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Phone:(575) 393-6161 Fax:(575) 393-0720
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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 375783

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

1. Operator Name and Address	2. OGRID Number
XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	373075
	3. API Number 30-015-55686

4. Property Code	5. Property Name	6. Well No.
336438	REMUDA NORTH 25 ST	501H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
L	25	23S	29E		2375	S	615	W	Eddy

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
D	24	23S	29E	D	50	N	770	W	Eddy

9. Pool Information

FORTY NINER RIDGE BONE SPRING,WEST	96526

Additional Well Information

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation
New Well	OIL		State	3066
16. Multiple	**17. Proposed Depth**	**18. Formation**	**19. Contractor**	**20. Spud Date**
N	16141	1st Bone Spring Sand		1/7/2025
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	275	280	0
Int1	12.25	9.625	40	3277	1470	0
Int2	8.75	7.625	29.7	7236	140	5716
Int2	8.75	7.625	29.7	3377	430	2777
Prod	6.75	5.5	20	16141	620	7443
Prod	6.75	5.5	5.5	7136	20	6736

Casing/Cement Program: Additional Comments

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Hydril	2022	2022	

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	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024
Submit Electronically Via OCD Permitting		Submittal Type: ☒ Initial Submittal ☐ Amended Report ☐ As Drilled

WELL LOCATION INFORMATION

API Number	Pool Code	Pool Name
30-015 -55686	96526	FORTY NINER RIDGE BONE SPRING, WEST

Property Code	Property Name	Well Number
336438	REMUDA NORTH 25 ST	501H

ORGID No.	Operator Name	Ground Level Elevation
373075	XTO PERMIAN OPERATING, LLC	3,066'

Surface Owner: ☒ State ☐ Fee ☐ Tribal ☐ Federal

Mineral Owner: ☒ State ☐ Fee ☐ Tribal ☐ Federal

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
L	25	23 S	29 E		2,375' FSL	615' FWL	32.275126	-103.944754	EDDY

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
D	24	23 S	29 E		50' FNL	770' FWL	32.297667	-103.944323	EDDY

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
240	DEFINING		N	

Order Numbers.

Well setbacks are under Common Ownership: ☒ Yes ☐ No

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
L	25	23 S	29 E		2,286' FSL	775' FWL	32.274880	-103.944238	EDDY

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
E	25	23 S	29 E		2,310' FNL	770' FWL	32.276849	-103.944245	EDDY

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
D	24	23 S	29 E		100' FNL	770' FWL	32.297529	-103.944322	EDDY

Unitized Area or Area of Uniform Interest	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation: 3,066'

OPERATOR CERTIFICATIONS

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.

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.

Signature: Adrian Baker

Date: 10/23/24

Printed Name: Adrian Baker

Email Address: adrian.baker@exxonmobil.com

SURVEYOR CERTIFICATIONS

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, 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

TIM C. PAPPAS NEW MEXICO 21209 PROFESSIONAL SURVEYOR

Signature and Seal of Professional Surveyor

Certificate Number: TIM C. PAPPAS 21209

Date of Survey: 10/22/2024

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.

FSC INC SURVEYORS+ENGINEERS
2821 West 7th Street., Ste 200 - Fort Worth, TX 76107
Ph: 817.349.9800 - Fax: 979.732.5271
TBPE Firm 17957 | TBPLS Firm 10193887
www.fscinc.net

DATE:	10-22-2024	PROJECT NO:	2024090427
DRAWN BY:	LM	SCALE:	
CHECKED BY:	CH	SHEET:	1 OF 2
FIELD CREW:	IR	REVISION:	NO

ACREAGE DEDICATION PLATS

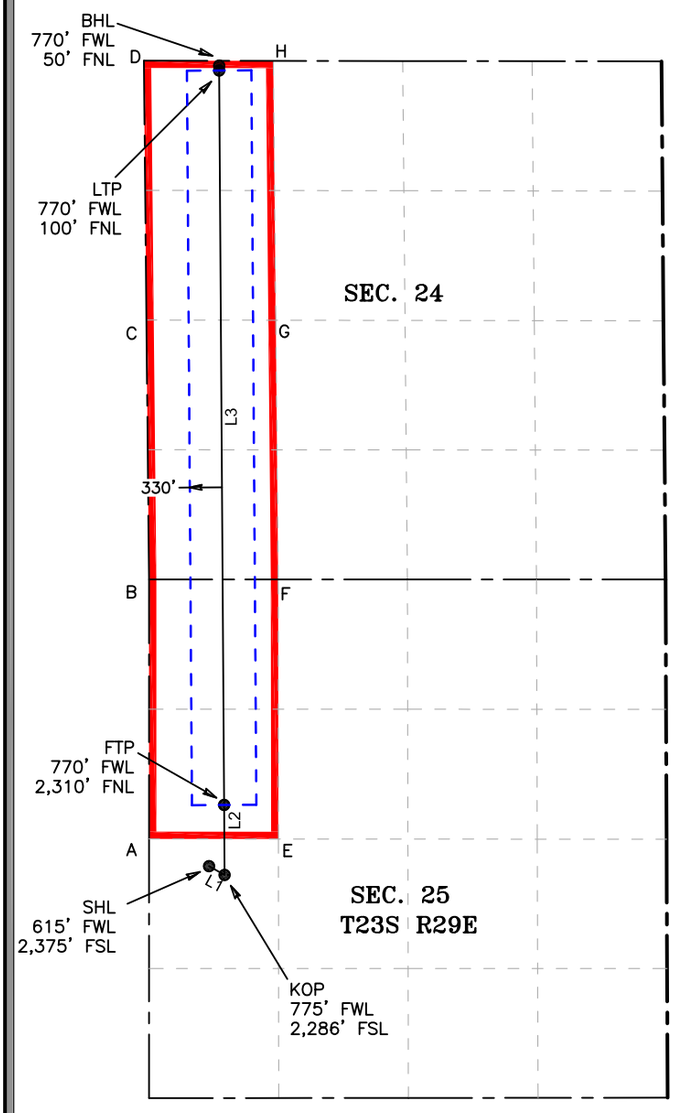
This grid represents a standard section. You may superimpose a non-standard section, or a larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the 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	119° 04'30"	182.90'
L2	359° 36'41"	716.26'
L3	359° 36'32"	7,573.41



COORDINATE TABLE					
SHL (NAD 83 NME)			LTP (NAD 83 NME)		
Y =	464,041.2	N	Y =	472,191.8	N
X =	661,431.8	E	X =	661,535.6	E
LAT. =	32.275126	°N	LAT. =	32.297529	°N
LONG. =	103.944754	°W	LONG. =	103.944322	°W
KOP (NAD 83 NME)			BHL (NAD 83 NME)		
Y =	463,952.3	N	Y =	472,241.8	N
X =	661,591.7	E	X =	661,535.1	E
LAT. =	32.274880	°N	LAT. =	32.297667	°N
LONG. =	103.944238	°W	LONG. =	103.944323	°W
FTP (NAD 83 NME)					
Y =	464,668.5	N			
X =	661,586.8	E			
LAT. =	32.276849	°N			
LONG. =	103.944245	°W			
SHL (NAD 27 NME)			LTP (NAD 27 NME)		
Y =	463,981.3	N	Y =	472,131.7	N
X =	620,249.0	E	X =	620,353.1	E
LAT. =	32.275002	°N	LAT. =	32.297406	°N
LONG. =	103.944262	°W	LONG. =	103.943830	°W
KOP (NAD 27 NME)			BHL (NAD 27 NME)		
Y =	463,892.4	N	Y =	472,181.7	N
X =	620,408.9	E	X =	620,352.6	E
LAT. =	32.274756	°N	LAT. =	32.297543	°N
LONG. =	103.943746	°W	LONG. =	103.943831	°W
FTP (NAD 27 NME)					
Y =	464,608.6	N			
X =	620,404.0	E			
LAT. =	32.276725	°N			
LONG. =	103.943753	°W			

CORNER COORDINATES (NAD83 NME)					
A - Y =	464,320.4	N	A - X =	660,816.8	E
B - Y =	466,978.2	N	B - X =	660,817.0	E
C - Y =	469,636.2	N	C - X =	660,790.3	E
D - Y =	472,292.9	N	D - X =	660,764.6	E
E - Y =	464,319.7	N	E - X =	662,143.0	E
F - Y =	466,978.8	N	F - X =	662,140.6	E
G - Y =	469,634.0	N	G - X =	662,115.2	E
H - Y =	472,291.0	N	H - X =	662,090.3	E
CORNER COORDINATES (NAD27 NME)					
A - Y =	464,260.5	N	A - X =	619,634.0	E
B - Y =	466,918.2	N	B - X =	619,634.3	E
C - Y =	469,576.2	N	C - X =	619,607.7	E
D - Y =	472,232.8	N	D - X =	619,582.1	E
E - Y =	464,259.8	N	E - X =	620,960.2	E
F - Y =	466,918.8	N	F - X =	620,957.9	E
G - Y =	469,574.0	N	G - X =	620,932.6	E
H - Y =	472,230.9	N	H - X =	620,907.8	E

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DATE:	10-22-2024	PROJECT NO:	2024090427
DRAWN BY:	LM	SCALE:	1" = 2,500'
CHECKED BY:	CH	SHEET:	2 OF 2
FIELD CREW:	IR	REVISION:	NO

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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 Comments

Permit 375783

PERMIT COMMENTS

Operator Name and Address:	API Number:
XTO PERMIAN OPERATING LLC. [373075] 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	30-015-55686
	Well: REMUDA NORTH 25 ST #501H

Created By	Comment	Comment Date
vrajan	A variance is requested to allow use of a Flex Hose, Break Test Variance, to be able to batch drill, to utilize a spudder rig.	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 375783

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
XTO PERMIAN OPERATING LLC. [373075] 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	30-015-55686
	Well: REMUDA NORTH 25 ST #501H

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

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 ga thering 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.

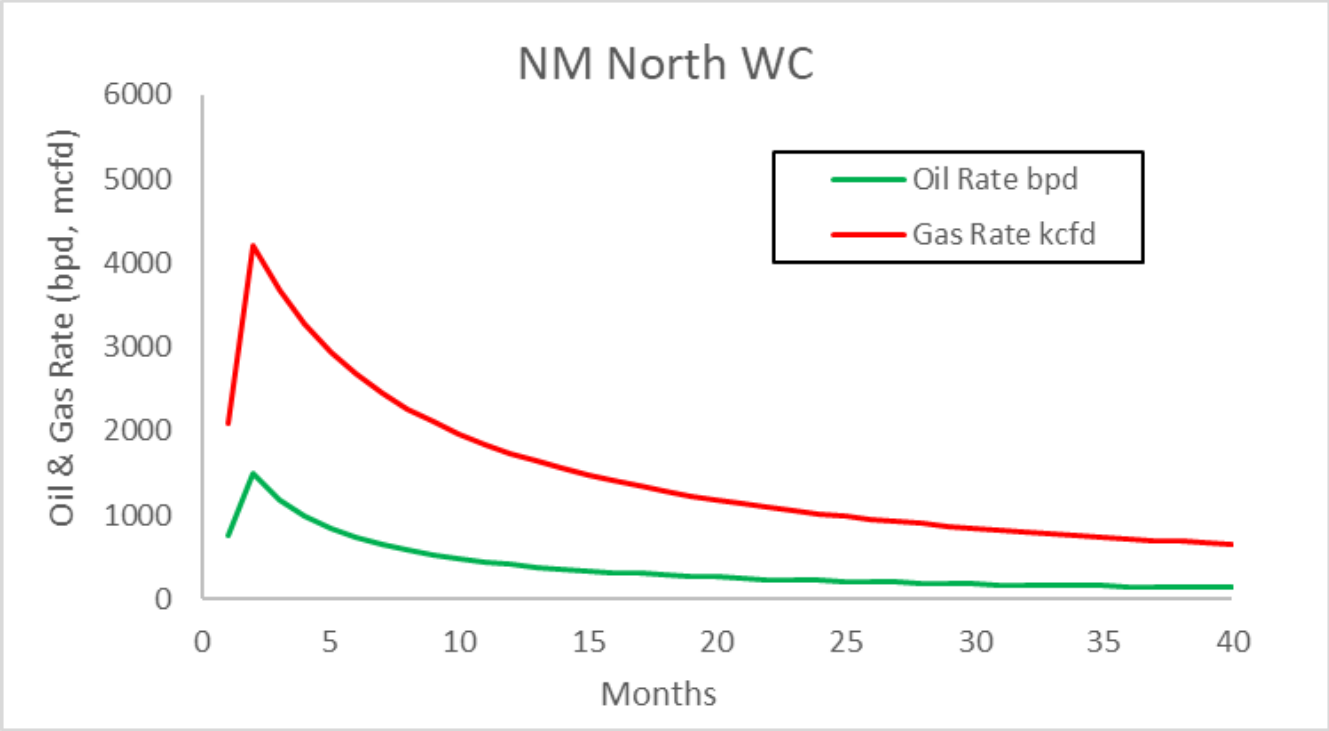
2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural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

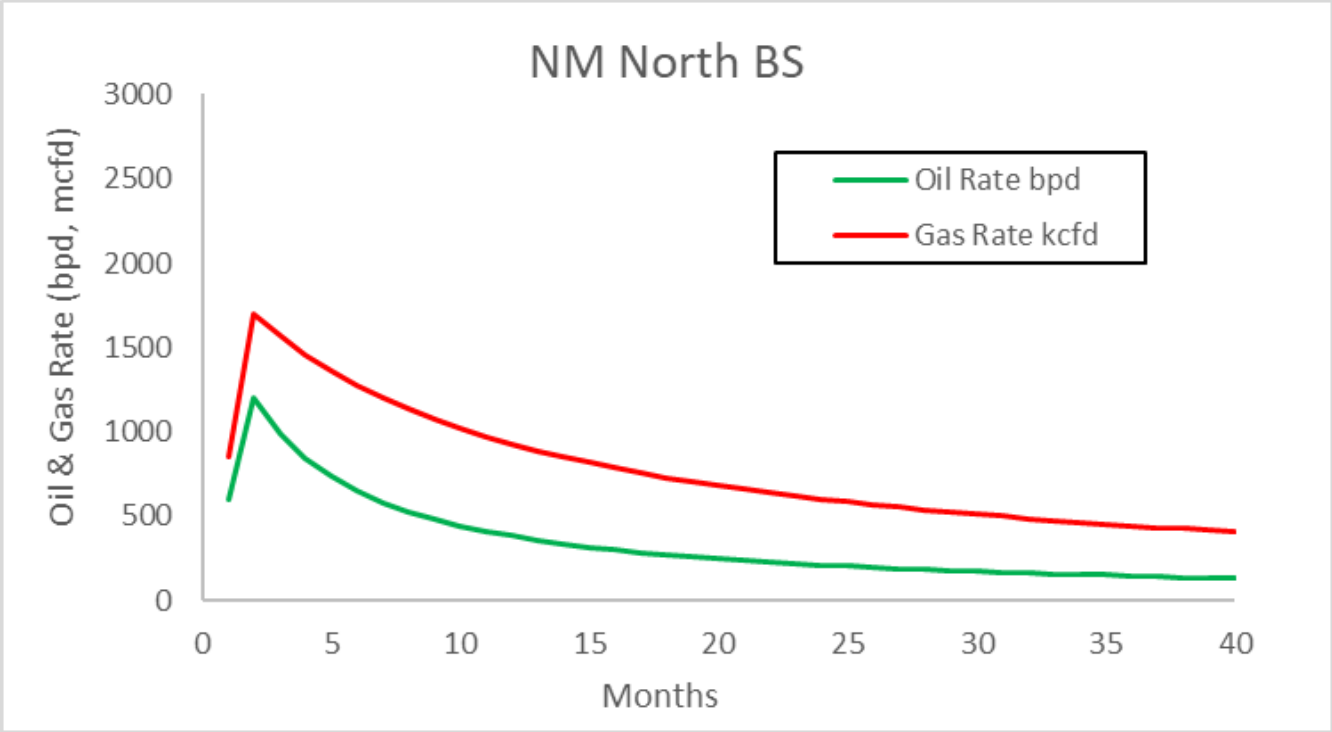
I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

