

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 296979

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 30-015-48543
4. Property Code 317788	5. Property Name REMUDA SOUTH 25 STATE	6. Well No. 708H

7. Surface Location

UL - Lot H	Section 25	Township 23S	Range 29E	Lot Idn H	Feet From 2385	N/S Line N	Feet From 660	E/W Line E	County Eddy
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8. Proposed Bottom Hole Location

UL - Lot M	Section 31	Township 23S	Range 30E	Lot Idn 4	Feet From 200	N/S Line S	Feet From 250	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 3096
16. Multiple N	17. Proposed Depth 16980	18. Formation Bone Spring	19. Contractor	20. Spud Date 9/8/2021
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	17.5	13.375	54.5	319	320	0
Int1	12.25	9.625	40	3219	1440	0
Int2	8.75	7.625	29.7	7650	630	0
Prod	6.75	5	18	16980	840	7150

Casing/Cement Program: Additional Comments

The well will include a tapered string. See attached drilling program for additional casing/cmt information associated with the well.

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	3000	3000	Cameron

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.	OIL CONSERVATION DIVISION	
Signature:		
Printed Name: Electronically filed by Tiffany Yancey	Approved By: Kurt Simmons	
Title: Production Analyst	Title: Petroleum Specialist - A	
Email Address: tiffany.yancey@exxonmobil.com	Approved Date: 6/21/2021	Expiration Date: 6/21/2023
Date: 6/12/2021	Phone: 432-215-8939	Conditions of Approval Attached

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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-	² Pool Code 96526	³ Pool Name Forty-Niner Ridge; Bone Spring, West
⁴ Property Code	⁵ Property Name REMUDA SOUTH 25 STATE	⁶ Well Number 708H
⁷ OGRID No. 005380	⁸ Operator Name XTO ENERGY, INC.	⁹ Elevation 3,096'

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
H	25	23 S	29 E		2,385	NORTH	660	EAST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
4	31	23 S	30 E		200	SOUTH	250	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.

<p>16</p> <p>SEC. 25 T23S R29E</p> <p>SEC. 30</p> <p>SEC. 31 T23S R30E</p> <p>SEC. 36</p> <p>SEC. 1 T24S R29E</p> <p>SEC. 6</p> <p>LOT ACREAGE TABLE</p> <table border="1"> <tr> <td>SEC. 30</td> <td>LOT 3 - 40.39 ACRES</td> </tr> <tr> <td>LOT 4 - 40.49 ACRES</td> <td></td> </tr> <tr> <td>SEC. 31</td> <td>LOT 1 - 40.58 ACRES</td> </tr> <tr> <td>LOT 2 - 40.65 ACRES</td> <td></td> </tr> <tr> <td>LOT 3 - 40.71 ACRES</td> <td></td> </tr> <tr> <td>LOT 4 - 40.78 ACRES</td> <td></td> </tr> </table> <p>GRID AZ.=123°15'28" HORIZ. DIST.=1,090.91'</p> <p>GRID AZ.=179°44'38" HORIZ. DIST.=7,441.51'</p> <p>S.H.L. 2,385'</p> <p>F.T.P. 660'</p> <p>250'</p> <p>2,325'</p> <p>330'</p> <p>250'</p> <p>250'</p> <p>200'</p> <p>330'</p> <p>B.H.L.</p> <p>LOT 3</p> <p>LOT 4</p> <p>LOT 1</p> <p>LOT 2</p> <p>LOT 3</p> <p>LOT 4</p>	SEC. 30	LOT 3 - 40.39 ACRES	LOT 4 - 40.49 ACRES		SEC. 31	LOT 1 - 40.58 ACRES	LOT 2 - 40.65 ACRES		LOT 3 - 40.71 ACRES		LOT 4 - 40.78 ACRES		<p>SHL (NAD83 NME)</p> <p>Y = 464,594.1</p> <p>X = 665,458.5</p> <p>LAT. = 32.276605 °N</p> <p>LONG. = 103.931719 °W</p> <p>FTP (NAD83 NME)</p> <p>Y = 463,995.8</p> <p>X = 666,370.7</p> <p>LAT. = 32.274951 °N</p> <p>LONG. = 103.928774 °W</p> <p>SHL (NAD27 NME)</p> <p>Y = 464,534.1</p> <p>X = 624,275.7</p> <p>LAT. = 32.276481 °N</p> <p>LONG. = 103.931227 °W</p> <p>FTP (NAD27 NME)</p> <p>Y = 463,935.9</p> <p>X = 625,187.8</p> <p>LAT. = 32.274827 °N</p> <p>LONG. = 103.928283 °W</p> <p>LTP (NAD83 NME)</p> <p>Y = 456,684.4</p> <p>X = 666,403.4</p> <p>LAT. = 32.254853 °N</p> <p>LONG. = 103.928758 °W</p> <p>BHL (NAD83 NME)</p> <p>Y = 456,554.4</p> <p>X = 666,404.0</p> <p>LAT. = 32.254495 °N</p> <p>LONG. = 103.928758 °W</p> <p>LTP (NAD27 NME)</p> <p>Y = 456,624.7</p> <p>X = 625,220.3</p> <p>LAT. = 32.254729 °N</p> <p>LONG. = 103.928267 °W</p> <p>BHL (NAD27 NME)</p> <p>Y = 456,494.7</p> <p>X = 625,220.9</p> <p>LAT. = 32.254371 °N</p> <p>LONG. = 103.928267 °W</p> <p>CORNER COORDINATES (NAD83 NME)</p> <p>A - Y = 464,317.7 N , X = 666,119.3 E</p> <p>B - Y = 461,669.9 N , X = 666,130.8 E</p> <p>C - Y = 459,009.7 N , X = 666,144.1 E</p> <p>D - Y = 456,352.9 N , X = 666,154.8 E</p> <p>E - Y = 464,323.5 N , X = 667,468.9 E</p> <p>F - Y = 461,674.8 N , X = 667,485.7 E</p> <p>G - Y = 459,016.5 N , X = 667,503.8 E</p> <p>H - Y = 456,361.0 N , X = 667,520.7 E</p> <p>CORNER COORDINATES (NAD27 NME)</p> <p>A - Y = 464,257.8 N , X = 624,936.5 E</p> <p>B - Y = 461,610.1 N , X = 624,947.9 E</p> <p>C - Y = 458,949.9 N , X = 624,961.1 E</p> <p>D - Y = 456,293.2 N , X = 624,971.7 E</p> <p>E - Y = 464,263.5 N , X = 626,286.1 E</p> <p>F - Y = 461,615.0 N , X = 626,302.8 E</p> <p>G - Y = 458,956.7 N , X = 626,320.8 E</p> <p>H - Y = 456,301.3 N , X = 626,337.5 E</p>	<p>17 OPERATOR CERTIFICATION</p> <p>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.</p> <p><i>Cassie Evans</i> 06/05/21 Signature Date</p> <p>Cassie Evans Printed Name</p> <p>cassie.evans@exxonmobil.com E-mail Address</p> <p>18 SURVEYOR CERTIFICATION</p> <p>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.</p> <p>05-20-2021 Date of Survey</p> <p>Signature and Seal of Professional Surveyor:</p> <p><i>Mark Dillon Harp</i></p> <p>MARK DILLON HARP 23786 Certificate Number LM 2019010061</p>
SEC. 30	LOT 3 - 40.39 ACRES													
LOT 4 - 40.49 ACRES														
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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

