	XOM_R2OWSG MWD+IFR1+MS
13900.000	90.000	359.617	9950.000	36.203	0.000	45.173	0.000	36.203	0.000	0.000	45.176	34.803	0.637	XOM_R2OWSG MWD+IFR1+MS
14000.000	90.000	359.617	9950.000	36.916	0.000	45.663	0.000	36.916	0.000	0.000	45.666	34.830	0.629	XOM_R2OWSG MWD+IFR1+MS
14100.000	90.000	359.617	9950.000	37.631	0.000	46.160	0.000	37.631	0.000	0.000	46.163	34.857	0.620	XOM_R2OWSG MWD+IFR1+MS
14200.000	90.000	359.617	9950.000	38.349	0.000	46.665	0.000	38.349	0.000	0.000	46.668	34.885	0.611	XOM_R2OWSG MWD+IFR1+MS
14300.000	90.000	359.617	9950.000	39.069	0.000	47.177	0.000	39.069	0.000	0.000	47.180	34.913	0.601	XOM_R2OWSG MWD+IFR1+MS
14400.000	90.000	359.617	9950.000	39.792	0.000	47.695	0.000	39.792	0.000	0.000	47.698	34.942	0.591	XOM_R2OWSG MWD+IFR1+MS
14500.000	90.000	359.617	9950.000	40.518	0.000	48.220	0.000	40.518	0.000	0.000	48.223	34.972	0.581	XOM_R2OWSG MWD+IFR1+MS
14600.000	90.000	359.617	9950.000	41.245	0.000	48.752	0.000	41.245	0.000	0.000	48.755	35.002	0.571	XOM_R2OWSG MWD+IFR1+MS
14700.000	90.000	359.617	9950.000	41.975	0.000	49.289	0.000	41.975	0.000	0.000	49.293	35.034	0.561	XOM_R2OWSG MWD+IFR1+MS
14800.000	90.000	359.617	9950.000	42.706	0.000	49.833	0.000	42.706	0.000	0.000	49.836	35.065	0.551	XOM_R2OWSG MWD+IFR1+MS
14900.000	90.000	359.617	9950.000	43.440	0.000	50.382	0.000	43.440	0.000	0.000	50.385	35.098	0.541	XOM_R2OWSG MWD+IFR1+MS
15000.000	90.000	359.617	9950.000	44.175	0.000	50.937	0.000	44.175	0.000	0.000	50.940	35.131	0.531	XOM_R2OWSG MWD+IFR1+MS
15100.000	90.000	359.617	9950.000	44.912	0.000	51.497	0.000	44.912	0.000	0.000	51.501	35.165	0.521	XOM_R2OWSG MWD+IFR1+MS
15200.000	90.000	359.617	9950.000	45.650	0.000	52.063	0.000	45.650	0.000	0.000	52.066	35.199	0.511	XOM_R2OWSG MWD+IFR1+MS
15300.000	90.000	359.617	9950.000	46.390	0.000	52.633	0.000	46.390	0.000	0.000	52.637	35.234	0.501	XOM_R2OWSG MWD+IFR1+MS