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:	


NM North WC
Oil & Gas Rate (bpd, mcfd)
6000
5000
4000
3000
2000
1000
0
0
5
10
15
20
25
30
35
40
Months
Oil Rate bpd
Gas Rate kcfd


NM North BS
Oil & Gas Rate (bpd, mcfd)
3000
2500
2000
1500
1000
500
0
0
5
10
15
20
25
30
35
40
Months
Oil Rate bpd
Gas Rate kcfd

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 LLCwill 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	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024
Submit Electronically Via OCD Permitting		Submittal Type: ☒ Initial Submittal ☐ Amended Report ☐ As Drilled

WELL LOCATION INFORMATION

API Number	Pool Code	Pool Name
30-015	96526	FORTY NINER RIDGE BONE SPRING, WEST

Property Code	Property Name	Well Number
	REMUDA NORTH 25 ST	501H

ORGID No.	Operator Name	Ground Level Elevation
373075	XTO PERMIAN OPERATING, LLC	3,066'

Surface Owner: ☒ State ☐ Fee ☐ Tribal ☐ Federal

Mineral Owner: ☒ State ☐ Fee ☐ Tribal ☐ Federal

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
L	25	23 S	29 E		2,375' FSL	615' FWL	32.275126	-103.944754	EDDY

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
D	24	23 S	29 E		50' FNL	770' FWL	32.297667	-103.944323	EDDY

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
240	DEFINING		N	

Order Numbers.

Well setbacks are under Common Ownership: ☒ Yes ☐ No

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
L	25	23 S	29 E		2,286' FSL	775' FWL	32.274880	-103.944238	EDDY

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
E	25	23 S	29 E		2,310' FNL	770' FWL	32.276849	-103.944245	EDDY

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
D	24	23 S	29 E		100' FNL	770' FWL	32.297529	-103.944322	EDDY

Unitized Area or Area of Uniform Interest	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation: 3,066'

OPERATOR CERTIFICATIONS

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.

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.

Signature: Adrian Baker

Date: 10/23/24

Printed Name: Adrian Baker

Email Address: adrian.baker@exxonmobil.com

SURVEYOR CERTIFICATIONS

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, 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

TIM C. PAPPAS NEW MEXICO 21209 PROFESSIONAL SURVEYOR

Signature and Seal of Professional Surveyor

Certificate Number	Date of Survey
TIM C. PAPPAS 21209	10/22/2024

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.

FSC INC SURVEYORS+ENGINEERS
2821 West 7th Street., Ste 200 - Fort Worth, TX 76107
Ph: 817.349.9800 - Fax: 979.732.5271
TBPE Firm 17957 | TBPLS Firm 10193887
www.fscinc.net

DATE:	10-22-2024	PROJECT NO:	2024090427
DRAWN BY:	LM	SCALE:	
CHECKED BY:	CH	SHEET:	1 OF 2
FIELD CREW:	IR	REVISION:	NO

ACREAGE DEDICATION PLATS

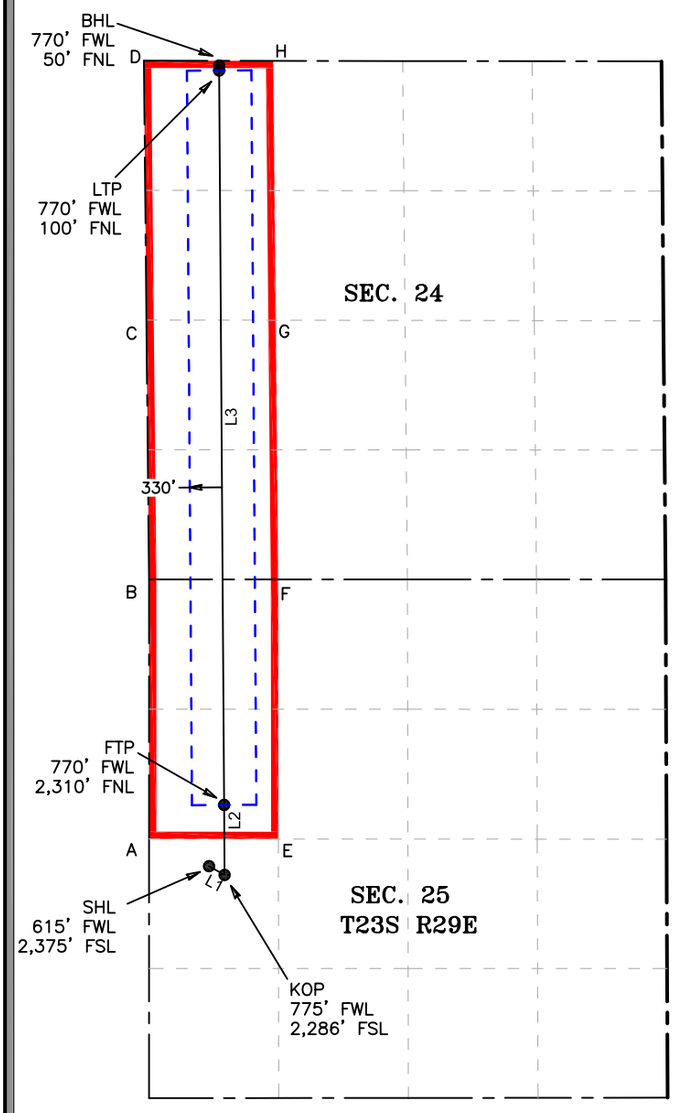
This grid represents a standard section. You may superimpose a non-standard section, or a larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the 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	119° 04'30"	182.90'
L2	359° 36'41"	716.26'
L3	359° 36'32"	7,573.41



COORDINATE TABLE					
SHL (NAD 83 NME)			LTP (NAD 83 NME)		
Y =	464,041.2	N	Y =	472,191.8	N
X =	661,431.8	E	X =	661,535.6	E
LAT. =	32.275126	°N	LAT. =	32.297529	°N
LONG. =	103.944754	°W	LONG. =	103.944322	°W
KOP (NAD 83 NME)			BHL (NAD 83 NME)		
Y =	463,952.3	N	Y =	472,241.8	N
X =	661,591.7	E	X =	661,535.1	E
LAT. =	32.274880	°N	LAT. =	32.297667	°N
LONG. =	103.944238	°W	LONG. =	103.944323	°W
FTP (NAD 83 NME)					
Y =	464,668.5	N			
X =	661,586.8	E			
LAT. =	32.276849	°N			
LONG. =	103.944245	°W			
SHL (NAD 27 NME)			LTP (NAD 27 NME)		
Y =	463,981.3	N	Y =	472,131.7	N
X =	620,249.0	E	X =	620,353.1	E
LAT. =	32.275002	°N	LAT. =	32.297406	°N
LONG. =	103.944262	°W	LONG. =	103.943830	°W
KOP (NAD 27 NME)			BHL (NAD 27 NME)		
Y =	463,892.4	N	Y =	472,181.7	N
X =	620,408.9	E	X =	620,352.6	E
LAT. =	32.274756	°N	LAT. =	32.297543	°N
LONG. =	103.943746	°W	LONG. =	103.943831	°W
FTP (NAD 27 NME)					
Y =	464,608.6	N			
X =	620,404.0	E			
LAT. =	32.276725	°N			
LONG. =	103.943753	°W			

CORNER COORDINATES (NAD83 NME)					
A - Y =	464,320.4	N	A - X =	660,816.8	E
B - Y =	466,978.2	N	B - X =	660,817.0	E
C - Y =	469,636.2	N	C - X =	660,790.3	E
D - Y =	472,292.9	N	D - X =	660,764.6	E
E - Y =	464,319.7	N	E - X =	662,143.0	E
F - Y =	466,978.8	N	F - X =	662,140.6	E
G - Y =	469,634.0	N	G - X =	662,115.2	E
H - Y =	472,291.0	N	H - X =	662,090.3	E
CORNER COORDINATES (NAD27 NME)					
A - Y =	464,260.5	N	A - X =	619,634.0	E
B - Y =	466,918.2	N	B - X =	619,634.3	E
C - Y =	469,576.2	N	C - X =	619,607.7	E
D - Y =	472,232.8	N	D - X =	619,582.1	E
E - Y =	464,259.8	N	E - X =	620,960.2	E
F - Y =	466,918.8	N	F - X =	620,957.9	E
G - Y =	469,574.0	N	G - X =	620,932.6	E
H - Y =	472,230.9	N	H - X =	620,907.8	E

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DATE:	10-22-2024	PROJECT NO:	2024090427
DRAWN BY:	LM	SCALE:	1" = 2,500'
CHECKED BY:	CH	SHEET:	2 OF 2
FIELD CREW:	IR	REVISION:	NO

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

XTO Energy Inc.
REMUDA NORTH 25 ST - 501H
Projected TD: 16141' MD / 8152' TVD
SHL: 2375' FSL & 615' FWL , Section 25, T23S, R29E
BHL: 50' FNL & 770' FWL , Section 24, T23S, R29E
EDDY County, NM

1. Geologic Name of Surface Formation

A. Quaternary

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

Formation	Well Depth (TVD)	Water/Oil/Gas
Rustler	180'	Water
Top of Salt	300'	Water
MB 126	1548'	Water
Base of Salt	3052'	Water
Delaware	3278'	Water/Oil/Gas
Brushy Canyon	5716'	Water
Bone Spring	6978'	Water/Oil/Gas
1st Bone Spring Ss	7974'	Water/Oil/Gas
Target/Land Curve	8152'	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 @ 275' (25' above the salt) and circulating cement back to surface. The salt will be isolated by setting 9.625 inch casing at 3277' 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 7236' and cementing to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 16141 MD/TD and 5.5 inch production casing will be set at TD and cemented back up to 2nd intermediate (estimated TOC 6736 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' – 275'	13.375	54.5	J-55	BTC	New	2.79	9.30	60.65
12.25	0' – 3277'	9.625	40	J-55	BTC	New	2.20	2.76	4.81
8.75	0' – 3377'	7.625	29.7	RY P-110	Flush Joint	New	4.68	3.39	2.60
8.75	3377' – 7236'	7.625	29.7	HC L-80	Flush Joint	New	3.40	4.43	3.54
6.75	0' – 7136'	5.5	20	RY P-110	Semi-Premium / Freedom	New	1.26	3.32	2.86
6.75	7136' - 16141'	5.5	20	RY P-110	Semi-Flush / Talon	New	1.26	2.91	7.85

· 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 +/- 275'

Tail: 280 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 +/- 3277'

Lead: 1340 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 +/- 7236'
1st Stage
Tail: 140 sxs Class C (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)
TOC: Brushy Canyon @ 5716
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: 2777
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 (5716') 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 +/- 16141'

Lead: 20 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft3/sx, 15.00 gal/sx water) Top of Cement: 6736 feet
Tail: 620 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft3/sx, 8.38 gal/sx water) Top of Cement: 7443 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 Hydril and a 13-5/8" minimum 5M Triple Ram BOP. MASP should not exceed 2022 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' - 275'	17.5	FW/Native	8.5-9	35-40	NC	Fresh water or native water
275' - 3277'	12.25	Sat Brine	10-10.5	30-32	NC	Fully Saturated salt across salado
3277' to 7236'	8.75	BDE/OBM or FW/Brine	9-9.5	30-32	NC	N/A
7236' to 16141'	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 3815 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	–

UNCONTROLLED

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.

U. S. Steel Tubular Products
460 Wildwood Forest Drive, Suite 300S
Spring, Texas 77380

1-877-893-9461
connections@uss.com
www.usstubular.com

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

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. Joint efficiencies are calculated by dividing the connection critical area by the pipe body area.
3. Uniaxial bend rating shown is structural only.
4. 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.).
5. Reference length is calculated by Joint Strength divided by Nominal Linear Weight, T&C with a 1.5 Safety factor.
6. Coupling must meet minimum mechanical properties of the pipe.