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Form APD Comments

Permit 296979

PERMIT COMMENTS

Operator Name and Address: XTO ENERGY, INC [5380] 6401 Holiday Hill Road Midland, TX 79707	API Number: 30-015-48543
	Well: REMUDA SOUTH 25 STATE #708H

Created By	Comment	Comment Date
cevens	The well will include a tapered string. See attached drilling program for additional casing/cmt information associated with the well.	6/7/2021
kpickford	This APD has been rejected due to being an incomplete submission. The submission is missing the "Natural Gas Management Plan" which has replaced the "Gas Capture Plan". See OCD Notice "Waste Rule C129 NGMP Final Forms" dated May 21, 2021 for further details.	6/10/2021

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Form APD Conditions

Permit 296979

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: XTO ENERGY, INC [5380] 6401 Holiday Hill Road Midland, TX 79707	API Number: 30-015-48543
	Well: REMUDA SOUTH 25 STATE #708H

OCD Reviewer	Condition
ksimmons	Notify OCD 24 hours prior to casing & cement
ksimmons	Will require a File As Drilled C-102 and a Directional Survey with the C-104
ksimmons	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
kpickford	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud

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

XTO Energy Inc.
Remuda South 25 State 708H
Projected TD: 16980' MD / 9216' TVD
SHL: 2385' FNL & 660' FEL , Section 25, T23S, R29E
BHL: 200' FSL & 250' FWL , Section 31, T23S, R30E
Eddy County, NM

1. Geologic Name of Surface Formation

A. Quaternary

2. Estimated Tops of Geological Markers & Depths of Anticipated Fresh Water, Oil or Gas

Formation	Well Depth (TVD)	Water/Oil/Gas
Rustler	69'	Water
Salado	269'	Water
Top of Salt	550'	Water
Base of Salt	3119'	Water
Delaware	3336'	Water
Brushy Canyon	5778'	Water/Oil/Gas
Bone Spring	7048'	Water
1st Bone Spring Ss	8095'	Water/Oil/Gas
2nd Bone Spring Ss	8936'	Water/Oil/Gas
Target/Land Curve	9226'	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 13.375 inch casing @ 319' (50' below top of Salado) and circulating cement back to surface. The salt will be isolated by setting 9.625 inch casing at 3219' and circulating cement to surface. The second intermediate will isolate from the salt down to the next casing seat by setting 7.625 inch casing at 7650' and cemented to 200' inside the previous casing string. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 16980 MD/TD and 5.5 x 5 inch production casing will be set at TD and cemented back up to 2nd intermediate (estimated TOC 7150 feet) per Potash regulations.

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
17.5	0' – 319'	13.375	54.5	J-55	BTC	New	2.84	8.11	49.06
12.25	0' – 3219'	9.625	40	J-55	BTC	New	1.92	2.62	4.89
8.75	0' – 3319'	7.625	29.7	RY P-110	Flush Joint	New	3.42	3.30	2.46
8.75	3319' – 7650'	7.625	29.7	HC L-80	Flush Joint	New	2.49	2.77	3.16
6.75	0' – 7550'	5.5	20	RY P-110	Semi-Premium	New	1.05	2.83	2.65
6.75	7550' - 9000'	5.5	23	RY P-110	Semi-Flush	New	1.21	3.11	6.65
6.75	9000' - 16980'	5	18	RY P-110	Semi-Premium	New	1.16	2.81	10.04

- XTO requests the option to utilize a spudder rig (Atlas Copco RD20 or Equivalent) to set and cement surface and intermediate 1 casing per this Sundry
- XTO requests to not utilize centralizers in the curve and lateral
- 9.625 Collapse analyzed using 50% evacuation based on regional experience.
- 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 2M annular & 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 13-3/8" SOW 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 BLM Onshore Order 2
- Wellhead Manufacturer representative will not be present for BOP test plug installation

4. Cement Program

Surface Casing: 13.375, 54.5 New BTC, J-55 casing to be set at +/- 319'

Tail: 320 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 = 250 psi 24 hr = 500 psi

Due to the high probability of not getting cement to surface during conventional top-out jobs in the area, ~10-20 ppb gravel will be added on the backside of the 1" to get cement to surface, if required.

1st Intermediate Casing: 9.625, 40 New BTC, J-55 casing to be set at +/- 3219'

Lead: 1310 sxs Class C (mixed at 12.9 ppg, 1.39 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 +/- 7650'

1st Stage

Optional Lead: 160 sxs Class C (mixed at 10.5 ppg, 2.77 ft³/sx, 15.59 gal/sx water)
 TOC: 2719
 Tail: 170 sxs Class C (mixed at 14.8 ppg, 1.35 ft³/sx, 6.39 gal/sx water)
 TOC: Brushy Canyon @ 5778
 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: 300 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 (5778') 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 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, 18 New Semi-Premium, RY P-110 casing to be set at +/- 16980'

Lead: 60 sxs Class C (mixed at 11.5 ppg, 2.69 ft³/sx, 15.00 gal/sx water) Top of Cement: 7150 feet
 Tail: 780 sxs Class C (mixed at 13.2 ppg, 1.51 ft³/sx, 8.38 gal/sx water) Top of Cement: 8739 feet
 Compressives: 12-hr = 1375 psi 24 hr = 2285 psi

XTO requests the option to offline cement and remediate (if needed) all 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 13.375 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 2768 psi. In any instance where 10M BOP is required by BLM, XTO requests a variance to utilize 5M annular with 10M ram preventers (a common BOP configuration, which allows use of 10M rams in unlikely event that pressures exceed 5M).

All BOP testing will be done by an independent service company. Annular pressure tests will be limited to 50% of the working pressure. When nipping up on the 13.375, 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 BLM 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 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' - 319'	17.5	FW/Native	8.4-8.9	35-40	NC
319' - 3219'	12.25	Brine	10-10.5	30-32	NC
3219' to 7650'	8.75	FW / Cut Brine	9.4-9.9	30-32	NC
7650' to 16980'	6.75	OBM	10-10.5	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 13-3/8" surface casing with brine solution. A 9.8 ppg - 10.2 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 13.375 casing.

