

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 375794

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

1. Operator Name and Address XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707		2. OGRID Number 373075
		3. API Number 30-015-55685
4. Property Code 336438	5. Property Name REMUDA NORTH 25 ST COM	6. Well No. 502H

7. Surface Location

UL - Lot J	Section 25	Township 23S	Range 29E	Lot Idn	Feet From 2374	N/S Line S	Feet From 1964	E/W Line E	County Eddy
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8. Proposed Bottom Hole Location

UL - Lot B	Section 24	Township 23S	Range 29E	Lot Idn B	Feet From 50	N/S Line N	Feet From 1870	E/W Line E	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 3059
16. Multiple N	17. Proposed Depth 16156	18. Formation 1st Bone Spring Sand	19. Contractor	20. Spud Date 1/9/2025
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	298	300	0
Int1	12.25	9.625	40	3300	1480	0
Int2	8.75	7.625	29.7	7258	140	5739
Int2	8.75	7.625	29.7	3400	430	2800
Prod	6.75	5.5	20	16156	620	7462
Prod	6.75	5.5	20	7158	20	6758

Casing/Cement Program: Additional Comments

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22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Hydril	2027	2027	

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 ☒ and/or 19.15.14.9 (B) NMAC ☒ if applicable.

Signature:

OIL CONSERVATION DIVISION

Printed Name: Electronically filed by Tiffany Yancey

Approved By: Ward Rikala

Title: Production Analyst

Title: Petroleum Specialist Supervisor

Email Address: tiffany.yancey@exxonmobil.com

Approved Date: 11/7/2024

Expiration Date: 11/7/2026

Date: 10/25/2024

Phone: 432-215-8939


Conditions of Approval Attached

C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024	
		Submittal Type:	<input checked="" type="checkbox"/> Initial Submittal
			<input type="checkbox"/> Amended Report
		<input type="checkbox"/> As Drilled	

WELL LOCATION INFORMATION			
API Number 30-015 -55685	Pool Code 96526	Pool Name FORTY NINER RIDGE BONE SPRING, WEST	
Property Code 336438	Property Name REMUDA NORTH 25 ST COM		Well Number 502H
ORGID No. 373075	Operator Name XTO PERMIAN OPERATING, LLC		Ground Level Elevation 3,059'
Surface Owner: <input checked="" type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input type="checkbox"/> Federal		Mineral Owner: <input checked="" type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input type="checkbox"/> Federal	

Surface Location									
UL J	Section 25	Township 23 S	Range 29 E	Lot	Ft. from N/S 2,374' FSL	Ft. from E/W 1,964' FEL	Latitude 32.275101	Longitude -103.935938	County EDDY
Bottom Hole Location									
UL B	Section 24	Township 23 S	Range 29 E	Lot	Ft. from N/S 50' FNL	Ft. from E/W 1,870' FEL	Latitude 32.297630	Longitude -103.935704	County EDDY
Dedicated Acres 240		Infill or Defining Well DEFINING		Defining Well API		Overlapping Spacing Unit (Y/N) N		Consolidation Code	
Order Numbers.						Well setbacks are under Common Ownership: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			

Kick Off Point (KOP)									
UL J	Section 25	Township 23 S	Range 29 E	Lot	Ft. from N/S 2,285' FSL	Ft. from E/W 1,868' FEL	Latitude 32.274855	Longitude -103.935628	County EDDY
First Take Point (FTP)									
UL G	Section 25	Township 23 S	Range 29 E	Lot	Ft. from N/S 2,310' FNL	Ft. from E/W 1,870' FEL	Latitude 32.276824	Longitude -103.935635	County EDDY
Last Take Point (LTP)									
UL B	Section 24	Township 23 S	Range 29 E	Lot	Ft. from N/S 100' FNL	Ft. from E/W 1,870' FEL	Latitude 32.297492	Longitude -103.935704	County EDDY
Unitized Area or Area of Uniform Interest		Spacing Unit Type <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical				Ground Floor Elevation: 3,059'			

OPERATOR CERTIFICATIONS		SURVEYOR CERTIFICATIONS	
<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>If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling form the division.</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>I, TIM C. PAPPAS, NEW MEXICO PROFESSIONAL SURVEYOR NO. 21209, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO, AND THAT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.</p> <p><i>[Signature]</i> 22 Oct 2024</p> <p>TIM C. PAPPAS REGISTERED PROFESSIONAL LAND SURVEYOR STATE OF NEW MEXICO NO. 21209</p> 	
Signature <i>Adrian Baker</i>		Signature and Seal of Professional Surveyor	
Date 10/23/24			
Printed Name Adrian Baker		Certificate Number TIM C. PAPPAS 21209	Date of Survey 10/22/2024
Email Address adrian.baker@exxonmobil.com			

Note: 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.



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TBPE Firm 17957 | TBPLS Firm 10193887
www.fscinc.net

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DATE:	10-22-2024	PROJECT NO:	2024090428
DRAWN BY:	LM	SCALE:	
CHECKED BY:	CH	SHEET:	1 OF 2
FIELD CREW:	IR	REVISION:	2

ACREAGE DEDICATION PLATS

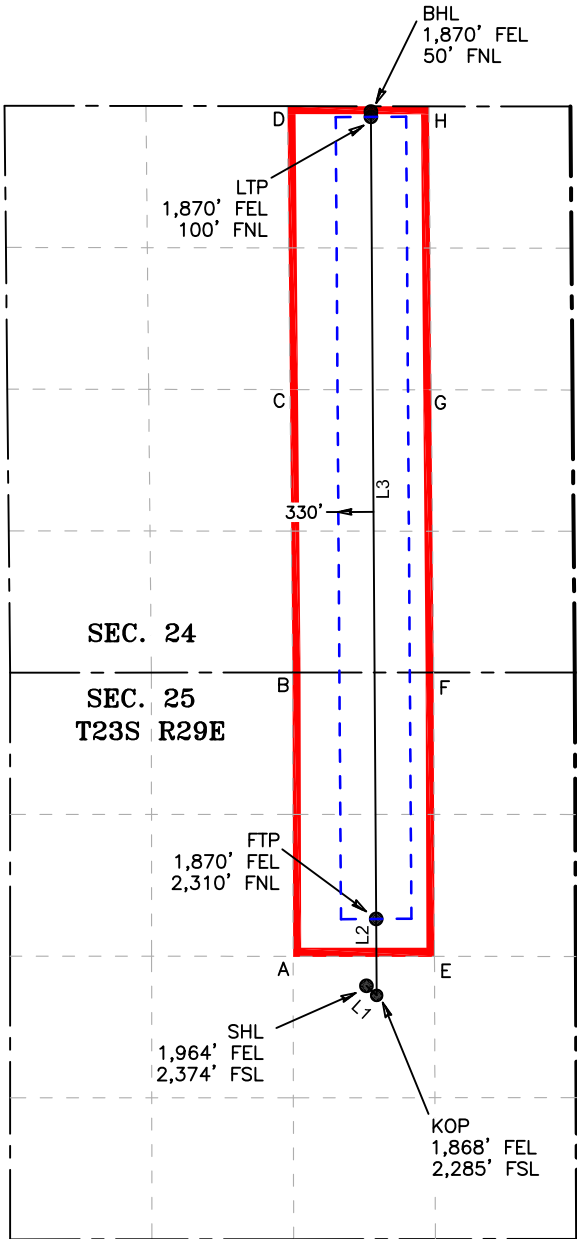
This grid represents a standard section. You may superimpose a non-standard section, or a larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is the closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.

LEGEND

- SECTION LINE
- PROPOSED WELLBORE
- 330' BUFFER
- DEDICATED ACREAGE

LINE TABLE		
LINE	AZIMUTH	LENGTH
L1	132° 46'45"	131.01'
L2	359° 37'46"	716.18'
L3	359° 37'29"	7,569.10'



COORDINATE TABLE					
SHL (NAD 83 NME)			LTP (NAD 83 NME)		
Y =	464,042.0	N	Y =	472,188.1	N
X =	664,156.4	E	X =	664,198.7	E
LAT. =	32.275101	°N	LAT. =	32.297492	°N
LONG. =	103.935938	°W	LONG. =	103.935704	°W
KOP (NAD 83 NME)			BHL (NAD 83 NME)		
Y =	463,953.0	N	Y =	472,238.1	N
X =	664,252.6	E	X =	664,198.4	E
LAT. =	32.274855	°N	LAT. =	32.297630	°N
LONG. =	103.935628	°W	LONG. =	103.935704	°W
FTP (NAD 83 NME)					
Y =	464,669.2	N			
X =	664,247.9	E			
LAT. =	32.276824	°N			
LONG. =	103.935635	°W			
SHL (NAD 27 NME)			LTP (NAD 27 NME)		
Y =	463,982.1	N	Y =	472,128.0	N
X =	622,973.6	E	X =	623,016.2	E
LAT. =	32.274977	°N	LAT. =	32.297369	°N
LONG. =	103.935447	°W	LONG. =	103.935211	°W
KOP (NAD 27 NME)			BHL (NAD 27 NME)		
Y =	463,893.1	N	Y =	472,178.0	N
X =	623,069.8	E	X =	623,015.9	E
LAT. =	32.274731	°N	LAT. =	32.297506	°N
LONG. =	103.935137	°W	LONG. =	103.935212	°W
FTP (NAD 27 NME)					
Y =	464,609.3	N			
X =	623,065.1	E			
LAT. =	32.276700	°N			
LONG. =	103.935143	°W			

CORNER COORDINATES (NAD83 NME)					
A - Y =	464,319.1	N	A - X =	663,469.2	E
B - Y =	466,979.3	N	B - X =	663,464.2	E
C - Y =	469,631.9	N	C - X =	663,440.1	E
D - Y =	472,289.1	N	D - X =	663,415.9	E
E - Y =	464,318.4	N	E - X =	664,794.2	E
F - Y =	466,979.1	N	F - X =	664,786.8	E
G - Y =	469,629.7	N	G - X =	664,763.7	E
H - Y =	472,287.4	N	H - X =	664,742.0	E
CORNER COORDINATES (NAD27 NME)					
A - Y =	464,259.2	N	A - X =	622,286.4	E
B - Y =	466,919.3	N	B - X =	622,281.5	E
C - Y =	469,571.9	N	C - X =	622,257.5	E
D - Y =	472,229.0	N	D - X =	622,233.4	E
E - Y =	464,258.5	N	E - X =	623,611.4	E
F - Y =	466,919.1	N	F - X =	623,604.1	E
G - Y =	469,569.7	N	G - X =	623,581.1	E
H - Y =	472,227.3	N	H - X =	623,559.5	E

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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 APD Comments

Permit 375794

PERMIT COMMENTS

Operator Name and Address: XTO PERMIAN OPERATING LLC. [373075] 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707		API Number: 30-015-55685
		Well: REMUDA NORTH 25 ST COM #502H
Created By	Comment	Comment Date
vrajan	A variance is requested to allow use of a flex hose, Spudder rig, break test Variance and to be able to batch drill.	10/25/2024

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

Form APD Conditions
Permit 375794

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: XTO PERMIAN OPERATING LLC. [373075] 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	API Number: 30-015-55685
	Well: REMUDA NORTH 25 ST COM #502H

OCD Reviewer	Condition
ward.rikala	Notify the OCD 24 hours prior to casing & cement.
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.
ward.rikala	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.
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing.
ward.rikala	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.
ward.rikala	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.
ward.rikala	A [C-103] Sub. Drilling (C-103N) is required within (10) days of spud.

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 Permian Operating, LLC OGRID: 373075 Date: 09/24/2024

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	3 yr Anticipated decline Oil BBL/D	Anticipated Gas MCF/D	3 yr anticipated decline Gas MCF/D	Anticipated Produced Water BBL/D	3 yr anticipated decline Water BBL/D
Remuda North 25 ST 161H	TBD	25 T23S R29E	2375 FSL, 585 FWL	1,100	100	3,250	500	3,500	350
Remuda North 25 ST 501H	TBD	25 T23S R29E	2375 FSL, 615 FWL	900	100	1,250	300	2,250	250
Remuda North 25 ST 162H	TBD	25 T23S R29E	2374 FSL, 645 FWL	1,100	100	3,250	500	3,500	350
Remuda North 25 ST 163H	TBD	25 T23S R29E	2375 FSL, 1994 FEL	1,100	100	3,250	500	3,500	350
Remuda North 25 ST 502H	TBD	25 T23S R29E	2374 FSL, 1964 FEL	900	100	1,250	300	2,250	250

IV. Central Delivery Point Name: Raider Compressor Station [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 North 25 ST 161H	TBD	TBD	TBD	TBD	TBD	TBD

Remuda North 25 ST 501H	TBD	TBD	TBD	TBD	TBD	TBD
Remuda North 25 ST 162H	TBD	TBD	TBD	TBD	TBD	TBD
Remuda North 25 ST 163H	TBD	TBD	TBD	TBD	TBD	TBD
Remuda North 25 ST 502H	TBD	TBD	TBD	TBD	TBD	TBD

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:

Adrian Baker

Title:

Regulatory Advisor

E-mail Address:

adrian.baker@exxonmobil.com

Date:

10/10/24

Phone:

4322363808

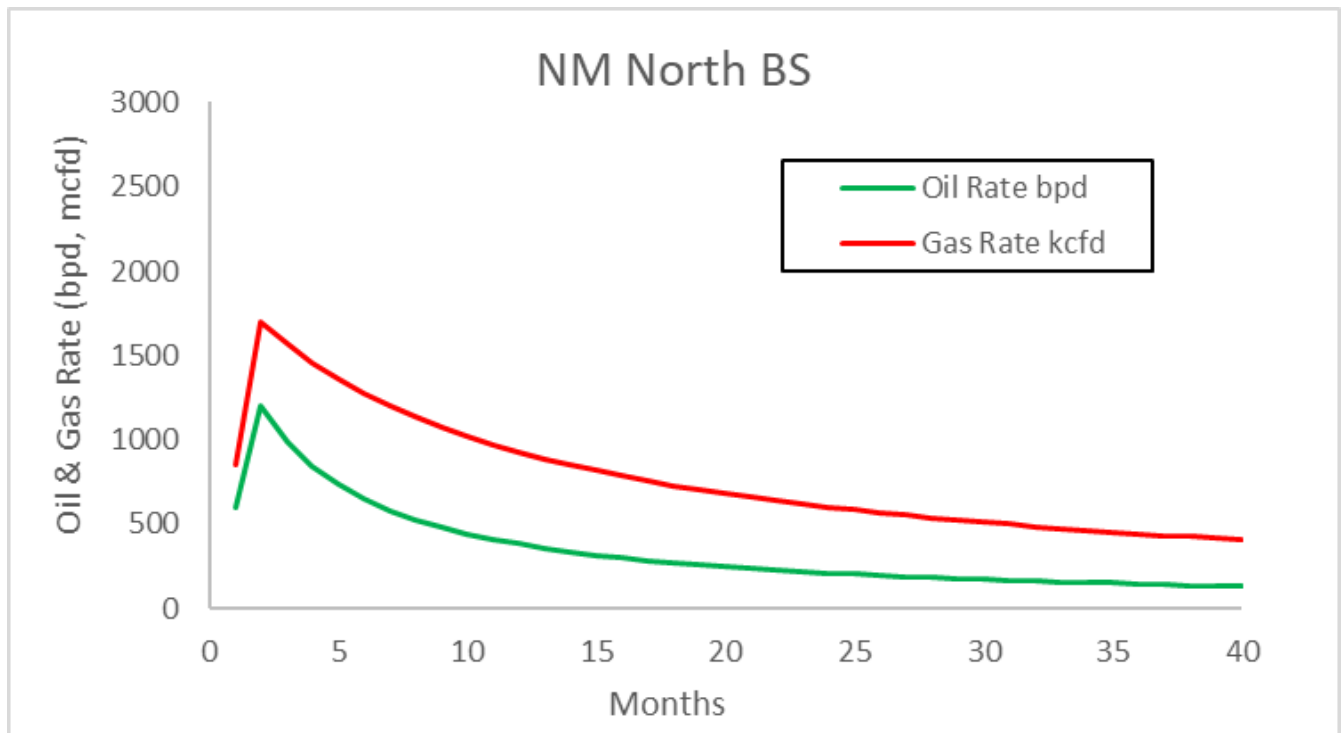
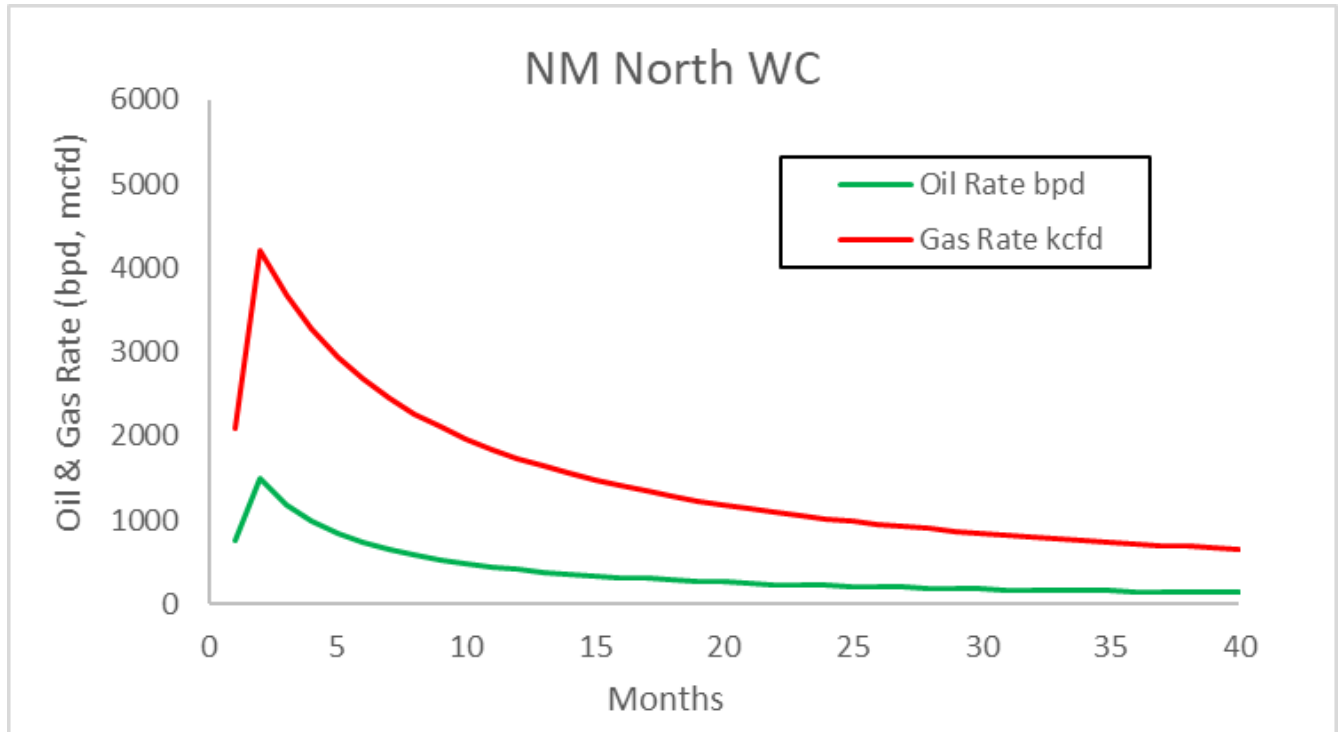
OIL CONSERVATION DIVISION**(Only applicable when submitted as a standalone form)**

Approved By:

Title:

Approval Date:

Conditions of Approval:



VI. Separation Equipment:

XTO Permian Operating LLC. utilizes a "stage separation" process in which oil and gas separation is carried out through a series of separators operating at successively reduced pressures. Hydrocarbon liquids are produced into a high-pressure inlet separator, then carried through one or more lower pressure separation vessels before entering the storage tanks. The purpose of this separation process is to attain maximum recovery of liquid hydrocarbons from the fluids and allow maximum capture of produced gas into the sales pipeline. XTO utilizes a series of Low-Pressure Compression units to capture gas off the staged separation and send it to the sales pipeline. This process minimizes the amount of flash gas that enters the end-stage storage tanks that is subsequently vented or flared.

VII. Operational Practices

XTO Permian Operating LLC will employ best management practices and control technologies to maximize the recovery and minimize waste of natural gas through venting and flaring.

