

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

Form C-101
August 1, 2011
Permit 308204

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707		2. OGRID Number 5380
		3. API Number 30-015-49286
4. Property Code 317790	5. Property Name REMUDA NORTH 25 STATE	6. Well No. 703H

7. Surface Location

UL - Lot K	Section 25	Township 23S	Range 29E	Lot Idn	Feet From 2370	N/S Line S	Feet From 2039	E/W Line W	County Eddy
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8. Proposed Bottom Hole Location

UL - Lot C	Section 24	Township 23S	Range 29E	Lot Idn C	Feet From 200	N/S Line N	Feet From 2090	E/W Line W	County Eddy
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9. Pool Information

FORTY NINER RIDGE BONE SPRING, WEST	96526
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Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3070
16. Multiple N	17. Proposed Depth 16804	18. Formation Bone Spring	19. Contractor	20. Spud Date 4/12/2022
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	14.75	11.75	54	395	320	0
Int1	8.75	7.625	29.7	3187	320	0
Prod	6.75	5.5	20	16804	870	2678

Casing/Cement Program: Additional Comments

XTO requests the option to offline cement and remediate (if needed) surface, intermediate, and production 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. 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

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	2045	3000	Camron

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify I have complied with 19.15.14.9 (A) NMAC <input checked="" type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input checked="" type="checkbox"/> if applicable. Signature: Printed Name: Electronically filed by Tiffany Yancey Title: Production Analyst Email Address: tiffany.yancey@exxonmobil.com Date: 2/15/2022	OIL CONSERVATION DIVISION Approved By: Katherine Pickford Title: Geoscientist Approved Date: 2/21/2022 Expiration Date: 2/21/2024 Conditions of Approval Attached
Phone: 432-215-8939	

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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 30-015- 49286		² Pool Code 96526	³ Pool Name Forty-Niner Ridge; Bone Spring West
⁴ Property Code 317790	⁵ Property Name REMUDA NORTH 25 STATE		⁶ Well Number 703H
⁷ OGRID No. 005380	⁸ Operator Name XTO ENERGY, INC.		⁹ Elevation 3,070'

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
K	25	23 S	29 E		2,370	SOUTH	2,039	WEST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	24	23 S	29 E		200	NORTH	2,090	WEST	EDDY

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

SHL (NAD83 NME) Y = 464,036.5 X = 662,855.8 LAT. = 32.275099 °N LONG. = 103.940146 °W	LTP (NAD83 NME) Y = 471,959.9 X = 662,857.9 LAT. = 32.296879 °N LONG. = 103.940046 °W
FTP (NAD83 NME) Y = 464,699.1 X = 662,906.8 LAT. = 32.276919 °N LONG. = 103.939974 °W	BHL (NAD83 NME) Y = 472,089.9 X = 662,856.7 LAT. = 32.297236 °N LONG. = 103.940048 °W

CORNER COORDINATES (NAD83 NME)

A - Y = 464,319.1 N	X = 663,469.2 E
B - Y = 466,979.3 N	X = 663,464.2 E
C - Y = 469,631.9 N	X = 663,440.1 E
D - Y = 472,289.1 N	X = 663,415.9 E
E - Y = 464,319.7 N	X = 662,143.0 E
F - Y = 466,978.8 N	X = 662,140.6 E
G - Y = 469,634.0 N	X = 662,115.2 E
H - Y = 472,291.0 N	X = 662,090.3 E

SHL (NAD27 NME) Y = 463,976.6 X = 621,673.0 LAT. = 32.274975 °N LONG. = 103.939655 °W	LTP (NAD27 NME) Y = 471,899.8 X = 621,675.4 LAT. = 32.296755 °N LONG. = 103.939553 °W
FTP (NAD27 NME) Y = 464,639.1 X = 621,724.1 LAT. = 32.276796 °N LONG. = 103.939482 °W	BHL (NAD27 NME) Y = 472,029.8 X = 621,674.1 LAT. = 32.297112 °N LONG. = 103.939556 °W

CORNER COORDINATES (NAD27 NME)

A - Y = 464,259.2 N	X = 622,286.4 E
B - Y = 466,919.3 N	X = 622,281.5 E
C - Y = 469,571.8 N	X = 622,257.5 E
D - Y = 472,229.0 N	X = 622,233.4 E
E - Y = 464,259.9 N	X = 620,960.2 E
F - Y = 466,918.8 N	X = 620,957.9 E
G - Y = 469,574.0 N	X = 620,932.6 E
H - Y = 472,230.9 N	X = 620,907.7 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.

Cassie Evans 02/07/2022
Signature Date

Cassie Evans
Printed Name

cassie.evans@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.

01-31-2022
Date of Survey

Professional Surveyor:
[Signature]

MARK DILLON HARP 23786
Certificate Number

AW 2021101475

Intent As Drilled

API #

Operator Name: XTO ENERGY INC	Property Name: REMUDA NORTH 25 STATE	Well Number 703H
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Kick Off Point (KOP)

UL K	Section 25	Township 23S	Range 29E	Lot	Feet 2370	From N/S South	Feet 2039	From E/W WEST	County EDDY
Latitude 32.275099					Longitude -103.940146			NAD NAD83	

First Take Point (FTP)

UL F	Section 25	Township 23S	Range 29E	Lot	Feet 2280	From N/S North	Feet 2090	From E/W WEST	County EDDY
Latitude 32.276919					Longitude -103.939974			NAD NAD83	

Last Take Point (LTP)

UL C	Section 24	Township 23S	Range 29E	Lot	Feet 330	From N/S North	Feet 2090	From E/W WEST	County EDDY
Latitude 32.296879					Longitude -103.940046			NAD NAD83	

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

Is this well an infill well? Y

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

API #

Operator Name: XTO ENERGY INC	Property Name:	Well Number
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1220 S. St Francis Dr.
Santa Fe, NM 87505

Form APD Comments

Permit 308204

PERMIT COMMENTS

Operator Name and Address: XTO ENERGY, INC [5380] 6401 Holiday Hill Road Midland, TX 79707	API Number: 30-015-49286
	Well: REMUDA NORTH 25 STATE #703H

Created By	Comment	Comment Date
cevangs	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 NMOCD 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.	2/13/2022

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

Form APD Conditions

Permit 308204

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: XTO ENERGY, INC [5380] 6401 Holiday Hill Road Midland, TX 79707	API Number: 30-015-49286
	Well: REMUDA NORTH 25 STATE #703H

OCD Reviewer	Condition
kpickford	Notify OCD 24 hours prior to casing & cement
kpickford	Will require a File As Drilled C-102 and a Directional Survey with the C-104
kpickford	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud
kpickford	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string
kpickford	Cement is required to circulate on both surface and intermediate1 strings of casing
kpickford	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system

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

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

Background

Onshore Oil and Gas Order (OOGO) No. 2, Drilling Operations, Sections III.A.2.i.iv.B states that the BOP test must be performed whenever any seal subject to test pressure is broken. The current interpretation of the Bureau of Land Management (BLM) requires a complete BOP test and not just a test of the affected component. OOGO No. 2, Section I.D.2 states, "Some situation may exist either on a well-by-well basis or field-wide basis whereby it is commonly accepted practice to vary a particular minimum standard(s) established in this order. This situation can be resolved by requesting a variance...". XTO Energy feels the break testing the BOPE is such a situation. Therefore, as per OOGO No. 2, Section IV., XTO Energy submits this request for the variance.

Supporting Documentation

OOGO No. 2 became effective on December 19, 1988 and has remained the standard for regulating BLM onshore drilling operations for over 30 years. During this time there have been significant changes in drilling technology. BLM continues to use the variance request process to allow for the use of modern technology and acceptable engineering practices that have arisen since OOGO No. 2 was originally released. The XTO Energy drilling rig fleet has many modern upgrades that allow the intact BOP stack to be moved between well slots on a multi-well pad, as well as, wellhead designs that incorporate quick connects facilitating release of the BOP from the wellhead without breaking any BOP stack components apart. These technologies have been used extensively offshore, and other regulators, API, and many operators around the world have endorsed break testing as safe and reliable.



Figure 1: Winch System attached to BOP Stack

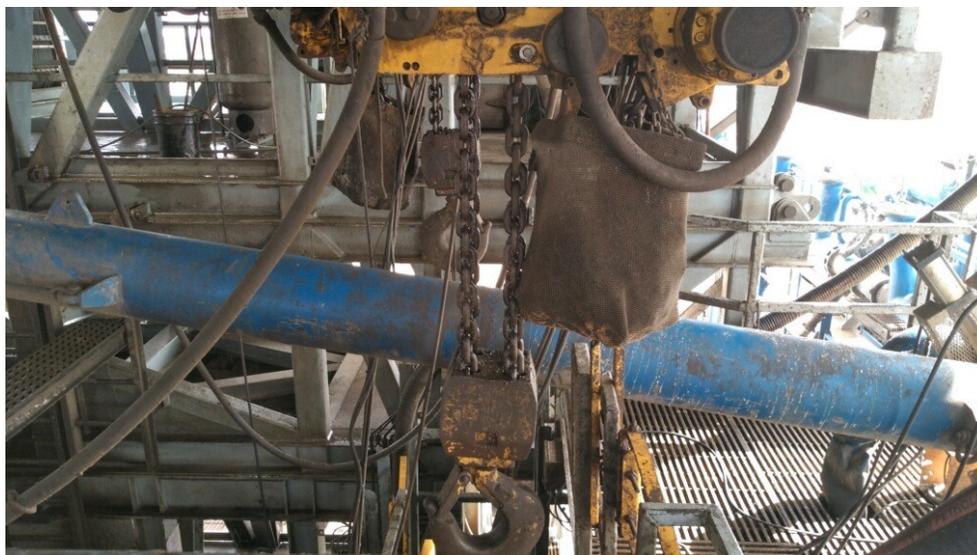


Figure 2: BOP Winch System

American Petroleum Institute (API) standards, specification and recommended practices are considered the industry standard and are consistently utilized and referenced by the industry. OOGO No. 2 recognizes API recommended Practices (RP) 53 in its original development. API Standard 53, *Well Control Equipment Systems for Drilling Wells* (Fifth Edition, December 2018, Annex C, Table C.4) recognizes break testing as an acceptable practice. Specifically, API Standard 53, Section 5.3.7.1 states “A pressure test of the pressure containing component shall be performed following the disconnection or repair, limited to the affected component.” See Table C.4 below for reference.