8. Logging, Coring and Testing Program

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

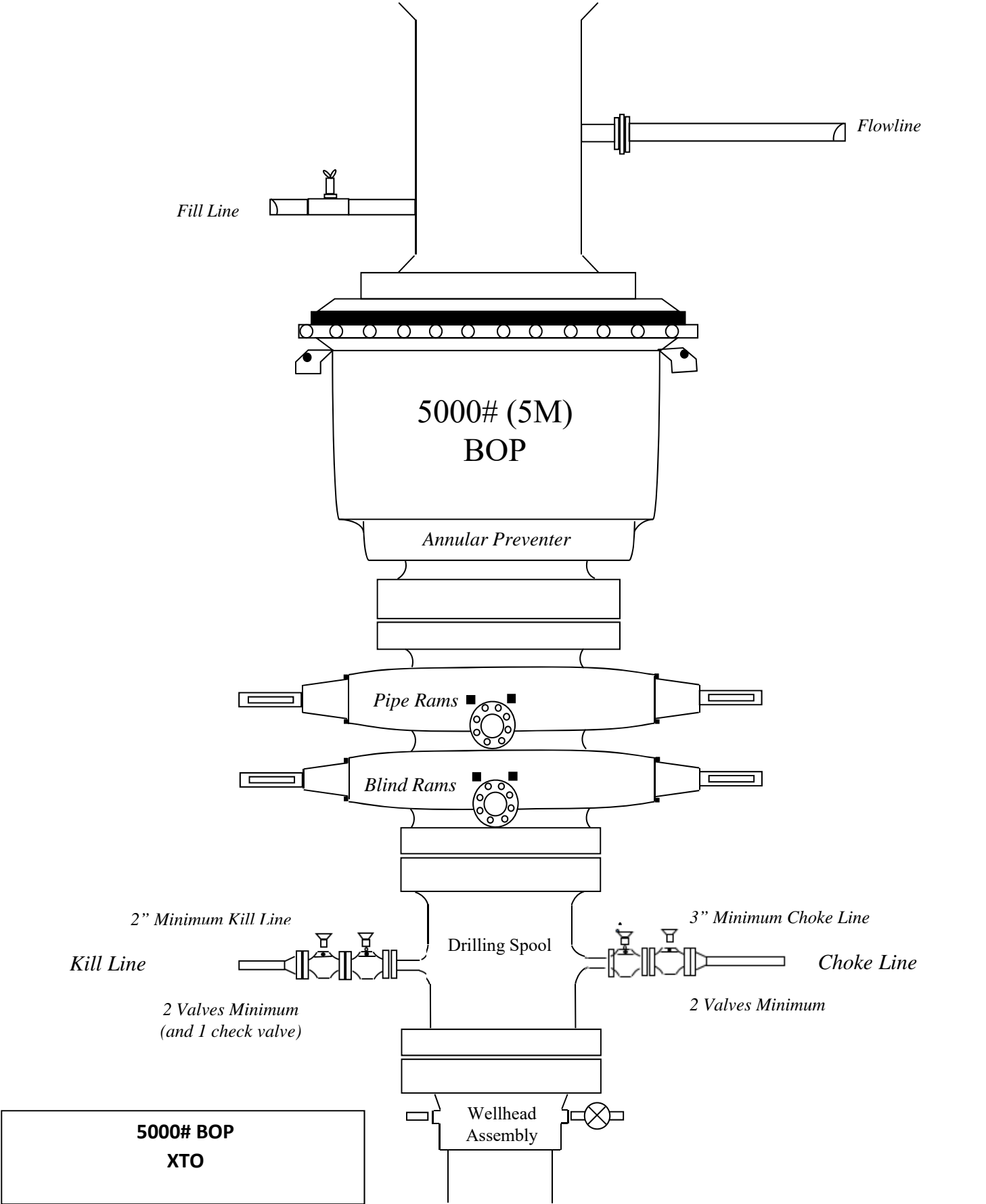
Open hole logging will not be done on this well.

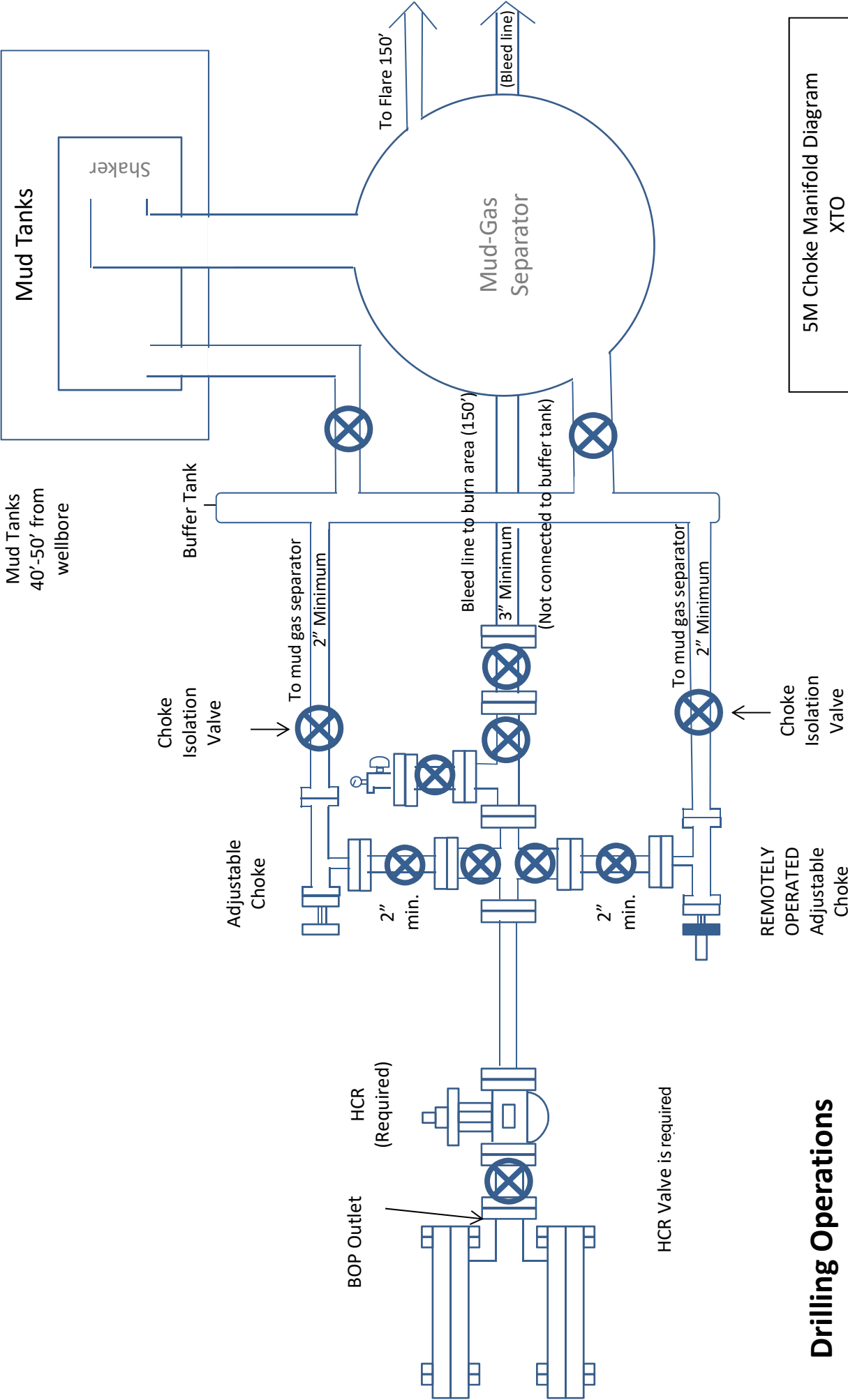
9. Abnormal Pressures and Temperatures / Potential Hazards