- During drilling operations, XTO will utilize flares to capture and control natural gas, where technically feasible. If flaring is deemed technically in-feasible, XTO will employ best management practices to minimize or reduce venting to the extent possible.
- During completions operations, XTO will utilize Green Completion methods to capture gas produced during well completions that is otherwise vented or flared. If capture is technically in-feasible, flares will be used to control flow back fluids entering into frac tanks during initial flowback. Upon indication of first measurable hydrocarbon volumes, XTO Permian Operating LLC will turn operations to onsite separation vessels and flow to the gathering pipeline.
- During production operations, XTO Permian Operating LLC will take every practical effort to minimize waste of natural gas through venting and flaring by:
 - Designing and constructing facilities in a manner consistent to achieve maximum capture and control of hydrocarbon liquids & produced gas
 - Utilizing a closed-loop capture system to collect, and route produced gas to sales line via low pressure compression, or to a flare/combustor
 - Flaring in lieu of venting, where technically feasible
 - Utilizing auto-ignitors or continuous pilots, with thermocouples connected to Scada, to quickly detect and resolve issues related to malfunctioning flares/combustors
 - Employ the use of automatic tank gauging to minimize storage tank venting during loading events
 - Installing air-driven or electric-driven pneumatics & combustion engines, where technically feasible to minimize venting to the atmosphere
 - Confirm equipment is properly maintained and repaired through a preventative maintenance and repair program to ensure equipment meets all manufacturer specifications

- Conduct and document AVO inspections on the frequency set forth in Part 27 to detect and repair any onsite leaks as quickly and efficiently as is feasible.

VIII. Best Management Practices during Maintenance

XTO Permian Operating LLC. will utilize best management practices to minimize venting during active and planned maintenance activities. XTO is operating under guidance that production facilities permitted under NOI permits have no provisions to allow high pressure flaring and high-pressure flaring is only allowed in disruption scenarios so long as the duration is less than eight hours. When technically feasible, flaring during maintenance activities will be utilized in lieu of venting to the atmosphere. XTO will work with third-party operators during scheduled maintenance of downstream pipeline or processing plants to address those events ahead of time to minimize venting. Actions considered include identifying alternative capture approaches or planning to temporarily reduce production or shut in the well to address these circumstances.

C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION		Revised July 9, 2024	
			Submittal Type:	<input checked="" type="checkbox"/> Initial Submittal
				<input type="checkbox"/> Amended Report
			<input type="checkbox"/> As Drilled	

WELL LOCATION INFORMATION

API Number 30-015	Pool Code 96526	Pool Name FORTY NINER RIDGE BONE SPRING, WEST	
Property Code	Property Name REMUDA NORTH 25 ST COM		Well Number 502H
ORGID No. 373075	Operator Name XTO PERMIAN OPERATING, LLC		Ground Level Elevation 3,059'
Surface Owner: <input checked="" type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input type="checkbox"/> Federal		Mineral Owner: <input checked="" type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input type="checkbox"/> Federal	

Surface Location

UL J	Section 25	Township 23 S	Range 29 E	Lot	Ft. from N/S 2,374' FSL	Ft. from E/W 1,964' FEL	Latitude 32.275101	Longitude -103.935938	County EDDY
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Bottom Hole Location

UL B	Section 24	Township 23 S	Range 29 E	Lot	Ft. from N/S 50' FNL	Ft. from E/W 1,870' FEL	Latitude 32.297630	Longitude -103.935704	County EDDY
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Dedicated Acres 240	Infill or Defining Well DEFINING	Defining Well API	Overlapping Spacing Unit (Y/N) N	Consolidation Code
Order Numbers.			Well setbacks are under Common Ownership: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

Kick Off Point (KOP)

UL J	Section 25	Township 23 S	Range 29 E	Lot	Ft. from N/S 2,285' FSL	Ft. from E/W 1,868' FEL	Latitude 32.274855	Longitude -103.935628	County EDDY
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First Take Point (FTP)

UL G	Section 25	Township 23 S	Range 29 E	Lot	Ft. from N/S 2,310' FNL	Ft. from E/W 1,870' FEL	Latitude 32.276824	Longitude -103.935635	County EDDY
---------	---------------	------------------	---------------	-----	----------------------------	----------------------------	-----------------------	--------------------------	----------------

Last Take Point (LTP)

UL B	Section 24	Township 23 S	Range 29 E	Lot	Ft. from N/S 100' FNL	Ft. from E/W 1,870' FEL	Latitude 32.297492	Longitude -103.935704	County EDDY
---------	---------------	------------------	---------------	-----	--------------------------	----------------------------	-----------------------	--------------------------	----------------

Unitized Area or Area of Uniform Interest	Spacing Unit Type <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical	Ground Floor Elevation: 3,059'
---	--	--------------------------------

OPERATOR CERTIFICATIONS <i>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.</i> <i>If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling form the division.</i>		SURVEYOR CERTIFICATIONS <i>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.</i> I, TIM C. PAPPAS, NEW MEXICO PROFESSIONAL SURVEYOR NO. 21209, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO, AND THAT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.  22 Oct 2024 TIM C. PAPPAS REGISTERED PROFESSIONAL LAND SURVEYOR STATE OF NEW MEXICO NO. 21209 	
Signature Adrian Baker		Signature and Seal of Professional Surveyor	
Date 10/23/24			
Printed Name Adrian Baker		Certificate Number TIM C. PAPPAS 21209	Date of Survey 10/22/2024
Email Address adrian.baker@exxonmobil.com			

Note: 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.



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TBPE Firm 17957 | TBPLS Firm 10193887
www.fscinc.net

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DATE:	10-22-2024	PROJECT NO:	2024090428
DRAWN BY:	LM	SCALE:	
CHECKED BY:	CH	SHEET:	1 OF 2
FIELD CREW:	IR	REVISION:	2

ACREAGE DEDICATION PLATS

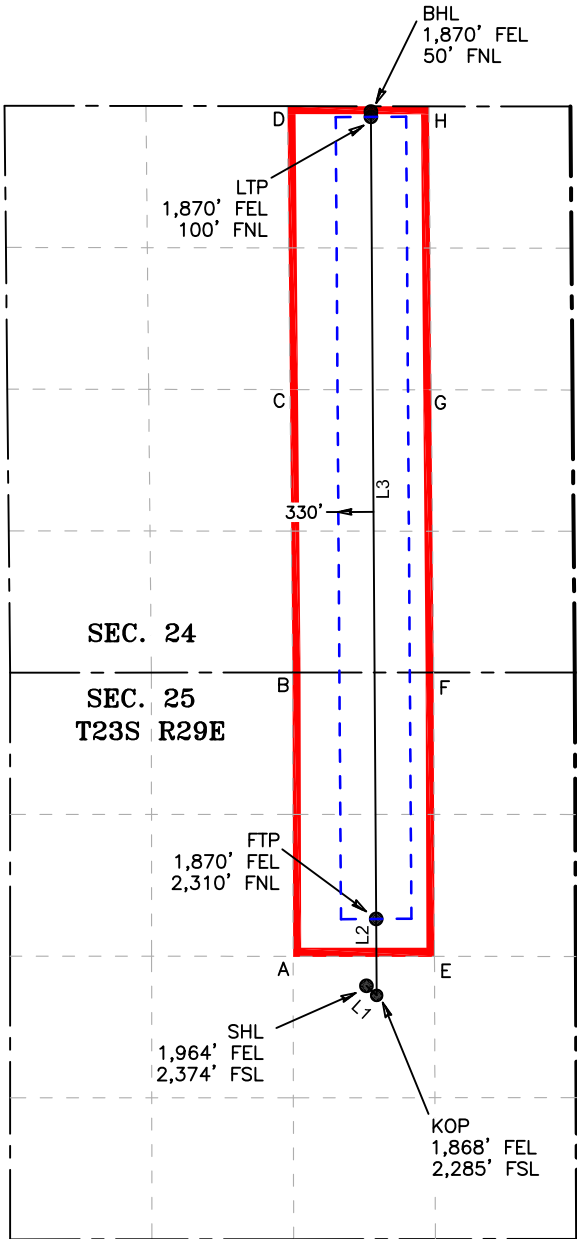
This grid represents a standard section. You may superimpose a non-standard section, or a larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is the closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.

LEGEND

- SECTION LINE
- PROPOSED WELLBORE
- 330' BUFFER
- DEDICATED ACREAGE

LINE TABLE		
LINE	AZIMUTH	LENGTH
L1	132° 46'45"	131.01'
L2	359° 37'46"	716.18'
L3	359° 37'29"	7,569.10'



COORDINATE TABLE					
SHL (NAD 83 NME)			LTP (NAD 83 NME)		
Y =	464,042.0	N	Y =	472,188.1	N
X =	664,156.4	E	X =	664,198.7	E
LAT. =	32.275101	°N	LAT. =	32.297492	°N
LONG. =	103.935938	°W	LONG. =	103.935704	°W
KOP (NAD 83 NME)			BHL (NAD 83 NME)		
Y =	463,953.0	N	Y =	472,238.1	N
X =	664,252.6	E	X =	664,198.4	E
LAT. =	32.274855	°N	LAT. =	32.297630	°N
LONG. =	103.935628	°W	LONG. =	103.935704	°W
FTP (NAD 83 NME)					
Y =	464,669.2	N			
X =	664,247.9	E			
LAT. =	32.276824	°N			
LONG. =	103.935635	°W			
SHL (NAD 27 NME)			LTP (NAD 27 NME)		
Y =	463,982.1	N	Y =	472,128.0	N
X =	622,973.6	E	X =	623,016.2	E
LAT. =	32.274977	°N	LAT. =	32.297369	°N
LONG. =	103.935447	°W	LONG. =	103.935211	°W
KOP (NAD 27 NME)			BHL (NAD 27 NME)		
Y =	463,893.1	N	Y =	472,178.0	N
X =	623,069.8	E	X =	623,015.9	E
LAT. =	32.274731	°N	LAT. =	32.297506	°N
LONG. =	103.935137	°W	LONG. =	103.935212	°W
FTP (NAD 27 NME)					
Y =	464,609.3	N			
X =	623,065.1	E			
LAT. =	32.276700	°N			
LONG. =	103.935143	°W			

CORNER COORDINATES (NAD83 NME)					
A - Y =	464,319.1	N	A - X =	663,469.2	E
B - Y =	466,979.3	N	B - X =	663,464.2	E
C - Y =	469,631.9	N	C - X =	663,440.1	E
D - Y =	472,289.1	N	D - X =	663,415.9	E
E - Y =	464,318.4	N	E - X =	664,794.2	E
F - Y =	466,979.1	N	F - X =	664,786.8	E
G - Y =	469,629.7	N	G - X =	664,763.7	E
H - Y =	472,287.4	N	H - X =	664,742.0	E
CORNER COORDINATES (NAD27 NME)					
A - Y =	464,259.2	N	A - X =	622,286.4	E
B - Y =	466,919.3	N	B - X =	622,281.5	E
C - Y =	469,571.9	N	C - X =	622,257.5	E
D - Y =	472,229.0	N	D - X =	622,233.4	E
E - Y =	464,258.5	N	E - X =	623,611.4	E
F - Y =	466,919.1	N	F - X =	623,604.1	E
G - Y =	469,569.7	N	G - X =	623,581.1	E
H - Y =	472,227.3	N	H - X =	623,559.5	E

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

XTO Energy Inc.

REMUDA NORTH 25 ST - 502H

Projected TD: 16156' MD / 8175' TVD

SHL: 2374' FSL & 1964' FEL , Section 25, T23S, R29E

BHL: 50' FNL & 1870' FEL , 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	203'	Water
Top of Salt	323'	Water
MB 126	1541'	Water
Base of Salt	3075'	Water
Delaware	3301'	Water/Oil/Gas
Brushy Canyon	5739'	Water
Bone Spring	70010'	Water/Oil/Gas
1st Bone Spring Ss	7997'	Water/Oil/Gas
Target/Land Curve	8175'	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 @ 298' (25' above the salt) and circulating cement back to surface. The salt will be isolated by setting 9.625 inch casing at 3300' 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 7258' and cementing to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 16156 MD/TD and 5.5 inch production casing will be set at TD and cemented back up to 2nd intermediate (estimated TOC 6758 feet) per Potash regulations.

3. Casing Design

Hole Size	MD	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
17.5	0' – 298'	13.375	54.5	J-55	BTC	New	2.77	8.58	55.97
12.25	0' – 3300'	9.625	40	J-55	BTC	New	2.19	2.74	4.77
8.75	0' – 3400'	7.625	29.7	RY P-110	Flush Joint	New	4.67	3.36	2.59
8.75	3400' – 7258'	7.625	29.7	HC L-80	Flush Joint	New	3.39	4.42	3.54
6.75	0' – 7158'	5.5	20	RY P-110	Semi-Premium / Freedom	New	1.26	3.31	2.85
6.75	7158' - 16156'	5.5	20	RY P-110	Semi-Flush / Talon	New	1.26	2.90	7.86

· XTO requests the option to utilize a spudder rig (Atlas Copco RD20 or Equivalent) to set and cement surface casing

XTO Permian Operating LLC will abide by R-111-Q and monitor separation Distance to offsets and maintain a Separation Factor greater than 1.0 while drilling through the salt intervals. For blind or inclination only wells, XTO Permian Operating LLC will maintain greater than 300 center-to-center separation.

Wellhead:

XTO Will use a 4 string Slim Hole Multi-Bowl system

4. Cement Program**Surface Casing: 13.375, 54.5 New BTC, J-55 casing to be set at +/- 298'**

Tail: 300 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 +/- 3300'

Lead: 1350 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 +/- 7258'1st Stage

Tail: 140 sxs Class C (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)
 TOC: Brushy Canyon @ 5739
 Compressives: 12-hr = 900 psi 24 hr = 1150 psi

2nd Stage

Tail: 430 sxs Class C (mixed at 14.8 ppg, 1.33 ft3/sx, 6.39 gal/sx water)
 Top of Cement: 2800
 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 (5739') and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to ~500' inside 1st intermediate csg string. 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. If cement reaches the desired height, the BLM will be notified and the second stage bradenhead squeeze and subsequent TOC verification will be negated.

XTO requests the option to conduct the bradenhead squeeze and TOC verification offline as per standard approval from BLM when unplanned remediation is needed and batch drilling is approved. In the event the bradenhead is conducted, we will ensure the first stage cement job is cemented properly and the well is static with floats holding and no pressure on the csg annulus as with all other casing strings where batch drilling operations occur before moving off the rig. The TA cap will also be installed per Cactus procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops.

Production Casing: 5.5, 20 New Semi-Flush / Talon, RY P-110 casing to be set at +/- 16156'

Lead: 20 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft3/sx, 15.00 gal/sx water) Top of Cement: 6758 feet
 Tail: 620 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft3/sx, 8.38 gal/sx water) Top of Cement: 7462 feet
 Compressives: 12-hr = 1375 psi 24 hr = 2285 psi

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

5. Pressure Control Equipment

Once the permanent WH is installed on the 13.375 casing, the blow out preventer equipment (BOP) will consist of a 13-5/8" minimum 5M Hydral and a 13-5/8" minimum 5M Triple Ram BOP. MASP should not exceed 2027 psi.

All BOP testing will be done by an independent service company. Operator will test as per BLM CFR43-3172

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. 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	Viscosity	Fluid Loss	Comments
			(ppg)	(sec/qt)	(cc)	
0' - 298'	17.5	FW/Native	8.5-9	35-40	NC	Fresh water or native water
298' - 3300'	12.25	Sat Brine	10-10.5	30-32	NC	Fully Saturated salt across salado
3300' to 7258'	8.75	BDE/OBM or FW/Brine	9-9.5	30-32	NC	N/A
7258' to 16156'	6.75	OBM	9-9.5	50-60	NC - 20	N/A

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 surface casing with saturated salt brine solution. A saturated salt brine 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

Open hole logging will not be done on this well.

9. Abnormal Pressures and Temperatures / Potential Hazards

None Anticipated. BHT of 150 to 170 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 3826 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.



U. S. Steel Tubular Products

5.500" 20.00lb/ft (0.361" Wall) P110 RY USS-FREEDOM HTQ®



MECHANICAL PROPERTIES	Pipe	USS-FREEDOM HTQ®		—
Minimum Yield Strength	110,000	—	psi	—
Maximum Yield Strength	125,000	—	psi	—
Minimum Tensile Strength	125,000	—	psi	—
DIMENSIONS	Pipe	USS-FREEDOM HTQ®		—
Outside Diameter	5.500	6.300	in.	—
Wall Thickness	0.361	--	in.	—
Inside Diameter	4.778	4.778	in.	—
Standard Drift	4.653	4.653	in.	—
Alternate Drift	--	--	in.	—
Nominal Linear Weight, T&C	20.00	--	lb/ft	—
Plain End Weight	19.83	--	lb/ft	—
SECTION AREA	Pipe	USS-FREEDOM HTQ®		—
Critical Area	5.828	5.828	sq. in.	—
Joint Efficiency	—	100.0	%	—
PERFORMANCE	Pipe	USS-FREEDOM HTQ®		—
Minimum Collapse Pressure	11,100	11,100	psi	—
Minimum Internal Yield Pressure	12,640	12,640	psi	—
Minimum Pipe Body Yield Strength	641,000	--	lb	—
Joint Strength	--	641,000	lb	—
Compression Rating	--	641,000	lb	—
Reference Length [4]	--	21,370	ft	—
Maximum Uniaxial Bend Rating [2]	--	91.7	deg/100 ft	—
MAKE-UP DATA	Pipe	USS-FREEDOM HTQ®		—
Make-Up Loss	--	4.13	in.	—
Minimum Make-Up Torque [3]	--	15,000	ft-lb	—
Maximum Make-Up Torque [3]	--	21,000	ft-lb	—
Maximum Operating Torque[3]	--	29,500	ft-lb	—

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Notes

1. Other than proprietary collapse and connection values, performance properties have been calculated using standard equations defined by API 5C3 and do not incorporate any additional design or safety factors. Calculations assume nominal pipe OD, nominal wall thickness, and Specified Minimum Yield Strength (SMYS).
2. Uniaxial bending rating shown is structural only, and equal to compression efficiency.
3. Torques have been calculated assuming a thread compound friction factor of 1.0 and are recommended only. Field make-up torques may require adjustment based on actual field conditions (e.g. make-up speed, temperature, thread compound, etc.).
4. Reference length is calculated by joint strength divided by plain end weight with 1.5 safety factor.

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U. S. Steel Tubular Products

5.500" 20.00lb/ft (0.361" Wall) P110 RY USS-TALON HTQ™ RD

				
MECHANICAL PROPERTIES	Pipe	USS-TALON HTQ™ RD		[6]
Minimum Yield Strength	110,000	—	psi	—
Maximum Yield Strength	125,000	—	psi	—
Minimum Tensile Strength	125,000	—	psi	—
DIMENSIONS	Pipe	USS-TALON HTQ™ RD		—
Outside Diameter	5.500	5.900	in.	—
Wall Thickness	0.361	--	in.	—
Inside Diameter	4.778	4.778	in.	—
Standard Drift	4.653	4.653	in.	—
Alternate Drift	—	--	in.	—
Nominal Linear Weight, T&C	20.00	--	lb/ft	—
Plain End Weight	19.83	--	lb/ft	—
SECTION AREA	Pipe	USS-TALON HTQ™ RD		—
Critical Area	5.828	5.828	sq. in.	--
Joint Efficiency	--	100.0	%	[2]
PERFORMANCE	Pipe	USS-TALON HTQ™ RD		—
Minimum Collapse Pressure	11,100	11,100	psi	--
Minimum Internal Yield Pressure	12,640	12,640	psi	--
Minimum Pipe Body Yield Strength	641,000	--	lb	--
Joint Strength	--	641,000	lb	--
Compression Rating	--	641,000	lb	--
Reference Length	--	21,370	ft	[5]
Maximum Uniaxial Bend Rating	--	91.7	deg/100 ft	[3]
MAKE-UP DATA	Pipe	USS-TALON HTQ™ RD		—
Make-Up Loss	--	5.58	in.	--
Minimum Make-Up Torque	--	17,000	ft-lb	[4]
Maximum Make-Up Torque	--	20,000	ft-lb	[4]
Maximum Operating Torque	--	39,500	ft-lb	[4]

UNCONTROLLED

Notes

- Other than proprietary collapse and connection values, performance properties have been calculated using standard equations defined by API 5C3 and do not incorporate any additional design or safety factors. Calculations assume nominal pipe OD, nominal wall thickness, and Specified Minimum Yield Strength (SMYS).
- Joint efficiencies are calculated by dividing the connection critical area by the pipe body area.
- Uniaxial bend rating shown is structural only.
- Torques have been calculated assuming a thread compound friction factor of 1.0 and are recommended only. Field make-up torques may require adjustment based on actual field conditions (e.g. make-up speed, temperature, thread compound, etc.).
- Reference length is calculated by Joint Strength divided by Nominal Linear Weight, T&C with a 1.5 Safety factor.
- Coupling must meet minimum mechanical properties of the pipe.