U. S. Steel Tubular Products
460 Wildwood Forest Drive, Suite 300S
Spring, Texas 77380

1-877-893-9461
connections@uss.com
www.usstubular.com

BLACK GOLD®

GATES ENGINEERING & SERVICES NORTH AMERICA
7603 Prairie Oak Dr.
Houston, TX. 77086

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FAX: +1 (281) 602-4147
EMAIL: gesna.quality@gates.com
WEB: www.gates.com/oilandgas

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. OSPINOS

TITLE: QUALITY ASSURANCE

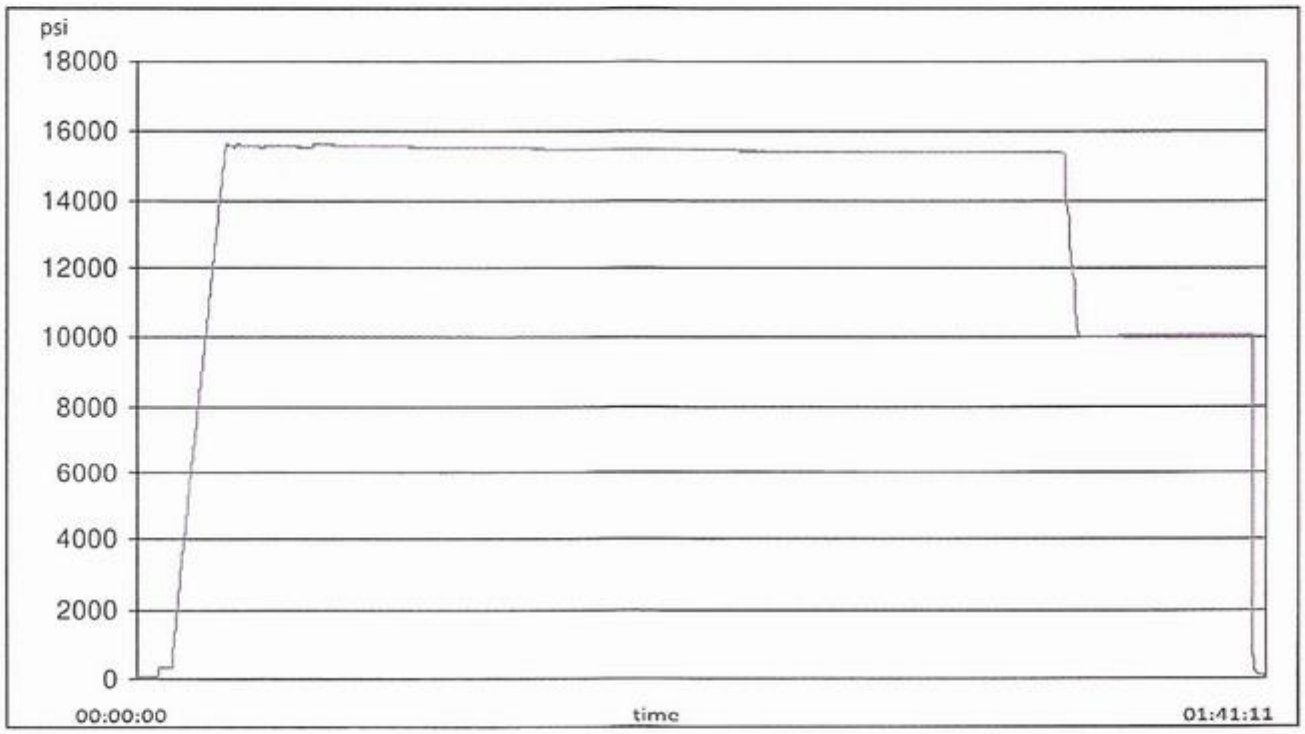
DATE: 1/25/2024

H3-15716

1/25/2024 11:48:06 AM

TEST REPORT

CUSTOMER			TEST OBJECT		
Company:	Nabors Industries Inc.		Serial number:	H3-012524-1	
			Lot number:		
Production description:	74621/66-1531		Description:	74621/66-1531	
Sales order #:	529480				
Customer reference:	FG1213		Hose ID:	3" 16C CK	
			Part number:		
TEST INFORMATION					
Test procedure:	GTS-04-053		Fitting 1:	3.0 x 4-1/16 10K	
Test pressure:	15000.00	psi	Part number:		
Test pressure hold:	3600.00	sec	Description:		
Work pressure:	10000.00	psi			
Work pressure hold:	900.00	sec	Fitting 2:	3.0 x 4-1/16 10K	
Length difference:	0.00	%	Part number:		
Length difference:	0.00	inch	Description:		
Visual check:			Length:	45	feet
Pressure test result:	PASS				
Length measurement result:					
Test operator:	Travis				



H3-15/16

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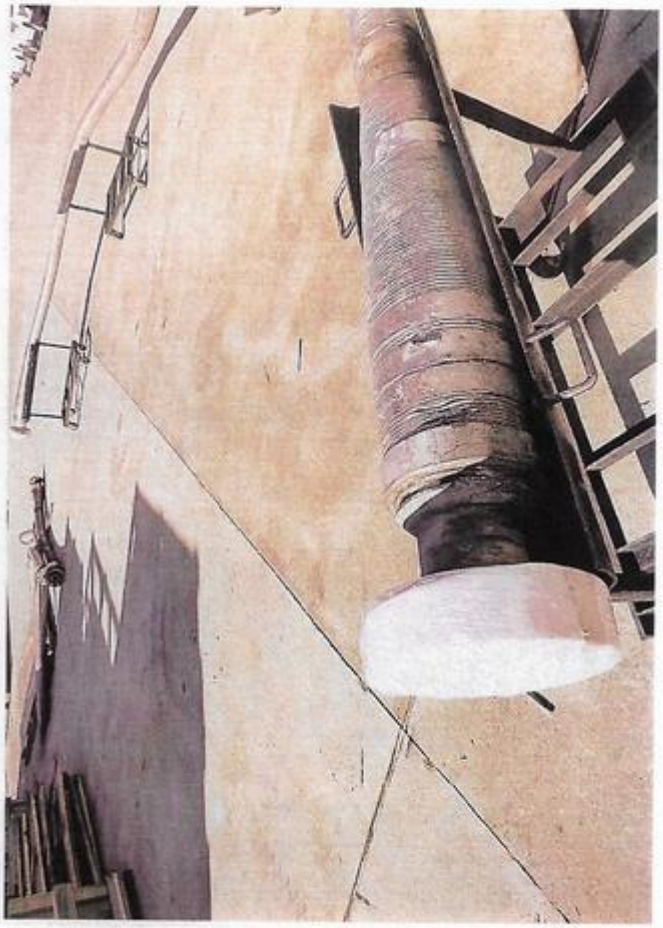
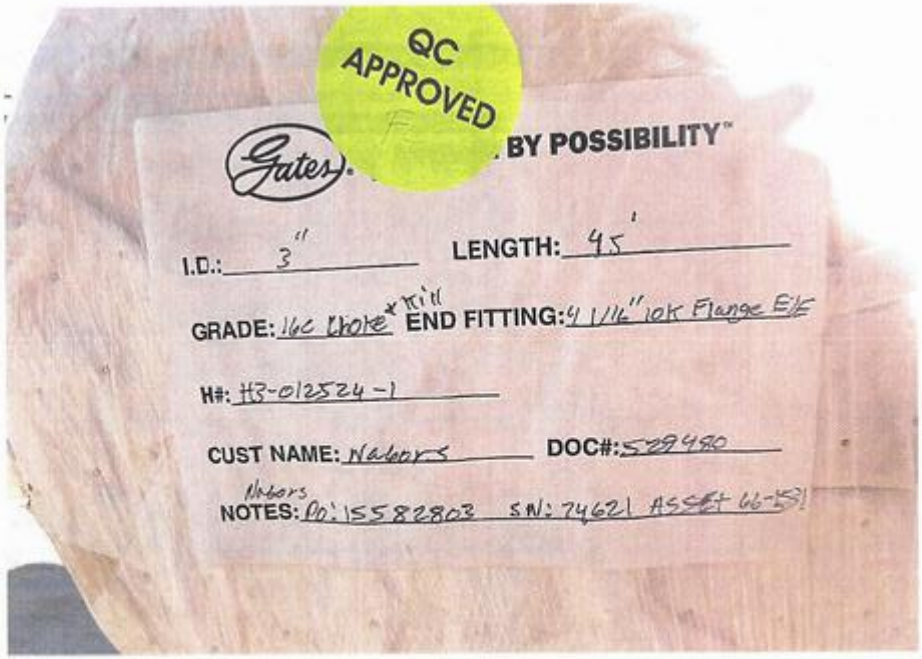
TEST REPORT

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 nippled 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.

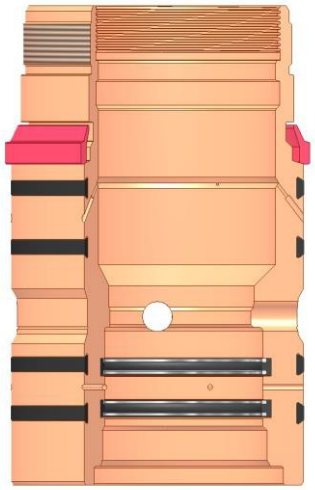
1. Cement Program

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

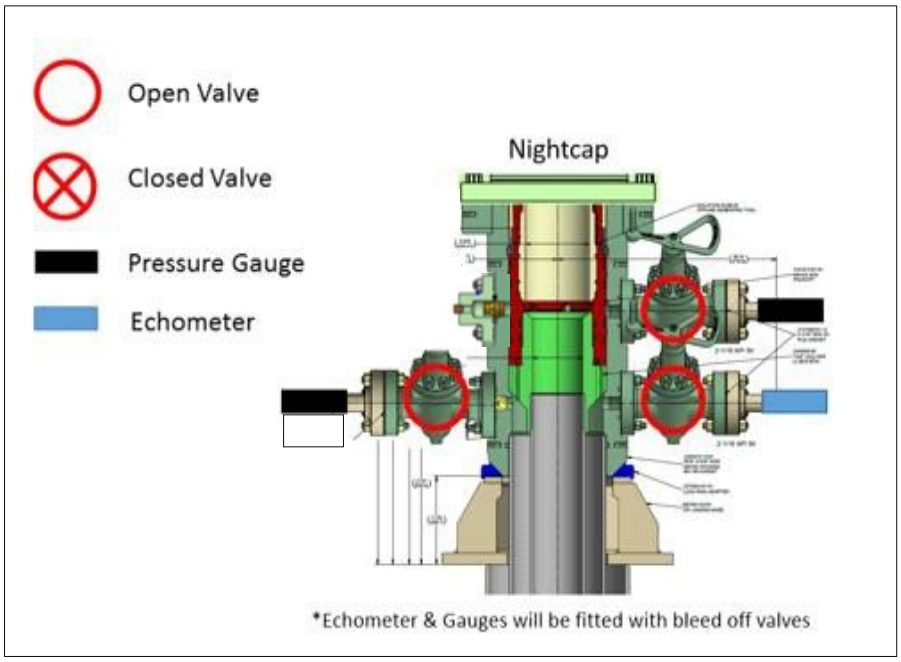
2. Offline Cementing Procedure

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 nippled 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.



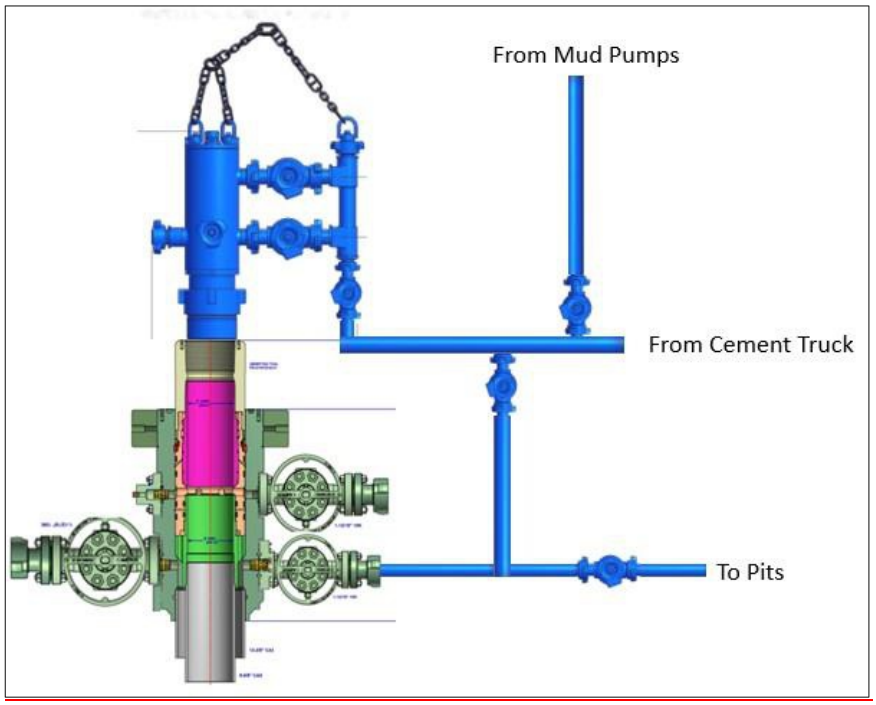
Annular packoff with both external and internal seals



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 nippling 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

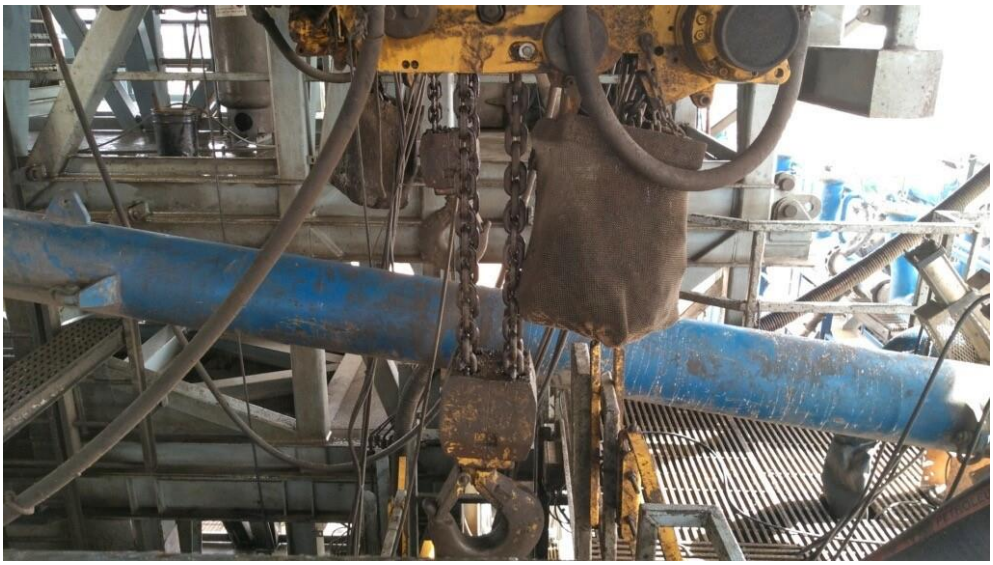


Figure 2: BOP Winch System

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

62 API STANDARD 53

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

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

[a] Pressure test evaluation periods shall be a minimum of five minutes.
No visible leaks.
The pressure shall remain stable during the evaluation period. The pressure shall not decrease below the intended test pressure.