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.

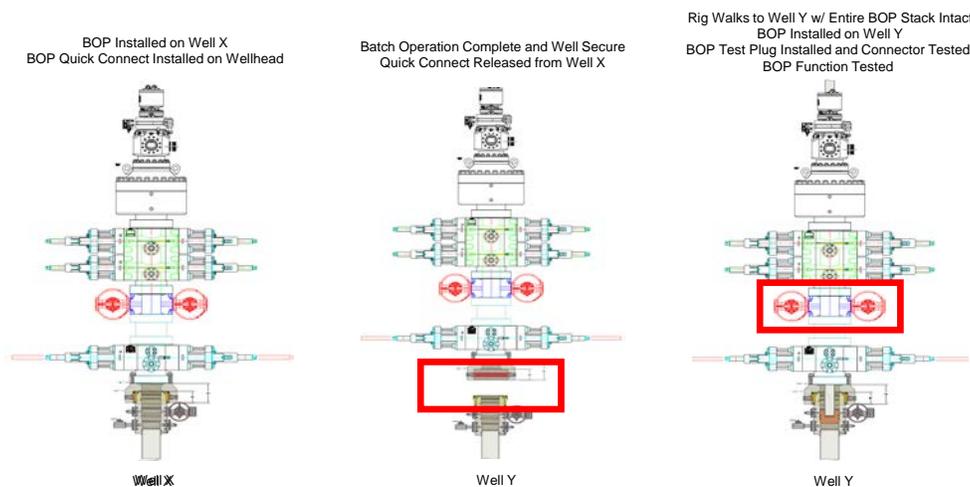
XTO Energy feels break testing and our current procedures meet the intent of OOGO No. 2 and often exceed it. There has been no evidence that break testing results in more components failing than seen on full BOP tests. XTO Energy's internal standards requires complete BOPE tests more often than that of OOGO No. 2 (Every 21 days). In addition to function testing the annular, pipe rams and blind rams after each BOP nipple up, XTO Energy performs a choke drill with the rig crew prior to drilling out every casing shoe. This is additional training for the rig crew that exceeds the requirements of the OOGO No.2.

Procedures

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

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

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



Summary

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

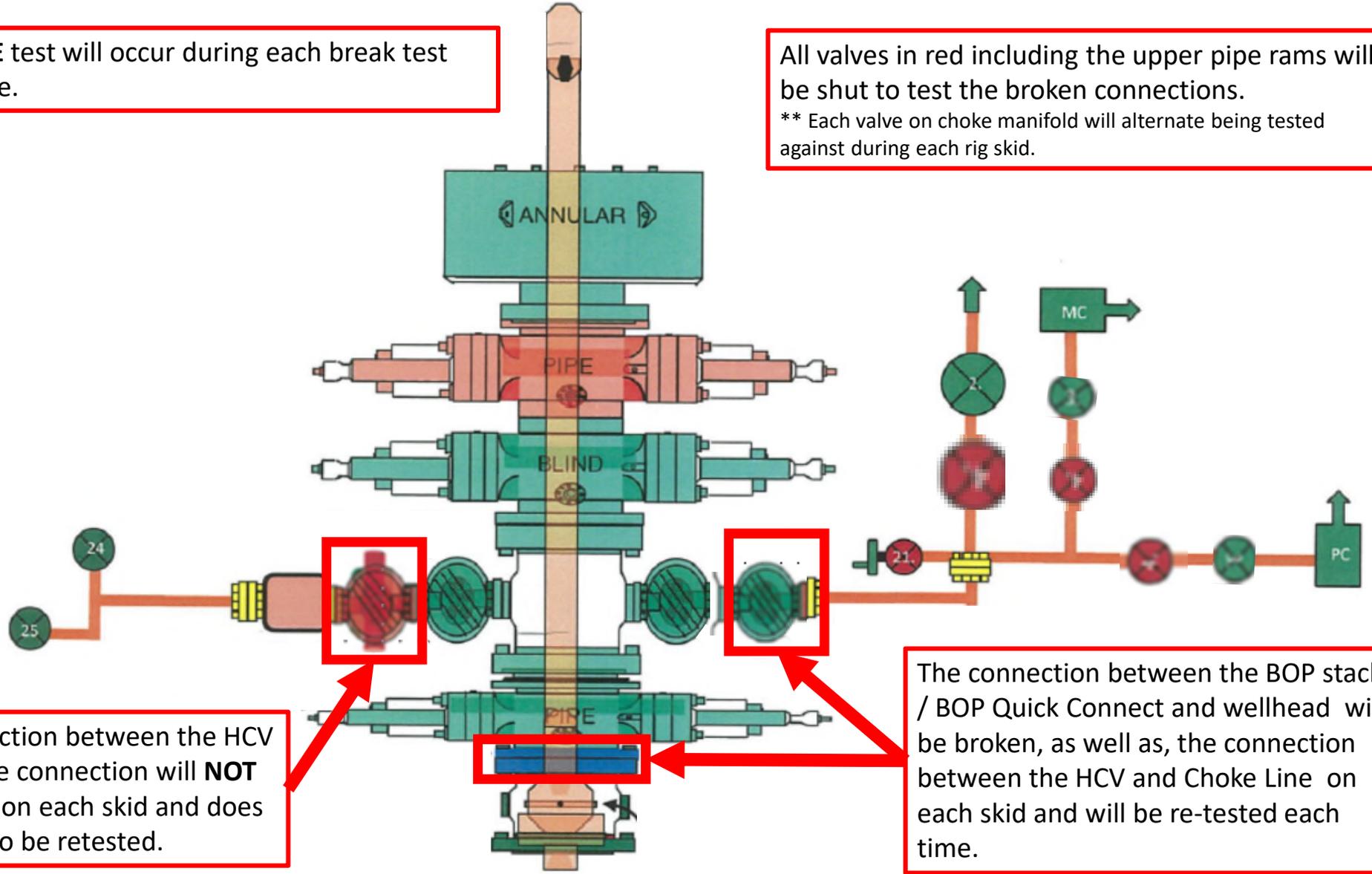
The BOP will be secured by a hydraulic carrier or cradle. The BLM will be contacted if a Well Control event occurs prior to the commencement of a BOPE Break Testing operation.

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

1. After a full BOP test is conducted on the first well on the pad.
2. The first intermediate hole section drilled on the pad will be the deepest. All of the remaining hole sections will be the same depth or shallower.
3. Full BOP test will be required if the intermediate hole section being drilled has a MASP over 5M.
4. Full BOP test will be required prior to drilling the production hole.

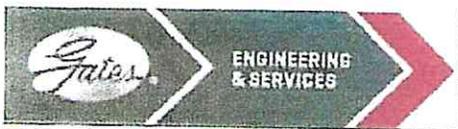
Only **ONE** test will occur during each break test procedure.

All valves in red including the upper pipe rams will be shut to test the broken connections.
** Each valve on choke manifold will alternate being tested against during each rig skid.



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

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



GATES E & S NORTH AMERICA, INC
DU-TEX
134 44TH STREET
CORPUS CHRISTI, TEXAS 78405

PHONE: 361-887-9807
FAX: 361-887-0812
EMAIL: crpe&s@gates.com
WEB: www.gates.com

GRADE D PRESSURE TEST CERTIFICATE

Customer :	AUSTIN DISTRIBUTING	Test Date:	6/8/2014
Customer Ref. :	PENDING	Hose Serial No.:	D-060814-1
Invoice No. :	201709	Created By:	NORMA

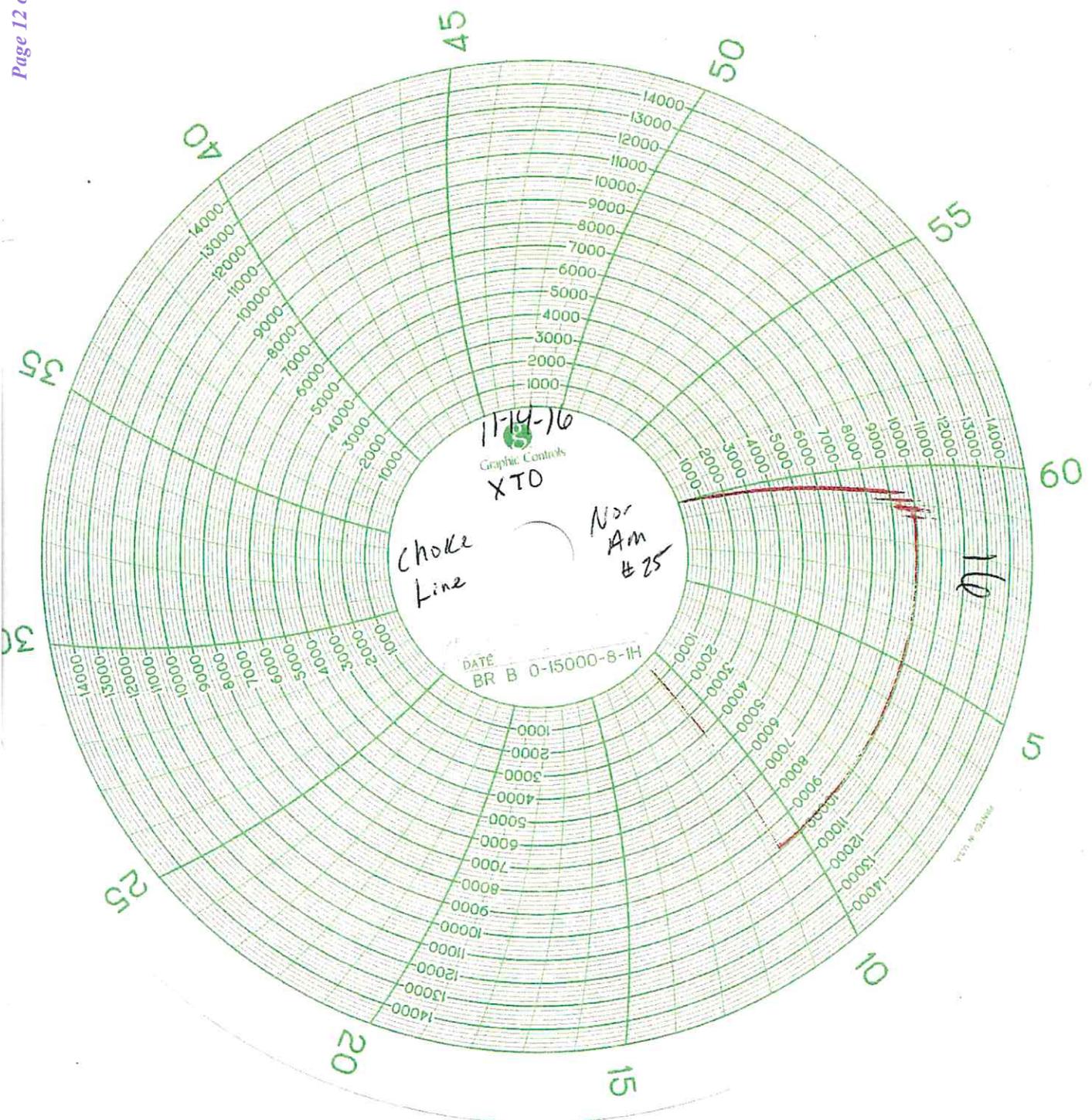
Product Description: FD3.042.0R41/16.5KFLGE/E LE