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NEW CHOKE HOSE
INSTALLED 02-10-2024

CERTIFICATE OF CONFORMANCE

This is to verify that the items detailed below meet the requirements of the Customer's Purchase Order referenced herein, and are in Conformance with applicable specifications, and that Records of Required Tests are on file and subject to examination. The following items were inspected and hydrostatically tested at **Gates Engineering & Services North America** facilities in Houston, TX, USA.

CUSTOMER: NABORS DRILLING TECHNOLOGIES USA DBA NABORS DRILLING USA
CUSTOMER P.O.#: 15582803 (TAG NABORS PO #15582803 SN 74621 ASSET 66-1531)
CUSTOMER P/N: IMR RETEST SN 74621 ASSET #66-1531

PART DESCRIPTION: RETEST OF CUSTOMER 3" X 45 FT 16C CHOKE & KILL HOSE ASSEMBLY C/W 4 1/16" 10K FLANGES

SALES ORDER #: 529480
QUANTITY: 1
SERIAL #: 74621 H3-012524-1

SIGNATURE:*F. Cismos***TITLE:****QUALITY ASSURANCE****DATE:**

1/25/2024



H3-15/16

1/25/2024 11:48:06 AM

TEST REPORT

CUSTOMER

Company: Nabors Industries Inc.

Production description: 74621/66-1531

Sales order #: 529480

Customer reference: FG1213

TEST OBJECT

Serial number: H3-012524-1

Lot number:

Description: 74621/66-1531

Hose ID: 3" 16C CK

Part number:

TEST INFORMATION

Test procedure: GTS-04-053

Test pressure: 15000.00 psi

Test pressure hold: 3600.00 sec

Work pressure: 10000.00 psi

Work pressure hold: 900.00 sec

Length difference: 0.00 %

Length difference: 0.00 inch

Fitting 1: 3.0 x 4-1/16 10K

Part number:

Description:

Fitting 2: 3.0 x 4-1/16 10K

Part number:

Description:

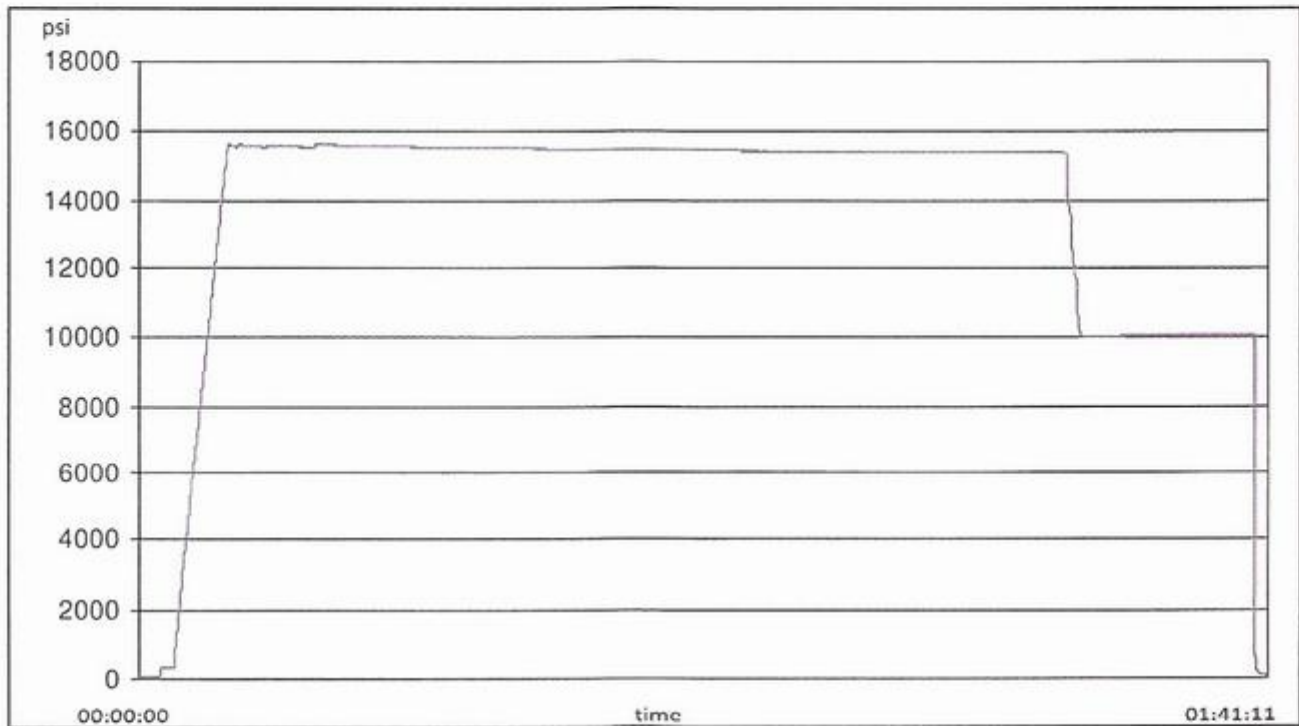
Visual check:

Pressure test result: PASS

Length measurement result:

Length: 45 feet

Test operator: Travis





H3-15/16

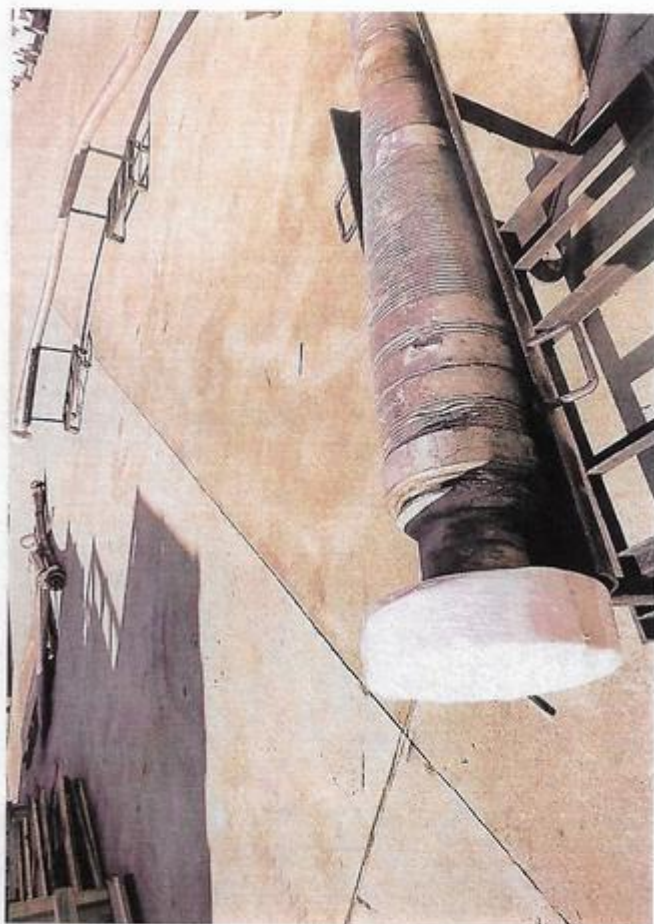
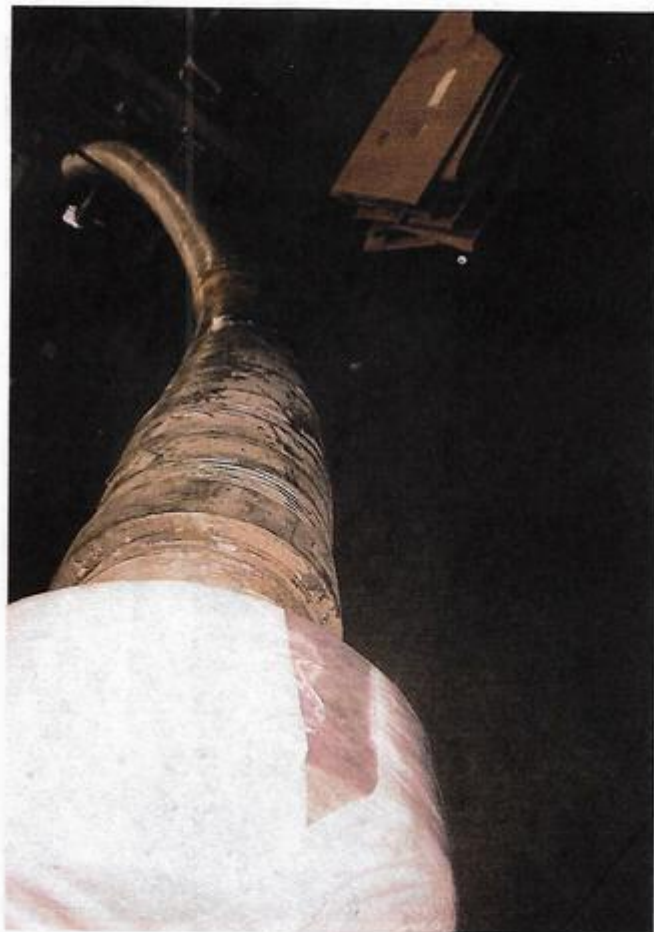
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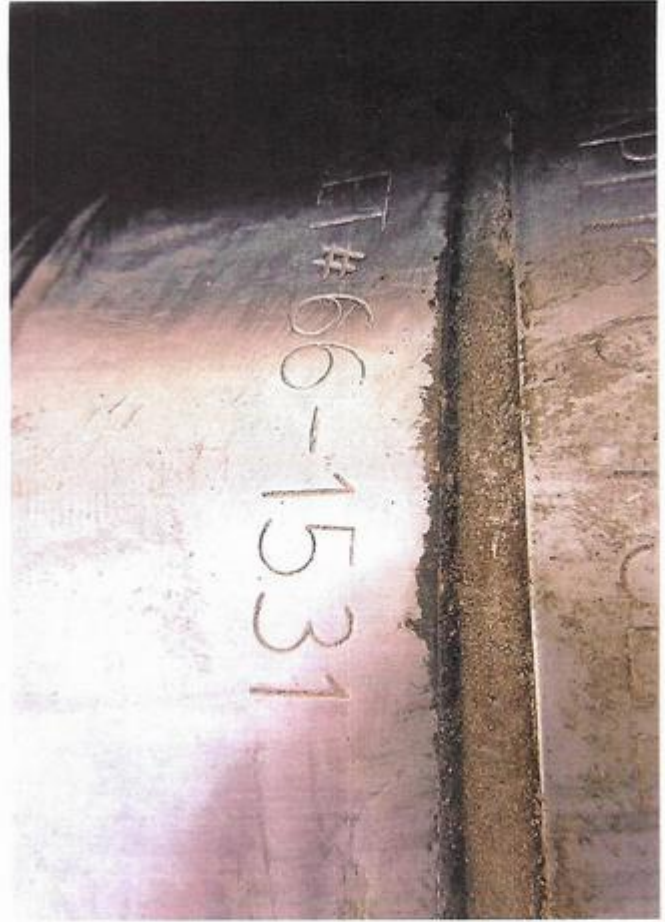
TEST REPORT

GAUGE TRACEABILITY

Description	Serial number	Calibration date	Calibration due date
S-25-A-W	110D3PHO	2023-06-06	2024-06-06
S-25-A-W	110IQWDG	2023-05-16	2024-05-16

Comment





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 90 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.

XTO Permian Operating, LLC Offline Cementing Variance Request

XTO requests the option to cement the surface and intermediate casing strings offline as a prudent batch drilling efficiency of acreage development.

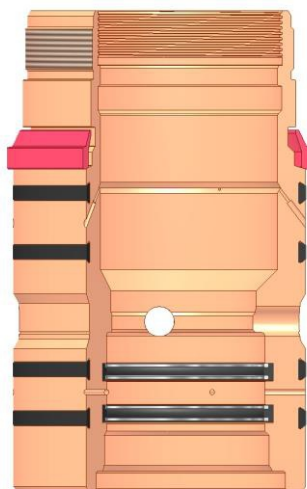
1. Cement Program

No changes to the cement program will take place for offline cementing.

2. Offline Cementing Procedure

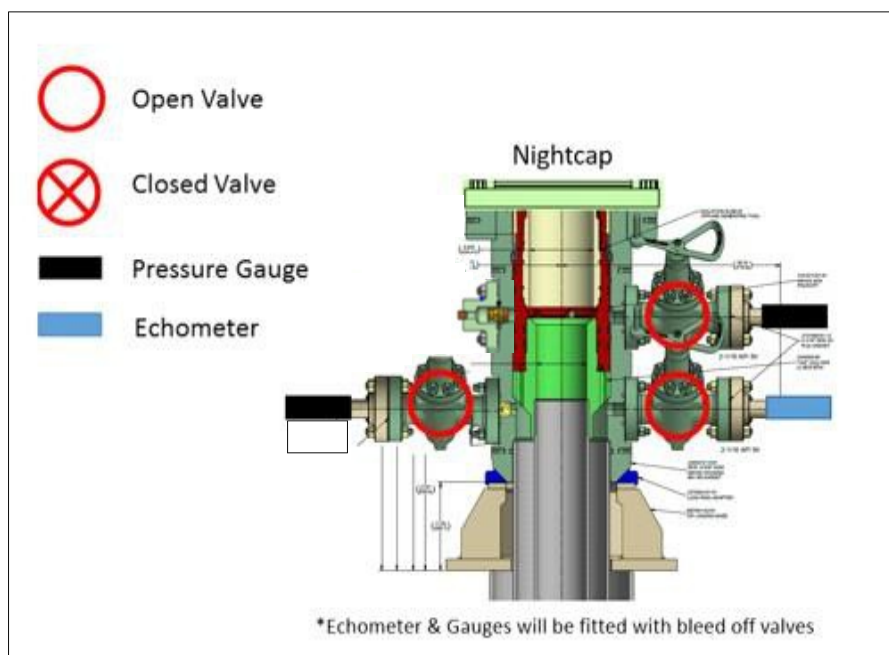
The operational sequence will be as follows. If a well control event occurs, the BLM will be contacted for approval prior to conducting offline cementing operations.

1. Run casing as per normal operations. While running casing, conduct negative pressure test and confirm integrity of the float equipment (float collar and shoe)
2. Land casing with mandrel
3. Fill pipe with kill weight fluid, do not circulate through floats and confirm well is static
4. Set annular packoff shown below and pressure test to confirm integrity of the seal. Pressure ratings of wellhead components and valves is 5,000 psi.
5. After confirmation of both annular barriers and internal barriers, nipple down BOP and install cap flange.
 - a. If any barrier fails to test, the BOP stack will not be nipped down until after the cement job is completed with cement 500ft above the highest formation capable of flow with kill weight mud above or after it has achieved 50-psi compressive strength if kill weight fluid cannot be verified.



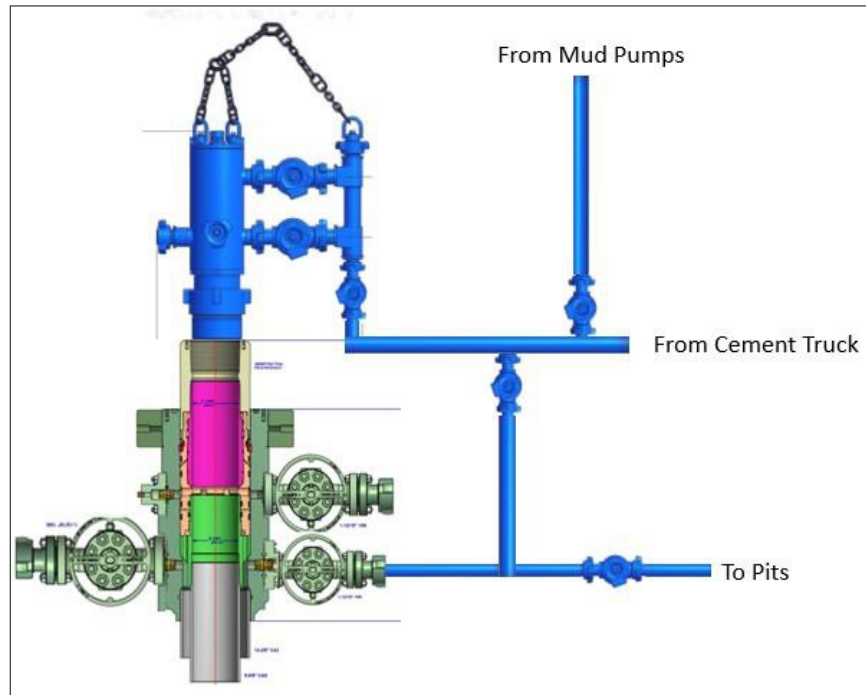
Annular packoff with both external and internal seals

XTO Permian Operating, LLC Offline Cementing Variance Request



Wellhead diagram during skidding operations

6. Skid rig to next well on pad.
7. Confirm well is static before removing cap flange, flange will not be removed and offline cementing operations will not commence until well is under control. If well is not static, casing outlet valves will provide access to both the casing ID and annulus. Rig or third party pump truck will kill well prior to cementing or nipping up for further remediation.
 - a. Well Control Plan
 - i. The Drillers Method will be the primary well control method to regain control of the wellbore prior to cementing, if wellbore conditions do not permit the drillers method other methods of well control may be used
 - ii. Rig pumps or a 3rd party pump will be tied into the upper casing valve to pump down the casing ID
 - iii. A high pressure return line will be rigged up to lower casing valve and run to choke manifold to control annular pressure
 - iv. Once influx is circulated out of the hole, kill weight mud will be circulated
 - v. Well will be confirmed static
 - vi. Once confirmed static, cap flange will be removed to allow for offline cementing operations to commence
8. Install offline cement tool
9. Rig up cement equipment

XTO Permian Operating, LLC Offline Cementing Variance Request

Wellhead diagram during offline cementing operations

10. Circulate bottoms up with cement truck
 - a. If gas is present on bottoms up, well will be shut in and returns rerouted through gas buster to handle entrained gas
 - b. Max anticipated time before circulating with cement truck is 6 hrs
11. Perform cement job taking returns from the annulus wellhead valve
12. Confirm well is static and floats are holding after cement job
13. Remove cement equipment, offline cement tools and install night cap with pressure gauge for monitoring.

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

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

Background

Onshore Oil and Gas Order CFR Title 43 Part 3170, Drilling Operations, Sections III.A.2.i.iv.B states that the BOP test must be performed whenever any seal subject to test pressure is broken. The current interpretation of the Bureau of Land Management (BLM) requires a complete BOP test and not just a test of the affected component. CFR Title 43 Part 3170 states, "Some situation may exist either on a well-by-well basis or field-wide basis whereby it is commonly accepted practice to vary a particular minimum standard(s) established in this order. This situation can be resolved by requesting a variance...". XTO Energy feels the break testing the BOPE is such a situation. Therefore, as per CFR Title 43 Part 3170, XTO Energy submits this request for the variance.

Supporting Documentation

CFR Title 43 Part 3170 became effective on December 19, 1988 and has remained the standard for regulating BLM onshore drilling operations for over 30 years. During this time there have been significant changes in drilling technology. BLM continues to use the variance request process to allow for the use of modern technology and acceptable engineering practices that have arisen since CFR Title 43 Part 3170 was originally released. The XTO Energy drilling rig fleet has many modern upgrades that allow the intact BOP stack to be moved between well slots on a multi-well pad, as well as, wellhead designs that incorporate quick connects facilitating release of the BOP from the wellhead without breaking any BOP stack components apart. These technologies have been used extensively offshore, and other regulators, API, and many operators around the world have endorsed break testing as safe and reliable.