None Anticipated. BHT of 160 to 180 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 4798 psi.

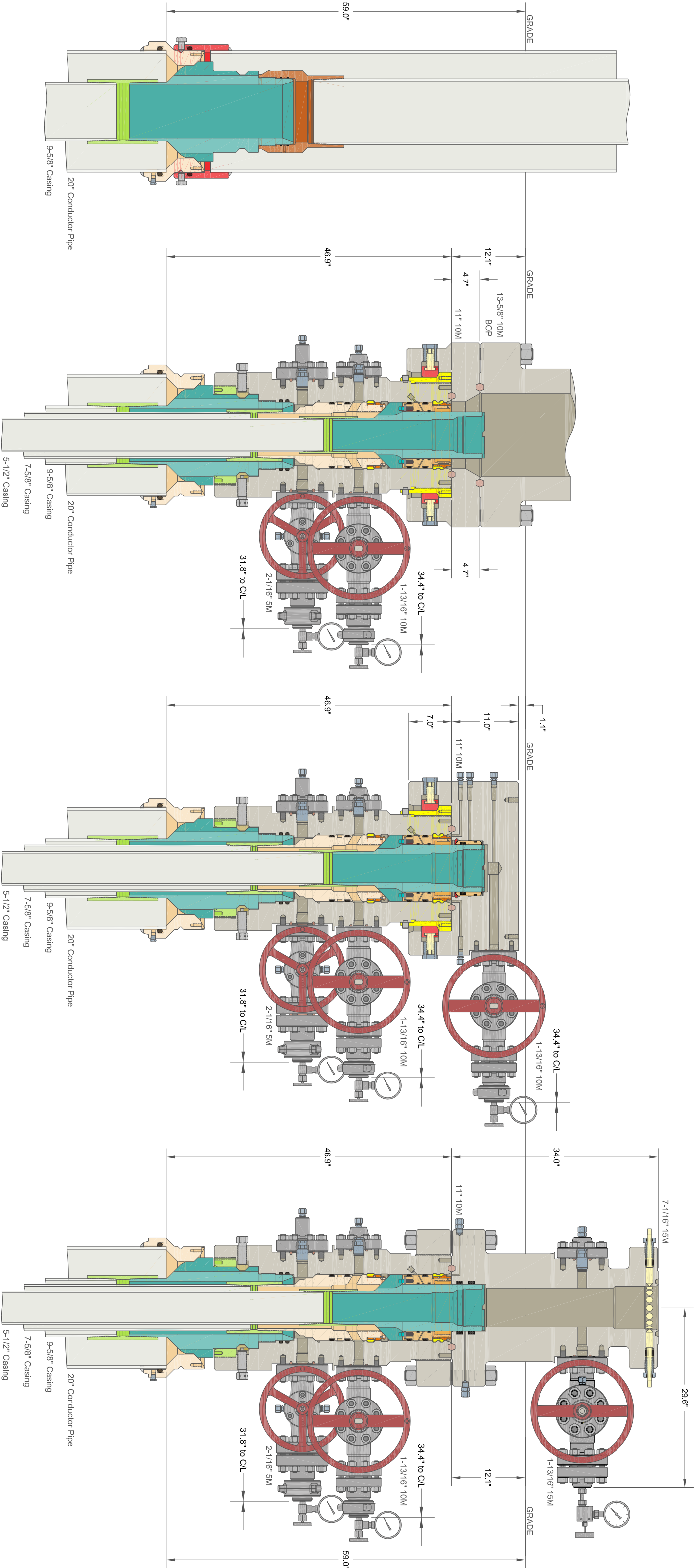
10. Anticipated Starting Date and Duration of Operations

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





**Drilling Operations
Choke Manifold
5M Service**



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CACTUS WELLHEAD LLC			ALL DIMENSIONS APPROXIMATE		
20" x 9-5/8" x 7-5/8" x 5-1/2" MBU-T-CFL-R-DBLO Wellhead With 1 1" 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			XTO ENERGY INC		
			ICARUS PAD		
			DRAWN	DLE	18JAN21
			APPRV		
			DRAWING NO.	HBE0000479	

Well Plan Report - Remuda 708H

Measured
Depth: 16980.14 ft

TVD RKB: 9216.00 ft

Location

Cartographic Reference System: New Mexico East - NAD 27

Northing: 464534.10 ft

Easting: 624275.70 ft

RKB: 3126.00 ft

Ground Level: 3096.00 ft

North Reference: Grid

Convergence Angle: 0.21 Deg

Site: Remuda S-25 State

705H-709H

Slot: Remuda

708H

Plan Sections		Remuda 708H							
Measured Depth (ft)	Inclination (Deg)	Azimuth (Deg)	TVD RKB (ft)	Y Offset (ft)	X Offset (ft)	Build Rate (Deg/100ft)	Turn Rate (Deg/100ft)	Dogleg Rate (Deg/100ft)	Target
0	0	0	0	0	0	0	0	0	
3700	0	0	3700	0	0	0	0	0	
4100	8	130	4098.7	-17.92	21.36	2	0	2	
5100	8	130	5088.97	-107.38	127.97	0	0	0	
5448.11	10.89	90.18	5432.68	-123.07	179.48	0.83	-11.44	2	
8738.91	10.89	90.18	8664.19	-124.97	801.27	0	0	0	
9638.86	90.08	179.74	9226	-698.2	912.1	8.8	9.95	10 FTP 4	
16980.14	90.08	179.74	9216	-8039.4	945.2	0	0	0 BHL 4	