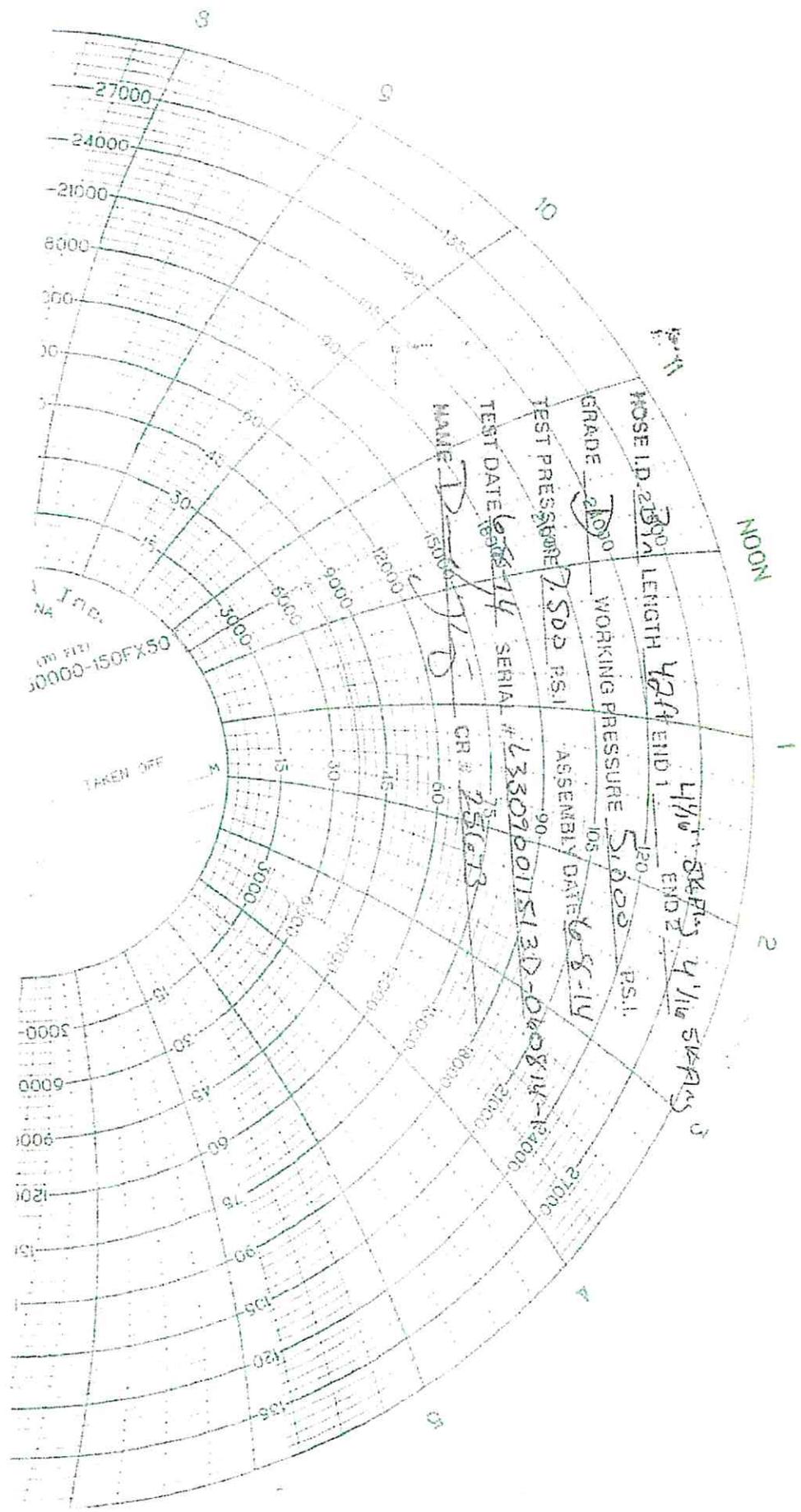
End Fitting 1 :	4 1/16 in.5K FLG	End Fitting 2 :	4 1/16 in.5K FLG
Gates Part No. :	4774-6001	Assembly Code :	L33090011513D-060814-1
Working Pressure :	5,000 PSI	Test Pressure :	7,500 PSI

Gates E & S North America, Inc. certifies that the following hose assembly has been tested to the Gates Oilfield Roughneck Agreement/Specification requirements and passed the 15 minute hydrostatic test per API Spec 7K/Q1, Fifth Edition, June 2010, Test pressure 9.6.7 and per Table 9 to 7,500 psi in accordance with this product number. Hose burst pressure 9.6.7.2 exceeds the minimum of 2.5 times the working pressure per Table 9.

Quality:	QUALITY	Technical Supervisor :	PRODUCTION
Date :	6/8/2014	Date :	6/8/2014
Signature :		Signature :	

Form PTC - 01 Rev.0 2





NA Inc.
(700 717)
10000-150FX50

TAKEN OFF

HOSE I.D. 2 1/2" LENGTH 424' END 1 4 1/2" BEARING 4 1/2" STARS
 GRADE 2100 WORKING PRESSURE 5120 PS.I.
 TEST PRESSURE 7500 PS.I. ASSEMBLY DATE 10-8-14
 TEST DATE 10-8-14 SERIAL # L33096017513D-0140814-124000
 NAME D. J. D. CR # 25013

NOON

1

2

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description Effective May 25, 2021

I. Operator: XTO Energy, Inc. **OGRID:** 05380 **Date:** 02 / 18 / 2022

II. Type: Original Amendment due to 19.15.27.9.D(6)(a) NMAC 19.15.27.9.D(6)(b) NMAC Other.

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Remuda South 25 State 801H		K-25-23S-29E	2369'FSL & 1949'FWL	1500	2600	1000
Remuda North 25 State 701H		K-25-23S-29E	2369'FSL & 1949'FWL	1500	2600	1000
Remuda North 25 State 702H		K-25-23S-29E	2369'FSL & 2009'FWL	1500	2600	1000
Remuda North 25 State 703H		K-25-23S-29E	2370'FSL & 2090'FWL	1500	2600	1000
Remuda North 25 State 708H		K-25-23S-29E	2369'FSL & 1979' FWL	1500	2600	1000
Remuda North 25 State 705H		E-30-23S-29E	2370'FNL & 600'FWL	1500	2600	1000
Remuda North 25 State 706H		E-30-23S-29E	2370'FNL & 630'FWL	1500	2600	1000
Remuda North 25 State 707H		E-30-23S-29E	2370'FNL & 660'FWL	1500	2600	1000
Remuda North 25 State 708H		E-30-23S-29E	2370'FNL & 690'FWL	1500	2600	1000
Remuda North 25 State 704H		E-30-23S-29E	2370'FNL & 570'FWL	1500	2600	1000

IV. Central Delivery Point Name: Remuda 500 TB _____ [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Remuda South 25 State 801H		04/09/2022	04/21/22	Not yet Scheduled	Not yet Scheduled	Not yet Scheduled
Remuda North 25 State 701H		04/08/2022	04/20/22	Not yet Scheduled	Not yet Scheduled	Not yet Scheduled
Remuda North 25 State 702H		04/11/2022	05/01/22	Not yet Scheduled	Not yet Scheduled	Not yet Scheduled
Remuda North 25 State 703H		04/12/2022	05/02/22	Not yet Scheduled	Not yet Scheduled	Not yet Scheduled
Remuda North 25 State 708H		04/08/2022	04/20/22	Not yet Scheduled	Not yet Scheduled	Not yet Scheduled
Remuda North 25 State 705H		04/05/2022	04/17/22	Not yet Scheduled	Not yet Scheduled	Not yet Scheduled
Remuda North 25 State 706H		04/06/2022	04/18/22	Not yet Scheduled	Not yet Scheduled	Not yet Scheduled
Remuda North 25 State 707H		04/07/2022	04/19/22	Not yet Scheduled	Not yet Scheduled	Not yet Scheduled
Remuda North 25 State 708H		04/08/2022	04/20/22	Not yet Scheduled	Not yet Scheduled	Not yet Scheduled
Remuda North 25 State 704H		04/04/2022	04/16/22	Not yet Scheduled	Not yet Scheduled	Not yet Scheduled

VI. Separation Equipment:

XTO Permian Operating, LLC. production tank batteries include separation equipment designed to efficiently separate gas from liquid phases to optimize gas capture based on projected and estimated volumes from the targeted pool in conjunction with the total number of wells planned to or existing within the facility. Separation equipment is upgraded prior to well being drilled or completed, if determined to be undersized or needed. The separation equipment is designed and built according to the relevant industry specifications (API Specification 12J and ASME Sec VIII Div I). Other recognized industry publications such as the Gas Processors Suppliers Association (GPSA) are referenced when designing separation equipment to optimize gas capture.

VII. Operational Practices:

1. Subsection B.

- During drilling, flare stacks will be located a minimum of 150 feet from the nearest surface hole location. All gas is captured or combusted. If an emergency or malfunction occurs, gas will be flared or vented for public health, safety and the environment and be properly reported to the NMOCD pursuant to 19.15.27.8.G.
- Measure or estimate the volume of natural gas that is vented, flared or beneficially used during drilling, completion and production operations, regardless of the reason or authorization for such venting or flaring.
- At any point in the well life (drilling, completion, production, inactive) an audio, visual and olfactory (AVO) inspection will be performed weekly (at minimum) to confirm that all production equipment is operating properly and there are no leaks or releases except as allowed in Subsection D of 19.15.27.8 NMAC.