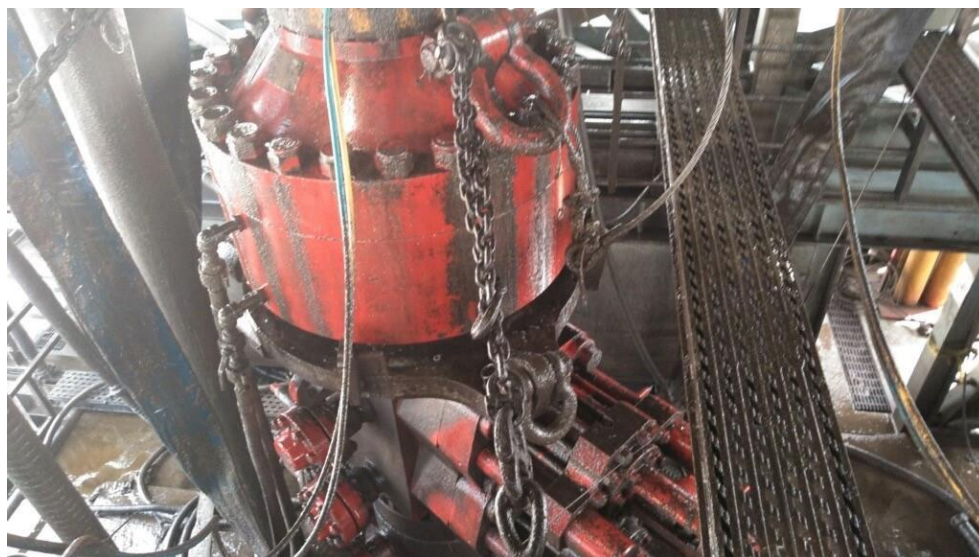


Figure 1: Winch System attached to BOP Stack

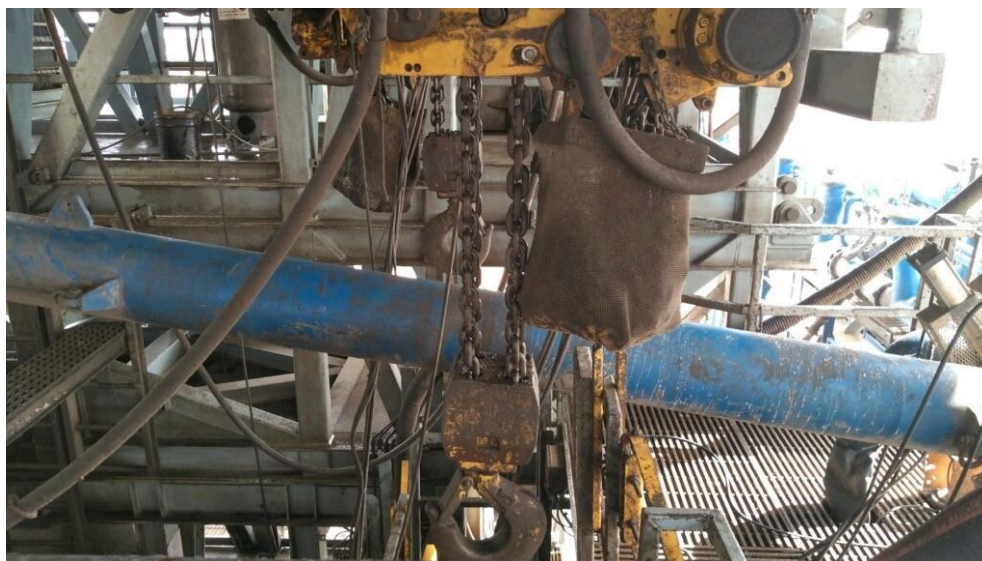


Figure 2: BOP Winch System

American Petroleum Institute (API) standards, specification and recommended practices are considered the industry standard and are consistently utilized and referenced by the industry. CFR Title 43 Part 3170 recognizes API recommended Practices (RP) 53 in its original development. API Standard 53, *Well Control Equipment Systems for Drilling Wells* (Fifth Edition, December 2018, Annex C, Table C.4) recognizes break testing as an acceptable practice. Specifically, API Standard 53, Section 5.3.7.1 states “A pressure test of the pressure containing component shall be performed following the disconnection or repair, limited to the affected component.” See Table C.4 below for reference.

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API STANDARD 53

Table C.4—Initial Pressure Testing, Surface BOP Stacks

Component to be Pressure Tested	Pressure Test—Low Pressure ^{ac} psig (MPa)	Pressure Test—High Pressure ^{ac}	
		Change Out of Component, Elastomer, or Ring Gasket	No Change Out of Component, Elastomer, or Ring Gasket
Annular preventer ^a	250 to 350 (1.72 to 2.41)	RWP of annular preventer	MASP or 70% annular RWP, whichever is lower.
Fixed pipe, variable bore, blind, and BSR preventers ^{bd}	250 to 350 (1.72 to 2.41)	RWP of ram preventer or wellhead system, whichever is lower	ITP
Choke and kill line and BOP side outlet valves below ram preventers (both sides)	250 to 350 (1.72 to 2.41)	RWP of side outlet valve or wellhead system, whichever is lower	ITP
Choke manifold—upstream of chokes ^e	250 to 350 (1.72 to 2.41)	RWP of ram preventers or wellhead system, whichever is lower	ITP
Choke manifold—downstream of chokes ^e	250 to 350 (1.72 to 2.41)	RWP of valve(s), line(s), or MASP for the well program, whichever is lower	
Kelly, kelly valves, drill pipe safety valves, IBOPs	250 to 350 (1.72 to 2.41)	MASP for the well program	

^a Pressure test evaluation periods shall be a minimum of five minutes.

No visible leaks.

The pressure shall remain stable during the evaluation period. The pressure shall not decrease below the intended test pressure.

^b Annular(s) and VBR(s) shall be pressure tested on the largest and smallest OD drill pipe to be used in well program.

^c For pad drilling operations, moving from one wellhead to another within the 21 days, pressure testing is required for pressure-containing and pressure-controlling connections when the integrity of a pressure seal is broken.

^d For surface offshore operations, the ram BOPs shall be pressure tested with the ram locks engaged and the closing and locking pressure vented during the initial test. For land operations, the ram BOPs shall be pressure tested with the ram locks engaged and the closing and locking pressure vented at commissioning and annually.

^e Adjustable chokes are not required to be full sealing devices. Pressure testing against a closed choke is not required.

The Bureau of Safety and Environmental Enforcement (BSEE), Department of Interior, has also utilized the API standards, specification and best practices in the development of its offshore oil and gas regulations and incorporates them by reference within its regulations.

Break testing has been approved by the BLM in the past with other operators based on the detailed information provided in this document.

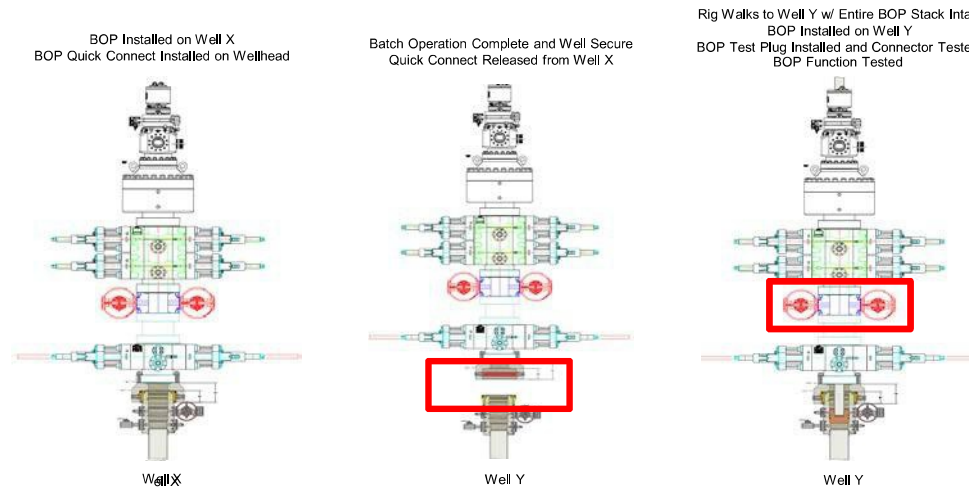
XTO Energy feels break testing and our current procedures meet the intent of CFR Title 43 Part 317 0and often exceed it. There has been no evidence that break testing results in more components failing than seen on full BOP tests. XTO Energy's internal standards requires complete BOPE tests more often than that of CFR Title 43 Part 3170 (Every 21 days). In addition to function testing the annular, pipe rams and blind rams after each BOP nipple up, XTO Energy performs a choke drill with the rig crew prior to drilling out every casing shoe. This is additional training for the rig crew that exceeds the requirements of the CFR Title 43 Part 3170.

Procedures

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

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

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



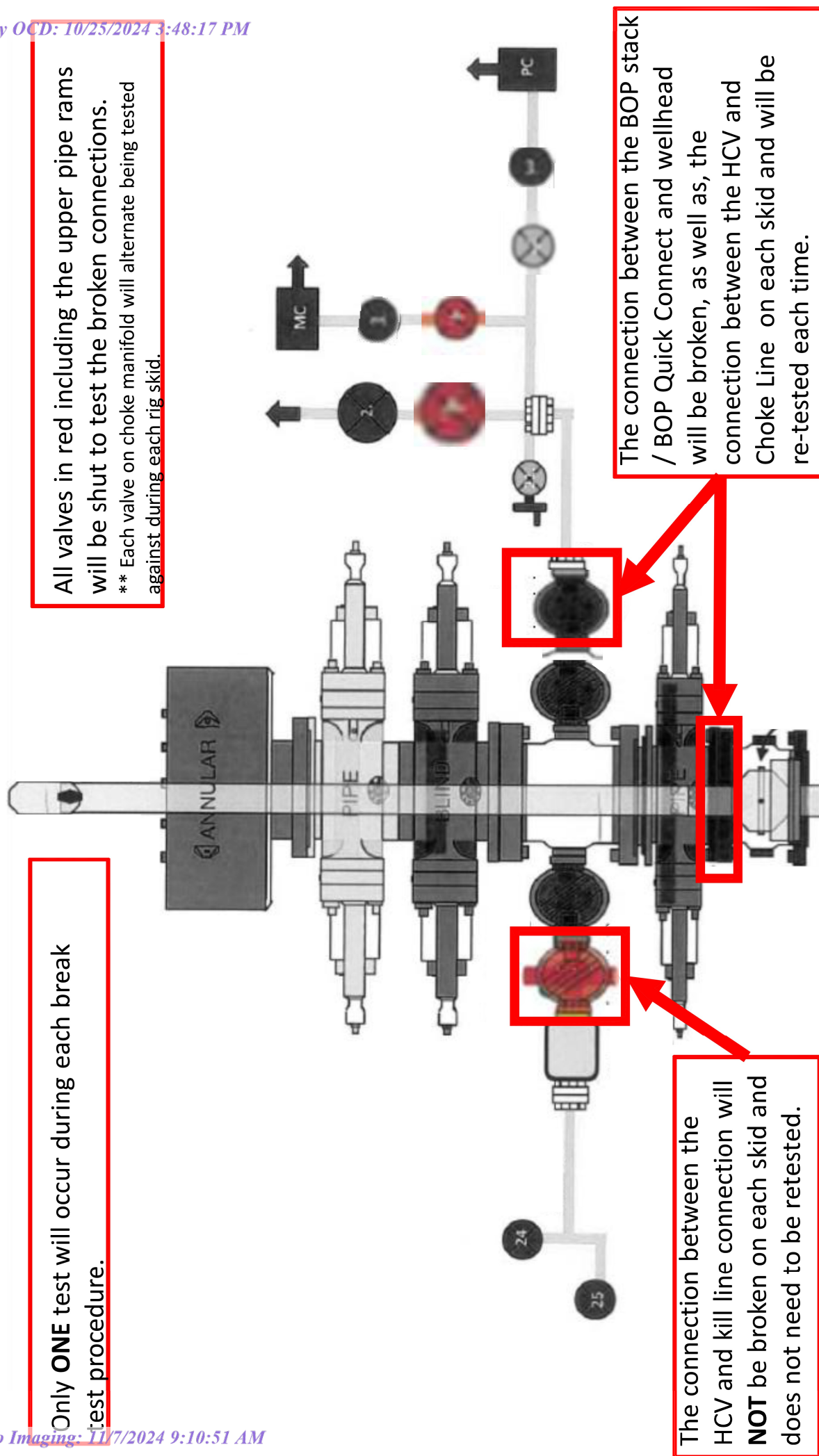
Summary

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

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

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

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



Well Plan Report - Remuda North 25 ST 502H

Measured Depth:	16156.24 ft	Site:	B
TVD RKB:	8175.00 ft	Slot:	Remuda North 25 ST 502H
Location			
Cartographic Reference System:	New Mexico East - NAD 27		
Northing:	463982.10 ft		
Easting:	622973.60 ft		
RKB:	3091.00 ft		
Ground Level:	471948.60 ft		
North Reference:	Grid		
Convergence Angle:	0.21 Deg		

Plan Sections Remuda North 25 ST 502H

Measured		Inclination		Azimuth		TVD		Y Offset		X Offset		Build		Turn		Dogleg	
Depth	(ft)	(Deg)	(Deg)	(Deg)	(ft)	RKB	(ft)	(ft)	(ft)	(ft)	(ft)	Rate	(Deg/100ft)	Rate	(Deg/100ft)	Rate	(Deg/100ft)
0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3100.00		0.00	0.00	0.00	3100.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3260.25		3.20	132.78	132.78	3260.16			-3.04	3.29	3.29	0.00	2.00	0.00	0.00	0.00	2.00	0.00
5443.34		3.20	132.78	132.78	5439.84			-85.94	92.87	92.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5603.58		0.00	0.00	0.00	5600.00			-88.98	96.16	96.16	-2.00	0.00	0.00	0.00	0.00	2.00	0.00
7462.38		0.00	0.00	0.00	7458.80			-88.98	96.16	96.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8587.38		90.00	359.63	359.63	8175.00			627.20	91.50	91.50	8.00	0.00	0.00	0.00	0.00	8.00	FTP 4
16106.24		90.00	359.63	359.63	8175.00			8145.90	42.60	42.60	0.00	0.00	0.00	0.00	0.00	0.00	LTP 4
16156.24		90.00	359.63	359.63	8175.00			8195.90	42.27	42.27	0.00	0.00	0.00	0.00	0.00	0.00	BHL 4

Position Uncertainty Remuda North 25 ST 502H

Measured	TVD	Highside	Lateral	Vertical	Magnitude	Semi-major	Semi-minor	Tool
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Depth (ft)	Inclination (°)	Azimuth (°)	RKB (ft)	Error (ft)	Bias (ft)	Error (ft)	Bias (ft)	Error (ft)	of Bias (ft)	Error (ft)	Error (ft)	Azimuth (°)	Used
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	MWD+IFR1+MS
100.000	0.000	0.000	100.000	0.700	0.000	0.350	0.000	2.300	0.000	0.751	0.220	112.264	MWD+IFR1+MS
200.000	0.000	0.000	200.000	1.112	0.000	0.861	0.000	2.309	0.000	1.259	0.627	122.711	MWD+IFR1+MS
300.000	0.000	0.000	300.000	1.497	0.000	1.271	0.000	2.325	0.000	1.698	0.986	125.469	MWD+IFR1+MS
400.000	0.000	0.000	400.000	1.871	0.000	1.658	0.000	2.346	0.000	2.108	1.344	126.713	MWD+IFR1+MS
500.000	0.000	0.000	500.000	2.240	0.000	2.034	0.000	2.372	0.000	2.503	1.701	127.419	MWD+IFR1+MS
600.000	0.000	0.000	600.000	2.607	0.000	2.405	0.000	2.404	0.000	2.888	2.059	127.873	MWD+IFR1+MS
700.000	0.000	0.000	700.000	2.971	0.000	2.773	0.000	2.440	0.000	3.267	2.417	128.190	MWD+IFR1+MS
800.000	0.000	0.000	800.000	3.334	0.000	3.138	0.000	2.481	0.000	3.642	2.775	128.423	MWD+IFR1+MS
900.000	0.000	0.000	900.000	3.696	0.000	3.502	0.000	2.526	0.000	4.014	3.133	128.602	MWD+IFR1+MS
1000.000	0.000	0.000	1000.000	4.058	0.000	3.865	0.000	2.575	0.000	4.384	3.491	128.744	MWD+IFR1+MS
1100.000	0.000	0.000	1100.000	4.419	0.000	4.228	0.000	2.627	0.000	4.752	3.849	128.859	MWD+IFR1+MS
1200.000	0.000	0.000	1200.000	4.779	0.000	4.589	0.000	2.683	0.000	5.119	4.207	128.954	MWD+IFR1+MS
1300.000	0.000	0.000	1300.000	5.140	0.000	4.950	0.000	2.742	0.000	5.484	4.565	129.034	MWD+IFR1+MS
1400.000	0.000	0.000	1400.000	5.500	0.000	5.311	0.000	2.804	0.000	5.849	4.924	129.102	MWD+IFR1+MS
1500.000	0.000	0.000	1500.000	5.860	0.000	5.672	0.000	2.869	0.000	6.213	5.282	129.161	MWD+IFR1+MS
1600.000	0.000	0.000	1600.000	6.219	0.000	6.032	0.000	2.936	0.000	6.577	5.640	129.212	MWD+IFR1+MS
1700.000	0.000	0.000	1700.000	6.579	0.000	6.392	0.000	3.005	0.000	6.939	5.999	129.257	MWD+IFR1+MS
1800.000	0.000	0.000	1800.000	6.938	0.000	6.752	0.000	3.076	0.000	7.302	6.357	129.297	MWD+IFR1+MS
1900.000	0.000	0.000	1900.000	7.298	0.000	7.112	0.000	3.150	0.000	7.664	6.715	129.333	MWD+IFR1+MS
2000.000	0.000	0.000	2000.000	7.657	0.000	7.471	0.000	3.225	0.000	8.026	7.074	129.365	MWD+IFR1+MS
2100.000	0.000	0.000	2100.000	8.016	0.000	7.831	0.000	3.303	0.000	8.387	7.432	129.394	MWD+IFR1+MS
2200.000	0.000	0.000	2200.000	8.375	0.000	8.190	0.000	3.382	0.000	8.748	7.791	129.420	MWD+IFR1+MS
2300.000	0.000	0.000	2300.000	8.734	0.000	8.550	0.000	3.462	0.000	9.109	8.149	129.444	MWD+IFR1+MS
2400.000	0.000	0.000	2400.000	9.093	0.000	8.909	0.000	3.545	0.000	9.470	8.507	129.466	MWD+IFR1+MS
2500.000	0.000	0.000	2500.000	9.452	0.000	9.268	0.000	3.628	0.000	9.831	8.866	129.486	MWD+IFR1+MS
2600.000	0.000	0.000	2600.000	9.811	0.000	9.627	0.000	3.714	0.000	10.191	9.224	129.505	MWD+IFR1+MS
2700.000	0.000	0.000	2700.000	10.170	0.000	9.986	0.000	3.801	0.000	10.552	9.583	129.522	MWD+IFR1+MS
2800.000	0.000	0.000	2800.000	10.529	0.000	10.345	0.000	3.889	0.000	10.912	9.941	129.538	MWD+IFR1+MS
2900.000	0.000	0.000	2900.000	10.888	0.000	10.705	0.000	3.979	0.000	11.272	10.299	129.552	MWD+IFR1+MS
3000.000	0.000	0.000	3000.000	11.247	0.000	11.063	0.000	4.070	0.000	11.632	10.658	129.566	MWD+IFR1+MS