15400.000	90.000	359.617	9950.000	47.131	0.000	53.209	0.000	47.131	0.000	0.000	53.212	35.270	0.492	XOM_R2OWSG MWD+IFR1+MS
15500.000	90.000	359.617	9950.000	47.874	0.000	53.789	0.000	47.874	0.000	0.000	53.793	35.306	0.482	XOM_R2OWSG MWD+IFR1+MS
15600.000	90.000	359.617	9950.000	48.618	0.000	54.374	0.000	48.618	0.000	0.000	54.377	35.343	0.472	XOM_R2OWSG MWD+IFR1+MS
15700.000	90.000	359.617	9950.000	49.364	0.000	54.963	0.000	49.364	0.000	0.000	54.967	35.380	0.463	XOM_R2OWSG MWD+IFR1+MS
15800.000	90.000	359.617	9950.000	50.110	0.000	55.557	0.000	50.110	0.000	0.000	55.560	35.418	0.454	XOM_R2OWSG MWD+IFR1+MS
15900.000	90.000	359.617	9950.000	50.858	0.000	56.154	0.000	50.858	0.000	0.000	56.158	35.457	0.444	XOM_R2OWSG MWD+IFR1+MS
16000.000	90.000	359.617	9950.000	51.607	0.000	56.756	0.000	51.607	0.000	0.000	56.759	35.497	0.435	XOM_R2OWSG MWD+IFR1+MS
16100.000	90.000	359.617	9950.000	52.356	0.000	57.362	0.000	52.356	0.000	0.000	57.365	35.537	0.426	XOM_R2OWSG MWD+IFR1+MS
16200.000	90.000	359.617	9950.000	53.107	0.000	57.971	0.000	53.107	0.000	0.000	57.974	35.578	0.418	XOM_R2OWSG MWD+IFR1+MS
16300.000	90.000	359.617	9950.000	53.859	0.000	58.584	0.000	53.859	0.000	0.000	58.588	35.619	0.409	XOM_R2OWSG MWD+IFR1+MS
16400.000	90.000	359.617	9950.000	54.612	0.000	59.201	0.000	54.612	0.000	0.000	59.204	35.661	0.401	XOM_R2OWSG MWD+IFR1+MS
16500.000	90.000	359.617	9950.000	55.366	0.000	59.821	0.000	55.366	0.000	0.000	59.824	35.703	0.392	XOM_R2OWSG MWD+IFR1+MS
16600.000	90.000	359.617	9950.000	56.120	0.000	60.444	0.000	56.120	0.000	0.000	60.447	35.747	0.384	XOM_R2OWSG MWD+IFR1+MS
16700.000	90.000	359.617	9950.000	56.875	0.000	61.071	0.000	56.875	0.000	0.000	61.074	35.790	0.376	XOM_R2OWSG MWD+IFR1+MS
16800.000	90.000	359.617	9950.000	57.631	0.000	61.700	0.000	57.631	0.000	0.000	61.704	35.835	0.368	XOM_R2OWSG MWD+IFR1+MS
16900.000	90.000	359.617	9950.000	58.388	0.000	62.333	0.000	58.388	0.000	0.000	62.337	35.880	0.360	XOM_R2OWSG MWD+IFR1+MS
17000.000	90.000	359.617	9950.000	59.146	0.000	62.969	0.000	59.146	0.000	0.000	62.972	35.925	0.352	XOM_R2OWSG MWD+IFR1+MS
17100.000	90.000	359.617	9950.000	59.904	0.000	63.607	0.000	59.904	0.000	0.000	63.611	35.972	0.345	XOM_R2OWSG MWD+IFR1+MS
17200.000	90.000	359.617	9950.000	60.663	0.000	64.249	0.000	60.663	0.000	0.000	64.252	36.018	0.337	XOM_R2OWSG MWD+IFR1+MS
17300.000	90.000	359.617	9950.000	61.423	0.000	64.893	0.000	61.423	0.000	0.000	64.896	36.066	0.330	XOM_R2OWSG MWD+IFR1+MS