2. Subsection C.

- During completion operations, operator does not produce oil or gas but maintains adequate well control through completion operations.

For emergencies, equipment malfunction, or if the operator decides to produce oil and gas during well completion:

- Flowlines will be routed for flowback fluids into a completion or storage tank and, if feasible under well conditions, flare rather than vent and commence operation of a separator as soon as it is technically feasible for a separator to function.
- Measure or estimate the volume of natural gas that is vented, flared or beneficially used during drilling, completion and production operations, regardless of the reason or authorization for such venting or flaring.
- At any point in the well life (drilling, completion, production, inactive) an audio, visual and olfactory (AVO) inspection will be performed weekly (at minimum) to confirm that all production equipment is operating properly and there are no leaks or releases except as allowed in Subsection D of 19.15.27.8 NMAC.

3. Subsection D.

- At any point in the well life (drilling, completion, production, inactive) an audio, visual and olfactory (AVO) inspection will be performed weekly (at minimum) to confirm that all production equipment is operating properly and there are no leaks or releases except as allowed in Subsection D of 19.15.27.8 NMAC.
- Monitor manual liquid unloading for wells on-site or in close proximity (<30 minutes' drive time), take reasonable actions to achieve a stabilized rate and pressure at the earliest practical time, and take reasonable actions to minimize venting to the maximum extent practicable.

- Measure or estimate the volume of natural gas that is vented, flared or beneficially used during drilling, completion and production operations, regardless of the reason or authorization for such venting or flaring.
4. Subsection E.
- All tanks and separation equipment are designed for maximum throughput and pressure to minimize waste.
 - Flare stack was installed prior to May 25, 2021 but has been designed for proper size and combustion efficiency. Flare currently has a continuous pilot and is located more than 100 feet from any known well and storage tanks.
 - At any point in the well life (drilling, completion, production, inactive) an audio, visual and olfactory (AVO) inspection will be performed weekly (at minimum) to confirm that all production equipment is operating properly and there are no leaks or releases except as allowed in Subsection D of 19.15.27.8 NMAC.
5. Subsection F.
- Measurement equipment is installed to measure the volume of natural gas flared from process piping or a flowline piped from the equipment associated with a well and facility associated with the approved application for permit to drill that has an average daily production greater than 60 mcf of natural gas.
 - Measurement equipment installed is not designed or equipped with a manifold to allow diversion of natural gas around the metering equipment, except for the sole purpose of inspecting and servicing the measurement equipment, as noted in NMAC 19.15.27.8 Subsection G.

VIII. Best Management Practices:

1. During completion operations, operator does not produce oil or gas but maintains adequate well control through completion operations.
2. Operator does not flow well (well shut in) during initial production until all flowlines, tank batteries, and oil/gas takeaway are installed, tested, and determined operational.
3. Operator equips storage tanks with an automatic gauging system to reduce venting of natural gas.
4. Operator reduces the number of blowdowns by looking for opportunities to coordinate repair and maintenance activities.
5. Operator combusts natural gas that would otherwise be vented or flared, when feasible.
6. Operator has a flare stack designed in accordance with need and to handle sufficient volume to ensure proper combustion efficiency. Flare stacks are equipped with continuous pilots and securely anchored at least 100 feet (at minimum) from storage tanks and wells.
7. Operator minimizes venting (when feasible) through pump downs of vessels and reducing time required to purge equipment before returning equipment to service.
8. Operator will shut in wells (when feasible) in the event of a takeaway disruption, emergency situation, or other operations where venting or flaring may occur due to equipment failures.

VI. Separation Equipment: Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: Attach a complete description of Operator’s best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan
EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system will will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator does does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

Attach Operator’s plan to manage production in response to the increased line pressure.

XIV. Confidentiality: Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications

Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

If Operator checks this box, Operator will select one of the following:

Well Shut-In. Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature:
Printed Name: Cassie Evans
Title: Regulatory Analyst
E-mail Address: cassie.evans@exxonmobil.com
Date: 02/18/2022
Phone:432-218-3671
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

Cement Variance Request

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 Brushy Canyon (5733') and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If cement is not visually confirmed to circulate to surface, the final cement top after the second stage job will be verified by Echo-meter. If necessary, a top out consisting of 1,500 sack of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. If cement is still unable to circulate to surface, another Echo-meter run will be performed for cement top verification.

XTO will include the Echo-meter verified fluid top and the volume of displacement fluid above the cement slurry in the annulus in all post-drill sundries on wells utilizing this cement program.

XTO will report to the BLM the volume of fluid (limited to 5 bbls) used to flush intermediate casing valves following backside cementing procedures.

XTO requests to pump an Optional Lead if well conditions dictate in an attempt to bring cement to surface on the first stage. If cement is brought to surface, the BLM will be notified and the second stage bradenhead squeeze and subsequent TOC verification will be negated.

In the event cement is not circulated to surface on the first stage, whether intentionally or unintentionally, 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 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 GE procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops.

Well Plan Report - Remuda North 25 State 703H

Measured Depth: 16803.00 ft

TVD RKB: 9000.00 ft

Location

Cartographic Reference System: New Mexico East - NAD 27

Northing: 463937.00 ft

Easting: 621673.10 ft

RKB: 3095.00 ft

Ground Level: 3065.00 ft

North Reference: Grid

Convergence Angle: 0.21 Deg

Site: South Pad 2

Slot: 5

Plan Sections		Remuda North 25 State 703H					
Measured Depth (ft)	Inclination (Deg)	Azimuth (Deg)	TVD RKB (ft)	Y Offset (ft)	X Offset (ft)	Build Rate (Deg/100ft)	
0	0	0	0	0	0	0	
2200	0	0	2200	0	0	0	
2446.83	4.94	107.35	2446.52	-3.17	10.14	2	
2955.67	4.94	107.35	2953.48	-16.23	51.94	0	
3202.5	0	0	3200	-19.4	62.08	-2	
8280.5	0	0	8278	-19.4	62.08	0	
8843	45	10	8784.43	187.18	98.51	8	
9419.98	90	358.4	9000.22	704.76	127.46	7.8	

10419.98	90	358.4	9000.22	1704.37	99.54	0
16803.69	90	0.04	9000	8087.27	12.38	0

Position Uncertainty Remuda North 25 State 703H

Measured Depth (ft)	Inclination (°)	Azimuth (°)	TVD RKB (ft)	Highside Error (ft)	Bias (ft)	Lateral Error (ft)
0	0	0	0	0	0	0
100	0	0	100	0.468	0	0.468
200	0	0	200	0.983	0	0.983
300	0	0	300	1.403	0	1.403
400	0	0	400	1.797	0	1.797
500	0	0	500	2.179	0	2.179
600	0	0	600	2.554	0	2.554
700	0	0	700	2.925	0	2.925
800	0	0	800	3.292	0	3.292
900	0	0	900	3.659	0	3.659
1000	0	0	1000	4.024	0	4.024
1100	0	0	1100	4.387	0	4.387
1200	0	0	1200	4.751	0	4.751
1300	0	0	1300	5.113	0	5.113
1400	0	0	1400	5.474	0	5.474
1500	0	0	1500	5.836	0	5.836
1600	0	0	1600	6.197	0	6.197
1700	0	0	1700	6.558	0	6.558
1800	0	0	1800	6.918	0	6.918
1900	0	0	1900	7.279	0	7.279
2000	0	0	2000	7.639	0	7.639

2100	0	0	2100	7.999	0	7.999
2200	0	0	2200	8.359	0	8.359
2300	1.999	107.3	2299.98	8.536	0	8.934
2400	4	107.3	2399.838	9.15	0	9.264
2446.8	4.936	107.3	2446.523	9.322	0	9.412
2500	4.936	107.3	2499.498	9.497	0	9.58
2600	4.936	107.3	2599.127	9.826	0	9.906
2700	4.936	107.3	2698.756	10.164	0	10.237
2800	4.936	107.3	2798.385	10.503	0	10.578
2900	4.936	107.3	2898.014	10.846	0	10.917
2955.6	4.936	107.3	2953.477	11.031	0	11.098
3000	4.049	107.3	2997.671	11.186	0	11.244
3100	2.049	107.3	3097.525	11.651	0	11.579
3202.4	0	0	3200	11.874	0	12.12
3300	0	0	3297.502	12.292	0	12.462
3400	0	0	3397.502	12.645	0	12.81
3500	0	0	3497.502	13	0	13.157
3600	0	0	3597.502	13.353	0	13.506
3700	0	0	3697.502	13.708	0	13.856
3800	0	0	3797.502	14.061	0	14.206
3900	0	0	3897.502	14.415	0	14.557
4000	0	0	3997.502	14.772	0	14.91
4100	0	0	4097.502	15.126	0	15.261
4200	0	0	4197.502	15.479	0	15.611
4300	0	0	4297.502	15.834	0	15.966
4400	0	0	4397.502	16.19	0	16.316
4500	0	0	4497.502	16.544	0	16.67
4600	0	0	4597.502	16.9	0	17.021
4700	0	0	4697.502	17.257	0	17.375

4800	0	0	4797.502	17.612	0	17.729
4900	0	0	4897.502	17.967	0	18.083
5000	0	0	4997.502	18.322	0	18.436
5100	0	0	5097.502	18.679	0	18.788
5200	0	0	5197.502	19.034	0	19.144
5300	0	0	5297.502	19.391	0	19.499
5400	0	0	5397.502	19.748	0	19.852
5500	0	0	5497.502	20.105	0	20.206
5600	0	0	5597.502	20.46	0	20.562
5700	0	0	5697.502	20.818	0	20.917
5800	0	0	5797.502	21.173	0	21.272
5900	0	0	5897.502	21.531	0	21.626
6000	0	0	5997.502	21.886	0	21.982
6100	0	0	6097.502	22.244	0	22.336
6200	0	0	6197.502	22.601	0	22.691
6300	0	0	6297.502	22.956	0	23.048
6400	0	0	6397.502	23.315	0	23.403
6500	0	0	6497.502	23.671	0	23.759
6600	0	0	6597.502	24.029	0	24.114
6700	0	0	6697.502	24.384	0	24.47
6800	0	0	6797.502	24.743	0	24.825
6900	0	0	6897.502	25.1	0	25.181
7000	0	0	6997.502	25.456	0	25.538
7100	0	0	7097.502	25.813	0	25.894
7200	0	0	7197.502	26.171	0	26.249
7300	0	0	7297.502	26.527	0	26.606
7400	0	0	7397.502	26.885	0	26.963
7500	0	0	7497.502	27.243	0	27.318
7600	0	0	7597.502	27.601	0	27.675