Well Plan Report

3100.000	0.000	0.000	3100.000	11.606	0.000	11.422	0.000	4.163	0.000	0.000	11.992	11.016	129.579	MWD+IFR1+MS
3200.000	2.000	132.780	3199.980	11.418	0.000	12.306	-0.000	4.257	0.000	0.000	12.309	11.421	129.576	MWD+IFR1+MS
3260.246	3.205	132.780	3260.163	11.659	0.000	12.493	-0.000	4.314	0.000	0.000	12.498	11.670	128.316	MWD+IFR1+MS
3300.000	3.205	132.780	3299.854	11.793	0.000	12.615	-0.000	4.351	0.000	0.000	12.620	11.804	128.087	MWD+IFR1+MS
3400.000	3.205	132.780	3399.698	12.128	0.000	12.929	-0.000	4.448	0.000	0.000	12.936	12.136	127.353	MWD+IFR1+MS
3500.000	3.205	132.780	3499.541	12.471	0.000	13.253	-0.000	4.547	0.000	0.000	13.264	12.475	126.125	MWD+IFR1+MS
3600.000	3.205	132.780	3599.385	12.815	0.000	13.579	-0.000	4.648	0.000	0.000	13.594	12.815	124.933	MWD+IFR1+MS
3700.000	3.205	132.780	3699.229	13.160	0.000	13.907	-0.000	4.750	0.000	0.000	13.926	13.155	123.779	MWD+IFR1+MS
3800.000	3.205	132.780	3799.072	13.506	0.000	14.237	-0.000	4.853	0.000	0.000	14.260	13.495	122.665	MWD+IFR1+MS
3900.000	3.205	132.780	3898.916	13.853	0.000	14.568	-0.000	4.959	0.000	0.000	14.596	13.836	121.594	MWD+IFR1+MS
4000.000	3.205	132.780	3998.759	14.200	0.000	14.901	-0.000	5.066	0.000	0.000	14.934	14.178	120.567	MWD+IFR1+MS
4100.000	3.205	132.780	4098.603	14.548	0.000	15.235	-0.000	5.174	0.000	0.000	15.273	14.520	119.585	MWD+IFR1+MS
4200.000	3.205	132.780	4198.447	14.897	0.000	15.570	-0.000	5.285	0.000	0.000	15.614	14.862	118.646	MWD+IFR1+MS
4300.000	3.205	132.780	4298.290	15.246	0.000	15.906	-0.000	5.397	0.000	0.000	15.956	15.205	117.751	MWD+IFR1+MS
4400.000	3.205	132.780	4398.134	15.596	0.000	16.244	-0.000	5.510	0.000	0.000	16.299	15.548	116.900	MWD+IFR1+MS
4500.000	3.205	132.780	4497.977	15.946	0.000	16.583	-0.000	5.626	0.000	0.000	16.644	15.892	116.090	MWD+IFR1+MS
4600.000	3.205	132.780	4597.821	16.297	0.000	16.923	-0.000	5.744	0.000	0.000	16.989	16.236	115.322	MWD+IFR1+MS
4700.000	3.205	132.780	4697.665	16.648	0.000	17.263	-0.000	5.863	0.000	0.000	17.335	16.581	114.592	MWD+IFR1+MS
4800.000	3.205	132.780	4797.508	16.999	0.000	17.605	-0.000	5.984	0.000	0.000	17.683	16.926	113.901	MWD+IFR1+MS
4900.000	3.205	132.780	4897.352	17.351	0.000	17.947	-0.000	6.107	0.000	0.000	18.031	17.272	113.245	MWD+IFR1+MS
5000.000	3.205	132.780	4997.195	17.703	0.000	18.291	-0.000	6.232	0.000	0.000	18.379	17.618	112.625	MWD+IFR1+MS
5100.000	3.205	132.780	5097.039	18.056	0.000	18.635	-0.000	6.360	0.000	0.000	18.729	17.964	112.037	MWD+IFR1+MS
5200.000	3.205	132.780	5196.883	18.409	0.000	18.979	-0.000	6.489	0.000	0.000	19.079	18.311	111.480	MWD+IFR1+MS
5300.000	3.205	132.780	5296.726	18.762	0.000	19.325	-0.000	6.620	0.000	0.000	19.429	18.659	110.953	MWD+IFR1+MS
5400.000	3.205	132.780	5396.570	19.115	0.000	19.671	-0.000	6.753	0.000	0.000	19.780	19.006	110.453	MWD+IFR1+MS
5443.335	3.205	132.780	5439.837	19.265	0.000	19.818	-0.000	6.812	0.000	0.000	19.927	19.156	110.408	MWD+IFR1+MS
5500.000	2.072	132.780	5496.441	19.473	0.000	20.009	-0.000	6.889	0.000	0.000	20.121	19.355	110.194	MWD+IFR1+MS
5603.582	0.000	0.000	5600.000	20.392	0.000	19.818	0.000	7.031	0.000	0.000	20.488	19.719	110.836	MWD+IFR1+MS
5700.000	0.000	0.000	5696.418	20.771	0.000	20.159	0.000	7.165	0.000	0.000	20.872	20.054	110.818	MWD+IFR1+MS
5800.000	0.000	0.000	5796.418	21.119	0.000	20.514	0.000	7.306	0.000	0.000	21.224	20.405	111.161	MWD+IFR1+MS
5900.000	0.000	0.000	5896.418	21.469	0.000	20.869	0.000	7.449	0.000	0.000	21.577	20.757	111.508	MWD+IFR1+MS
6000.000	0.000	0.000	5996.418	21.818	0.000	21.224	0.000	7.594	0.000	0.000	21.930	21.109	111.842	MWD+IFR1+MS
6100.000	0.000	0.000	6096.418	22.168	0.000	21.580	0.000	7.742	0.000	0.000	22.283	21.461	112.165	MWD+IFR1+MS

6200.000	0.000	0.000	6196.418	22.518	0.000	21.935	0.000	7.892	0.000	0.000	22.636	21.813	112.477	MWD+IFR1+MS
6300.000	0.000	0.000	6296.418	22.868	0.000	22.291	0.000	8.044	0.000	0.000	22.990	22.165	112.778	MWD+IFR1+MS
6400.000	0.000	0.000	6396.418	23.219	0.000	22.646	0.000	8.199	0.000	0.000	23.344	22.517	113.068	MWD+IFR1+MS
6500.000	0.000	0.000	6496.418	23.570	0.000	23.002	0.000	8.356	0.000	0.000	23.698	22.870	113.349	MWD+IFR1+MS
6600.000	0.000	0.000	6596.418	23.921	0.000	23.358	0.000	8.516	0.000	0.000	24.052	23.223	113.620	MWD+IFR1+MS
6700.000	0.000	0.000	6696.418	24.272	0.000	23.714	0.000	8.678	0.000	0.000	24.406	23.575	113.883	MWD+IFR1+MS
6800.000	0.000	0.000	6796.418	24.623	0.000	24.069	0.000	8.843	0.000	0.000	24.761	23.928	114.137	MWD+IFR1+MS
6900.000	0.000	0.000	6896.418	24.975	0.000	24.425	0.000	9.010	0.000	0.000	25.115	24.281	114.383	MWD+IFR1+MS
7000.000	0.000	0.000	6996.418	25.327	0.000	24.782	0.000	9.179	0.000	0.000	25.470	24.635	114.621	MWD+IFR1+MS
7100.000	0.000	0.000	7096.418	25.679	0.000	25.138	0.000	9.352	0.000	0.000	25.825	24.988	114.851	MWD+IFR1+MS
7200.000	0.000	0.000	7196.418	26.031	0.000	25.494	0.000	9.527	0.000	0.000	26.180	25.341	115.074	MWD+IFR1+MS
7300.000	0.000	0.000	7296.418	26.384	0.000	25.850	0.000	9.704	0.000	0.000	26.535	25.695	115.291	MWD+IFR1+MS
7400.000	0.000	0.000	7396.418	26.736	0.000	26.207	0.000	9.884	0.000	0.000	26.890	26.049	115.501	MWD+IFR1+MS
7462.384	0.000	0.000	7458.803	26.954	0.000	26.426	0.000	9.998	0.000	0.000	27.107	26.269	115.522	MWD+IFR1+MS
7500.000	3.009	359.627	7496.401	27.043	0.000	26.562	0.000	10.066	0.000	0.000	27.246	26.402	115.297	MWD+IFR1+MS
7600.000	11.009	359.627	7595.573	27.696	0.000	26.907	0.000	10.291	0.000	0.000	28.249	26.803	105.024	MWD+IFR1+MS
7700.000	19.009	359.627	7692.083	28.676	0.000	27.244	0.000	10.730	0.000	0.000	29.924	27.164	99.234	MWD+IFR1+MS
7800.000	27.009	359.627	7784.053	29.166	0.000	27.565	0.000	11.468	0.000	0.000	31.392	27.487	97.524	MWD+IFR1+MS
7900.000	35.009	359.627	7869.691	29.215	0.000	27.868	0.000	12.548	0.000	0.000	32.625	27.786	96.827	MWD+IFR1+MS
8000.000	43.009	359.627	7947.333	28.886	0.000	28.152	0.000	13.950	0.000	0.000	33.616	28.064	96.550	MWD+IFR1+MS
8100.000	51.009	359.627	8015.465	28.262	0.000	28.417	0.000	15.616	0.000	0.000	34.373	28.321	96.499	MWD+IFR1+MS
8200.000	59.009	359.627	8072.763	27.449	0.000	28.662	0.000	17.470	0.000	0.000	34.911	28.558	96.593	MWD+IFR1+MS
8300.000	67.009	359.627	8118.111	26.575	0.000	28.888	0.000	19.436	0.000	0.000	35.259	28.777	96.784	MWD+IFR1+MS
8400.000	75.009	359.627	8150.626	25.790	0.000	29.096	0.000	21.444	0.000	0.000	35.449	28.977	97.034	MWD+IFR1+MS
8500.000	83.009	359.627	8169.676	25.252	0.000	29.286	0.000	23.428	0.000	0.000	35.528	29.160	97.297	MWD+IFR1+MS
8587.384	90.000	359.627	8175.000	24.748	0.000	29.433	0.000	24.748	0.000	0.000	35.545	29.304	97.480	MWD+IFR1+MS
8600.000	90.000	359.627	8175.000	24.772	0.000	29.452	0.000	24.772	0.000	0.000	35.547	29.323	97.501	MWD+IFR1+MS
8700.000	90.000	359.627	8175.000	24.931	0.000	29.625	0.000	24.931	0.000	0.000	35.554	29.494	97.700	MWD+IFR1+MS
8800.000	90.000	359.627	8175.000	25.118	0.000	29.828	0.000	25.118	0.000	0.000	35.562	29.693	97.947	MWD+IFR1+MS
8900.000	90.000	359.627	8175.000	25.329	0.000	30.055	0.000	25.329	0.000	0.000	35.572	29.916	98.244	MWD+IFR1+MS
9000.000	90.000	359.627	8175.000	25.561	0.000	30.306	0.000	25.561	0.000	0.000	35.583	30.163	98.599	MWD+IFR1+MS
9100.000	90.000	359.627	8175.000	25.816	0.000	30.580	0.000	25.816	0.000	0.000	35.596	30.431	99.024	MWD+IFR1+MS
9200.000	90.000	359.627	8175.000	26.092	0.000	30.877	0.000	26.092	0.000	0.000	35.610	30.721	99.533	MWD+IFR1+MS

9300.000	90.000	359.627	8175.000	26.388	0.000	31.196	0.000	26.388	0.000	35.626	31.032	100.149	MWD+IFR1+MS
9400.000	90.000	359.627	8175.000	26.704	0.000	31.536	0.000	26.704	0.000	35.645	31.362	100.899	MWD+IFR1+MS
9500.000	90.000	359.627	8175.000	27.039	0.000	31.898	0.000	27.039	0.000	35.666	31.711	101.823	MWD+IFR1+MS
9600.000	90.000	359.627	8175.000	27.392	0.000	32.279	0.000	27.392	0.000	35.692	32.075	102.978	MWD+IFR1+MS
9700.000	90.000	359.627	8175.000	27.763	0.000	32.679	0.000	27.763	0.000	35.723	32.455	104.448	MWD+IFR1+MS
9800.000	90.000	359.627	8175.000	28.151	0.000	33.098	0.000	28.151	0.000	35.761	32.847	106.358	MWD+IFR1+MS
9900.000	90.000	359.627	8175.000	28.556	0.000	33.535	0.000	28.556	0.000	35.809	33.246	108.897	MWD+IFR1+MS
10000.000	90.000	359.627	8175.000	28.976	0.000	33.989	0.000	28.976	0.000	35.874	33.647	112.356	MWD+IFR1+MS
10100.000	90.000	359.627	8175.000	29.411	0.000	34.459	0.000	29.411	0.000	35.964	34.039	117.140	MWD+IFR1+MS
10200.000	90.000	359.627	8175.000	29.860	0.000	34.946	0.000	29.860	0.000	36.096	34.407	123.689	MWD+IFR1+MS
10300.000	90.000	359.627	8175.000	30.323	0.000	35.447	0.000	30.323	0.000	36.290	34.727	132.053	MWD+IFR1+MS
10400.000	90.000	359.627	8175.000	30.799	0.000	35.963	0.000	30.799	0.000	36.567	34.980	-38.768	MWD+IFR1+MS
10500.000	90.000	359.627	8175.000	31.287	0.000	36.493	0.000	31.287	0.000	36.930	35.162	-30.469	MWD+IFR1+MS
10600.000	90.000	359.627	8175.000	31.787	0.000	37.037	0.000	31.787	0.000	37.362	35.288	-23.998	MWD+IFR1+MS
10700.000	90.000	359.627	8175.000	32.299	0.000	37.593	0.000	32.299	0.000	37.844	35.377	-19.273	MWD+IFR1+MS
10800.000	90.000	359.627	8175.000	32.821	0.000	38.162	0.000	32.821	0.000	38.362	35.443	-15.850	MWD+IFR1+MS
10900.000	90.000	359.627	8175.000	33.354	0.000	38.742	0.000	33.354	0.000	38.906	35.496	-13.327	MWD+IFR1+MS
11000.000	90.000	359.627	8175.000	33.896	0.000	39.333	0.000	33.896	0.000	39.470	35.540	-11.420	MWD+IFR1+MS
11100.000	90.000	359.627	8175.000	34.448	0.000	39.935	0.000	34.448	0.000	40.052	35.577	-9.943	MWD+IFR1+MS
11200.000	90.000	359.627	8175.000	35.009	0.000	40.547	0.000	35.009	0.000	40.648	35.611	-8.773	MWD+IFR1+MS
11300.000	90.000	359.627	8175.000	35.578	0.000	41.169	0.000	35.578	0.000	41.257	35.642	-7.826	MWD+IFR1+MS
11400.000	90.000	359.627	8175.000	36.155	0.000	41.800	0.000	36.155	0.000	41.878	35.671	-7.048	MWD+IFR1+MS
11500.000	90.000	359.627	8175.000	36.740	0.000	42.440	0.000	36.740	0.000	42.509	35.699	-6.398	MWD+IFR1+MS
11600.000	90.000	359.627	8175.000	37.332	0.000	43.089	0.000	37.332	0.000	43.151	35.726	-5.848	MWD+IFR1+MS
11700.000	90.000	359.627	8175.000	37.932	0.000	43.746	0.000	37.932	0.000	43.801	35.753	-5.378	MWD+IFR1+MS
11800.000	90.000	359.627	8175.000	38.538	0.000	44.410	0.000	38.538	0.000	44.460	35.779	-4.972	MWD+IFR1+MS
11900.000	90.000	359.627	8175.000	39.150	0.000	45.082	0.000	39.150	0.000	45.128	35.805	-4.618	MWD+IFR1+MS
12000.000	90.000	359.627	8175.000	39.768	0.000	45.761	0.000	39.768	0.000	45.803	35.830	-4.308	MWD+IFR1+MS
12100.000	90.000	359.627	8175.000	40.392	0.000	46.446	0.000	40.392	0.000	46.485	35.856	-4.033	MWD+IFR1+MS
12200.000	90.000	359.627	8175.000	41.022	0.000	47.139	0.000	41.022	0.000	47.174	35.882	-3.789	MWD+IFR1+MS
12300.000	90.000	359.627	8175.000	41.657	0.000	47.837	0.000	41.657	0.000	47.870	35.908	-3.571	MWD+IFR1+MS
12400.000	90.000	359.627	8175.000	42.297	0.000	48.541	0.000	42.297	0.000	48.571	35.934	-3.375	MWD+IFR1+MS
12500.000	90.000	359.627	8175.000	42.942	0.000	49.251	0.000	42.942	0.000	49.279	35.961	-3.197	MWD+IFR1+MS

12600.000	90.000	359.627	8175.000	43.591	0.000	49.967	0.000	43.591	0.000	49.993	35.987	-3.037	MWD+IFR1+MS
12700.000	90.000	359.627	8175.000	44.245	0.000	50.687	0.000	44.245	0.000	50.712	36.014	-2.890	MWD+IFR1+MS
12800.000	90.000	359.627	8175.000	44.903	0.000	51.413	0.000	44.903	0.000	51.435	36.042	-2.756	MWD+IFR1+MS
12900.000	90.000	359.627	8175.000	45.565	0.000	52.143	0.000	45.565	0.000	52.164	36.069	-2.634	MWD+IFR1+MS
13000.000	90.000	359.627	8175.000	46.230	0.000	52.878	0.000	46.230	0.000	52.898	36.097	-2.521	MWD+IFR1+MS
13100.000	90.000	359.627	8175.000	46.900	0.000	53.617	0.000	46.900	0.000	53.636	36.126	-2.417	MWD+IFR1+MS
13200.000	90.000	359.627	8175.000	47.573	0.000	54.361	0.000	47.573	0.000	54.379	36.155	-2.321	MWD+IFR1+MS
13300.000	90.000	359.627	8175.000	48.249	0.000	55.109	0.000	48.249	0.000	55.125	36.184	-2.233	MWD+IFR1+MS
13400.000	90.000	359.627	8175.000	48.929	0.000	55.860	0.000	48.929	0.000	55.876	36.213	-2.150	MWD+IFR1+MS
13500.000	90.000	359.627	8175.000	49.612	0.000	56.615	0.000	49.612	0.000	56.630	36.243	-2.073	MWD+IFR1+MS
13600.000	90.000	359.627	8175.000	50.297	0.000	57.374	0.000	50.297	0.000	57.388	36.274	-2.001	MWD+IFR1+MS
13700.000	90.000	359.627	8175.000	50.986	0.000	58.136	0.000	50.986	0.000	58.149	36.305	-1.934	MWD+IFR1+MS
13800.000	90.000	359.627	8175.000	51.677	0.000	58.902	0.000	51.677	0.000	58.914	36.336	-1.872	MWD+IFR1+MS
13900.000	90.000	359.627	8175.000	52.371	0.000	59.670	0.000	52.371	0.000	59.682	36.368	-1.813	MWD+IFR1+MS
14000.000	90.000	359.627	8175.000	53.068	0.000	60.442	0.000	53.068	0.000	60.453	36.400	-1.758	MWD+IFR1+MS
14100.000	90.000	359.627	8175.000	53.766	0.000	61.217	0.000	53.766	0.000	61.227	36.432	-1.706	MWD+IFR1+MS
14200.000	90.000	359.627	8175.000	54.468	0.000	61.994	0.000	54.468	0.000	62.004	36.465	-1.657	MWD+IFR1+MS
14300.000	90.000	359.627	8175.000	55.171	0.000	62.774	0.000	55.171	0.000	62.784	36.499	-1.611	MWD+IFR1+MS
14400.000	90.000	359.627	8175.000	55.877	0.000	63.557	0.000	55.877	0.000	63.566	36.533	-1.567	MWD+IFR1+MS
14500.000	90.000	359.627	8175.000	56.585	0.000	64.343	0.000	56.585	0.000	64.351	36.567	-1.526	MWD+IFR1+MS
14600.000	90.000	359.627	8175.000	57.294	0.000	65.130	0.000	57.294	0.000	65.139	36.602	-1.487	MWD+IFR1+MS
14700.000	90.000	359.627	8175.000	58.006	0.000	65.920	0.000	58.006	0.000	65.929	36.637	-1.450	MWD+IFR1+MS
14800.000	90.000	359.627	8175.000	58.719	0.000	66.713	0.000	58.719	0.000	66.721	36.673	-1.415	MWD+IFR1+MS
14900.000	90.000	359.627	8175.000	59.435	0.000	67.507	0.000	59.435	0.000	67.515	36.709	-1.382	MWD+IFR1+MS
15000.000	90.000	359.627	8175.000	60.152	0.000	68.304	0.000	60.152	0.000	68.311	36.746	-1.350	MWD+IFR1+MS
15100.000	90.000	359.627	8175.000	60.871	0.000	69.103	0.000	60.871	0.000	69.110	36.783	-1.320	MWD+IFR1+MS
15200.000	90.000	359.627	8175.000	61.591	0.000	69.904	0.000	61.591	0.000	69.910	36.820	-1.292	MWD+IFR1+MS
15300.000	90.000	359.627	8175.000	62.313	0.000	70.706	0.000	62.313	0.000	70.712	36.858	-1.264	MWD+IFR1+MS
15400.000	90.000	359.627	8175.000	63.036	0.000	71.511	0.000	63.036	0.000	71.517	36.896	-1.238	MWD+IFR1+MS
15500.000	90.000	359.627	8175.000	63.761	0.000	72.317	0.000	63.761	0.000	72.323	36.935	-1.213	MWD+IFR1+MS
15600.000	90.000	359.627	8175.000	64.487	0.000	73.125	0.000	64.487	0.000	73.130	36.975	-1.190	MWD+IFR1+MS
15700.000	90.000	359.627	8175.000	65.215	0.000	73.934	0.000	65.215	0.000	73.940	37.014	-1.167	MWD+IFR1+MS
15800.000	90.000	359.627	8175.000	65.944	0.000	74.746	0.000	65.944	0.000	74.751	37.054	-1.145	MWD+IFR1+MS