17400.000	90.000	359.617	9950.000	62.183	0.000	65.539	0.000	62.183	0.000	0.000	65.543	36.114	0.323	XOM_R2OWSG MWD+IFR1+MS
17500.000	90.000	359.617	9950.000	62.944	0.000	66.188	0.000	62.944	0.000	0.000	66.192	36.162	0.316	XOM_R2OWSG MWD+IFR1+MS
17600.000	90.000	359.617	9950.000	63.705	0.000	66.840	0.000	63.705	0.000	0.000	66.844	36.212	0.309	XOM_R2OWSG MWD+IFR1+MS
17700.000	90.000	359.617	9950.000	64.467	0.000	67.494	0.000	64.467	0.000	0.000	67.498	36.261	0.302	XOM_R2OWSG MWD+IFR1+MS
17800.000	90.000	359.617	9950.000	65.230	0.000	68.150	0.000	65.230	0.000	0.000	68.154	36.312	0.295	XOM_R2OWSG MWD+IFR1+MS
17900.000	90.000	359.617	9950.000	65.993	0.000	68.809	0.000	65.993	0.000	0.000	68.812	36.363	0.289	XOM_R2OWSG MWD+IFR1+MS
17957.402	90.000	359.617	9950.000	66.431	0.000	69.187	0.000	66.431	0.000	0.000	69.191	36.392	0.285	XOM_R2OWSG MWD+IFR1+MS
18007.406	90.000	359.617	9950.000	66.622	0.000	69.441	0.000	66.622	0.000	0.000	69.446	42.407	0.497	MWD+IFR1+MS

Plan Targets

Corral 17-8 Fed Com 103H_Updated

Target Name	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape
103H FTP	10435.23	408851.80	601085.70	6948.00	CIRCLE
103H LTP	17957.40	416373.80	601035.40	6948.00	CIRCLE
103H BHL	18007.40	416423.80	601035.20	6948.00	CIRCLE

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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
		APPRV	31MAR22
		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 3170 recognizes API recommended Practices (RP) 53 in its original development. API Standard 53, *Well Control Equipment Systems for Drilling Wells* (Fifth Edition, December 2018, Annex C, Table C.4) recognizes break testing as an acceptable practice. Specifically, API Standard 53, Section 5.3.7.1 states “A pressure test of the pressure containing component shall be performed following the disconnection or repair, limited to the affected component.” See Table C.4 below for reference.

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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 ^a	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 ^a	250 to 350 (1.72 to 2.41)	RWP of ram preventers or wellhead system, whichever is lower	ITP
Choke manifold—downstream of chokes ^a	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

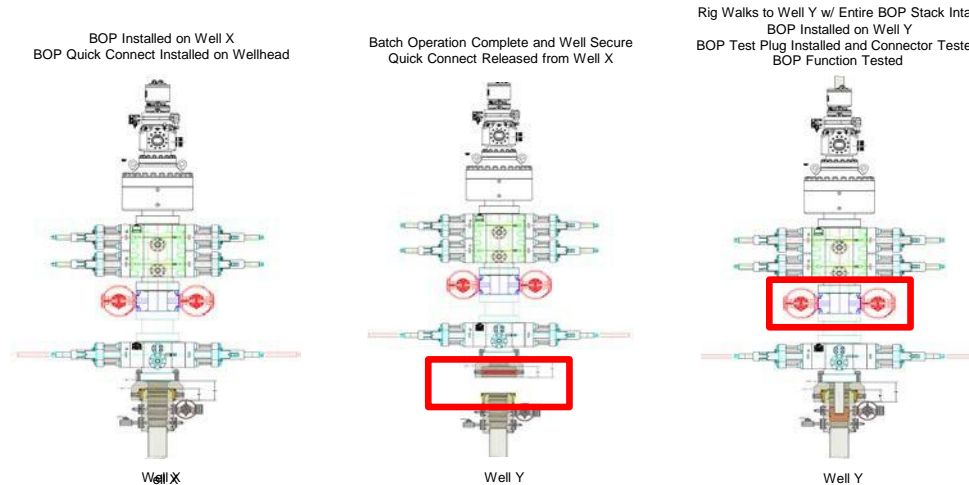
each BOP nipple up, XTO Energy performs a choke drill with the rig crew prior to drilling out every casing shoe. This is additional training for the rig crew that exceeds the requirements of the CFR Title 43 Part 3170.

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.