7700	0	0	7697.502	27.957	0	28.032
7800	0	0	7797.502	28.314	0	28.388
7900	0	0	7897.502	28.672	0	28.744
8000	0	0	7997.502	29.029	0	29.102
8100	0	0	8097.502	29.387	0	29.457
8200	0	0	8197.502	29.746	0	29.814
8280.4	0	0	8278	30.032	0	30.1
8300	1.56	10	8297.5	30.214	0	30.044
8400	9.56	10	8396.948	30.745	0	30.397
8500	17.56	10	8494.082	31.694	0	30.748
8600	25.56	10	8587.009	32.147	0	31.087
8700	33.56	10	8673.923	32.152	0	31.401
8800	41.56	10	8753.13	31.78	0	31.701
8842.9	45	10	8784.428	31.062	0	31.824
8900	49.39	8.326	8823.152	29.963	0	32.036
9000	57.14	5.861	8882.919	28.504	0	32.431
9100	64.93	3.795	8931.302	27.566	0	32.82
9200	72.75	1.977	8967.36	26.784	0	33.182
9300	80.59	0.309	8990.392	26.315	0	33.506
9400	88.43	358.7	8999.948	26.292	0	33.79
9419.9	90	358.4	9000.222	26.054	0	33.84
9500	90	358.4	9000.222	26.186	0	33.928
9600	90	358.4	9000.222	26.359	0	34.046
9700	90	358.4	9000.222	26.554	0	34.192
9800	90	358.4	9000.222	26.769	0	34.337
9900	90	358.4	9000.222	27.007	0	34.511
10000	90	358.4	9000.222	27.267	0	34.684
10100	90	358.4	9000.222	27.545	0	34.871
10200	90	358.4	9000.222	27.842	0	35.071

10300	90	358.4	9000.222	28.158	0	35.283
10400	90	358.4	9000.222	28.494	0	35.509
10419	90	358.4	9000.222	28.56	0	35.551
10500	90	358.4	9000.222	28.839	0	35.733
10600	90	358.4	9000.221	29.208	0	35.97
10700	90	358.4	9000.221	29.592	0	36.233
10800	90	358.4	9000.221	29.993	0	36.494
10900	90	358.5	9000.22	30.409	0	36.761
11000	90	358.5	9000.22	30.84	0	37.059
11100	90	358.5	9000.219	31.283	0	37.354
11200	90	358.5	9000.218	31.733	0	37.647
11300	90	358.6	9000.217	32.202	0	37.959
11400	90	358.6	9000.216	32.68	0	38.286
11500	90	358.6	9000.215	33.181	0	38.611
11600	90	358.7	9000.214	33.69	0	38.954
11700	90	358.7	9000.213	34.191	0	39.299
11800	90	358.7	9000.211	34.728	0	39.653
11900	90	358.7	9000.21	35.256	0	40.03
12000	90	358.8	9000.208	35.805	0	40.397
12100	90	358.8	9000.206	36.359	0	40.779
12200	90	358.8	9000.204	36.919	0	41.157
12300	90	358.8	9000.202	37.483	0	41.556
12400	90	358.9	9000.2	38.066	0	41.958
12500	90	358.9	9000.198	38.652	0	42.362
12600	90	358.9	9000.196	39.243	0	42.773
12700	90	358.9	9000.193	39.837	0	43.203
12800	90	359	9000.191	40.435	0	43.624
12900	90	359	9000.188	41.049	0	44.058
13000	90	359	9000.185	41.665	0	44.498

13100	90	359	9000.183	42.285	0	44.934
13200	90	359.1	9000.18	42.919	0	45.384
13300	90	359.1	9000.177	43.543	0	45.844
13400	90	359.1	9000.173	44.181	0	46.3
13500	90	359.1	9000.17	44.822	0	46.772
13600	90	359.2	9000.167	45.475	0	47.236
13700	90	359.2	9000.163	46.119	0	47.71
13800	90	359.2	9000.159	46.776	0	48.19
13900	90	359.2	9000.156	47.434	0	48.675
14000	90	359.3	9000.152	48.104	0	49.162
14100	90	359.3	9000.148	48.765	0	49.647
14200	90	359.3	9000.144	49.437	0	50.148
14300	90	359.3	9000.14	50.11	0	50.654
14400	90	359.4	9000.135	50.784	0	51.151
14500	90	359.4	9000.131	51.468	0	51.657
14600	90	359.4	9000.127	52.144	0	52.168
14700	90	359.4	9000.122	52.83	0	52.683
14800	90	359.5	9000.117	53.516	0	53.198
14900	90	359.5	9000.112	54.213	0	53.722
15000	90	359.5	9000.108	54.9	0	54.25
15100	90	359.5	9000.103	55.597	0	54.773
15200	90	359.6	9000.097	56.294	0	55.305
15300	90	359.6	9000.092	56.991	0	55.836
15400	90	359.6	9000.087	57.697	0	56.38
15500	90	359.7	9000.081	58.404	0	56.914
15600	90	359.7	9000.076	59.11	0	57.457
15700	90	359.7	9000.07	59.816	0	58.002
15800	90	359.7	9000.064	60.523	0	58.551
15900	90	359.8	9000.058	61.237	0	59.092

16000	90	359.8	9000.052	61.952	0	59.648
16100	90	359.8	9000.046	62.666	0	60.198
16200	90	359.8	9000.04	63.388	0	60.761
16300	90	359.9	9000.034	64.101	0	61.314
16400	90	359.9	9000.027	64.823	0	61.874
16500	90	359.9	9000.021	65.544	0	62.437
16600	90	359.9	9000.014	66.272	0	63.003
16700	90	0.009	9000.007	66.993	0	63.569
16803	90	0.035	9000	67.75	0	64.163

Plan Targets		Remuda North 25 State 703H				
Target Name	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape	
FTP 8	9485.67	464634.6	621735.18	5905	CIRCLE	
LTP 3	16673.85	471894.41	621686.58	5905	CIRCLE	
BHL 8	16803.7	472024.27	621685.48	5905	CIRCLE	

Turn Rate (Deg/100ft)	Dogleg Rate (Deg/100ft) Target
0	0
0	0
0	2
0	0
0	2
0	0
0	8
-2.01	8

0	0
0.03	0.03 BHL 8

	Vertical		Magnitude		Semi-major	Semi-minor	Semi-minor Tool
Bias (ft)	Error (ft)	Bias (ft)	of Bias (ft)	Error (ft)	Error (ft)	Azimuth (°)	Used
0	2.297	0	0	0	0	0	MWD+IFR1+ MS
0	2.299	0	0	0.556	0.358	135	MWD+IFR1+ MS
0	2.307	0	0	1.191	0.717	135	MWD+IFR1+ MS
0	2.321	0	0	1.668	1.075	135	MWD+IFR1+ MS
0	2.34	0	0	2.099	1.434	135	MWD+IFR1+ MS
0	2.364	0	0	2.507	1.792	135	MWD+IFR1+ MS
0	2.393	0	0	2.902	2.151	135	MWD+IFR1+ MS
0	2.428	0	0	3.288	2.509	135	MWD+IFR1+ MS
0	2.467	0	0	3.669	2.867	135	MWD+IFR1+ MS
0	2.511	0	0	4.046	3.226	135	MWD+IFR1+ MS
0	2.559	0	0	4.42	3.584	135	MWD+IFR1+ MS
0	2.613	0	0	4.791	3.943	135	MWD+IFR1+ MS
0	2.67	0	0	5.161	4.302	135	MWD+IFR1+ MS
0	2.731	0	0	5.529	4.66	135	MWD+IFR1+ MS
0	2.797	0	0	5.896	5.018	135	MWD+IFR1+ MS
0	2.866	0	0	6.262	5.377	135	MWD+IFR1+ MS
0	2.939	0	0	6.627	5.735	135	MWD+IFR1+ MS
0	3.015	0	0	6.992	6.094	135	MWD+IFR1+ MS
0	3.095	0	0	7.355	6.452	135	MWD+IFR1+ MS
0	3.178	0	0	7.719	6.811	135	MWD+IFR1+ MS
0	3.265	0	0	8.081	7.169	135	MWD+IFR1+ MS

0	3.354	0	0	8.444	7.527	135	MWD+IFR1+ MS
0	3.447	0	0	8.806	7.886	135	MWD+IFR1+ MS
0	3.543	0	0	9.147	8.312	-41.768	MWD+IFR1+ MS
0	3.641	0	0	9.488	8.934	-32.755	MWD+IFR1+ MS
0	3.688	0	0	9.638	9.116	-31.149	MWD+IFR1+ MS
0	3.742	0	0	9.802	9.296	-30.847	MWD+IFR1+ MS
0	3.846	0	0	10.11	9.642	-31.03	MWD+IFR1+ MS
0	3.955	0	0	10.42	10.001	-31.086	MWD+IFR1+ MS
0	4.066	0	0	10.736	10.365	-31.701	MWD+IFR1+ MS
0	4.179	0	0	11.055	10.728	-32.078	MWD+IFR1+ MS
0	4.244	0	0	11.232	10.915	-31.878	MWD+IFR1+ MS
0	4.297	0	0	11.373	11.066	-32.057	MWD+IFR1+ MS
0	4.417	0	0	11.735	11.493	-19.186	MWD+IFR1+ MS
0	4.543	0	0	12.159	11.835	-20.292	MWD+IFR1+ MS
0	4.664	0	0	12.537	12.216	-29.07	MWD+IFR1+ MS
0	4.79	0	0	12.895	12.559	-30.32	MWD+IFR1+ MS
0	4.917	0	0	13.253	12.902	-31.706	MWD+IFR1+ MS
0	5.049	0	0	13.611	13.245	-32.655	MWD+IFR1+ MS
0	5.182	0	0	13.971	13.591	-33.484	MWD+IFR1+ MS
0	5.318	0	0	14.329	13.935	-34.214	MWD+IFR1+ MS
0	5.457	0	0	14.689	14.281	-34.86	MWD+IFR1+ MS
0	5.598	0	0	15.05	14.629	-35.436	MWD+IFR1+ MS
0	5.742	0	0	15.409	14.975	-35.953	MWD+IFR1+ MS
0	5.888	0	0	15.767	15.32	-36.416	MWD+IFR1+ MS
0	6.037	0	0	16.128	15.668	-36.65	MWD+IFR1+ MS
0	6.189	0	0	16.486	16.016	-37.221	MWD+IFR1+ MS
0	6.344	0	0	16.847	16.364	-37.397	MWD+IFR1+ MS
0	6.5	0	0	17.204	16.712	-37.889	MWD+IFR1+ MS
0	6.66	0	0	17.566	17.063	-38.183	MWD+IFR1+ MS