Well Plan Report											
15900.000	90.000	359.627	8175.000	66.674	0.000	75.558	0.000	66.674	0.000	75.563	37.095
16000.000	90.000	359.627	8175.000	67.406	0.000	76.373	0.000	67.406	0.000	76.377	37.136
16106.243	90.000	359.627	8175.000	68.184	0.000	77.240	0.000	68.184	0.000	77.244	37.180
16156.245	90.000	359.627	8175.000	68.550	0.000	77.647	0.000	68.550	0.000	77.651	37.201

Remuda North 25 ST 502H											
Plan Targets											
Target Name		Measured Depth		Grid Northing		Grid Easting		TVD MSL		Target Shape	
FTP 4		(ft)		(ft)		(ft)		(ft)			
		8587.33		464609.30		623065.10		5084.00		CIRCLE	
LTP 4		16106.24		472128.00		623016.20		5084.00		CIRCLE	
BHL 4		16156.24		472178.00		623015.90		5084.00		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:

Will Dacus, Drilling Manager	832-948-5021
Brian Dunn, Drilling Supervisor	832-653-0490
Robert Bartels, Construction Execution Planner	406-478-3617
Andy Owens, EH & S Manager	903-245-2602
Frank Fuentes, Production Foreman	575-689-3363

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:

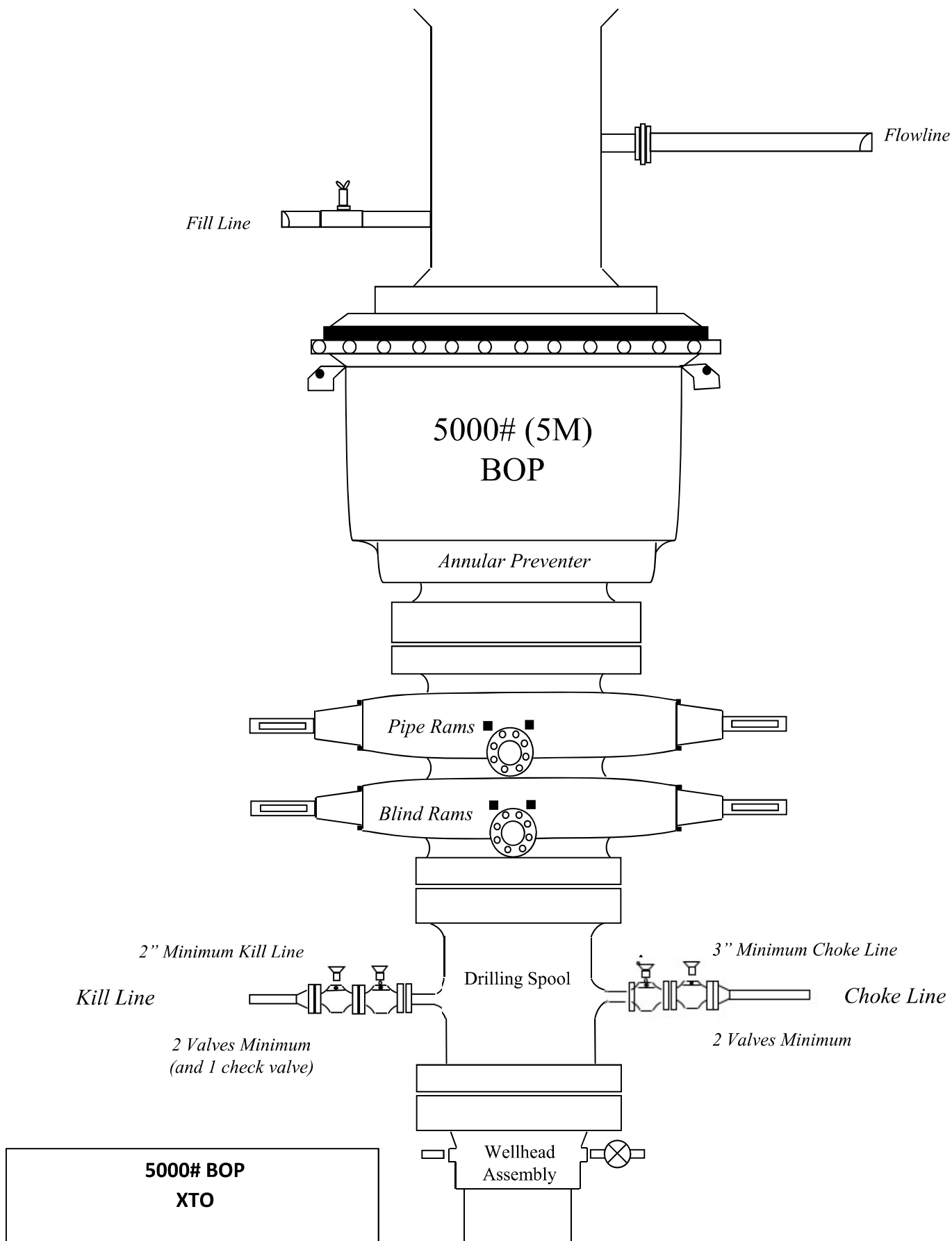
	911
Carlsbad Medical Emergency	575-885-2111
Eunice Medical Emergency	575-394-2112
Hobbs Medical Emergency	575-397-9308
Jal Medical Emergency	575-395-2221
Lovington Medical Emergency	575-396-2359

AGENT NOTIFICATIONS:**For Lea County:**

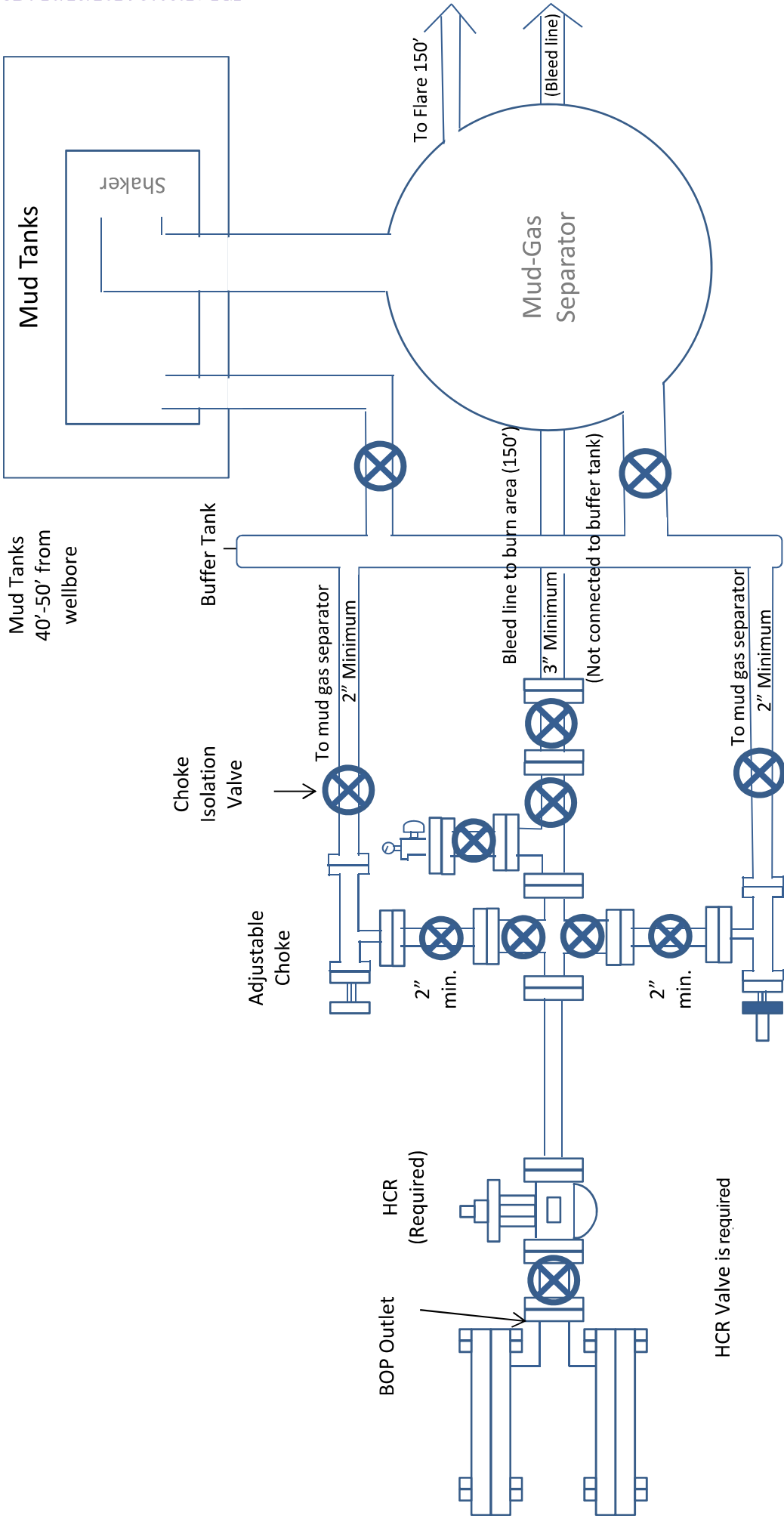
Bureau of Land Management – Hobbs	575-393-3612
New Mexico Oil Conservation Division – Hobbs	575-393-6161

For Eddy County:

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

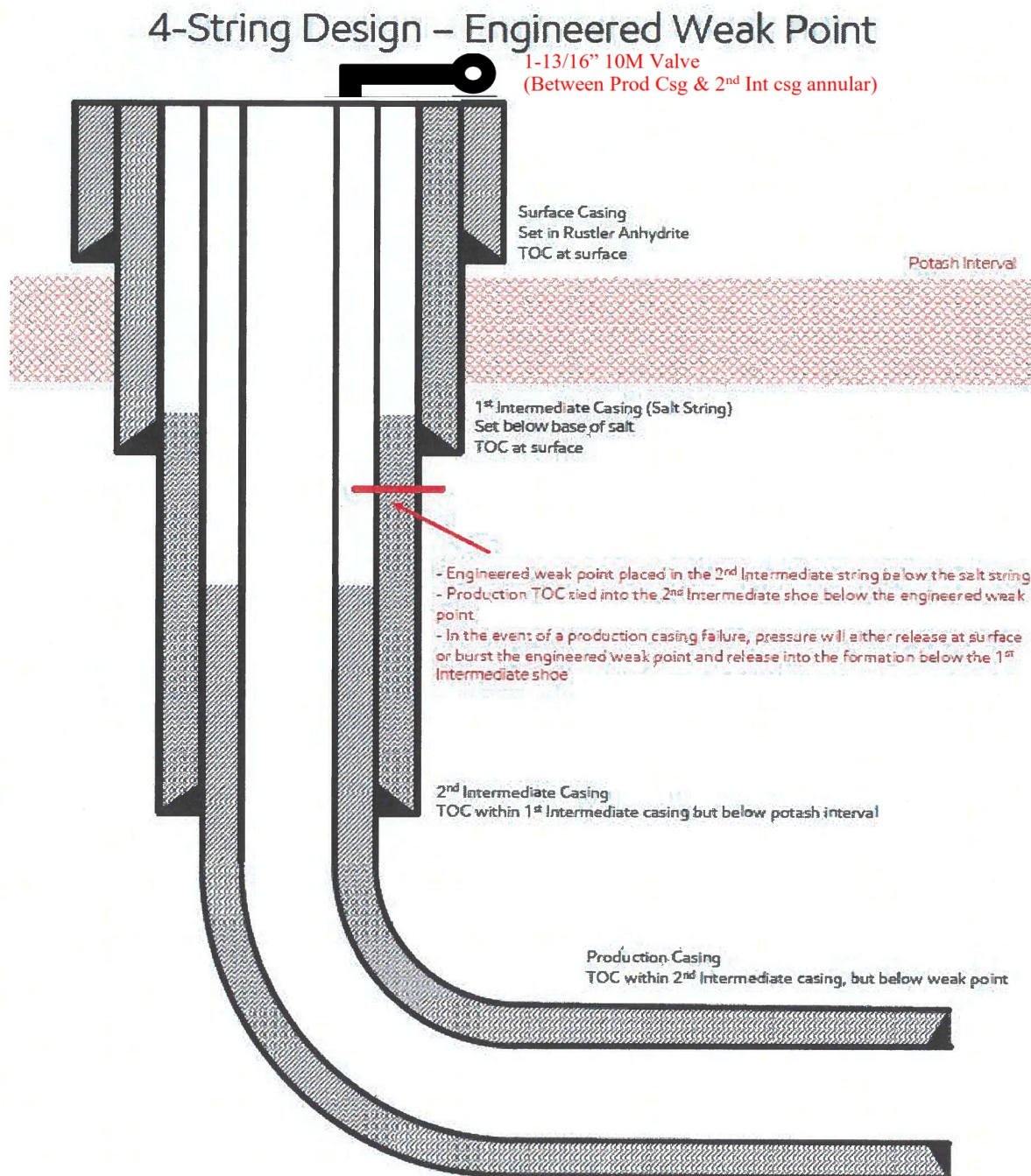


Bleed line will discharge 100' from wellhead for non-H2S situations and 150' from wellhead for H2S situations.



5M Choke Manifold Diagram
XTO

**Drilling Operations
Choke Manifold
5M Service**



[Figure F] 4 String – 2nd Intermediate casing engineered weak point

31592723_v1

Update May 2024:

XTO is aware of the R111-Q update and will comply with these requirements including (but not limited to):

- 1) Alignment with KPLA requirements per schematic above, leaving open annulus for pressure monitoring during frac and utilizing new casing that meets API standards
- 2) Contingency plans in place to divert formation fluids away from salt interval in event of production casing failure
- 3) Bradenhead squeeze to be completed within 180 days to tie back TOC to salt string at least 500ft but with top below Marker Bed 126
- 4) Production cement to be tied back no less than 500ft inside previous casing shoe

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 Permian Operating, LLC **OGRID:** 373075 **Date:** 09/24/2024

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	3 yr Anticipated decline Oil BBL/D	Anticipated Gas MCF/D	3 yr anticipated decline Gas MCF/D	Anticipated Produced Water BBL/D	3 yr anticipated decline Water BBL/D
Remuda North 25 ST 161H	TBD	25 T23S R29E	2375 FSL, 585 FWL	1,100	100	3,250	500	3,500	350
Remuda North 25 ST 501H	TBD	25 T23S R29E	2375 FSL, 615 FWL	900	100	1,250	300	2,250	250
Remuda North 25 ST 162H	TBD	25 T23S R29E	2374 FSL, 645 FWL	1,100	100	3,250	500	3,500	350
Remuda North 25 ST 163H	TBD	25 T23S R29E	2375 FSL, 1994 FEL	1,100	100	3,250	500	3,500	350
Remuda North 25 ST 502H	TBD	25 T23S R29E	2374 FSL, 1964 FEL	900	100	1,250	300	2,250	250

IV. Central Delivery Point Name: _____ Raider Compressor Station _____ [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 North 25 ST 161H	TBD	TBD	TBD	TBD	TBD	TBD

Remuda North 25 ST 501H	TBD	TBD	TBD	TBD	TBD	TBD
Remuda North 25 ST 162H	TBD	TBD	TBD	TBD	TBD	TBD
Remuda North 25 ST 163H	TBD	TBD	TBD	TBD	TBD	TBD
Remuda North 25 ST 502H	TBD	TBD	TBD	TBD	TBD	TBD

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:

Adrian Baker

Title:

Regulatory Advisor

E-mail Address:

adrian.baker@exxonmobil.com

Date:

10/10/24

Phone:

4322363808

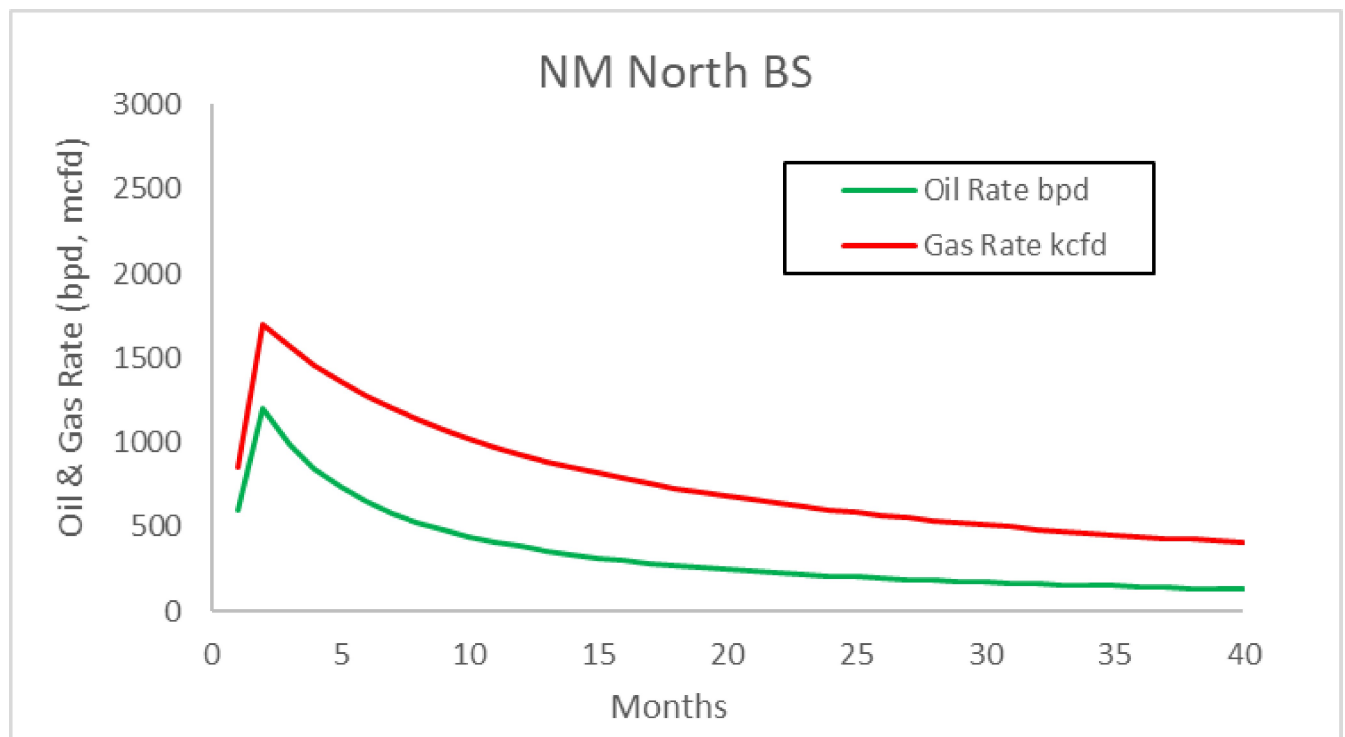
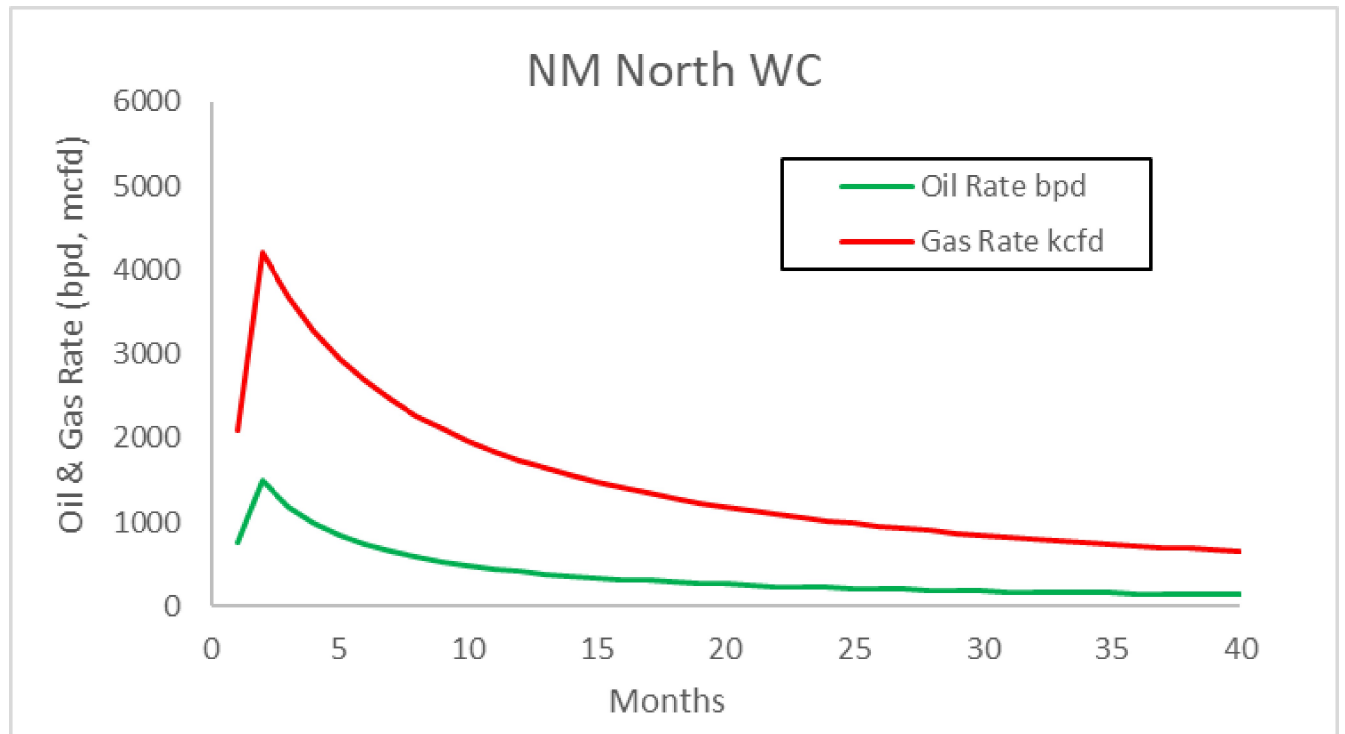
OIL CONSERVATION DIVISION**(Only applicable when submitted as a standalone form)**