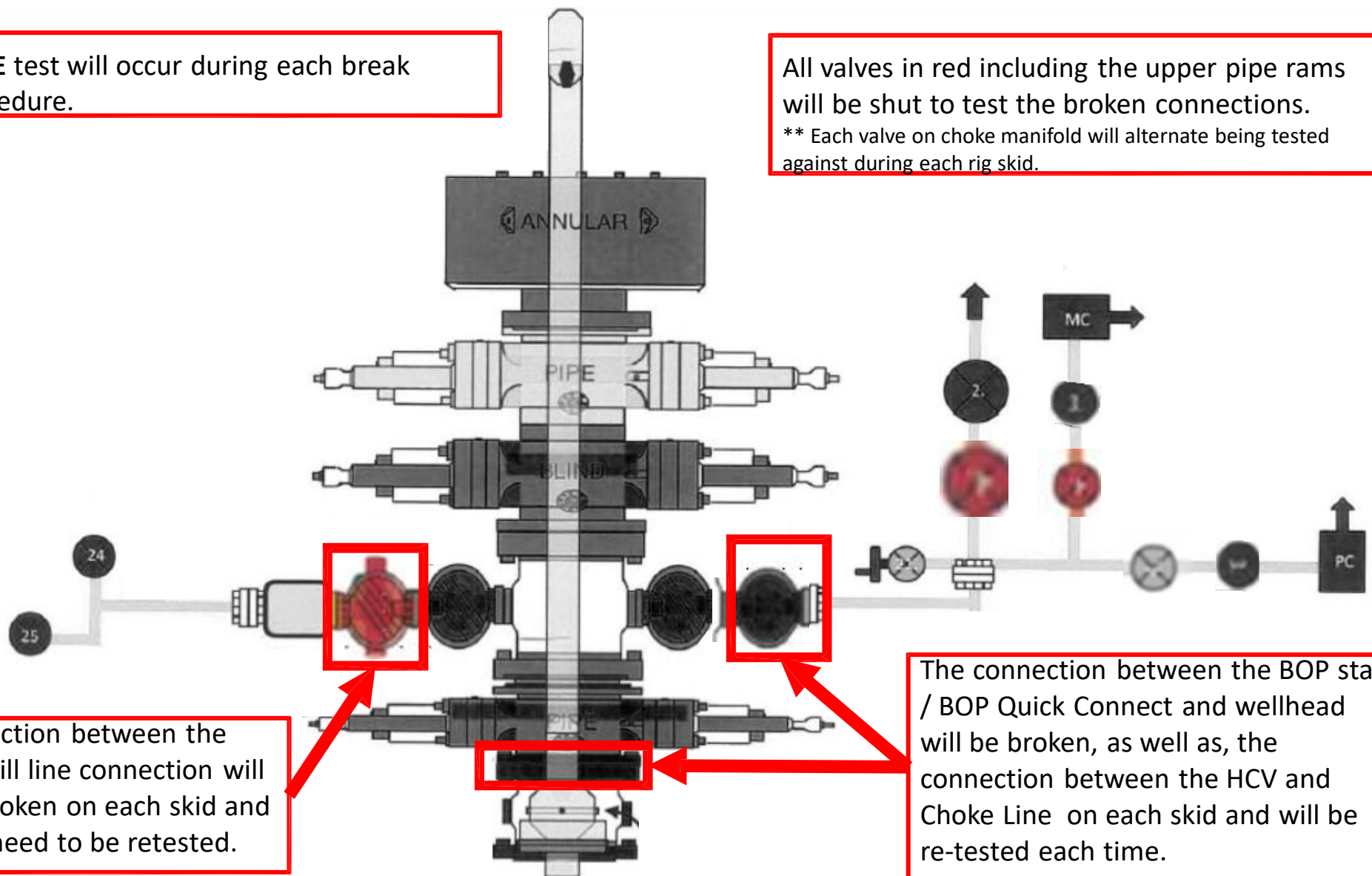
The BOP will be secured by a hydraulic carrier or cradle. The BLM will be contacted if a Well Control event occurs prior to the commencement of a BOPE Break Testing operation.

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 373854

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 373854
	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.	8/21/2024