0	6.822	0	0	17.925	17.413	-38.453	MWD+IFR1+ MS
0	6.986	0	0	18.284	17.762	-38.556	MWD+IFR1+ MS
0	7.154	0	0	18.643	18.112	-38.793	MWD+IFR1+ MS
0	7.324	0	0	19.002	18.462	-39.153	MWD+IFR1+ MS
0	7.497	0	0	19.362	18.813	-39.216	MWD+IFR1+ MS
0	7.672	0	0	19.721	19.164	-39.412	MWD+IFR1+ MS
0	7.85	0	0	20.081	19.516	-39.717	MWD+IFR1+ MS
0	8.03	0	0	20.44	19.867	-39.881	MWD+IFR1+ MS
0	8.214	0	0	20.799	20.219	-39.921	MWD+IFR1+ MS
0	8.4	0	0	21.159	20.572	-40.184	MWD+IFR1+ MS
0	8.589	0	0	21.518	20.923	-40.209	MWD+IFR1+ MS
0	8.78	0	0	21.877	21.276	-40.45	MWD+IFR1+ MS
0	8.974	0	0	22.236	21.628	-40.47	MWD+IFR1+ MS
0	9.171	0	0	22.595	21.981	-40.692	MWD+IFR1+ MS
0	9.371	0	0	22.954	22.334	-40.802	MWD+IFR1+ MS
0	9.573	0	0	23.313	22.687	-40.811	MWD+IFR1+ MS
0	9.778	0	0	23.673	23.041	-41.009	MWD+IFR1+ MS
0	9.986	0	0	24.032	23.394	-41.01	MWD+IFR1+ MS
0	10.193	0	0	24.391	23.748	-41.197	MWD+IFR1+ MS
0	10.407	0	0	24.75	24.101	-41.193	MWD+IFR1+ MS
0	10.625	0	0	25.109	24.455	-41.365	MWD+IFR1+ MS
0	10.844	0	0	25.468	24.809	-41.444	MWD+IFR1+ MS
0	11.063	0	0	25.827	25.163	-41.437	MWD+IFR1+ MS
0	11.292	0	0	26.186	25.517	-41.511	MWD+IFR1+ MS
0	11.515	0	0	26.544	25.871	-41.663	MWD+IFR1+ MS
0	11.747	0	0	26.904	26.226	-41.653	MWD+IFR1+ MS
0	11.979	0	0	27.263	26.581	-41.718	MWD+IFR1+ MS
0	12.215	0	0	27.622	26.936	-41.857	MWD+IFR1+ MS
0	12.454	0	0	27.981	27.29	-41.918	MWD+IFR1+ MS

0	12.696	0	0	28.34	27.645	-41.901	MWD+IFR1+ MS
0	12.942	0	0	28.699	28	-41.958	MWD+IFR1+ MS
0	13.187	0	0	29.057	28.354	-42.084	MWD+IFR1+ MS
0	13.439	0	0	29.417	28.71	-42.066	MWD+IFR1+ MS
0	13.689	0	0	29.775	29.065	-42.184	MWD+IFR1+ MS
0	13.946	0	0	30.135	29.421	-42.232	MWD+IFR1+ MS
0	14.156	0	0	30.42	29.707	-42.258	MWD+IFR1+ MS
0	14.206	0	0	30.488	29.776	-42.26	MWD+IFR1+ MS
0	14.484	0	0	31.225	30.229	124.061	MWD+IFR1+ MS
0	14.89	0	0	32.766	30.647	112.443	MWD+IFR1+ MS
0	15.502	0	0	34.161	30.997	109.512	MWD+IFR1+ MS
0	16.362	0	0	35.35	31.311	108.323	MWD+IFR1+ MS
0	17.487	0	0	36.33	31.608	107.777	MWD+IFR1+ MS
0	17.658	0	0	36.485	31.731	107.751	MWD+IFR1+ MS
0	17.849	0	0	36.629	31.895	107.92	MWD+IFR1+ MS
0	18.897	0	0	37.034	32.163	108.945	MWD+IFR1+ MS
0	20.618	0	0	37.451	32.395	110.065	MWD+IFR1+ MS
0	22.417	0	0	37.712	32.601	111.011	MWD+IFR1+ MS
0	24.23	0	0	37.862	32.779	111.8	MWD+IFR1+ MS
0	26.004	0	0	37.916	32.93	112.477	MWD+IFR1+ MS
0	26.054	0	0	37.919	32.957	112.581	MWD+IFR1+ MS
0	26.186	0	0	37.938	33.041	112.826	MWD+IFR1+ MS
0	26.359	0	0	37.951	33.147	113.259	MWD+IFR1+ MS
0	26.554	0	0	37.979	33.281	113.771	MWD+IFR1+ MS
0	26.769	0	0	38.009	33.412	114.315	MWD+IFR1+ MS
0	27.007	0	0	38.032	33.564	115.074	MWD+IFR1+ MS
0	27.267	0	0	38.069	33.716	115.813	MWD+IFR1+ MS
0	27.545	0	0	38.11	33.877	116.663	MWD+IFR1+ MS
0	27.842	0	0	38.156	34.045	117.646	MWD+IFR1+ MS

0	28.158	0	0	38.207	34.223	118.755	MWD+IFR1+ MS
0	28.494	0	0	38.265	34.406	120.026	MWD+IFR1+ MS
0	28.56	0	0	38.285	34.442	120.204	MWD+IFR1+ MS
0	28.839	0	0	38.336	34.588	121.277	MWD+IFR1+ MS
0	29.208	0	0	38.406	34.771	122.787	MWD+IFR1+ MS
0	29.592	0	0	38.49	34.965	124.592	MWD+IFR1+ MS
0	29.993	0	0	38.587	35.157	126.377	MWD+IFR1+ MS
0	30.409	0	0	38.69	35.343	128.47	MWD+IFR1+ MS
0	30.84	0	0	38.819	35.54	130.756	MWD+IFR1+ MS
0	31.283	0	0	38.952	35.718	133.219	MWD+IFR1+ MS
0	31.733	0	0	39.103	35.888	-44.406	MWD+IFR1+ MS
0	32.202	0	0	39.271	36.053	-41.684	MWD+IFR1+ MS
0	32.68	0	0	39.466	36.214	-39.021	MWD+IFR1+ MS
0	33.181	0	0	39.672	36.361	-36.452	MWD+IFR1+ MS
0	33.69	0	0	39.907	36.502	-33.817	MWD+IFR1+ MS
0	34.191	0	0	40.154	36.629	-31.367	MWD+IFR1+ MS
0	34.728	0	0	40.42	36.746	-29.029	MWD+IFR1+ MS
0	35.256	0	0	40.715	36.855	-26.764	MWD+IFR1+ MS
0	35.805	0	0	41.018	36.953	-24.727	MWD+IFR1+ MS
0	36.359	0	0	41.337	37.044	-22.849	MWD+IFR1+ MS
0	36.919	0	0	41.664	37.137	-21.25	MWD+IFR1+ MS
0	37.483	0	0	42.014	37.214	-19.683	MWD+IFR1+ MS
0	38.066	0	0	42.376	37.286	-18.248	MWD+IFR1+ MS
0	38.652	0	0	42.743	37.363	-17.033	MWD+IFR1+ MS
0	39.243	0	0	43.121	37.425	-15.889	MWD+IFR1+ MS
0	39.837	0	0	43.521	37.496	-14.848	MWD+IFR1+ MS
0	40.435	0	0	43.92	37.563	-13.926	MWD+IFR1+ MS
0	41.049	0	0	44.329	37.615	-13.059	MWD+IFR1+ MS
0	41.665	0	0	44.748	37.678	-12.289	MWD+IFR1+ MS

0	42.285	0	0	45.166	37.737	-11.609	MWD+IFR1+ MS
0	42.919	0	0	45.602	37.795	-10.958	MWD+IFR1+ MS
0	43.543	0	0	46.046	37.852	-10.359	MWD+IFR1+ MS
0	44.181	0	0	46.488	37.906	-9.828	MWD+IFR1+ MS
0	44.822	0	0	46.947	37.961	-9.317	MWD+IFR1+ MS
0	45.475	0	0	47.403	38.013	-8.856	MWD+IFR1+ MS
0	46.119	0	0	47.866	38.064	-8.434	MWD+IFR1+ MS
0	46.776	0	0	48.335	38.128	-8.045	MWD+IFR1+ MS
0	47.434	0	0	48.811	38.177	-7.679	MWD+IFR1+ MS
0	48.104	0	0	49.293	38.226	-7.332	MWD+IFR1+ MS
0	48.765	0	0	49.771	38.287	-7.028	MWD+IFR1+ MS
0	49.437	0	0	50.264	38.334	-6.724	MWD+IFR1+ MS
0	50.11	0	0	50.763	38.394	-6.45	MWD+IFR1+ MS
0	50.784	0	0	51.258	38.453	-6.193	MWD+IFR1+ MS
0	51.468	0	0	51.758	38.499	-5.946	MWD+IFR1+ MS
0	52.144	0	0	52.263	38.557	-5.723	MWD+IFR1+ MS
0	52.83	0	0	52.772	38.615	-5.507	MWD+IFR1+ MS
0	53.516	0	0	53.287	38.672	-5.304	MWD+IFR1+ MS
0	54.213	0	0	53.806	38.729	-5.115	MWD+IFR1+ MS
0	54.9	0	0	54.33	38.785	-4.933	MWD+IFR1+ MS
0	55.597	0	0	54.848	38.841	-4.763	MWD+IFR1+ MS
0	56.294	0	0	55.38	38.897	-4.599	MWD+IFR1+ MS
0	56.991	0	0	55.908	38.953	-4.446	MWD+IFR1+ MS
0	57.697	0	0	56.448	39.021	-4.3	MWD+IFR1+ MS
0	58.404	0	0	56.983	39.076	-4.162	MWD+IFR1+ MS
0	59.11	0	0	57.522	39.131	-4.026	MWD+IFR1+ MS
0	59.816	0	0	58.065	39.198	-3.903	MWD+IFR1+ MS
0	60.523	0	0	58.611	39.252	-3.782	MWD+IFR1+ MS
0	61.237	0	0	59.152	39.319	-3.668	MWD+IFR1+ MS