Approved By:

Title:

Approval Date:

Conditions of Approval:



VI. Separation Equipment:

XTO Permian Operating LLC. utilizes a "stage separation" process in which oil and gas separation is carried out through a series of separators operating at successively reduced pressures. Hydrocarbon liquids are produced into a high-pressure inlet separator, then carried through one or more lower pressure separation vessels before entering the storage tanks. The purpose of this separation process is to attain maximum recovery of liquid hydrocarbons from the fluids and allow maximum capture of produced gas into the sales pipeline. XTO utilizes a series of Low-Pressure Compression units to capture gas off the staged separation and send it to the sales pipeline. This process minimizes the amount of flash gas that enters the end-stage storage tanks that is subsequently vented or flared.

VII. Operational Practices

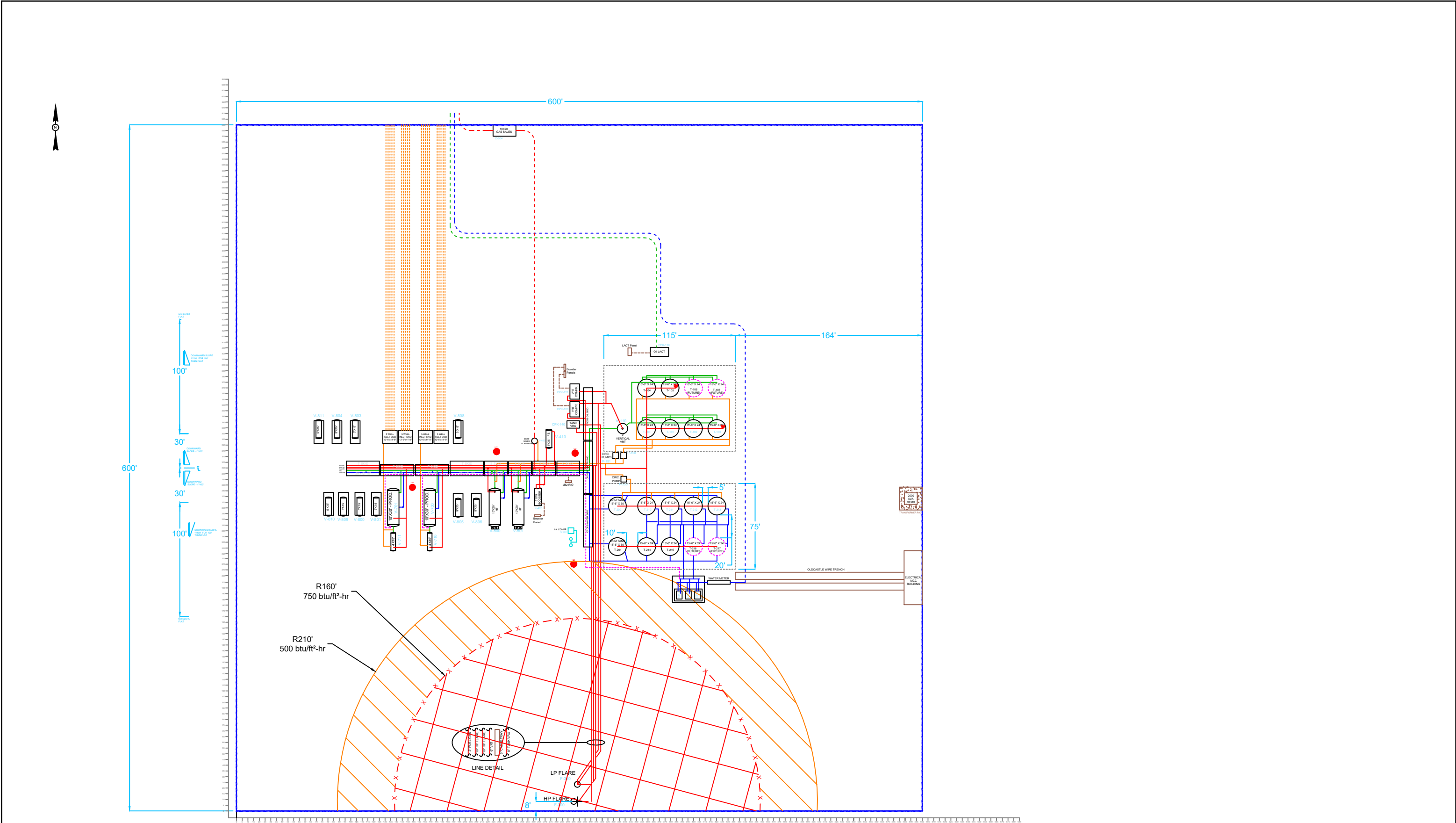
XTO Permian Operating LLC will employ best management practices and control technologies to maximize the recovery and minimize waste of natural gas through venting and flaring.

- During drilling operations, XTO will utilize flares to capture and control natural gas, where technically feasible. If flaring is deemed technically in-feasible, XTO will employ best management practices to minimize or reduce venting to the extent possible.
- During completions operations, XTO will utilize Green Completion methods to capture gas produced during well completions that is otherwise vented or flared. If capture is technically in-feasible, flares will be used to control flow back fluids entering into frac tanks during initial flowback. Upon indication of first measurable hydrocarbon volumes, XTO Permian Operating LLC will turn operations to onsite separation vessels and flow to the gathering pipeline.
- During production operations, XTO Permian Operating LLC will take every practical effort to minimize waste of natural gas through venting and flaring by:
 - Designing and constructing facilities in a manner consistent to achieve maximum capture and control of hydrocarbon liquids & produced gas
 - Utilizing a closed-loop capture system to collect, and route produced gas to sales line via low pressure compression, or to a flare/combustor
 - Flaring in lieu of venting, where technically feasible
 - Utilizing auto-ignitors or continuous pilots, with thermocouples connected to Scada, to quickly detect and resolve issues related to malfunctioning flares/combustors
 - Employ the use of automatic tank gauging to minimize storage tank venting during loading events
 - Installing air-driven or electric-driven pneumatics & combustion engines, where technically feasible to minimize venting to the atmosphere
 - Confirm equipment is properly maintained and repaired through a preventative maintenance and repair program to ensure equipment meets all manufacturer specifications

- Conduct and document AVO inspections on the frequency set forth in Part 27 to detect and repair any onsite leaks as quickly and efficiently as is feasible.

VIII. Best Management Practices during Maintenance

XTO Permian Operating LLC. will utilize best management practices to minimize venting during active and planned maintenance activities. XTO is operating under guidance that production facilities permitted under NOI permits have no provisions to allow high pressure flaring and high-pressure flaring is only allowed in disruption scenarios so long as the duration is less than eight hours. When technically feasible, flaring during maintenance activities will be utilized in lieu of venting to the atmosphere. XTO will work with third-party operators during scheduled maintenance of downstream pipeline or processing plants to address those events ahead of time to minimize venting. Actions considered include identifying alternative capture approaches or planning to temporarily reduce production or shut in the well to address these circumstances.



NOTES:
1)
2)

ISSUED FOR REVIEW

DATE: _____
SIGN: _____

Revision	Description of Change	Date	By
0	ISSUED FOR REVIEW	03-01-18	MFF
1	FACILITY UPGRADE, REMOVED FUTURE TESTERS	12-11-20	JSF

XTOENERGY

REMUDA 500
TANK BATTERY
COUNTY

PLOT PLAN

XTO - DB - REM5 - 00CTB - PLOT - 000 - 0101 - 1

Company	Division	Field	Facility	Doc Type	Equip	Doc #	Revision

Well Plan Report - Remuda North 25 ST 502H

Measured Depth: 16156.24 ft

TVD RKB: 8175.00 ft

Location

Cartographic Reference System: New Mexico East - NAD 27

Northing: 463982.10 ft

Easting: 622973.60 ft

RKB: 3091.00 ft

Ground Level: 471948.60 ft

North Reference: Grid

Convergence Angle: 0.21 Deg

Site: B

Slot: Remuda North 25 ST 502H

Plan Sections

Remuda North 25 ST 502H

Measured				TVD			Build	Turn	Dogleg		
Depth	Inclination	Azimuth	RKB	Y Offset	X Offset	Rate	Rate	Rate	Target		
(ft)	(Deg)	(Deg)	(ft)	(ft)	(ft)	(Deg/100ft)	(Deg/100ft)	(Deg/100ft)			
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
3100.00	0.00	0.00	3100.00	0.00	0.00	0.00	0.00	0.00			
3260.25	3.20	132.78	3260.16	-3.04	3.29	2.00	0.00	2.00			
5443.34	3.20	132.78	5439.84	-85.94	92.87	0.00	0.00	0.00			
5603.58	0.00	0.00	5600.00	-88.98	96.16	-2.00	0.00	2.00			
7462.38	0.00	0.00	7458.80	-88.98	96.16	0.00	0.00	0.00			
8587.38	90.00	359.63	8175.00	627.20	91.50	8.00	0.00	8.00	FTP 4		
16106.24	90.00	359.63	8175.00	8145.90	42.60	0.00	0.00	0.00	LTP 4		
16156.24	90.00	359.63	8175.00	8195.90	42.27	0.00	0.00	0.00	BHL 4		

Position Uncertainty

Remuda North 25 ST 502H

Measured	TVD	Highside	Lateral	Vertical	Magnitude	Semi-major	Semi-minor	Semi-minor	Tool
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Depth	Inclination	Azimuth	RKB	Error	Bias	Error	Bias	Error	Bias	of Bias	Error	Error	Azimuth	Used
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	MWD+IFR1+MS
100.000	0.000	0.000	100.000	0.700	0.000	0.350	0.000	2.300	0.000	0.000	0.751	0.220	112.264	MWD+IFR1+MS
200.000	0.000	0.000	200.000	1.112	0.000	0.861	0.000	2.309	0.000	0.000	1.259	0.627	122.711	MWD+IFR1+MS
300.000	0.000	0.000	300.000	1.497	0.000	1.271	0.000	2.325	0.000	0.000	1.698	0.986	125.469	MWD+IFR1+MS
400.000	0.000	0.000	400.000	1.871	0.000	1.658	0.000	2.346	0.000	0.000	2.108	1.344	126.713	MWD+IFR1+MS
500.000	0.000	0.000	500.000	2.240	0.000	2.034	0.000	2.372	0.000	0.000	2.503	1.701	127.419	MWD+IFR1+MS
600.000	0.000	0.000	600.000	2.607	0.000	2.405	0.000	2.404	0.000	0.000	2.888	2.059	127.873	MWD+IFR1+MS
700.000	0.000	0.000	700.000	2.971	0.000	2.773	0.000	2.440	0.000	0.000	3.267	2.417	128.190	MWD+IFR1+MS
800.000	0.000	0.000	800.000	3.334	0.000	3.138	0.000	2.481	0.000	0.000	3.642	2.775	128.423	MWD+IFR1+MS
900.000	0.000	0.000	900.000	3.696	0.000	3.502	0.000	2.526	0.000	0.000	4.014	3.133	128.602	MWD+IFR1+MS
1000.000	0.000	0.000	1000.000	4.058	0.000	3.865	0.000	2.575	0.000	0.000	4.384	3.491	128.744	MWD+IFR1+MS
1100.000	0.000	0.000	1100.000	4.419	0.000	4.228	0.000	2.627	0.000	0.000	4.752	3.849	128.859	MWD+IFR1+MS
1200.000	0.000	0.000	1200.000	4.779	0.000	4.589	0.000	2.683	0.000	0.000	5.119	4.207	128.954	MWD+IFR1+MS
1300.000	0.000	0.000	1300.000	5.140	0.000	4.950	0.000	2.742	0.000	0.000	5.484	4.565	129.034	MWD+IFR1+MS
1400.000	0.000	0.000	1400.000	5.500	0.000	5.311	0.000	2.804	0.000	0.000	5.849	4.924	129.102	MWD+IFR1+MS
1500.000	0.000	0.000	1500.000	5.860	0.000	5.672	0.000	2.869	0.000	0.000	6.213	5.282	129.161	MWD+IFR1+MS
1600.000	0.000	0.000	1600.000	6.219	0.000	6.032	0.000	2.936	0.000	0.000	6.577	5.640	129.212	MWD+IFR1+MS
1700.000	0.000	0.000	1700.000	6.579	0.000	6.392	0.000	3.005	0.000	0.000	6.939	5.999	129.257	MWD+IFR1+MS
1800.000	0.000	0.000	1800.000	6.938	0.000	6.752	0.000	3.076	0.000	0.000	7.302	6.357	129.297	MWD+IFR1+MS
1900.000	0.000	0.000	1900.000	7.298	0.000	7.112	0.000	3.150	0.000	0.000	7.664	6.715	129.333	MWD+IFR1+MS
2000.000	0.000	0.000	2000.000	7.657	0.000	7.471	0.000	3.225	0.000	0.000	8.026	7.074	129.365	MWD+IFR1+MS
2100.000	0.000	0.000	2100.000	8.016	0.000	7.831	0.000	3.303	0.000	0.000	8.387	7.432	129.394	MWD+IFR1+MS
2200.000	0.000	0.000	2200.000	8.375	0.000	8.190	0.000	3.382	0.000	0.000	8.748	7.791	129.420	MWD+IFR1+MS
2300.000	0.000	0.000	2300.000	8.734	0.000	8.550	0.000	3.462	0.000	0.000	9.109	8.149	129.444	MWD+IFR1+MS
2400.000	0.000	0.000	2400.000	9.093	0.000	8.909	0.000	3.545	0.000	0.000	9.470	8.507	129.466	MWD+IFR1+MS
2500.000	0.000	0.000	2500.000	9.452	0.000	9.268	0.000	3.628	0.000	0.000	9.831	8.866	129.486	MWD+IFR1+MS
2600.000	0.000	0.000	2600.000	9.811	0.000	9.627	0.000	3.714	0.000	0.000	10.191	9.224	129.505	MWD+IFR1+MS
2700.000	0.000	0.000	2700.000	10.170	0.000	9.986	0.000	3.801	0.000	0.000	10.552	9.583	129.522	MWD+IFR1+MS
2800.000	0.000	0.000	2800.000	10.529	0.000	10.345	0.000	3.889	0.000	0.000	10.912	9.941	129.538	MWD+IFR1+MS
2900.000	0.000	0.000	2900.000	10.888	0.000	10.705	0.000	3.979	0.000	0.000	11.272	10.299	129.552	MWD+IFR1+MS
3000.000	0.000	0.000	3000.000	11.247	0.000	11.063	0.000	4.070	0.000	0.000	11.632	10.658	129.566	MWD+IFR1+MS

3100.000	0.000	0.000	3100.000	11.606	0.000	11.422	0.000	4.163	0.000	0.000	11.992	11.016	129.579	MWD+IFR1+MS
3200.000	2.000	132.780	3199.980	11.418	0.000	12.306	-0.000	4.257	0.000	0.000	12.309	11.421	129.576	MWD+IFR1+MS
3260.246	3.205	132.780	3260.163	11.659	0.000	12.493	-0.000	4.314	0.000	0.000	12.498	11.670	128.316	MWD+IFR1+MS
3300.000	3.205	132.780	3299.854	11.793	0.000	12.615	-0.000	4.351	0.000	0.000	12.620	11.804	128.087	MWD+IFR1+MS
3400.000	3.205	132.780	3399.698	12.128	0.000	12.929	-0.000	4.448	0.000	0.000	12.936	12.136	127.353	MWD+IFR1+MS
3500.000	3.205	132.780	3499.541	12.471	0.000	13.253	-0.000	4.547	0.000	0.000	13.264	12.475	126.125	MWD+IFR1+MS
3600.000	3.205	132.780	3599.385	12.815	0.000	13.579	-0.000	4.648	0.000	0.000	13.594	12.815	124.933	MWD+IFR1+MS
3700.000	3.205	132.780	3699.229	13.160	0.000	13.907	-0.000	4.750	0.000	0.000	13.926	13.155	123.779	MWD+IFR1+MS
3800.000	3.205	132.780	3799.072	13.506	0.000	14.237	-0.000	4.853	0.000	0.000	14.260	13.495	122.665	MWD+IFR1+MS
3900.000	3.205	132.780	3898.916	13.853	0.000	14.568	-0.000	4.959	0.000	0.000	14.596	13.836	121.594	MWD+IFR1+MS
4000.000	3.205	132.780	3998.759	14.200	0.000	14.901	-0.000	5.066	0.000	0.000	14.934	14.178	120.567	MWD+IFR1+MS
4100.000	3.205	132.780	4098.603	14.548	0.000	15.235	-0.000	5.174	0.000	0.000	15.273	14.520	119.585	MWD+IFR1+MS
4200.000	3.205	132.780	4198.447	14.897	0.000	15.570	-0.000	5.285	0.000	0.000	15.614	14.862	118.646	MWD+IFR1+MS
4300.000	3.205	132.780	4298.290	15.246	0.000	15.906	-0.000	5.397	0.000	0.000	15.956	15.205	117.751	MWD+IFR1+MS
4400.000	3.205	132.780	4398.134	15.596	0.000	16.244	-0.000	5.510	0.000	0.000	16.299	15.548	116.900	MWD+IFR1+MS
4500.000	3.205	132.780	4497.977	15.946	0.000	16.583	-0.000	5.626	0.000	0.000	16.644	15.892	116.090	MWD+IFR1+MS
4600.000	3.205	132.780	4597.821	16.297	0.000	16.923	-0.000	5.744	0.000	0.000	16.989	16.236	115.322	MWD+IFR1+MS
4700.000	3.205	132.780	4697.665	16.648	0.000	17.263	-0.000	5.863	0.000	0.000	17.335	16.581	114.592	MWD+IFR1+MS
4800.000	3.205	132.780	4797.508	16.999	0.000	17.605	-0.000	5.984	0.000	0.000	17.683	16.926	113.901	MWD+IFR1+MS
4900.000	3.205	132.780	4897.352	17.351	0.000	17.947	-0.000	6.107	0.000	0.000	18.031	17.272	113.245	MWD+IFR1+MS
5000.000	3.205	132.780	4997.195	17.703	0.000	18.291	-0.000	6.232	0.000	0.000	18.379	17.618	112.625	MWD+IFR1+MS
5100.000	3.205	132.780	5097.039	18.056	0.000	18.635	-0.000	6.360	0.000	0.000	18.729	17.964	112.037	MWD+IFR1+MS
5200.000	3.205	132.780	5196.883	18.409	0.000	18.979	-0.000	6.489	0.000	0.000	19.079	18.311	111.480	MWD+IFR1+MS
5300.000	3.205	132.780	5296.726	18.762	0.000	19.325	-0.000	6.620	0.000	0.000	19.429	18.659	110.953	MWD+IFR1+MS
5400.000	3.205	132.780	5396.570	19.115	0.000	19.671	-0.000	6.753	0.000	0.000	19.780	19.006	110.453	MWD+IFR1+MS
5443.335	3.205	132.780	5439.837	19.265	0.000	19.818	-0.000	6.812	0.000	0.000	19.927	19.156	110.408	MWD+IFR1+MS
5500.000	2.072	132.780	5496.441	19.473	0.000	20.009	-0.000	6.889	0.000	0.000	20.121	19.355	110.194	MWD+IFR1+MS
5603.582	0.000	0.000	5600.000	20.392	0.000	19.818	0.000	7.031	0.000	0.000	20.488	19.719	110.836	MWD+IFR1+MS
5700.000	0.000	0.000	5696.418	20.771	0.000	20.159	0.000	7.165	0.000	0.000	20.872	20.054	110.818	MWD+IFR1+MS
5800.000	0.000	0.000	5796.418	21.119	0.000	20.514	0.000	7.306	0.000	0.000	21.224	20.405	111.161	MWD+IFR1+MS
5900.000	0.000	0.000	5896.418	21.469	0.000	20.869	0.000	7.449	0.000	0.000	21.577	20.757	111.508	MWD+IFR1+MS
6000.000	0.000	0.000	5996.418	21.818	0.000	21.224	0.000	7.594	0.000	0.000	21.930	21.109	111.842	MWD+IFR1+MS
6100.000	0.000	0.000	6096.418	22.168	0.000	21.580	0.000	7.742	0.000	0.000	22.283	21.461	112.165	MWD+IFR1+MS