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

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

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

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

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

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

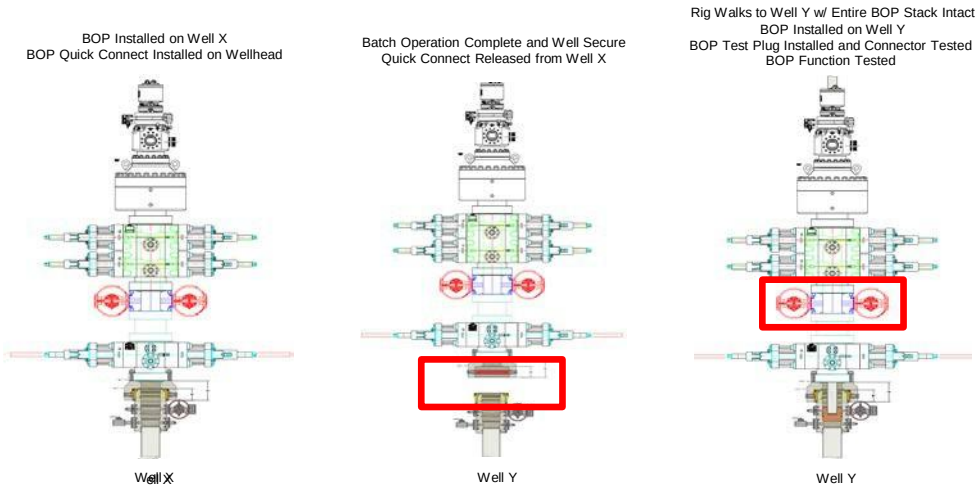
XTO Energy feels break testing and our current procedures meet the intent of CFR Title 43 Part 317 0and often exceed it. There has been no evidence that break testing results in more components failing than seen on full BOP tests. XTO Energy's internal standards requires complete BOPE tests more often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

Procedures

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

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

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



Summary

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

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

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

1. After a full BOP test is conducted on the first well on the pad.

2. The first intermediate hole section drilled on the pad will be the deepest. All of the remaining hole sections will be the same depth or shallower.

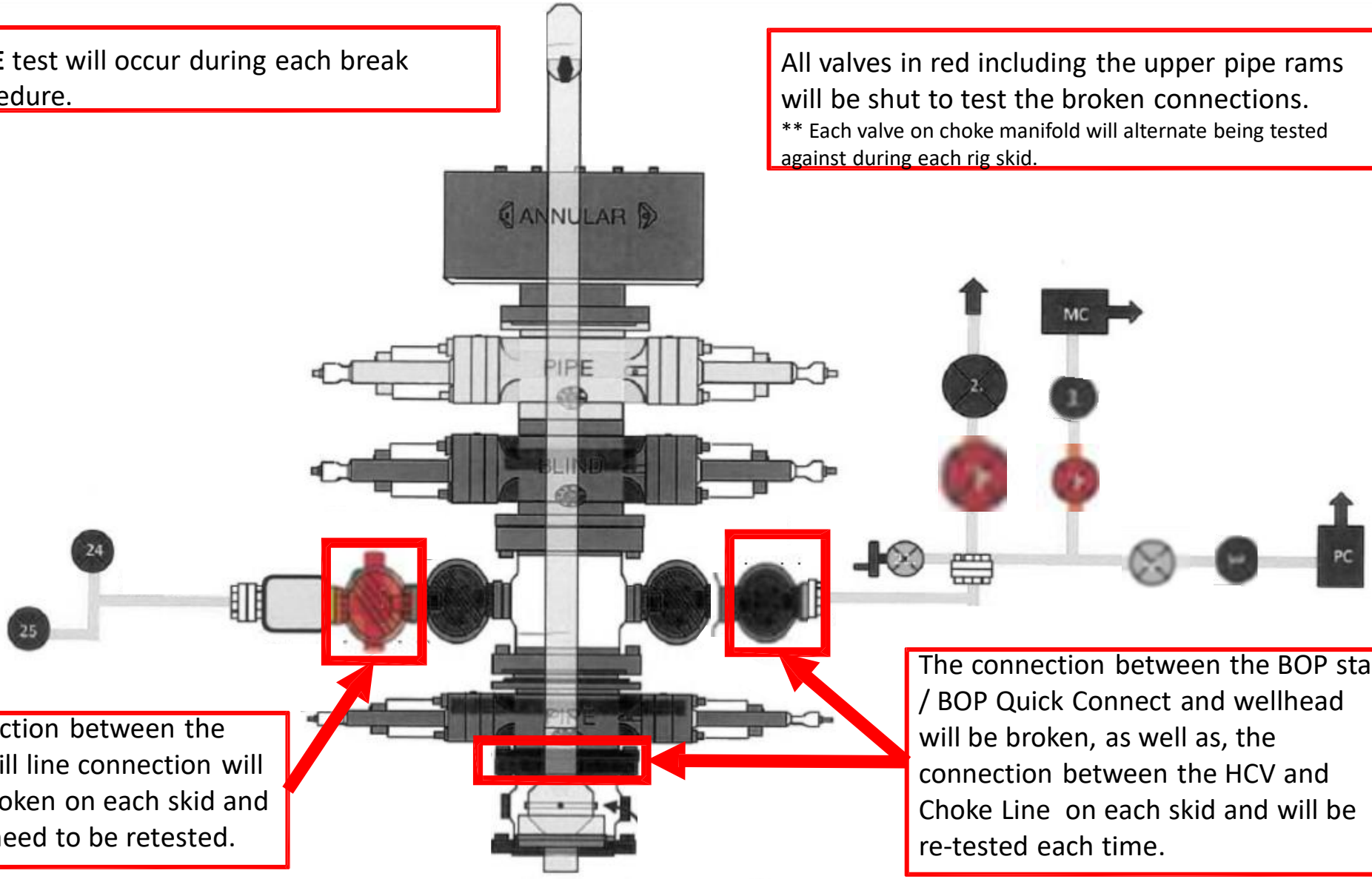
3. Full BOP test will be required if the intermediate hole section being drilled has a MASP over 5M.

4. Full BOP test will be required prior to drilling the production hole.

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

All valves in red including the upper pipe rams will be shut to test the broken connections.

** Each valve on choke manifold will alternate being tested against during each rig skid.



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

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

Well Plan Report - Remuda North 25 ST 501H

Measured Depth:	16141.18 ft	**Site:**	A
TVD RKB:	8152.00 ft	**Slot:**	Remuda North 25 ST 501H
Location			
Cartographic Reference System:	New Mexico East - NAD 27		
Northing:	463981.30 ft		
Easting:	620249.00 ft		
RKB:	3098.00 ft		
Ground Level:	472181.70 ft		
North Reference:	Grid		
Convergence Angle:	0.21 Deg		

Plan Sections Remuda North 25 ST 501H

Measured Depth (ft)	Inclination (Deg)	Azimuth (Deg)	TVD RKB (ft)	Y Offset (ft)	X Offset (ft)	Build Rate (Deg/100ft)	Turn Rate (Deg/100ft)	Dogleg Rate (Deg/100ft)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3100.00	0.00	0.00	3100.00	0.00	0.00	0.00	0.00	0.00	
3330.37	4.61	119.08	3330.12	-4.50	8.09	2.00	0.00	2.00	
5376.74	4.61	119.08	5369.88	-84.38	151.75	0.00	0.00	0.00	
5607.11	0.00	0.00	5600.00	-88.88	159.85	-2.00	0.00	2.00	
7442.91	0.00	0.00	7435.80	-88.88	159.85	0.00	0.00	0.00	
8567.91	90.00	359.61	8152.00	627.30	155.00	8.00	0.00	8.00	FTP 1
16091.18	90.00	359.61	8152.00	8150.40	104.10	0.00	0.00	0.00	LTP 1
16141.18	90.00	359.61	8152.00	8200.40	103.76	0.00	0.00	0.00	BHL 1

Position Uncertainty Remuda North 25 ST 501H

Measured	TVD	Highside	Lateral	Vertical	Magnitude	Semi-major	Semi-minor	Semi-minor	Tool

Depth (ft)	Inclination (°)	Azimuth (°)	RKB (ft)	Error (ft)	Bias (ft)	Error (ft)	Bias (ft)	Error (ft)	Bias (ft)	of Bias (ft)	Error (ft)	Error (ft)	Azimuth (°)	Used
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	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	2.628	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	3.077	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	3.226	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	3.629	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	119.076	3199.980	11.459	0.000	12.282	-0.000	4.257	0.000	0.000	12.315	11.428	130.536	MWD+IFR1+MS
3300.000	4.000	119.076	3299.838	11.997	0.000	12.607	-0.000	4.353	0.000	0.000	12.625	12.001	129.082	MWD+IFR1+MS
3330.369	4.607	119.076	3330.121	12.095	0.000	12.702	-0.000	4.380	0.000	0.000	12.719	12.109	128.910	MWD+IFR1+MS
3400.000	4.607	119.076	3399.527	12.327	0.000	12.922	-0.000	4.448	0.000	0.000	12.938	12.342	128.412	MWD+IFR1+MS
3500.000	4.607	119.076	3499.204	12.662	0.000	13.248	-0.000	4.547	0.000	0.000	13.259	12.681	127.080	MWD+IFR1+MS
3600.000	4.607	119.076	3598.881	13.003	0.000	13.580	-0.000	4.647	0.000	0.000	13.587	13.025	125.371	MWD+IFR1+MS
3700.000	4.607	119.076	3698.557	13.345	0.000	13.913	-0.000	4.750	0.000	0.000	13.917	13.369	123.663	MWD+IFR1+MS
3800.000	4.607	119.076	3798.234	13.687	0.000	14.248	-0.000	4.854	0.000	0.000	14.250	13.713	121.969	MWD+IFR1+MS
3900.000	4.607	119.076	3897.911	14.031	0.000	14.585	-0.000	4.959	0.000	0.000	14.585	14.057	120.305	MWD+IFR1+MS
4000.000	4.607	119.076	3997.588	14.376	0.000	14.923	-0.000	5.067	0.000	0.000	14.923	14.401	118.681	MWD+IFR1+MS
4100.000	4.607	119.076	4097.265	14.722	0.000	15.262	-0.000	5.176	0.000	0.000	15.263	14.745	117.108	MWD+IFR1+MS
4200.000	4.607	119.076	4196.942	15.069	0.000	15.602	-0.000	5.286	0.000	0.000	15.604	15.090	115.596	MWD+IFR1+MS
4300.000	4.607	119.076	4296.618	15.416	0.000	15.944	-0.000	5.399	0.000	0.000	15.947	15.434	114.151	MWD+IFR1+MS
4400.000	4.607	119.076	4396.295	15.764	0.000	16.286	-0.000	5.513	0.000	0.000	16.292	15.778	112.777	MWD+IFR1+MS
4500.000	4.607	119.076	4495.972	16.112	0.000	16.630	-0.000	5.630	0.000	0.000	16.639	16.123	111.476	MWD+IFR1+MS
4600.000	4.607	119.076	4595.649	16.462	0.000	16.974	-0.000	5.748	0.000	0.000	16.986	16.468	110.251	MWD+IFR1+MS
4700.000	4.607	119.076	4695.326	16.812	0.000	17.320	-0.000	5.868	0.000	0.000	17.335	16.813	109.099	MWD+IFR1+MS
4800.000	4.607	119.076	4795.003	17.162	0.000	17.666	-0.000	5.990	0.000	0.000	17.685	17.159	108.020	MWD+IFR1+MS
4900.000	4.607	119.076	4894.680	17.513	0.000	18.013	-0.000	6.114	0.000	0.000	18.036	17.505	107.012	MWD+IFR1+MS
5000.000	4.607	119.076	4994.356	17.864	0.000	18.361	-0.000	6.239	0.000	0.000	18.387	17.851	106.070	MWD+IFR1+MS
5100.000	4.607	119.076	5094.033	18.216	0.000	18.709	-0.000	6.367	0.000	0.000	18.740	18.198	105.193	MWD+IFR1+MS
5200.000	4.607	119.076	5193.710	18.569	0.000	19.058	-0.000	6.497	0.000	0.000	19.093	18.545	104.376	MWD+IFR1+MS
5300.000	4.607	119.076	5293.387	18.921	0.000	19.408	-0.000	6.629	0.000	0.000	19.447	18.893	103.616	MWD+IFR1+MS
5376.740	4.607	119.076	5369.879	19.189	0.000	19.674	-0.000	6.732	0.000	0.000	19.714	19.158	103.318	MWD+IFR1+MS
5400.000	4.142	119.076	5393.071	19.276	0.000	19.753	-0.000	6.763	0.000	0.000	19.793	19.238	103.320	MWD+IFR1+MS
5500.000	2.142	119.076	5492.916	19.684	0.000	20.096	-0.000	6.900	0.000	0.000	20.148	19.622	100.789	MWD+IFR1+MS
5607.109	0.000	0.000	5600.000	20.498	0.000	20.050	0.000	7.047	0.000	0.000	20.523	20.024	103.059	MWD+IFR1+MS
5700.000	0.000	0.000	5692.891	20.863	0.000	20.376	0.000	7.176	0.000	0.000	20.894	20.344	103.818	MWD+IFR1+MS
5800.000	0.000	0.000	5792.891	21.211	0.000	20.728	0.000	7.316	0.000	0.000	21.245	20.693	104.450	MWD+IFR1+MS
5900.000	0.000	0.000	5892.891	21.561	0.000	21.081	0.000	7.458	0.000	0.000	21.598	21.043	105.108	MWD+IFR1+MS
6000.000	0.000	0.000	5992.891	21.911	0.000	21.434	0.000	7.603	0.000	0.000	21.951	21.392	105.736	MWD+IFR1+MS
6100.000	0.000	0.000	6092.891	22.261	0.000	21.787	0.000	7.750	0.000	0.000	22.305	21.742	106.336	MWD+IFR1+MS