Position Uncertainty		Remuda 708H												
Measured			TVD	Highside	Lateral		Vertical		Magnitude		Semi-major	Semi-minor	Semi-minor	Tool
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)	(ft)	(°)
0	0	0	0	0	0	0	0	2.297	0	0	0	0	0	MWD+IFR1+MS
100	0	0	100	0.468	0	0.468	0	2.299	0	0	0.556	0.358	135	MWD+IFR1+MS
200	0	0	200	0.983	0	0.983	0	2.307	0	0	1.191	0.717	135	MWD+IFR1+MS
300	0	0	300	1.403	0	1.403	0	2.321	0	0	1.668	1.075	135	MWD+IFR1+MS
400	0	0	400	1.797	0	1.797	0	2.34	0	0	2.099	1.434	135	MWD+IFR1+MS
500	0	0	500	2.179	0	2.179	0	2.364	0	0	2.507	1.792	135	MWD+IFR1+MS
600	0	0	600	2.554	0	2.554	0	2.394	0	0	2.902	2.151	135	MWD+IFR1+MS
700	0	0	700	2.925	0	2.925	0	2.428	0	0	3.289	2.509	135	MWD+IFR1+MS
800	0	0	800	3.293	0	3.293	0	2.467	0	0	3.669	2.868	135	MWD+IFR1+MS
900	0	0	900	3.659	0	3.659	0	2.511	0	0	4.046	3.226	135	MWD+IFR1+MS
1000	0	0	1000	4.024	0	4.024	0	2.56	0	0	4.42	3.585	135	MWD+IFR1+MS
1100	0	0	1100	4.388	0	4.388	0	2.613	0	0	4.791	3.943	135	MWD+IFR1+MS
1200	0	0	1200	4.751	0	4.751	0	2.67	0	0	5.161	4.302	135	MWD+IFR1+MS

1300	0	0	1300	5.113	0	5.113	0	2.731	0	0	5.529	4.66	135	MWD+IFR1+MS
1400	0	0	1400	5.475	0	5.475	0	2.797	0	0	5.896	5.019	135	MWD+IFR1+MS
1500	0	0	1500	5.836	0	5.836	0	2.866	0	0	6.262	5.377	135	MWD+IFR1+MS
1600	0	0	1600	6.197	0	6.197	0	2.939	0	0	6.627	5.736	135	MWD+IFR1+MS
1700	0	0	1700	6.558	0	6.558	0	3.016	0	0	6.992	6.094	135	MWD+IFR1+MS
1800	0	0	1800	6.919	0	6.919	0	3.096	0	0	7.356	6.452	135	MWD+IFR1+MS
1900	0	0	1900	7.279	0	7.279	0	3.179	0	0	7.719	6.811	135	MWD+IFR1+MS
2000	0	0	2000	7.639	0	7.639	0	3.266	0	0	8.082	7.169	135	MWD+IFR1+MS
2100	0	0	2100	7.999	0	7.999	0	3.355	0	0	8.444	7.528	135	MWD+IFR1+MS
2200	0	0	2200	8.359	0	8.359	0	3.448	0	0	8.807	7.886	135	MWD+IFR1+MS
2300	0	0	2300	8.719	0	8.719	0	3.544	0	0	9.169	8.245	135	MWD+IFR1+MS
2400	0	0	2400	9.079	0	9.079	0	3.643	0	0	9.53	8.603	135	MWD+IFR1+MS
2500	0	0	2500	9.438	0	9.438	0	3.745	0	0	9.892	8.962	135	MWD+IFR1+MS
2600	0	0	2600	9.798	0	9.798	0	3.849	0	0	10.253	9.32	135	MWD+IFR1+MS
2700	0	0	2700	10.157	0	10.157	0	3.956	0	0	10.614	9.679	135	MWD+IFR1+MS
2800	0	0	2800	10.516	0	10.516	0	4.066	0	0	10.975	10.037	135	MWD+IFR1+MS
2900	0	0	2900	10.876	0	10.876	0	4.179	0	0	11.335	10.396	135	MWD+IFR1+MS
3000	0	0	3000	11.235	0	11.235	0	4.295	0	0	11.696	10.754	135	MWD+IFR1+MS
3100	0	0	3100	11.594	0	11.594	0	4.413	0	0	12.056	11.113	135	MWD+IFR1+MS
3200	0	0	3200	11.953	0	11.953	0	4.534	0	0	12.417	11.471	135	MWD+IFR1+MS
3300	0	0	3300	12.312	0	12.312	0	4.657	0	0	12.777	11.83	135	MWD+IFR1+MS
3400	0	0	3400	12.671	0	12.671	0	4.783	0	0	13.137	12.188	135	MWD+IFR1+MS
3500	0	0	3500	13.031	0	13.031	0	4.912	0	0	13.497	12.547	135	MWD+IFR1+MS
3600	0	0	3600	13.39	0	13.39	0	5.043	0	0	13.857	12.905	135	MWD+IFR1+MS
3700	0	0	3700	13.749	0	13.749	0	5.177	0	0	14.217	13.263	135	MWD+IFR1+MS
3800	2	130	3799.98	13.66	0	14.531	0	5.313	0	0	14.54	13.658	-44.372	MWD+IFR1+MS
3900	4	130	3899.838	14.159	0	14.852	0	5.452	0	0	14.854	14.185	133.055	MWD+IFR1+MS
4000	6	130	3999.452	14.634	0	15.174	0	5.595	0	0	15.174	14.696	128.591	MWD+IFR1+MS
4100	8	130	4098.702	15.085	0	15.496	0	5.742	0	0	15.506	15.183	119.804	MWD+IFR1+MS
4200	8	130	4197.728	15.473	0	15.82	0	5.889	0	0	15.845	15.553	112.876	MWD+IFR1+MS
4300	8	130	4296.755	15.804	0	16.146	0	6.039	0	0	16.176	15.876	111.319	MWD+IFR1+MS
4400	8	130	4395.782	16.137	0	16.473	0	6.191	0	0	16.509	16.2	109.895	MWD+IFR1+MS
4500	8	130	4494.809	16.472	0	16.802	0	6.346	0	0	16.844	16.526	108.592	MWD+IFR1+MS
4600	8	130	4593.836	16.808	0	17.133	0	6.504	0	0	17.181	16.853	107.398	MWD+IFR1+MS
4700	8	130	4692.862	17.146	0	17.464	0	6.665	0	0	17.518	17.181	106.301	MWD+IFR1+MS
4800	8	130	4791.889	17.485	0	17.798	0	6.828	0	0	17.858	17.511	105.292	MWD+IFR1+MS
4900	8	130	4890.916	17.825	0	18.132	0	6.995	0	0	18.198	17.843	104.36	MWD+IFR1+MS
5000	8	130	4989.943	18.167	0	18.468	0	7.164	0	0	18.54	18.175	103.498	MWD+IFR1+MS
5100	8	130	5088.97	18.509	0	18.805	0	7.335	0	0	18.883	18.509	102.697	MWD+IFR1+MS
5200	8.357	116.129	5187.962	18.781	0	19.253	0	7.51	0	0	19.278	18.844	101.954	MWD+IFR1+MS
5300	9.144	104.01	5286.806	19.065	0	19.746	0	7.686	0	0	19.748	19.182	100.413	MWD+IFR1+MS
5400	10.263	94.149	5385.381	19.374	0	20.19	0	7.865	0	0	20.19	19.542	95.842	MWD+IFR1+MS
5448.113	10.891	90.175	5432.677	19.517	0	20.355	0	7.951	0	0	20.36	19.712	95.059	MWD+IFR1+MS
5500	10.891	90.175	5483.629	19.697	0	20.529	0	8.045	0	0	20.533	19.891	94.821	MWD+IFR1+MS
5600	10.891	90.175	5581.828	20.048	0	20.865	0	8.23	0	0	20.868	20.237	94.234	MWD+IFR1+MS
5700	10.891	90.175	5680.026	20.403	0	21.206	0	8.418	0	0	21.208	20.587	93.314	MWD+IFR1+MS
5800	10.891	90.175	5778.225	20.759	0	21.548	0	8.609	0	0	21.549	20.939	92.39	MWD+IFR1+MS
5900	10.891	90.175	5876.424	21.117	0	21.892	0	8.803	0	0	21.892	21.291	91.462	MWD+IFR1+MS
6000	10.891	90.175	5974.622	21.475	0	22.236	0	9	0	0	22.236	21.644	90.533	MWD+IFR1+MS