0	61.952	0	0	59.706	39.386	-3.558	MWD+IFR1+ MS
0	62.666	0	0	60.254	39.439	-3.454	MWD+IFR1+ MS
0	63.388	0	0	60.814	39.506	-3.353	MWD+IFR1+ MS
0	64.101	0	0	61.369	39.571	-3.257	MWD+IFR1+ MS
0	64.823	0	0	61.927	39.637	-3.165	MWD+IFR1+ MS
0	65.544	0	0	62.488	39.703	-3.074	MWD+IFR1+ MS
0	66.272	0	0	63.052	39.768	-2.99	MWD+IFR1+ MS
0	66.993	0	0	63.619	39.833	-2.906	MWD+IFR1+ MS
0	67.75	0	0	64.212	39.898	-2.825	MWD+IFR1+ MS

**DRILLING PLAN: NMOCD COMPLIANCE
(Supplement to NMOCD 3160-3)**

XTO Energy Inc.
Remuda North 25 State 703H
Projected TD: 16804' MD / 9000' TVD
SHL: 2370' FSL & 2039' FWL , Section 25, T23S, R29E
BHL: 200' FNL & 2090' FWL , Section 24, T23S, 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
Rustler	72'	Water
Top of Salt	420'	Water
Base of Salt	3078'	Water
Delaware	3288'	Water
Brushy Canyon	5733'	Water/Oil/Gas
Bone Spring	6995'	Water
1st Bone Spring Ss	8077'	Water/Oil/Gas
2nd Bone Spring Ss	8878'	Water/Oil/Gas
Target/Land Curve	9000'	Water/Oil/Gas

*** Hydrocarbons @ Brushy Canyon

*** Groundwater depth 40' (per NM State Engineers Office).

No other formations are expected to yield oil, gas or fresh water in measurable volumes. The surface fresh water sands will be protected by setting 11.75 inch casing @ 395' (25' 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 3178' and cementing to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 16804 MD/TD and 5.5 inch production casing will be set at TD and cemented back up to the Brushy Canyon (estimated TOC 6233 feet) with a secondary bradenhead squeeze after frac operations are complete to 500' inside the intermediate casing shoe (estimated TOC 2678) feet.

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
14.75	0' – 395'	11.75	54	J-55	BTC	New	3.74	11.86	39.85
8.75	0' – 3178'	7.625	29.7	RY P-110	Flush Joint	New	4.63	3.24	5.91
6.75	0' – 3078'	5.5	20	RY P-110	Semi-Premium	New	1.05	8.06	2.67
6.75	3078' - 16804'	5.5	20	RY P-110	Semi-Flush	New	1.05	2.76	2.67

- XTO requests the option to utilize a spudder rig (Atlas Copco RD20 or Equivalent) to set and cement surface casing per this Sundry
- XTO requests to not utilize centralizers in the curve and lateral
- 7.625 Collapse analyzed using 50% evacuation based on regional experience.
- 5.5 Tension calculated using vertical hanging weight plus the lateral weight multiplied by a friction factor of 0.35
- Test on Casing will be limited to 70% burst of the casing or 1500 psi, whichever is less
- XTO requests the option to use 5" BTC Float equipment for the the production casing

Wellhead:

Permanent Wellhead – Multibowl System

A. Starting Head: 13-5/8" 10M top flange x 11-3/4" bottom

B. Tubing Head: 13-5/8" 10M bottom flange x 7-1/16" 15M top flange

- Wellhead will be installed by manufacturer's representatives.
- Manufacturer will monitor welding process to ensure appropriate temperature of seal.
- Operator will test the 7-5/8" casing per NMOCD Onshore Order 2
- Wellhead Manufacturer representative will not be present for BOP test plug installation

4. Cement Program

Surface Casing: 11.75, 54 New BTC, J-55 casing to be set at +/- 395'

Tail: 320 sxs Class C + 2% CaCl (mixed at 14.8 ppg, 1.33 ft³/sx, 6.39 gal/sx water)

Top of Cement: Surface

Compressives: 12-hr = 900 psi 24 hr = 1500 psi

Intermediate Casing: 7.625, 29.7 New Flush Joint, RY P-110 casing to be set at +/- 3178'

Lead: 320 sxs Class C (mixed at 12.9 ppg, 1.65 ft³/sx, 10.13 gal/sx water)

Top of Cement: Surface

Compressives: 12-hr = 900 psi 24 hr = 1500 psi

Production Casing: 5.5, 20 New Semi-Flush, RY P-110 casing to be set at +/- 16804'

1st Stage

Optional Lead: 50 sxs Class C (mixed at 10.5 ppg, 2 ft³/sx, 15.59 gal/sx water)

Top of Cement: 7,281

Tail: 650 sxs Class C (mixed at 14.8 ppg, 1.39 ft³/sx, 6.39 gal/sx water)

TOC: Brushy Canyon @ 6233

Compressives: 12-hr = 900 psi 24 hr = 1150 psi

2nd Stage

Lead: 0 sxs Class C (mixed at 12.9 ppg, 2 ft³/sx, 9.61 gal/sx water)

Tail: 170 sxs Class C (mixed at 14.8 ppg, 2 ft³/sx, 6.39 gal/sx water)

Top of Cement: 2678

Compressives: 12-hr = 900 psi 24 hr = 1150 psi

XTO requests to pump a two stage cement job on the 5-1/2" production casing string with the first stage being pumped conventionally with the calculated top of cement at the Brushy Canyon (6233') and the second stage performed after frac operations are complete as a bradenhead squeeze with planned cement from the Brushy Canyon to 500' inside the previous casing shoe (2678').

XTO will report the volume of fluid (limited to 5 bbls) used to flush production casing valves following backside cementing procedures.

XTO requests the option to conduct the bradenhead squeeze offline as per standard approval 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.

XTO requests the option to offline cement and remediate (if needed) surface, intermediate, and production casing strings where batch drilling is approved and if unplanned remediation is needed. XTO will ensure well is static with no pressure on the csg annulus, as with all other casing strings where batch drilling operations occur before moving off the rig. The TA cap will also be installed when applicable per Cactus procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops. Offline cement operations will then be conducted after the rig is moved off the current well to the next well in the batch sequence.

5. Pressure Control Equipment

Once the permanent WH is installed on the 11.75 casing, the blow out preventer equipment (BOP) will consist of a 13-5/8" minimum 3M Hydril and a 13-5/8" minimum 3M Double Ram BOP. MASP should not exceed 2045 psi. In any instance where 10M BOP is required by NMOCD, XTO requests a variance to utilize 5M annular with 10M ram preventers (a common BOP configuration, which allows use of 10M rams in unlikely event that pressures exceed 5M).

All BOP testing will be done by an independent service company. Annular pressure tests will be limited to 50% of the working pressure. When nipping up on the 11.75, 3M bradenhead and flange, the BOP test will be limited to 3000 psi. When nipping up on the 7.625, the BOP will be tested to a minimum of 3000 psi. All BOP tests will include a low pressure test as per NMOCD regulations. The 3M 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 NMOCD 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 NMOCD 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' - 395'	14.75	FW/Native	8.5-9	35-40	NC
395' - 3178'	8.75	Brine	10-10.5	30-32	NC
3178' - 16804'	6.75	OBM	8.6-9.6	50-60	NC - 20

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

Spud with fresh water/native mud. Drill out from under 11-3/4" surface casing with brine solution. A 10.0 ppg - 10.5 ppg brine mud will be used while drilling through the salt formation. Use fibrous materials as needed to control seepage and lost circulation. Pump viscous sweeps as needed for hole cleaning. Pump speed will be recorded on a daily drilling report after mudding up. A Pason or Totco will be used to detect changes in loss or gain of mud volume. A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system.

7. Auxiliary Well Control and Monitoring Equipment

- A. A Kelly cock will be in the drill string at all times.
- B. A full opening drill pipe stabbing valve having appropriate connections will be on the rig floor at all times.
- C. H2S monitors will be on location when drilling below the 11.75 casing.

8. Logging, Coring and Testing Program

Mud Logger: Mud Logging Unit (2 man) below intermediate casing.