6200.000	0.000	0.000	6196.418	22.518	0.000	21.935	0.000	7.892	0.000	0.000	22.636	21.813	112.477	MWD+IFR1+MS
6300.000	0.000	0.000	6296.418	22.868	0.000	22.291	0.000	8.044	0.000	0.000	22.990	22.165	112.778	MWD+IFR1+MS
6400.000	0.000	0.000	6396.418	23.219	0.000	22.646	0.000	8.199	0.000	0.000	23.344	22.517	113.068	MWD+IFR1+MS
6500.000	0.000	0.000	6496.418	23.570	0.000	23.002	0.000	8.356	0.000	0.000	23.698	22.870	113.349	MWD+IFR1+MS
6600.000	0.000	0.000	6596.418	23.921	0.000	23.358	0.000	8.516	0.000	0.000	24.052	23.223	113.620	MWD+IFR1+MS
6700.000	0.000	0.000	6696.418	24.272	0.000	23.714	0.000	8.678	0.000	0.000	24.406	23.575	113.883	MWD+IFR1+MS
6800.000	0.000	0.000	6796.418	24.623	0.000	24.069	0.000	8.843	0.000	0.000	24.761	23.928	114.137	MWD+IFR1+MS
6900.000	0.000	0.000	6896.418	24.975	0.000	24.425	0.000	9.010	0.000	0.000	25.115	24.281	114.383	MWD+IFR1+MS
7000.000	0.000	0.000	6996.418	25.327	0.000	24.782	0.000	9.179	0.000	0.000	25.470	24.635	114.621	MWD+IFR1+MS
7100.000	0.000	0.000	7096.418	25.679	0.000	25.138	0.000	9.352	0.000	0.000	25.825	24.988	114.851	MWD+IFR1+MS
7200.000	0.000	0.000	7196.418	26.031	0.000	25.494	0.000	9.527	0.000	0.000	26.180	25.341	115.074	MWD+IFR1+MS
7300.000	0.000	0.000	7296.418	26.384	0.000	25.850	0.000	9.704	0.000	0.000	26.535	25.695	115.291	MWD+IFR1+MS
7400.000	0.000	0.000	7396.418	26.736	0.000	26.207	0.000	9.884	0.000	0.000	26.890	26.049	115.501	MWD+IFR1+MS
7462.384	0.000	0.000	7458.803	26.954	0.000	26.426	0.000	9.998	0.000	0.000	27.107	26.269	115.522	MWD+IFR1+MS
7500.000	3.009	359.627	7496.401	27.043	0.000	26.562	0.000	10.066	0.000	0.000	27.246	26.402	115.297	MWD+IFR1+MS
7600.000	11.009	359.627	7595.573	27.696	0.000	26.907	0.000	10.291	0.000	0.000	28.249	26.803	105.024	MWD+IFR1+MS
7700.000	19.009	359.627	7692.083	28.676	0.000	27.244	0.000	10.730	0.000	0.000	29.924	27.164	99.234	MWD+IFR1+MS
7800.000	27.009	359.627	7784.053	29.166	0.000	27.565	0.000	11.468	0.000	0.000	31.392	27.487	97.524	MWD+IFR1+MS
7900.000	35.009	359.627	7869.691	29.215	0.000	27.868	0.000	12.548	0.000	0.000	32.625	27.786	96.827	MWD+IFR1+MS
8000.000	43.009	359.627	7947.333	28.886	0.000	28.152	0.000	13.950	0.000	0.000	33.616	28.064	96.550	MWD+IFR1+MS
8100.000	51.009	359.627	8015.465	28.262	0.000	28.417	0.000	15.616	0.000	0.000	34.373	28.321	96.499	MWD+IFR1+MS
8200.000	59.009	359.627	8072.763	27.449	0.000	28.662	0.000	17.470	0.000	0.000	34.911	28.558	96.593	MWD+IFR1+MS
8300.000	67.009	359.627	8118.111	26.575	0.000	28.888	0.000	19.436	0.000	0.000	35.259	28.777	96.784	MWD+IFR1+MS
8400.000	75.009	359.627	8150.626	25.790	0.000	29.096	0.000	21.444	0.000	0.000	35.449	28.977	97.034	MWD+IFR1+MS
8500.000	83.009	359.627	8169.676	25.252	0.000	29.286	0.000	23.428	0.000	0.000	35.528	29.160	97.297	MWD+IFR1+MS
8587.384	90.000	359.627	8175.000	24.748	0.000	29.433	0.000	24.748	0.000	0.000	35.545	29.304	97.480	MWD+IFR1+MS
8600.000	90.000	359.627	8175.000	24.772	0.000	29.452	0.000	24.772	0.000	0.000	35.547	29.323	97.501	MWD+IFR1+MS
8700.000	90.000	359.627	8175.000	24.931	0.000	29.625	0.000	24.931	0.000	0.000	35.554	29.494	97.700	MWD+IFR1+MS
8800.000	90.000	359.627	8175.000	25.118	0.000	29.828	0.000	25.118	0.000	0.000	35.562	29.693	97.947	MWD+IFR1+MS
8900.000	90.000	359.627	8175.000	25.329	0.000	30.055	0.000	25.329	0.000	0.000	35.572	29.916	98.244	MWD+IFR1+MS
9000.000	90.000	359.627	8175.000	25.561	0.000	30.306	0.000	25.561	0.000	0.000	35.583	30.163	98.599	MWD+IFR1+MS
9100.000	90.000	359.627	8175.000	25.816	0.000	30.580	0.000	25.816	0.000	0.000	35.596	30.431	99.024	MWD+IFR1+MS
9200.000	90.000	359.627	8175.000	26.092	0.000	30.877	0.000	26.092	0.000	0.000	35.610	30.721	99.533	MWD+IFR1+MS

9300.000	90.000	359.627	8175.000	26.388	0.000	31.196	0.000	26.388	0.000	0.000	35.626	31.032	100.149	MWD+IFR1+MS
9400.000	90.000	359.627	8175.000	26.704	0.000	31.536	0.000	26.704	0.000	0.000	35.645	31.362	100.899	MWD+IFR1+MS
9500.000	90.000	359.627	8175.000	27.039	0.000	31.898	0.000	27.039	0.000	0.000	35.666	31.711	101.823	MWD+IFR1+MS
9600.000	90.000	359.627	8175.000	27.392	0.000	32.279	0.000	27.392	0.000	0.000	35.692	32.075	102.978	MWD+IFR1+MS
9700.000	90.000	359.627	8175.000	27.763	0.000	32.679	0.000	27.763	0.000	0.000	35.723	32.455	104.448	MWD+IFR1+MS
9800.000	90.000	359.627	8175.000	28.151	0.000	33.098	0.000	28.151	0.000	0.000	35.761	32.847	106.358	MWD+IFR1+MS
9900.000	90.000	359.627	8175.000	28.556	0.000	33.535	0.000	28.556	0.000	0.000	35.809	33.246	108.897	MWD+IFR1+MS
10000.000	90.000	359.627	8175.000	28.976	0.000	33.989	0.000	28.976	0.000	0.000	35.874	33.647	112.356	MWD+IFR1+MS
10100.000	90.000	359.627	8175.000	29.411	0.000	34.459	0.000	29.411	0.000	0.000	35.964	34.039	117.140	MWD+IFR1+MS
10200.000	90.000	359.627	8175.000	29.860	0.000	34.946	0.000	29.860	0.000	0.000	36.096	34.407	123.689	MWD+IFR1+MS
10300.000	90.000	359.627	8175.000	30.323	0.000	35.447	0.000	30.323	0.000	0.000	36.290	34.727	132.053	MWD+IFR1+MS
10400.000	90.000	359.627	8175.000	30.799	0.000	35.963	0.000	30.799	0.000	0.000	36.567	34.980	-38.768	MWD+IFR1+MS
10500.000	90.000	359.627	8175.000	31.287	0.000	36.493	0.000	31.287	0.000	0.000	36.930	35.162	-30.469	MWD+IFR1+MS
10600.000	90.000	359.627	8175.000	31.787	0.000	37.037	0.000	31.787	0.000	0.000	37.362	35.288	-23.998	MWD+IFR1+MS
10700.000	90.000	359.627	8175.000	32.299	0.000	37.593	0.000	32.299	0.000	0.000	37.844	35.377	-19.273	MWD+IFR1+MS
10800.000	90.000	359.627	8175.000	32.821	0.000	38.162	0.000	32.821	0.000	0.000	38.362	35.443	-15.850	MWD+IFR1+MS
10900.000	90.000	359.627	8175.000	33.354	0.000	38.742	0.000	33.354	0.000	0.000	38.906	35.496	-13.327	MWD+IFR1+MS
11000.000	90.000	359.627	8175.000	33.896	0.000	39.333	0.000	33.896	0.000	0.000	39.470	35.540	-11.420	MWD+IFR1+MS
11100.000	90.000	359.627	8175.000	34.448	0.000	39.935	0.000	34.448	0.000	0.000	40.052	35.577	-9.943	MWD+IFR1+MS
11200.000	90.000	359.627	8175.000	35.009	0.000	40.547	0.000	35.009	0.000	0.000	40.648	35.611	-8.773	MWD+IFR1+MS
11300.000	90.000	359.627	8175.000	35.578	0.000	41.169	0.000	35.578	0.000	0.000	41.257	35.642	-7.826	MWD+IFR1+MS
11400.000	90.000	359.627	8175.000	36.155	0.000	41.800	0.000	36.155	0.000	0.000	41.878	35.671	-7.048	MWD+IFR1+MS
11500.000	90.000	359.627	8175.000	36.740	0.000	42.440	0.000	36.740	0.000	0.000	42.509	35.699	-6.398	MWD+IFR1+MS
11600.000	90.000	359.627	8175.000	37.332	0.000	43.089	0.000	37.332	0.000	0.000	43.151	35.726	-5.848	MWD+IFR1+MS
11700.000	90.000	359.627	8175.000	37.932	0.000	43.746	0.000	37.932	0.000	0.000	43.801	35.753	-5.378	MWD+IFR1+MS
11800.000	90.000	359.627	8175.000	38.538	0.000	44.410	0.000	38.538	0.000	0.000	44.460	35.779	-4.972	MWD+IFR1+MS
11900.000	90.000	359.627	8175.000	39.150	0.000	45.082	0.000	39.150	0.000	0.000	45.128	35.805	-4.618	MWD+IFR1+MS
12000.000	90.000	359.627	8175.000	39.768	0.000	45.761	0.000	39.768	0.000	0.000	45.803	35.830	-4.308	MWD+IFR1+MS
12100.000	90.000	359.627	8175.000	40.392	0.000	46.446	0.000	40.392	0.000	0.000	46.485	35.856	-4.033	MWD+IFR1+MS
12200.000	90.000	359.627	8175.000	41.022	0.000	47.139	0.000	41.022	0.000	0.000	47.174	35.882	-3.789	MWD+IFR1+MS
12300.000	90.000	359.627	8175.000	41.657	0.000	47.837	0.000	41.657	0.000	0.000	47.870	35.908	-3.571	MWD+IFR1+MS
12400.000	90.000	359.627	8175.000	42.297	0.000	48.541	0.000	42.297	0.000	0.000	48.571	35.934	-3.375	MWD+IFR1+MS
12500.000	90.000	359.627	8175.000	42.942	0.000	49.251	0.000	42.942	0.000	0.000	49.279	35.961	-3.197	MWD+IFR1+MS

12600.000	90.000	359.627	8175.000	43.591	0.000	49.967	0.000	43.591	0.000	0.000	49.993	35.987	-3.037	MWD+IFR1+MS
12700.000	90.000	359.627	8175.000	44.245	0.000	50.687	0.000	44.245	0.000	0.000	50.712	36.014	-2.890	MWD+IFR1+MS
12800.000	90.000	359.627	8175.000	44.903	0.000	51.413	0.000	44.903	0.000	0.000	51.435	36.042	-2.756	MWD+IFR1+MS
12900.000	90.000	359.627	8175.000	45.565	0.000	52.143	0.000	45.565	0.000	0.000	52.164	36.069	-2.634	MWD+IFR1+MS
13000.000	90.000	359.627	8175.000	46.230	0.000	52.878	0.000	46.230	0.000	0.000	52.898	36.097	-2.521	MWD+IFR1+MS
13100.000	90.000	359.627	8175.000	46.900	0.000	53.617	0.000	46.900	0.000	0.000	53.636	36.126	-2.417	MWD+IFR1+MS
13200.000	90.000	359.627	8175.000	47.573	0.000	54.361	0.000	47.573	0.000	0.000	54.379	36.155	-2.321	MWD+IFR1+MS
13300.000	90.000	359.627	8175.000	48.249	0.000	55.109	0.000	48.249	0.000	0.000	55.125	36.184	-2.233	MWD+IFR1+MS
13400.000	90.000	359.627	8175.000	48.929	0.000	55.860	0.000	48.929	0.000	0.000	55.876	36.213	-2.150	MWD+IFR1+MS
13500.000	90.000	359.627	8175.000	49.612	0.000	56.615	0.000	49.612	0.000	0.000	56.630	36.243	-2.073	MWD+IFR1+MS
13600.000	90.000	359.627	8175.000	50.297	0.000	57.374	0.000	50.297	0.000	0.000	57.388	36.274	-2.001	MWD+IFR1+MS
13700.000	90.000	359.627	8175.000	50.986	0.000	58.136	0.000	50.986	0.000	0.000	58.149	36.305	-1.934	MWD+IFR1+MS
13800.000	90.000	359.627	8175.000	51.677	0.000	58.902	0.000	51.677	0.000	0.000	58.914	36.336	-1.872	MWD+IFR1+MS
13900.000	90.000	359.627	8175.000	52.371	0.000	59.670	0.000	52.371	0.000	0.000	59.682	36.368	-1.813	MWD+IFR1+MS
14000.000	90.000	359.627	8175.000	53.068	0.000	60.442	0.000	53.068	0.000	0.000	60.453	36.400	-1.758	MWD+IFR1+MS
14100.000	90.000	359.627	8175.000	53.766	0.000	61.217	0.000	53.766	0.000	0.000	61.227	36.432	-1.706	MWD+IFR1+MS
14200.000	90.000	359.627	8175.000	54.468	0.000	61.994	0.000	54.468	0.000	0.000	62.004	36.465	-1.657	MWD+IFR1+MS
14300.000	90.000	359.627	8175.000	55.171	0.000	62.774	0.000	55.171	0.000	0.000	62.784	36.499	-1.611	MWD+IFR1+MS
14400.000	90.000	359.627	8175.000	55.877	0.000	63.557	0.000	55.877	0.000	0.000	63.566	36.533	-1.567	MWD+IFR1+MS
14500.000	90.000	359.627	8175.000	56.585	0.000	64.343	0.000	56.585	0.000	0.000	64.351	36.567	-1.526	MWD+IFR1+MS
14600.000	90.000	359.627	8175.000	57.294	0.000	65.130	0.000	57.294	0.000	0.000	65.139	36.602	-1.487	MWD+IFR1+MS
14700.000	90.000	359.627	8175.000	58.006	0.000	65.920	0.000	58.006	0.000	0.000	65.929	36.637	-1.450	MWD+IFR1+MS
14800.000	90.000	359.627	8175.000	58.719	0.000	66.713	0.000	58.719	0.000	0.000	66.721	36.673	-1.415	MWD+IFR1+MS
14900.000	90.000	359.627	8175.000	59.435	0.000	67.507	0.000	59.435	0.000	0.000	67.515	36.709	-1.382	MWD+IFR1+MS
15000.000	90.000	359.627	8175.000	60.152	0.000	68.304	0.000	60.152	0.000	0.000	68.311	36.746	-1.350	MWD+IFR1+MS
15100.000	90.000	359.627	8175.000	60.871	0.000	69.103	0.000	60.871	0.000	0.000	69.110	36.783	-1.320	MWD+IFR1+MS
15200.000	90.000	359.627	8175.000	61.591	0.000	69.904	0.000	61.591	0.000	0.000	69.910	36.820	-1.292	MWD+IFR1+MS
15300.000	90.000	359.627	8175.000	62.313	0.000	70.706	0.000	62.313	0.000	0.000	70.712	36.858	-1.264	MWD+IFR1+MS
15400.000	90.000	359.627	8175.000	63.036	0.000	71.511	0.000	63.036	0.000	0.000	71.517	36.896	-1.238	MWD+IFR1+MS
15500.000	90.000	359.627	8175.000	63.761	0.000	72.317	0.000	63.761	0.000	0.000	72.323	36.935	-1.213	MWD+IFR1+MS
15600.000	90.000	359.627	8175.000	64.487	0.000	73.125	0.000	64.487	0.000	0.000	73.130	36.975	-1.190	MWD+IFR1+MS
15700.000	90.000	359.627	8175.000	65.215	0.000	73.934	0.000	65.215	0.000	0.000	73.940	37.014	-1.167	MWD+IFR1+MS
15800.000	90.000	359.627	8175.000	65.944	0.000	74.746	0.000	65.944	0.000	0.000	74.751	37.054	-1.145	MWD+IFR1+MS

15900.000	90.000	359.627	8175.000	66.674	0.000	75.558	0.000	66.674	0.000	0.000	75.563	37.095	-1.124	MWD+IFR1+MS
16000.000	90.000	359.627	8175.000	67.406	0.000	76.373	0.000	67.406	0.000	0.000	76.377	37.136	-1.104	MWD+IFR1+MS
16106.243	90.000	359.627	8175.000	68.184	0.000	77.240	0.000	68.184	0.000	0.000	77.244	37.180	-1.084	MWD+IFR1+MS
16156.245	90.000	359.627	8175.000	68.550	0.000	77.647	0.000	68.550	0.000	0.000	77.651	37.201	-1.075	MWD+IFR1+MS

Plan Targets

Remuda North 25 ST 502H

Target Name	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape
FTP 4	8587.33	464609.30	623065.10	5084.00	CIRCLE
LTP 4	16106.24	472128.00	623016.20	5084.00	CIRCLE
BHL 4	16156.24	472178.00	623015.90	5084.00	CIRCLE