6100	10.891	90.175	6072.821	21.834	0	22.581	0	9.2	0	0	22.581	21.997	89.604	MWD+IFR1+ MS
6200	10.891	90.175	6171.02	22.194	0	22.927	0	9.402	0	0	22.928	22.351	88.675	MWD+IFR1+ MS
6300	10.891	90.175	6269.218	22.554	0	23.274	0	9.608	0	0	23.275	22.705	87.749	MWD+IFR1+ MS
6400	10.891	90.175	6367.417	22.915	0	23.622	0	9.816	0	0	23.624	23.06	86.826	MWD+IFR1+ MS
6500	10.891	90.175	6465.616	23.277	0	23.971	0	10.027	0	0	23.974	23.415	85.908	MWD+IFR1+ MS
6600	10.891	90.175	6563.814	23.64	0	24.32	0	10.24	0	0	24.325	23.77	84.996	MWD+IFR1+ MS
6700	10.891	90.175	6662.013	24.003	0	24.671	0	10.457	0	0	24.677	24.126	84.091	MWD+IFR1+ MS
6800	10.891	90.175	6760.212	24.367	0	25.021	0	10.676	0	0	25.029	24.483	83.194	MWD+IFR1+ MS
6900	10.891	90.175	6858.41	24.731	0	25.373	0	10.898	0	0	25.383	24.839	82.307	MWD+IFR1+ MS
7000	10.891	90.175	6956.609	25.096	0	25.725	0	11.123	0	0	25.738	25.197	81.429	MWD+IFR1+ MS
7100	10.891	90.175	7054.808	25.462	0	26.078	0	11.35	0	0	26.093	25.554	80.562	MWD+IFR1+ MS
7200	10.891	90.175	7153.007	25.828	0	26.431	0	11.58	0	0	26.449	25.912	79.707	MWD+IFR1+ MS
7300	10.891	90.175	7251.205	26.194	0	26.786	0	11.813	0	0	26.806	26.27	78.863	MWD+IFR1+ MS
7400	10.891	90.175	7349.404	26.561	0	27.14	0	12.049	0	0	27.163	26.629	78.032	MWD+IFR1+ MS
7500	10.891	90.175	7447.603	26.928	0	27.495	0	12.288	0	0	27.522	26.988	77.214	MWD+IFR1+ MS
7600	10.891	90.175	7545.801	27.296	0	27.851	0	12.529	0	0	27.881	27.347	76.41	MWD+IFR1+ MS
7700	10.891	90.175	7644	27.664	0	28.207	0	12.773	0	0	28.24	27.707	75.619	MWD+IFR1+ MS
7800	10.891	90.175	7742.199	28.033	0	28.563	0	13.02	0	0	28.6	28.067	74.842	MWD+IFR1+ MS
7900	10.891	90.175	7840.397	28.402	0	28.92	0	13.269	0	0	28.961	28.427	74.079	MWD+IFR1+ MS
8000	10.891	90.175	7938.596	28.771	0	29.278	0	13.521	0	0	29.322	28.787	73.33	MWD+IFR1+ MS
8100	10.891	90.175	8036.795	29.141	0	29.636	0	13.776	0	0	29.684	29.148	72.595	MWD+IFR1+ MS
8200	10.891	90.175	8134.993	29.511	0	29.994	0	14.034	0	0	30.047	29.509	71.874	MWD+IFR1+ MS
8300	10.891	90.175	8233.192	29.881	0	30.353	0	14.294	0	0	30.409	29.871	71.166	MWD+IFR1+ MS
8400	10.891	90.175	8331.391	30.251	0	30.712	0	14.557	0	0	30.773	30.232	70.472	MWD+IFR1+ MS
8500	10.891	90.175	8429.59	30.622	0	31.071	0	14.823	0	0	31.137	30.594	69.792	MWD+IFR1+ MS
8600	10.891	90.175	8527.788	30.994	0	31.431	0	15.092	0	0	31.501	30.956	69.125	MWD+IFR1+ MS
8700	10.891	90.175	8625.987	31.365	0	31.791	0	15.363	0	0	31.865	31.319	68.471	MWD+IFR1+ MS
8738.909	10.891	90.175	8664.195	31.508	0	31.93	0	15.469	0	0	32.004	31.459	68.351	MWD+IFR1+ MS
8800	12.511	119.599	8724.067	31.892	0	31.973	0	15.636	0	0	32.283	31.705	72.366	MWD+IFR1+ MS
8900	19.434	146.678	8820.276	32.36	0	33.111	0	15.978	0	0	34.059	32.22	100.385	MWD+IFR1+ MS
9000	28.219	158.715	8911.716	33.108	0	33.938	0	16.66	0	0	36.407	32.572	104.594	MWD+IFR1+ MS
9100	37.581	165.248	8995.611	33.388	0	34.217	0	17.838	0	0	38.141	32.882	104.572	MWD+IFR1+ MS
9200	47.176	169.454	9069.41	33.062	0	34.375	0	19.508	0	0	39.42	33.16	104.604	MWD+IFR1+ MS
9300	56.882	172.516	9130.872	32.273	0	34.498	0	21.576	0	0	40.314	33.401	104.997	MWD+IFR1+ MS
9400	66.648	174.962	9178.129	31.258	0	34.598	0	23.907	0	0	40.879	33.604	105.68	MWD+IFR1+ MS
9500	76.447	177.068	9209.745	30.308	0	34.673	0	26.355	0	0	41.182	33.773	106.52	MWD+IFR1+ MS
9600	86.262	179.006	9224.76	29.738	0	34.715	0	28.786	0	0	41.307	33.914	107.337	MWD+IFR1+ MS
9638.856	90.078	179.742	9226	28.982	0	34.699	0	29.001	0	0	41.325	33.944	107.533	MWD+IFR1+ MS
9700	90.078	179.742	9225.917	29.103	0	34.761	0	29.122	0	0	41.348	33.984	107.82	MWD+IFR1+ MS
9800	90.078	179.742	9225.78	29.26	0	34.873	0	29.279	0	0	41.388	34.059	108.31	MWD+IFR1+ MS
9900	90.078	179.742	9225.644	29.44	0	34.999	0	29.458	0	0	41.43	34.147	108.833	MWD+IFR1+ MS
10000	90.078	179.742	9225.508	29.639	0	35.137	0	29.657	0	0	41.476	34.245	109.389	MWD+IFR1+ MS
10100	90.078	179.742	9225.372	29.857	0	35.287	0	29.876	0	0	41.524	34.352	109.979	MWD+IFR1+ MS
10200	90.078	179.742	9225.236	30.095	0	35.449	0	30.113	0	0	41.576	34.469	110.604	MWD+IFR1+ MS
10300	90.078	179.742	9225.099	30.35	0	35.623	0	30.368	0	0	41.632	34.594	111.268	MWD+IFR1+ MS
10400	90.078	179.742	9224.963	30.624	0	35.809	0	30.642	0	0	41.691	34.729	111.973	MWD+IFR1+ MS
10500	90.078	179.742	9224.827	30.915	0	36.005	0	30.933	0	0	41.755	34.871	112.722	MWD+IFR1+ MS
10600	90.078	179.742	9224.691	31.224	0	36.214	0	31.241	0	0	41.823	35.021	113.516	MWD+IFR1+ MS
10700	90.078	179.742	9224.555	31.548	0	36.433	0	31.566	0	0	41.896	35.178	114.359	MWD+IFR1+ MS