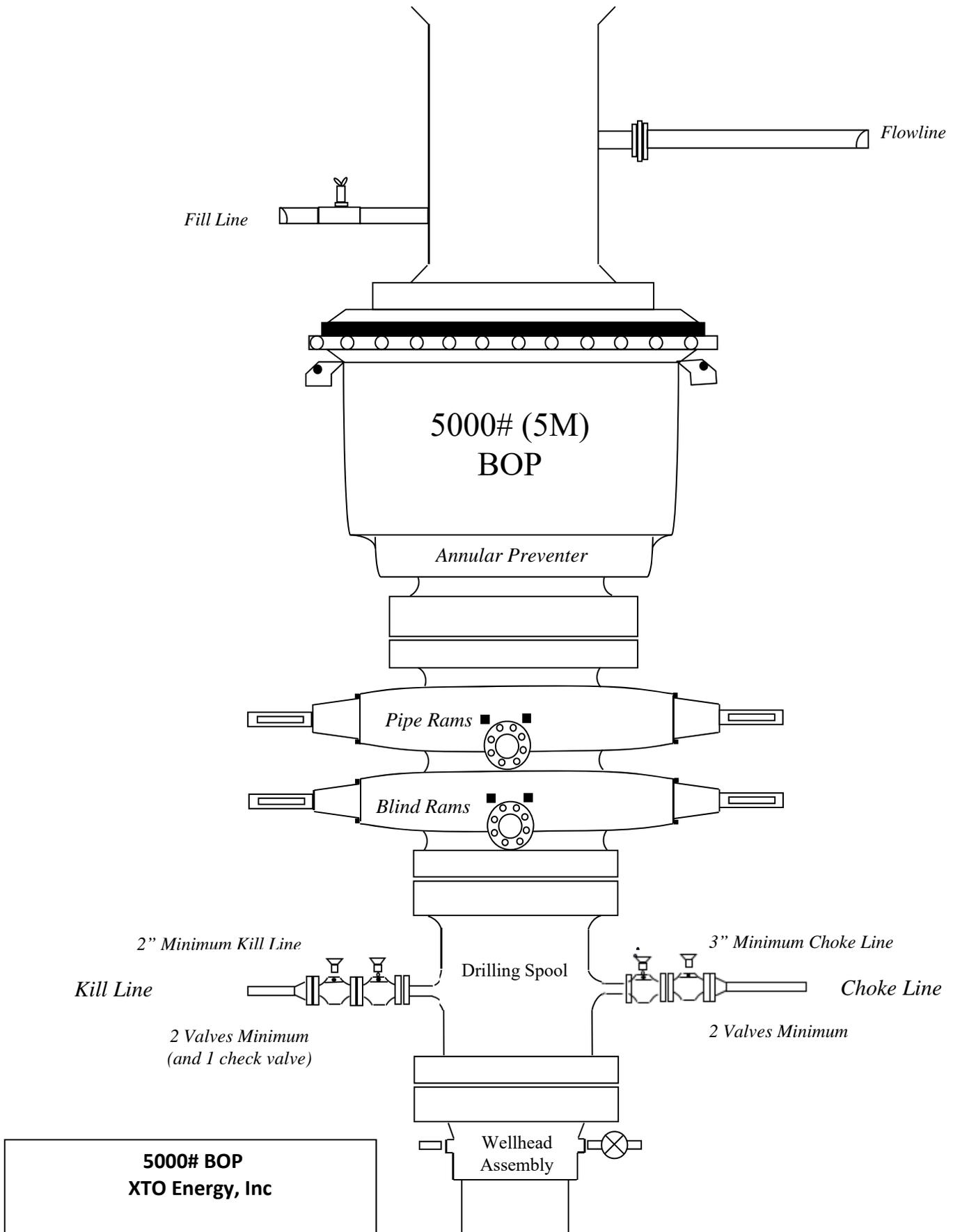
Open hole logging will not be done on this well.

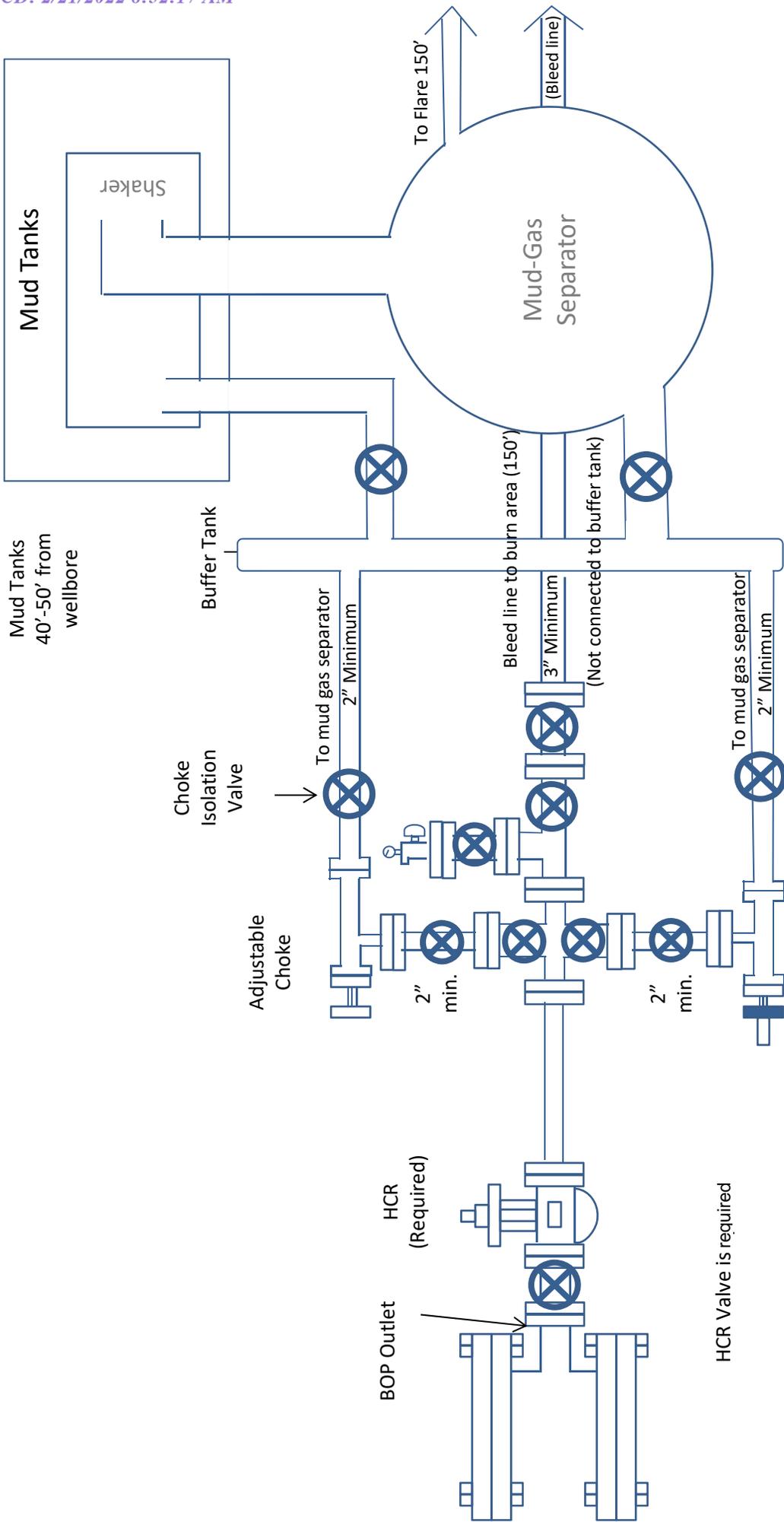
9. Abnormal Pressures and Temperatures / Potential Hazards

None Anticipated. BHT of 155 to 175 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 4025 psi.

10. Anticipated Starting Date and Duration of Operations

Anticipated spud date will be after NMOCD approval. Move in operations and drilling is expected to take 40 days.





5M Choke Manifold Diagram XTO

Drilling Operations Choke Manifold 5M Service

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

Description of Operations:

1. Spudder rig will move in to drill the surface hole and pre-set surface casing on the well.
 - a. After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (OnShore Order 2, all COAs and NMOCD regulations).
 - b. The spudder rig will utilize fresh water-based mud to drill the surface hole to TD. Solids control will be handled entirely on a closed loop basis. No earth pits will be used.
2. The wellhead will be installed and tested as soon as the surface casing is cut off and WOC time has been reached.
3. A blind flange at the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with needle valves installed on two wing valves.
 - a. A means for intervention will be maintained while the drilling rig is not over the well.
4. Spudder rig operations are expected to take 2-3 days per well on the pad.
5. The BLM will be contacted and notified 24 hours prior to commencing spudder rig operations.
6. Drilling Operations will begin with a larger rig and a BOP stack equal to or greater than the pressure rating that was permitted will be nipped up and tested on the wellhead before drilling operations resume on each well.
 - a. The larger rig will move back onto the location within 180 days from the point at which the wells are secured and the spudder rig is moved off location.
 - b. The BLM will be notified 24 hours before the larger rig moves back on the pre-set locations
7. XTO will have supervision on the rig to ensure compliance with all BLM and NMOCD regulations and to oversee operations.
8. Once the rig is removed, XTO will secure the wellhead area by placing a guard rail around the cellar area.



HYDROGEN SULFIDE (H₂S) CONTINGENCY PLAN

Assumed 100 ppm ROE = 3000'

100 ppm H₂S concentration shall trigger activation of this plan.

Emergency Procedures

In the event of a release of gas containing H₂S, the first responder(s) must

- Isolate the area and prevent entry by other persons into the 100 ppm ROE.
- Evacuate any public places encompassed by the 100 ppm ROE.
- Be equipped with H₂S monitors and air packs in order to control the release.
- Use the "buddy system" to ensure no injuries occur during the response
- Take precautions to avoid personal injury during this operation.
- Contact operator and/or local officials to aid in operation. See list of phone numbers attached.
- Have received training in the
 - o Detection of H₂S, and
 - o Measures for protection against the gas,
 - o Equipment used for protection and emergency response.

Ignition of Gas source

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO₂). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally, the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever this is an ignition of the gas.

Characteristics of H₂S and SO₂

Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H ₂ S	1.189 Air = 1	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO ₂	2.21 Air = 1	2 ppm	N/A	1000 ppm

Contacting Authorities

All XTO location personnel must liaison with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available including directions to site. The following call list of essential and potential responders has been prepared for use during a release. (Operator Name)'s response must be in coordination with the State of New Mexico's "Hazardous Materials Emergency Response Plan" (HMER).

CARLSBAD OFFICE – EDDY & LEA COUNTIES

3104 E. Greene St., Carlsbad, NM 88220
Carlsbad, NM 575-887-7329

XTO PERSONNEL:

Kendall Decker, Drilling Manager 903-521-6477
Milton Turman, Drilling Superintendent 817-524-5107
Jeff Raines, Construction Foreman 432-557-3159
Toady Sanders, EH & S Manager 903-520-1601
Wes McSpadden, Production Foreman 575-441-1147

SHERIFF DEPARTMENTS:

Eddy County 575-887-7551
Lea County 575-396-3611

NEW MEXICO STATE POLICE:

575-392-5588

FIRE DEPARTMENTS:

911
Carlsbad 575-885-2111
Eunice 575-394-2111
Hobbs 575-397-9308
Jal 575-395-2221
Lovington 575-396-2359

HOSPITALS:

911
Carlsbad Medical Emergency 575-885-2111
Eunice Medical Emergency 575-394-2112
Hobbs Medical Emergency 575-397-9308
Jal Medical Emergency 575-395-2221
Lovington Medical Emergency 575-396-2359

AGENT NOTIFICATIONS:

For Lea County:

Bureau of Land Management – Hobbs 575-393-3612
New Mexico Oil Conservation Division – Hobbs 575-393-6161

For Eddy County:

Bureau of Land Management - Carlsbad 575-234-5972
New Mexico Oil Conservation Division - Artesia 575-748-1283