6200.000	0.000	0.000	6192.891	22.611	0.000	22.140	0.000	7.900	0.000	0.000	22.659	22.091	106.910	MWD+IFR1+MS
6300.000	0.000	0.000	6292.891	22.962	0.000	22.493	0.000	8.052	0.000	0.000	23.013	22.441	107.457	MWD+IFR1+MS
6400.000	0.000	0.000	6392.891	23.313	0.000	22.847	0.000	8.206	0.000	0.000	23.367	22.791	107.981	MWD+IFR1+MS
6500.000	0.000	0.000	6492.891	23.664	0.000	23.201	0.000	8.363	0.000	0.000	23.721	23.142	108.481	MWD+IFR1+MS
6600.000	0.000	0.000	6592.891	24.015	0.000	23.554	0.000	8.522	0.000	0.000	24.076	23.492	108.959	MWD+IFR1+MS
6700.000	0.000	0.000	6692.891	24.367	0.000	23.908	0.000	8.683	0.000	0.000	24.431	23.843	109.417	MWD+IFR1+MS
6800.000	0.000	0.000	6792.891	24.718	0.000	24.263	0.000	8.848	0.000	0.000	24.786	24.194	109.856	MWD+IFR1+MS
6900.000	0.000	0.000	6892.891	25.070	0.000	24.617	0.000	9.014	0.000	0.000	25.141	24.544	110.275	MWD+IFR1+MS
7000.000	0.000	0.000	6992.891	25.422	0.000	24.971	0.000	9.184	0.000	0.000	25.496	24.895	110.677	MWD+IFR1+MS
7100.000	0.000	0.000	7092.891	25.775	0.000	25.326	0.000	9.355	0.000	0.000	25.852	25.247	111.063	MWD+IFR1+MS
7200.000	0.000	0.000	7192.891	26.127	0.000	25.680	0.000	9.530	0.000	0.000	26.207	25.598	111.433	MWD+IFR1+MS
7300.000	0.000	0.000	7292.891	26.480	0.000	26.035	0.000	9.707	0.000	0.000	26.563	25.950	111.788	MWD+IFR1+MS
7400.000	0.000	0.000	7392.891	26.832	0.000	26.390	0.000	9.887	0.000	0.000	26.919	26.301	112.128	MWD+IFR1+MS
7442.912	0.000	0.000	7435.803	26.981	0.000	26.540	0.000	9.964	0.000	0.000	27.068	26.451	112.121	MWD+IFR1+MS
7500.000	4.567	359.612	7492.830	27.126	0.000	26.741	0.000	10.068	0.000	0.000	27.308	26.653	110.950	MWD+IFR1+MS
7600.000	12.567	359.612	7591.634	27.908	0.000	27.083	0.000	10.316	0.000	0.000	28.537	27.028	100.455	MWD+IFR1+MS
7700.000	20.567	359.612	7687.405	28.787	0.000	27.415	0.000	10.808	0.000	0.000	30.191	27.364	97.118	MWD+IFR1+MS
7800.000	28.567	359.612	7778.279	29.185	0.000	27.729	0.000	11.614	0.000	0.000	31.619	27.675	96.147	MWD+IFR1+MS
7900.000	36.567	359.612	7862.487	29.154	0.000	28.025	0.000	12.763	0.000	0.000	32.808	27.964	95.790	MWD+IFR1+MS
8000.000	44.567	359.612	7938.389	28.760	0.000	28.301	0.000	14.226	0.000	0.000	33.754	28.233	95.699	MWD+IFR1+MS
8100.000	52.567	359.612	8004.510	28.091	0.000	28.558	0.000	15.939	0.000	0.000	34.468	28.482	95.756	MWD+IFR1+MS
8200.000	60.567	359.612	8059.561	27.257	0.000	28.795	0.000	17.825	0.000	0.000	34.967	28.712	95.910	MWD+IFR1+MS
8300.000	68.567	359.612	8102.472	26.390	0.000	29.013	0.000	19.808	0.000	0.000	35.280	28.923	96.126	MWD+IFR1+MS
8400.000	76.567	359.612	8132.407	25.644	0.000	29.213	0.000	21.819	0.000	0.000	35.445	29.116	96.371	MWD+IFR1+MS
8500.000	84.567	359.612	8148.783	25.176	0.000	29.394	0.000	23.796	0.000	0.000	35.506	29.292	96.599	MWD+IFR1+MS
8567.912	90.000	359.612	8152.000	24.473	0.000	29.501	0.000	24.473	0.000	0.000	35.516	29.399	96.699	MWD+IFR1+MS
8600.000	90.000	359.612	8152.000	24.544	0.000	29.549	0.000	24.544	0.000	0.000	35.518	29.447	96.739	MWD+IFR1+MS
8700.000	90.000	359.612	8152.000	24.712	0.000	29.724	0.000	24.712	0.000	0.000	35.524	29.620	96.896	MWD+IFR1+MS
8800.000	90.000	359.612	8152.000	24.907	0.000	29.927	0.000	24.907	0.000	0.000	35.531	29.821	97.095	MWD+IFR1+MS
8900.000	90.000	359.612	8152.000	25.126	0.000	30.154	0.000	25.126	0.000	0.000	35.539	30.046	97.338	MWD+IFR1+MS
9000.000	90.000	359.612	8152.000	25.367	0.000	30.405	0.000	25.367	0.000	0.000	35.549	30.294	97.633	MWD+IFR1+MS
9100.000	90.000	359.612	8152.000	25.630	0.000	30.679	0.000	25.630	0.000	0.000	35.559	30.564	97.992	MWD+IFR1+MS
9200.000	90.000	359.612	8152.000	25.914	0.000	30.976	0.000	25.914	0.000	0.000	35.571	30.857	98.429	MWD+IFR1+MS

9300.000	90.000	359.612	8152.000	26.218	0.000	31.294	0.000	26.218	0.000	0.000	35.585	31.170	98.962	MWD+IFR1+MS
9400.000	90.000	359.612	8152.000	26.542	0.000	31.634	0.000	26.542	0.000	0.000	35.600	31.503	99.621	MWD+IFR1+MS
9500.000	90.000	359.612	8152.000	26.885	0.000	31.995	0.000	26.885	0.000	0.000	35.618	31.855	100.443	MWD+IFR1+MS
9600.000	90.000	359.612	8152.000	27.247	0.000	32.376	0.000	27.247	0.000	0.000	35.640	32.224	101.488	MWD+IFR1+MS
9700.000	90.000	359.612	8152.000	27.626	0.000	32.776	0.000	27.626	0.000	0.000	35.665	32.608	102.843	MWD+IFR1+MS
9800.000	90.000	359.612	8152.000	28.022	0.000	33.194	0.000	28.022	0.000	0.000	35.696	33.006	104.648	MWD+IFR1+MS
9900.000	90.000	359.612	8152.000	28.434	0.000	33.630	0.000	28.434	0.000	0.000	35.737	33.413	107.130	MWD+IFR1+MS
10000.000	90.000	359.612	8152.000	28.861	0.000	34.084	0.000	28.861	0.000	0.000	35.792	33.823	110.663	MWD+IFR1+MS
10100.000	90.000	359.612	8152.000	29.303	0.000	34.554	0.000	29.303	0.000	0.000	35.871	34.226	115.853	MWD+IFR1+MS
10200.000	90.000	359.612	8152.000	29.760	0.000	35.039	0.000	29.760	0.000	0.000	35.995	34.600	123.475	MWD+IFR1+MS
10300.000	90.000	359.612	8152.000	30.229	0.000	35.540	0.000	30.229	0.000	0.000	36.193	34.917	133.703	MWD+IFR1+MS
10400.000	90.000	359.612	8152.000	30.712	0.000	36.056	0.000	30.712	0.000	0.000	36.491	35.148	-35.337	MWD+IFR1+MS
10500.000	90.000	359.612	8152.000	31.207	0.000	36.585	0.000	31.207	0.000	0.000	36.883	35.299	-26.342	MWD+IFR1+MS
10600.000	90.000	359.612	8152.000	31.714	0.000	37.128	0.000	31.714	0.000	0.000	37.343	35.397	-20.033	MWD+IFR1+MS
10700.000	90.000	359.612	8152.000	32.232	0.000	37.684	0.000	32.232	0.000	0.000	37.846	35.465	-15.761	MWD+IFR1+MS
10800.000	90.000	359.612	8152.000	32.760	0.000	38.251	0.000	32.760	0.000	0.000	38.379	35.516	-12.804	MWD+IFR1+MS
10900.000	90.000	359.612	8152.000	33.299	0.000	38.831	0.000	33.299	0.000	0.000	38.934	35.556	-10.682	MWD+IFR1+MS
11000.000	90.000	359.612	8152.000	33.847	0.000	39.421	0.000	33.847	0.000	0.000	39.507	35.591	-9.105	MWD+IFR1+MS
11100.000	90.000	359.612	8152.000	34.404	0.000	40.023	0.000	34.404	0.000	0.000	40.095	35.621	-7.894	MWD+IFR1+MS
11200.000	90.000	359.612	8152.000	34.970	0.000	40.634	0.000	34.970	0.000	0.000	40.696	35.650	-6.941	MWD+IFR1+MS
11300.000	90.000	359.612	8152.000	35.545	0.000	41.255	0.000	35.545	0.000	0.000	41.309	35.676	-6.174	MWD+IFR1+MS
11400.000	90.000	359.612	8152.000	36.127	0.000	41.886	0.000	36.127	0.000	0.000	41.932	35.702	-5.545	MWD+IFR1+MS
11500.000	90.000	359.612	8152.000	36.717	0.000	42.525	0.000	36.717	0.000	0.000	42.566	35.726	-5.022	MWD+IFR1+MS
11600.000	90.000	359.612	8152.000	37.314	0.000	43.173	0.000	37.314	0.000	0.000	43.209	35.751	-4.580	MWD+IFR1+MS
11700.000	90.000	359.612	8152.000	37.918	0.000	43.829	0.000	37.918	0.000	0.000	43.861	35.775	-4.202	MWD+IFR1+MS
11800.000	90.000	359.612	8152.000	38.528	0.000	44.492	0.000	38.528	0.000	0.000	44.522	35.799	-3.877	MWD+IFR1+MS
11900.000	90.000	359.612	8152.000	39.145	0.000	45.164	0.000	39.145	0.000	0.000	45.190	35.823	-3.594	MWD+IFR1+MS
12000.000	90.000	359.612	8152.000	39.767	0.000	45.842	0.000	39.767	0.000	0.000	45.866	35.848	-3.345	MWD+IFR1+MS
12100.000	90.000	359.612	8152.000	40.395	0.000	46.527	0.000	40.395	0.000	0.000	46.548	35.872	-3.126	MWD+IFR1+MS
12200.000	90.000	359.612	8152.000	41.029	0.000	47.218	0.000	41.029	0.000	0.000	47.238	35.897	-2.932	MWD+IFR1+MS
12300.000	90.000	359.612	8152.000	41.668	0.000	47.916	0.000	41.668	0.000	0.000	47.934	35.922	-2.758	MWD+IFR1+MS
12400.000	90.000	359.612	8152.000	42.311	0.000	48.620	0.000	42.311	0.000	0.000	48.636	35.947	-2.602	MWD+IFR1+MS
12500.000	90.000	359.612	8152.000	42.960	0.000	49.329	0.000	42.960	0.000	0.000	49.344	35.972	-2.461	MWD+IFR1+MS

12600.000	90.000	359.612	8152.000	43.613	0.000	50.044	0.000	43.613	0.000	0.000	50.058	35.998	-2.333	MWD+IFR1+MS
12700.000	90.000	359.612	8152.000	44.270	0.000	50.764	0.000	44.270	0.000	0.000	50.777	36.025	-2.218	MWD+IFR1+MS
12800.000	90.000	359.612	8152.000	44.931	0.000	51.489	0.000	44.931	0.000	0.000	51.501	36.051	-2.112	MWD+IFR1+MS
12900.000	90.000	359.612	8152.000	45.596	0.000	52.218	0.000	45.596	0.000	0.000	52.229	36.078	-2.015	MWD+IFR1+MS
13000.000	90.000	359.612	8152.000	46.265	0.000	52.953	0.000	46.265	0.000	0.000	52.963	36.106	-1.927	MWD+IFR1+MS
13100.000	90.000	359.612	8152.000	46.937	0.000	53.691	0.000	46.937	0.000	0.000	53.701	36.134	-1.845	MWD+IFR1+MS
13200.000	90.000	359.612	8152.000	47.613	0.000	54.434	0.000	47.613	0.000	0.000	54.443	36.162	-1.769	MWD+IFR1+MS
13300.000	90.000	359.612	8152.000	48.292	0.000	55.181	0.000	48.292	0.000	0.000	55.190	36.191	-1.700	MWD+IFR1+MS
13400.000	90.000	359.612	8152.000	48.975	0.000	55.932	0.000	48.975	0.000	0.000	55.940	36.220	-1.635	MWD+IFR1+MS
13500.000	90.000	359.612	8152.000	49.660	0.000	56.687	0.000	49.660	0.000	0.000	56.694	36.249	-1.575	MWD+IFR1+MS
13600.000	90.000	359.612	8152.000	50.349	0.000	57.445	0.000	50.349	0.000	0.000	57.452	36.279	-1.519	MWD+IFR1+MS
13700.000	90.000	359.612	8152.000	51.040	0.000	58.207	0.000	51.040	0.000	0.000	58.213	36.310	-1.467	MWD+IFR1+MS
13800.000	90.000	359.612	8152.000	51.733	0.000	58.972	0.000	51.733	0.000	0.000	58.978	36.341	-1.418	MWD+IFR1+MS
13900.000	90.000	359.612	8152.000	52.430	0.000	59.740	0.000	52.430	0.000	0.000	59.745	36.372	-1.373	MWD+IFR1+MS
14000.000	90.000	359.612	8152.000	53.128	0.000	60.511	0.000	53.128	0.000	0.000	60.516	36.404	-1.330	MWD+IFR1+MS
14100.000	90.000	359.612	8152.000	53.830	0.000	61.285	0.000	53.830	0.000	0.000	61.290	36.436	-1.290	MWD+IFR1+MS
14200.000	90.000	359.612	8152.000	54.533	0.000	62.062	0.000	54.533	0.000	0.000	62.067	36.469	-1.252	MWD+IFR1+MS
14300.000	90.000	359.612	8152.000	55.239	0.000	62.842	0.000	55.239	0.000	0.000	62.846	36.502	-1.217	MWD+IFR1+MS
14400.000	90.000	359.612	8152.000	55.946	0.000	63.624	0.000	55.946	0.000	0.000	63.628	36.536	-1.183	MWD+IFR1+MS
14500.000	90.000	359.612	8152.000	56.656	0.000	64.409	0.000	56.656	0.000	0.000	64.413	36.570	-1.152	MWD+IFR1+MS
14600.000	90.000	359.612	8152.000	57.368	0.000	65.197	0.000	57.368	0.000	0.000	65.200	36.604	-1.122	MWD+IFR1+MS
14700.000	90.000	359.612	8152.000	58.081	0.000	65.986	0.000	58.081	0.000	0.000	65.990	36.639	-1.094	MWD+IFR1+MS
14800.000	90.000	359.612	8152.000	58.797	0.000	66.778	0.000	58.797	0.000	0.000	66.782	36.675	-1.067	MWD+IFR1+MS
14900.000	90.000	359.612	8152.000	59.514	0.000	67.572	0.000	59.514	0.000	0.000	67.576	36.711	-1.042	MWD+IFR1+MS
15000.000	90.000	359.612	8152.000	60.233	0.000	68.369	0.000	60.233	0.000	0.000	68.372	36.747	-1.018	MWD+IFR1+MS
15100.000	90.000	359.612	8152.000	60.953	0.000	69.167	0.000	60.953	0.000	0.000	69.170	36.784	-0.995	MWD+IFR1+MS
15200.000	90.000	359.612	8152.000	61.675	0.000	69.967	0.000	61.675	0.000	0.000	69.970	36.821	-0.973	MWD+IFR1+MS
15300.000	90.000	359.612	8152.000	62.399	0.000	70.770	0.000	62.399	0.000	0.000	70.772	36.859	-0.953	MWD+IFR1+MS
15400.000	90.000	359.612	8152.000	63.124	0.000	71.574	0.000	63.124	0.000	0.000	71.576	36.897	-0.933	MWD+IFR1+MS
15500.000	90.000	359.612	8152.000	63.850	0.000	72.379	0.000	63.850	0.000	0.000	72.382	36.936	-0.914	MWD+IFR1+MS
15600.000	90.000	359.612	8152.000	64.578	0.000	73.187	0.000	64.578	0.000	0.000	73.189	36.975	-0.897	MWD+IFR1+MS
15700.000	90.000	359.612	8152.000	65.307	0.000	73.996	0.000	65.307	0.000	0.000	73.998	37.014	-0.880	MWD+IFR1+MS
15800.000	90.000	359.612	8152.000	66.038	0.000	74.807	0.000	66.038	0.000	0.000	74.809	37.054	-0.863	MWD+IFR1+MS