10800	90.078	179.742	9224.418	31.889	0	36.663	0	31.906	0	0	41.974	35.342	115.253	MWD+IFR1+ MS
10900	90.078	179.742	9224.282	32.246	0	36.903	0	32.262	0	0	42.058	35.511	116.201	MWD+IFR1+ MS
11000	90.078	179.742	9224.146	32.617	0	37.154	0	32.633	0	0	42.147	35.686	117.205	MWD+IFR1+ MS
11100	90.078	179.742	9224.01	33.003	0	37.416	0	33.019	0	0	42.244	35.865	118.267	MWD+IFR1+ MS
11200	90.078	179.742	9223.873	33.402	0	37.687	0	33.419	0	0	42.347	36.048	119.39	MWD+IFR1+ MS
11300	90.078	179.742	9223.737	33.816	0	37.968	0	33.832	0	0	42.458	36.234	120.573	MWD+IFR1+ MS
11400	90.078	179.742	9223.601	34.242	0	38.258	0	34.258	0	0	42.577	36.422	121.817	MWD+IFR1+ MS
11500	90.078	179.742	9223.465	34.681	0	38.558	0	34.696	0	0	42.705	36.612	123.123	MWD+IFR1+ MS
11600	90.078	179.742	9223.329	35.132	0	38.867	0	35.147	0	0	42.842	36.803	124.487	MWD+IFR1+ MS
11700	90.078	179.742	9223.192	35.594	0	39.185	0	35.609	0	0	42.989	36.993	125.909	MWD+IFR1+ MS
11800	90.078	179.742	9223.056	36.068	0	39.512	0	36.082	0	0	43.147	37.182	127.382	MWD+IFR1+ MS
11900	90.078	179.742	9222.92	36.552	0	39.847	0	36.566	0	0	43.316	37.369	128.903	MWD+IFR1+ MS
12000	90.078	179.742	9222.784	37.046	0	40.191	0	37.061	0	0	43.497	37.553	130.463	MWD+IFR1+ MS
12100	90.078	179.742	9222.648	37.551	0	40.542	0	37.565	0	0	43.691	37.734	132.056	MWD+IFR1+ MS
12200	90.078	179.742	9222.511	38.065	0	40.902	0	38.079	0	0	43.897	37.911	133.67	MWD+IFR1+ MS
12300	90.078	179.742	9222.375	38.588	0	41.269	0	38.602	0	0	44.117	38.083	-44.703	MWD+IFR1+ MS
12400	90.078	179.742	9222.239	39.12	0	41.643	0	39.133	0	0	44.35	38.25	-43.075	MWD+IFR1+ MS
12500	90.078	179.742	9222.103	39.66	0	42.025	0	39.673	0	0	44.596	38.411	-41.457	MWD+IFR1+ MS
12600	90.078	179.742	9221.966	40.208	0	42.414	0	40.222	0	0	44.856	38.567	-39.857	MWD+IFR1+ MS
12700	90.078	179.742	9221.83	40.764	0	42.809	0	40.777	0	0	45.13	38.717	-38.287	MWD+IFR1+ MS
12800	90.078	179.742	9221.694	41.328	0	43.212	0	41.341	0	0	45.417	38.861	-36.754	MWD+IFR1+ MS
12900	90.078	179.742	9221.558	41.898	0	43.62	0	41.911	0	0	45.717	39	-35.266	MWD+IFR1+ MS
13000	90.078	179.742	9221.422	42.476	0	44.036	0	42.488	0	0	46.03	39.132	-33.829	MWD+IFR1+ MS
13100	90.078	179.742	9221.285	43.06	0	44.457	0	43.072	0	0	46.355	39.259	-32.447	MWD+IFR1+ MS
13200	90.078	179.742	9221.149	43.65	0	44.884	0	43.662	0	0	46.693	39.381	-31.123	MWD+IFR1+ MS
13300	90.078	179.742	9221.013	44.246	0	45.317	0	44.258	0	0	47.042	39.498	-29.859	MWD+IFR1+ MS
13400	90.078	179.742	9220.877	44.848	0	45.756	0	44.86	0	0	47.402	39.611	-28.656	MWD+IFR1+ MS
13500	90.078	179.742	9220.741	45.456	0	46.2	0	45.468	0	0	47.772	39.719	-27.513	MWD+IFR1+ MS
13600	90.078	179.742	9220.604	46.069	0	46.649	0	46.081	0	0	48.153	39.823	-26.43	MWD+IFR1+ MS
13700	90.078	179.742	9220.468	46.687	0	47.104	0	46.699	0	0	48.543	39.923	-25.404	MWD+IFR1+ MS
13800	90.078	179.742	9220.332	47.311	0	47.563	0	47.322	0	0	48.943	40.02	-24.434	MWD+IFR1+ MS
13900	90.078	179.742	9220.196	47.938	0	48.028	0	47.949	0	0	49.351	40.114	-23.518	MWD+IFR1+ MS
14000	90.078	179.742	9220.059	48.571	0	48.497	0	48.582	0	0	49.768	40.206	-22.653	MWD+IFR1+ MS
14100	90.078	179.742	9219.923	49.208	0	48.971	0	49.218	0	0	50.192	40.294	-21.836	MWD+IFR1+ MS
14200	90.078	179.742	9219.787	49.849	0	49.449	0	49.859	0	0	50.625	40.381	-21.064	MWD+IFR1+ MS
14300	90.078	179.742	9219.651	50.494	0	49.932	0	50.504	0	0	51.064	40.465	-20.336	MWD+IFR1+ MS
14400	90.078	179.742	9219.515	51.143	0	50.419	0	51.153	0	0	51.51	40.548	-19.648	MWD+IFR1+ MS
14500	90.078	179.742	9219.378	51.796	0	50.909	0	51.806	0	0	51.962	40.629	-18.998	MWD+IFR1+ MS
14600	90.078	179.742	9219.242	52.452	0	51.404	0	52.462	0	0	52.421	40.708	-18.383	MWD+IFR1+ MS
14700	90.078	179.742	9219.106	53.112	0	51.903	0	53.122	0	0	52.886	40.786	-17.802	MWD+IFR1+ MS
14800	90.078	179.742	9218.97	53.775	0	52.405	0	53.785	0	0	53.356	40.863	-17.252	MWD+IFR1+ MS
14900	90.078	179.742	9218.833	54.442	0	52.912	0	54.451	0	0	53.832	40.939	-16.731	MWD+IFR1+ MS
15000	90.078	179.742	9218.697	55.111	0	53.421	0	55.121	0	0	54.313	41.014	-16.236	MWD+IFR1+ MS
15100	90.078	179.742	9218.561	55.784	0	53.934	0	55.793	0	0	54.799	41.088	-15.768	MWD+IFR1+ MS
15200	90.078	179.742	9218.425	56.459	0	54.451	0	56.468	0	0	55.289	41.162	-15.322	MWD+IFR1+ MS
15300	90.078	179.742	9218.289	57.137	0	54.97	0	57.146	0	0	55.784	41.235	-14.899	MWD+IFR1+ MS
15400	90.078	179.742	9218.152	57.818	0	55.493	0	57.827	0	0	56.284	41.308	-14.497	MWD+IFR1+ MS
15500	90.078	179.742	9218.016	58.502	0	56.019	0	58.511	0	0	56.788	41.38	-14.114	MWD+IFR1+ MS
15600	90.078	179.742	9217.88	59.188	0	56.548	0	59.197	0	0	57.296	41.452	-13.75	MWD+IFR1+ MS