15900.000	90.000	359.612	8152.000	66.769	0.000	75.619	0.000	66.769	0.000	0.000	75.621	37.095	-0.848	MWD+IFR1+MS
16000.000	90.000	359.612	8152.000	67.502	0.000	76.433	0.000	67.502	0.000	0.000	76.435	37.135	-0.833	MWD+IFR1+MS
16091.184	90.000	359.612	8152.000	68.171	0.000	77.176	0.000	68.171	0.000	0.000	77.178	37.173	-0.820	MWD+IFR1+MS
16100.000	90.000	359.612	8152.000	68.235	0.000	77.248	0.000	68.235	0.000	0.000	77.249	37.177	-0.819	MWD+IFR1+MS
16141.183	90.000	359.612	8152.000	68.537	0.000	77.582	0.000	68.537	0.000	0.000	77.584	37.194	-0.813	MWD+IFR1+MS

Plan Targets Remuda North 25 ST 501H

Target Name	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape
FTP 1	8567.89	464608.60	620404.00	5054.00	CIRCLE
LTP 1	16091.18	472131.70	620353.10	5054.00	CIRCLE
BHL 1	16141.34	472181.70	620352.60	5054.00	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 H_2S, 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 H_2S 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
  - Detection of H_2S, and
  - Measures for protection against the gas,
  - 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 (SO_2). 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 H_2S and SO_2

Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H_2S	1.189 Air = I	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO_2	2.21 Air = I	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

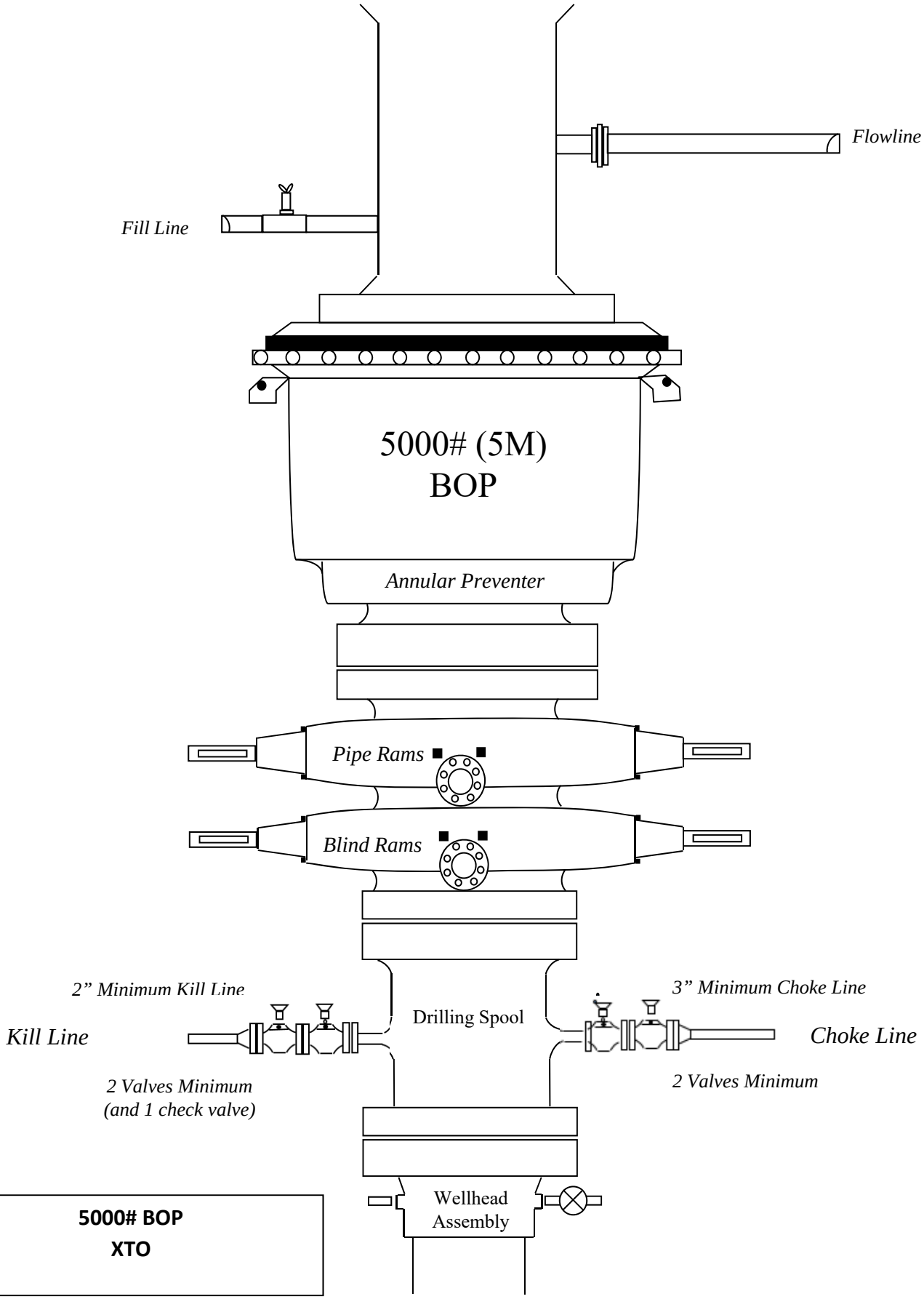
AGENT NOTIFICATIONS:

For Lea County:

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

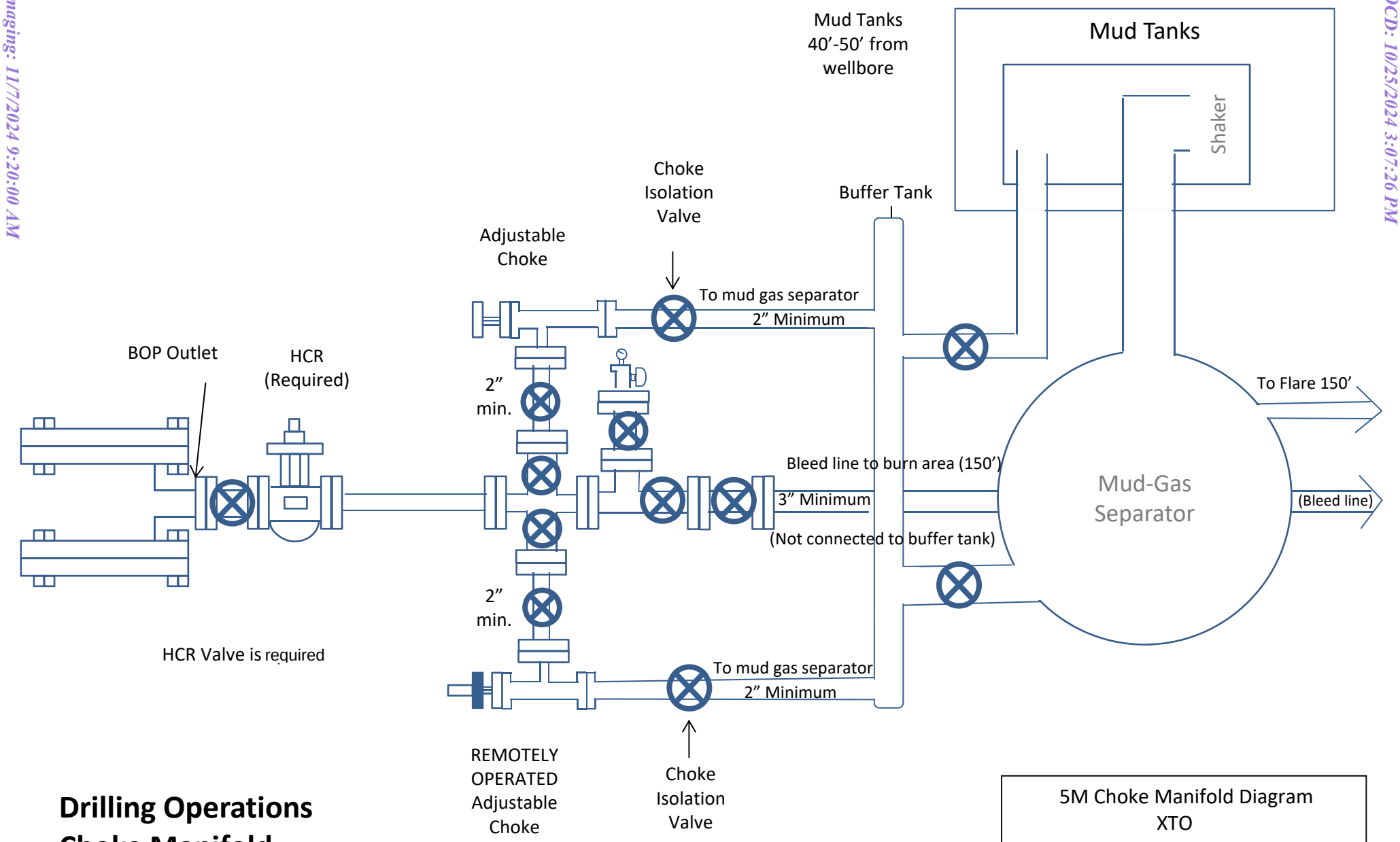
For Eddy County:

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


Flowline
Fill Line
5000# (5M)
BOP
Annular Preventer
Pipe Rams
Blind Rams
2" Minimum Kill Line
3" Minimum Choke Line
Kill Line
Drilling Spool
Choke Line
2 Valves Minimum
(and 1 check valve)
2 Valves Minimum
Wellhead
Assembly