15700	90.078	179.742	9217.744	59.877	0	57.079	0	59.885	0	0	57.807	41.524	-13.402	MWD+IFR1+ MS
15800	90.078	179.742	9217.608	60.567	0	57.614	0	60.576	0	0	58.323	41.595	-13.07	MWD+IFR1+ MS
15900	90.078	179.742	9217.471	61.261	0	58.151	0	61.269	0	0	58.842	41.666	-12.754	MWD+IFR1+ MS
16000	90.078	179.742	9217.335	61.956	0	58.691	0	61.964	0	0	59.365	41.737	-12.451	MWD+IFR1+ MS
16100	90.078	179.742	9217.199	62.653	0	59.234	0	62.661	0	0	59.891	41.809	-12.162	MWD+IFR1+ MS
16200	90.078	179.742	9217.063	63.353	0	59.779	0	63.361	0	0	60.42	41.88	-11.885	MWD+IFR1+ MS
16300	90.078	179.742	9216.926	64.054	0	60.326	0	64.062	0	0	60.952	41.951	-11.62	MWD+IFR1+ MS
16400	90.078	179.742	9216.79	64.758	0	60.876	0	64.765	0	0	61.487	42.022	-11.365	MWD+IFR1+ MS
16500	90.078	179.742	9216.654	65.463	0	61.428	0	65.47	0	0	62.026	42.093	-11.121	MWD+IFR1+ MS
16600	90.078	179.742	9216.518	66.17	0	61.983	0	66.177	0	0	62.567	42.165	-10.887	MWD+IFR1+ MS
16700	90.078	179.742	9216.382	66.878	0	62.54	0	66.886	0	0	63.11	42.236	-10.663	MWD+IFR1+ MS
16800	90.078	179.742	9216.245	67.589	0	63.098	0	67.596	0	0	63.657	42.308	-10.447	MWD+IFR1+ MS
16900	90.078	179.742	9216.109	68.301	0	63.659	0	68.308	0	0	64.206	42.38	-10.239	MWD+IFR1+ MS
16980.138	90.078	179.742	9216	68.872	0	64.109	0	68.879	0	0	64.647	42.438	-10.079	MWD+IFR1+ MS

Plan Targets					Remuda 708H				
Target Name	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape				
KOP 4	8850.31	464408.9	625187.8	5527	CIRCLE				
FTP 4	9638.85	463835.9	625187.8	6100	CIRCLE				
BHL 4	16980.14	456494.7	625220.9	6090	CIRCLE				



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

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

Submit Electronically
Via E-permitting

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:** 005380 **Date:** 06 / 04 / 2021

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 705H		H-25-23S-29E	2385' FNL & 750' FEL	1500	2600	1000
Remuda South 25 State 706H		H-25-23S-29E	2385' FNL & 720' FEL	1500	2600	1000
Remuda South 25 State 707H		H-25-23S-29E	2385' FNL & 690' FEL	1500	2600	1000
Remuda South 25 State 708H		H-25-23S-29E	2385' FNL & 660' FEL	1500	2600	1000
Remuda South 25 State 709H		H-25-23S-29E	2385' FNL & 630' FEL	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 705H		08/09/2021	08/24/2021	Not Yet Scheduled	Not Yet Scheduled	Not Yet Scheduled
Remuda South 25 State 706H		08/24/2021	09/08/2021	Not Yet Scheduled	Not Yet Scheduled	Not Yet Scheduled
Remuda South 25 State 707H		09/08/2021	09/23/2021	Not Yet Scheduled	Not Yet Scheduled	Not Yet Scheduled
Remuda South 25 State 708H		09/23/2021	10/08/2021	Not Yet Scheduled	Not Yet Scheduled	Not Yet Scheduled
Remuda South 25 State 709H		10/08/2021	10/23/2021	Not Yet Scheduled	Not Yet Scheduled	Not Yet Scheduled

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: 06/04/2021
Phone: 432.218.3671
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

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.