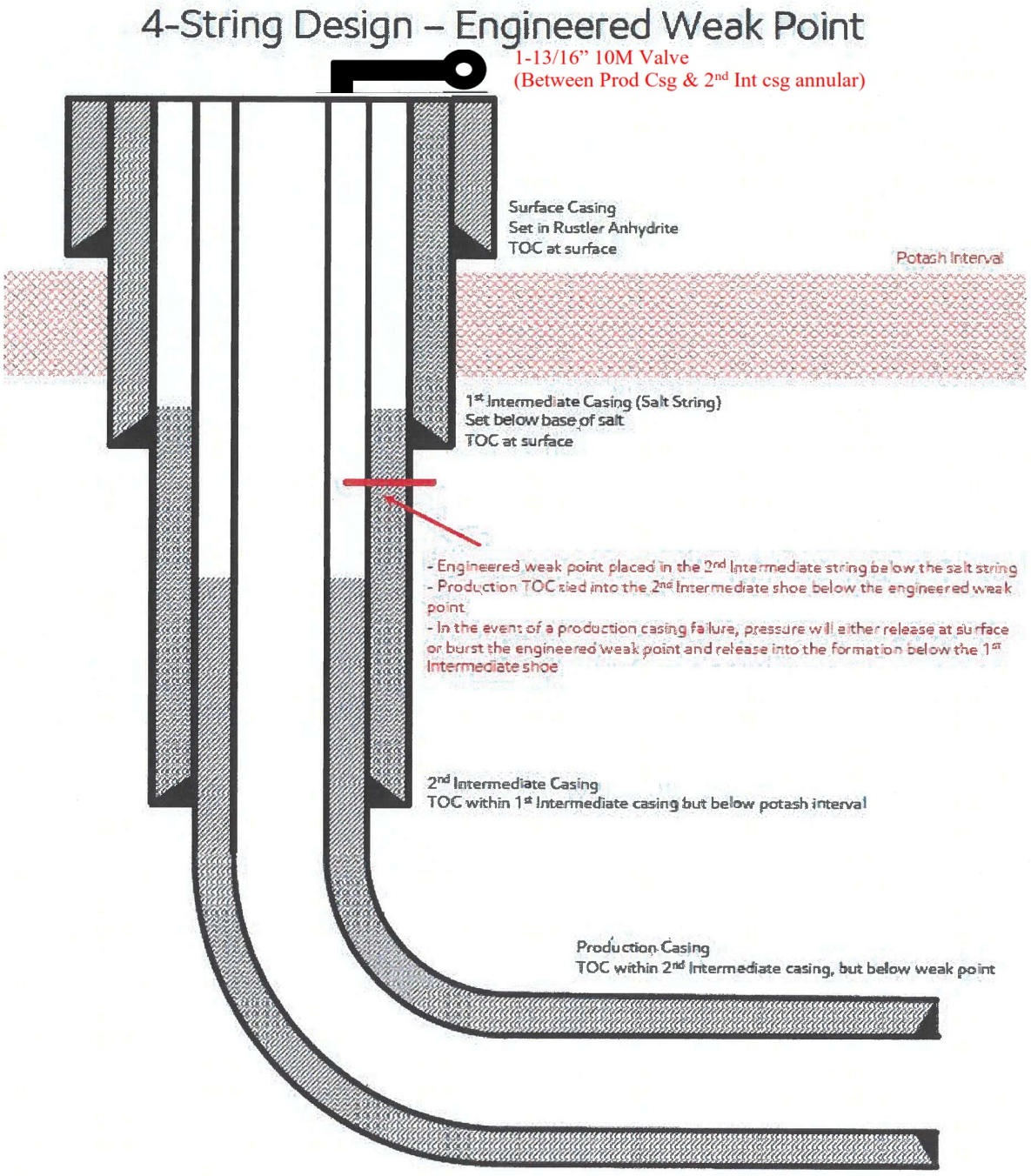
5000# BOP
XTO

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



Drilling Operations
Choke Manifold
5M Service

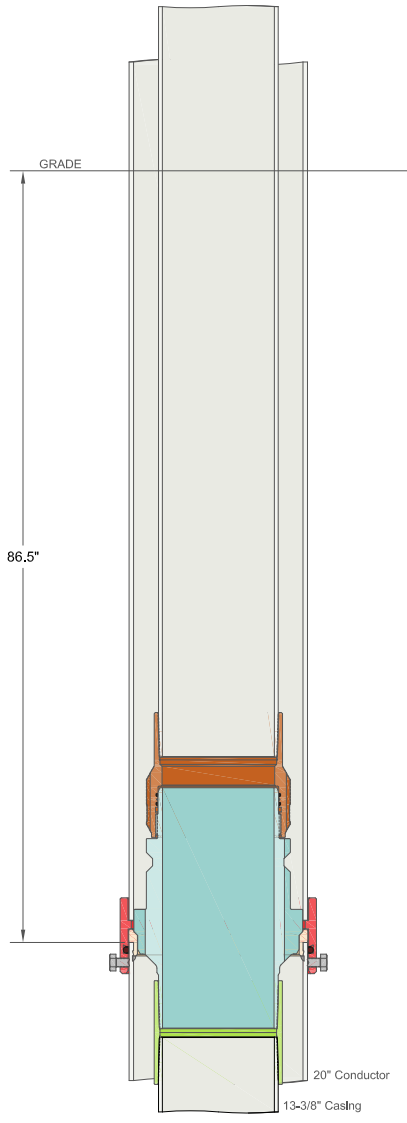
5M Choke Manifold Diagram
XTO

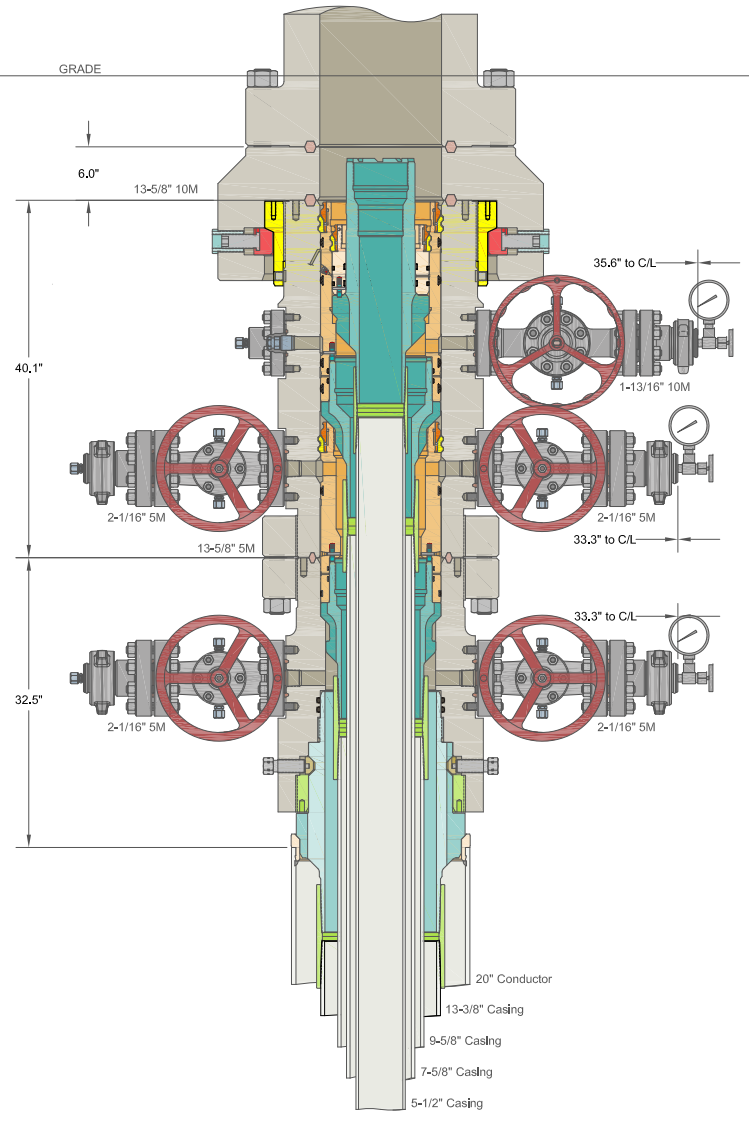


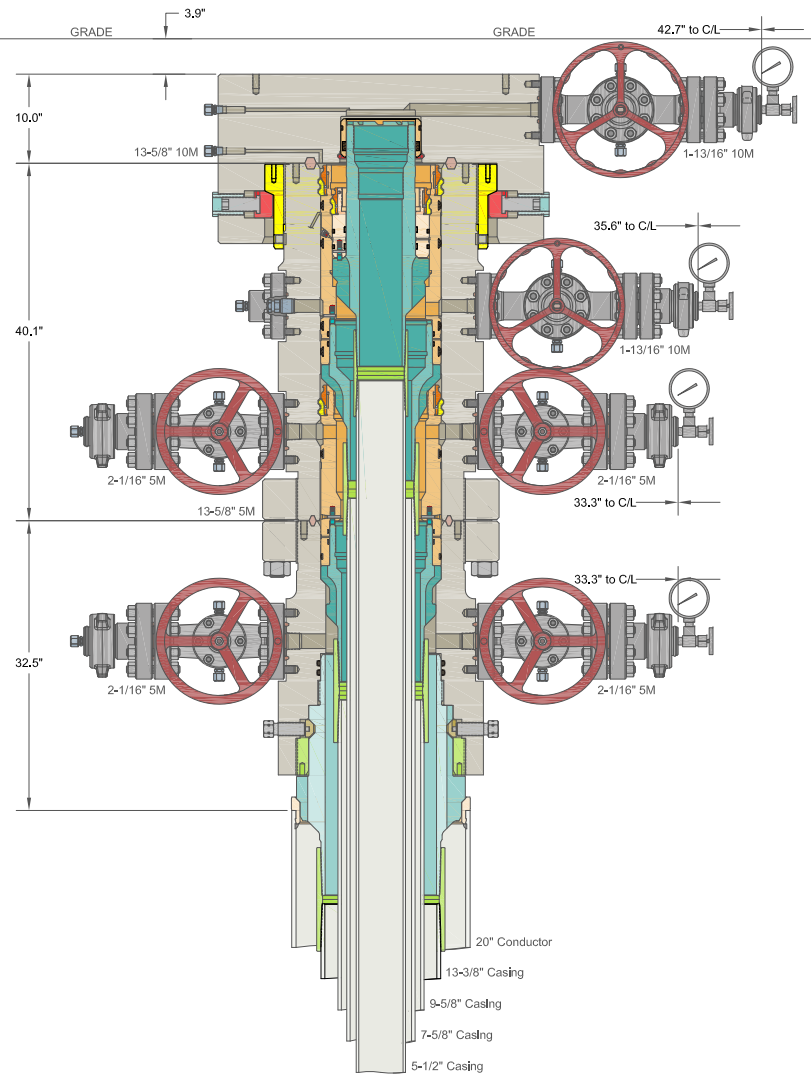
[Figure F] 4 String – 2nd Intermediate casing engineered weak point

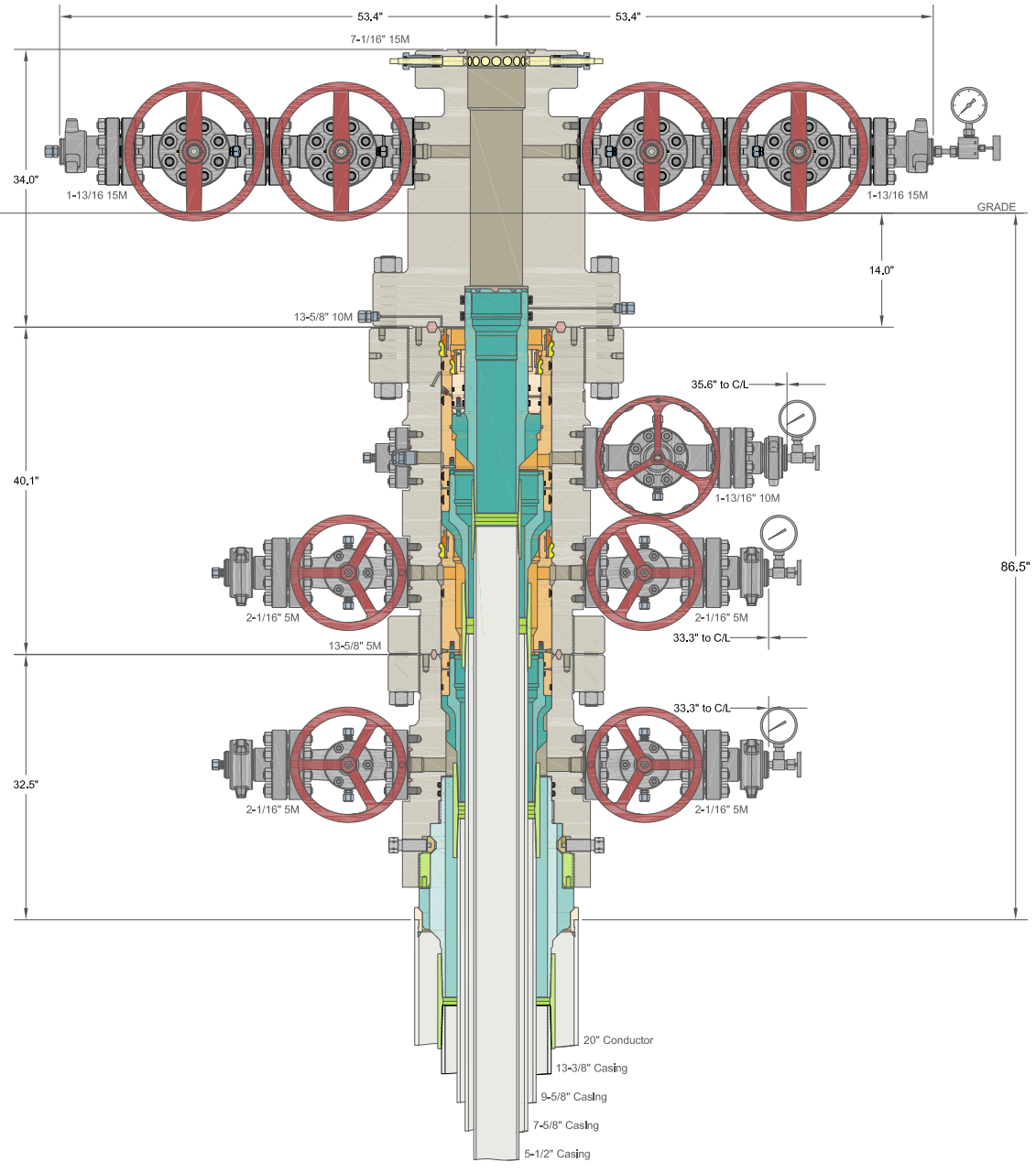
31592723_v1

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 180days 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









ALL DIMENSIONS APPROXIMATE

CACTUS WELLHEAD LLC

(20") x 13-3/8" x 9-5/8" x 7-5/8" x 5-1/2" MBU-4T-CFL-R-DBLO
With 13-5/8" 10M x 7-1/16" 15M CTH-DBLHPS-SB Tubing Head
And Drilling & Skid Configurations

XTO ENERGY INC
DELAWARE BASIN

DRAWN	VJK	31MAR22
APPRV		

DRAWING NO. SDT-3301

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 ga thering 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.

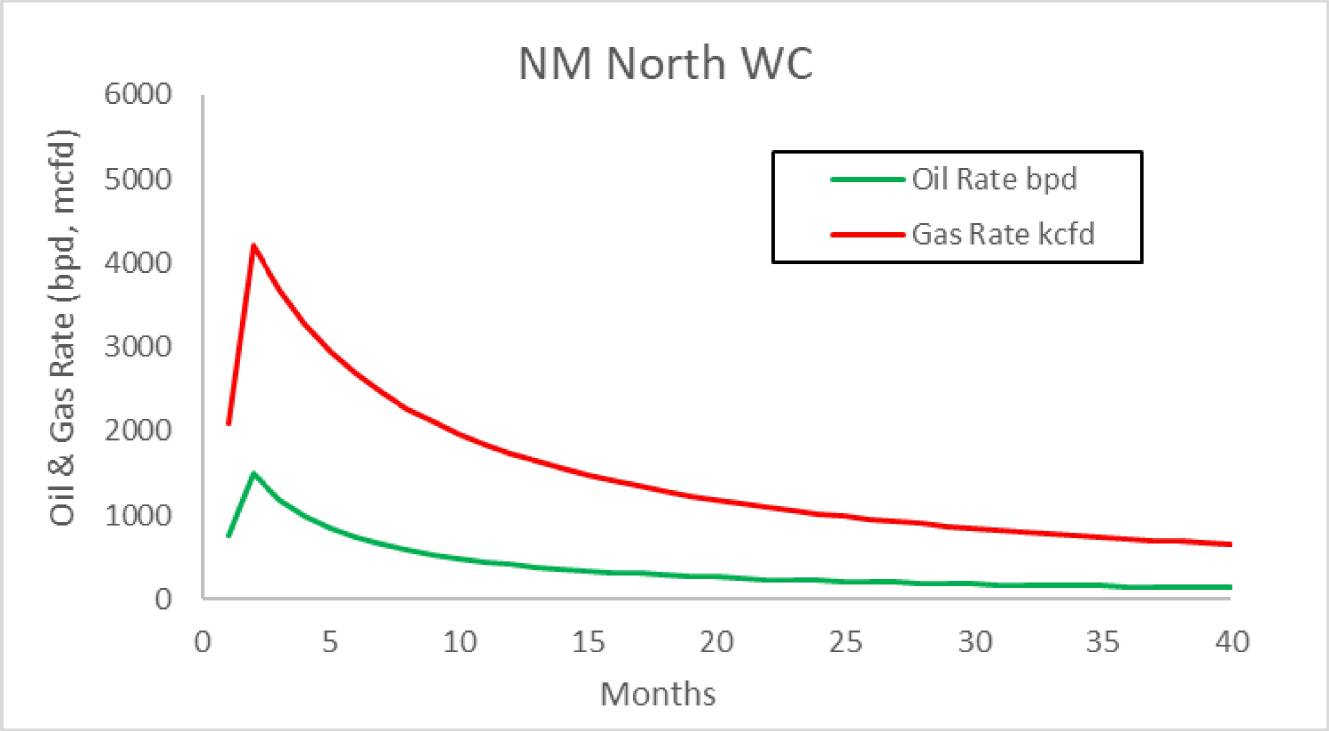
2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural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

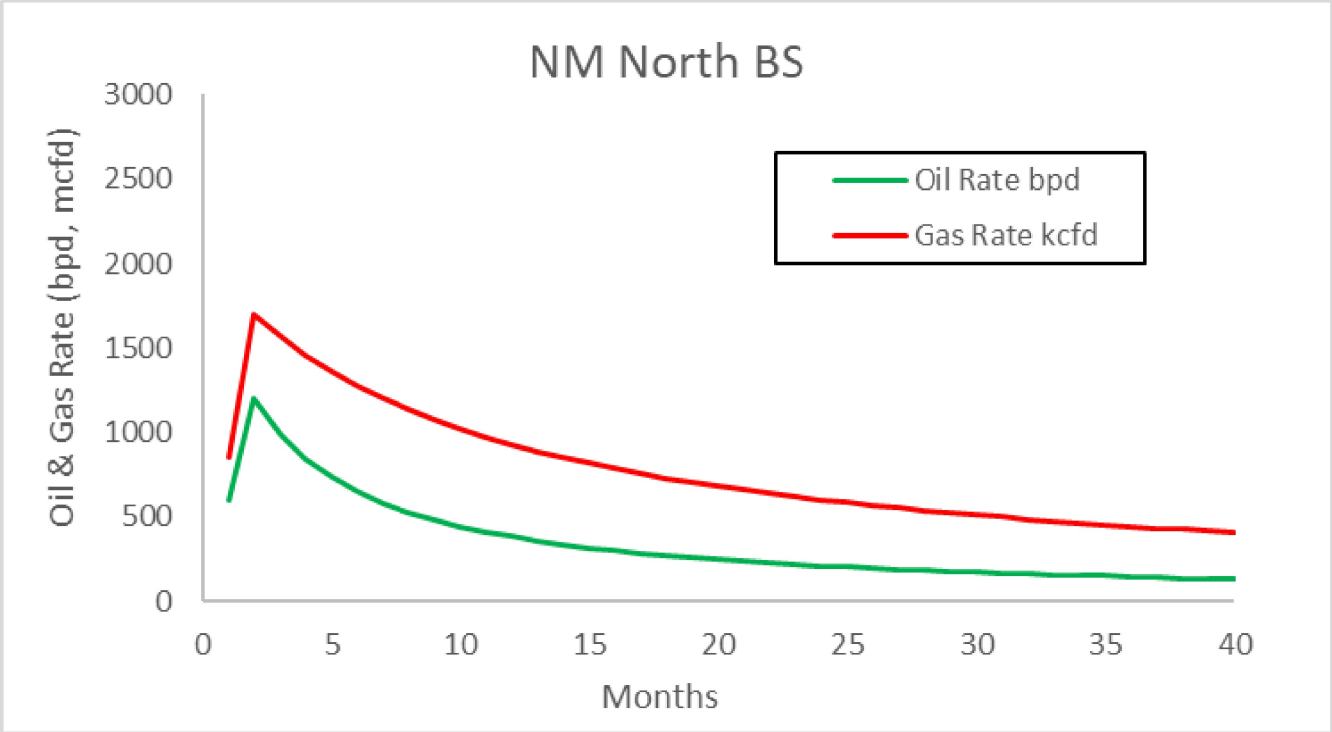
I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

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:	


NM North WC
Oil & Gas Rate (bpd, mcfd)
6000
5000
4000
3000
2000
1000
0
0
5
10
15
20
25
30
35
40
Months
Oil Rate bpd
Gas Rate kcfd


NM North BS
Oil & Gas Rate (bpd, mcfd)
3000
2500
2000
1500
1000
500
0
0
5
10
15
20
25
30
35
40
Months
Oil Rate bpd
Gas Rate kcfd

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 LLCwill turn operations to onsite separation vessels and flow to the gathering pipeline.

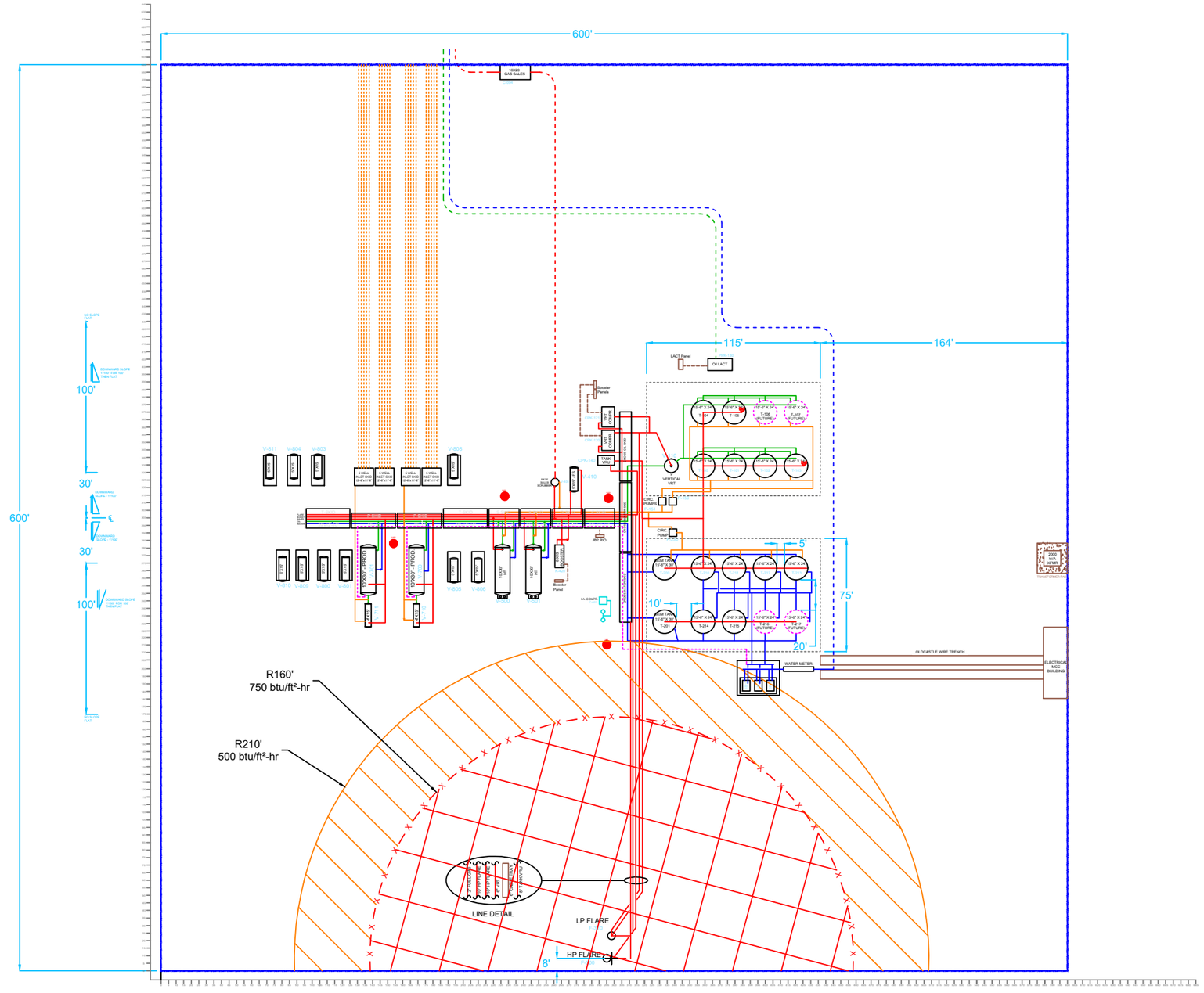
- During production operations, XTO Permian Operating LLC will take every practical effort to minimize waste of natural gas through venting and flaring by:

  - 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

XTO ENERGY

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 501H

Measured Depth:	16141.18 ft	**Site:**	A
TVD RKB:	8152.00 ft	**Slot:**	Remuda North 25 ST 501H
Location			
Cartographic Reference System:	New Mexico East - NAD 27		
Northing:	463981.30 ft		
Easting:	620249.00 ft		
RKB:	3098.00 ft		
Ground Level:	472181.70 ft		
North Reference:	Grid		
Convergence Angle:	0.21 Deg		

Plan Sections Remuda North 25 ST 501H

Measured Depth (ft)	Inclination (Deg)	Azimuth (Deg)	TVD RKB (ft)	Y Offset (ft)	X Offset (ft)	Build Rate (Deg/100ft)	Turn Rate (Deg/100ft)	Dogleg Rate (Deg/100ft)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3100.00	0.00	0.00	3100.00	0.00	0.00	0.00	0.00	0.00	
3330.37	4.61	119.08	3330.12	-4.50	8.09	2.00	0.00	2.00	
5376.74	4.61	119.08	5369.88	-84.38	151.75	0.00	0.00	0.00	
5607.11	0.00	0.00	5600.00	-88.88	159.85	-2.00	0.00	2.00	
7442.91	0.00	0.00	7435.80	-88.88	159.85	0.00	0.00	0.00	
8567.91	90.00	359.61	8152.00	627.30	155.00	8.00	0.00	8.00	FTP 1
16091.18	90.00	359.61	8152.00	8150.40	104.10	0.00	0.00	0.00	LTP 1
16141.18	90.00	359.61	8152.00	8200.40	103.76	0.00	0.00	0.00	BHL 1

Position Uncertainty Remuda North 25 ST 501H

Measured	TVD	Highside	Lateral	Vertical	Magnitude	Semi-major	Semi-minor	Semi-minor	Tool

Depth (ft)	Inclination (°)	Azimuth (°)	RKB (ft)	Error (ft)	Bias (ft)	Error (ft)	Bias (ft)	Error (ft)	Bias (ft)	of Bias (ft)	Error (ft)	Error (ft)	Azimuth (°)	Used
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	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	2.628	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	3.077	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	3.226	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	3.629	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	119.076	3199.980	11.459	0.000	12.282	-0.000	4.257	0.000	0.000	12.315	11.428	130.536	MWD+IFR1+MS
3300.000	4.000	119.076	3299.838	11.997	0.000	12.607	-0.000	4.353	0.000	0.000	12.625	12.001	129.082	MWD+IFR1+MS
3330.369	4.607	119.076	3330.121	12.095	0.000	12.702	-0.000	4.380	0.000	0.000	12.719	12.109	128.910	MWD+IFR1+MS
3400.000	4.607	119.076	3399.527	12.327	0.000	12.922	-0.000	4.448	0.000	0.000	12.938	12.342	128.412	MWD+IFR1+MS
3500.000	4.607	119.076	3499.204	12.662	0.000	13.248	-0.000	4.547	0.000	0.000	13.259	12.681	127.080	MWD+IFR1+MS
3600.000	4.607	119.076	3598.881	13.003	0.000	13.580	-0.000	4.647	0.000	0.000	13.587	13.025	125.371	MWD+IFR1+MS
3700.000	4.607	119.076	3698.557	13.345	0.000	13.913	-0.000	4.750	0.000	0.000	13.917	13.369	123.663	MWD+IFR1+MS
3800.000	4.607	119.076	3798.234	13.687	0.000	14.248	-0.000	4.854	0.000	0.000	14.250	13.713	121.969	MWD+IFR1+MS
3900.000	4.607	119.076	3897.911	14.031	0.000	14.585	-0.000	4.959	0.000	0.000	14.585	14.057	120.305	MWD+IFR1+MS
4000.000	4.607	119.076	3997.588	14.376	0.000	14.923	-0.000	5.067	0.000	0.000	14.923	14.401	118.681	MWD+IFR1+MS
4100.000	4.607	119.076	4097.265	14.722	0.000	15.262	-0.000	5.176	0.000	0.000	15.263	14.745	117.108	MWD+IFR1+MS
4200.000	4.607	119.076	4196.942	15.069	0.000	15.602	-0.000	5.286	0.000	0.000	15.604	15.090	115.596	MWD+IFR1+MS
4300.000	4.607	119.076	4296.618	15.416	0.000	15.944	-0.000	5.399	0.000	0.000	15.947	15.434	114.151	MWD+IFR1+MS
4400.000	4.607	119.076	4396.295	15.764	0.000	16.286	-0.000	5.513	0.000	0.000	16.292	15.778	112.777	MWD+IFR1+MS
4500.000	4.607	119.076	4495.972	16.112	0.000	16.630	-0.000	5.630	0.000	0.000	16.639	16.123	111.476	MWD+IFR1+MS
4600.000	4.607	119.076	4595.649	16.462	0.000	16.974	-0.000	5.748	0.000	0.000	16.986	16.468	110.251	MWD+IFR1+MS
4700.000	4.607	119.076	4695.326	16.812	0.000	17.320	-0.000	5.868	0.000	0.000	17.335	16.813	109.099	MWD+IFR1+MS
4800.000	4.607	119.076	4795.003	17.162	0.000	17.666	-0.000	5.990	0.000	0.000	17.685	17.159	108.020	MWD+IFR1+MS
4900.000	4.607	119.076	4894.680	17.513	0.000	18.013	-0.000	6.114	0.000	0.000	18.036	17.505	107.012	MWD+IFR1+MS
5000.000	4.607	119.076	4994.356	17.864	0.000	18.361	-0.000	6.239	0.000	0.000	18.387	17.851	106.070	MWD+IFR1+MS
5100.000	4.607	119.076	5094.033	18.216	0.000	18.709	-0.000	6.367	0.000	0.000	18.740	18.198	105.193	MWD+IFR1+MS
5200.000	4.607	119.076	5193.710	18.569	0.000	19.058	-0.000	6.497	0.000	0.000	19.093	18.545	104.376	MWD+IFR1+MS
5300.000	4.607	119.076	5293.387	18.921	0.000	19.408	-0.000	6.629	0.000	0.000	19.447	18.893	103.616	MWD+IFR1+MS
5376.740	4.607	119.076	5369.879	19.189	0.000	19.674	-0.000	6.732	0.000	0.000	19.714	19.158	103.318	MWD+IFR1+MS
5400.000	4.142	119.076	5393.071	19.276	0.000	19.753	-0.000	6.763	0.000	0.000	19.793	19.238	103.320	MWD+IFR1+MS
5500.000	2.142	119.076	5492.916	19.684	0.000	20.096	-0.000	6.900	0.000	0.000	20.148	19.622	100.789	MWD+IFR1+MS
5607.109	0.000	0.000	5600.000	20.498	0.000	20.050	0.000	7.047	0.000	0.000	20.523	20.024	103.059	MWD+IFR1+MS
5700.000	0.000	0.000	5692.891	20.863	0.000	20.376	0.000	7.176	0.000	0.000	20.894	20.344	103.818	MWD+IFR1+MS
5800.000	0.000	0.000	5792.891	21.211	0.000	20.728	0.000	7.316	0.000	0.000	21.245	20.693	104.450	MWD+IFR1+MS
5900.000	0.000	0.000	5892.891	21.561	0.000	21.081	0.000	7.458	0.000	0.000	21.598	21.043	105.108	MWD+IFR1+MS
6000.000	0.000	0.000	5992.891	21.911	0.000	21.434	0.000	7.603	0.000	0.000	21.951	21.392	105.736	MWD+IFR1+MS
6100.000	0.000	0.000	6092.891	22.261	0.000	21.787	0.000	7.750	0.000	0.000	22.305	21.742	106.336	MWD+IFR1+MS

6200.000	0.000	0.000	6192.891	22.611	0.000	22.140	0.000	7.900	0.000	0.000	22.659	22.091	106.910	MWD+IFR1+MS
6300.000	0.000	0.000	6292.891	22.962	0.000	22.493	0.000	8.052	0.000	0.000	23.013	22.441	107.457	MWD+IFR1+MS
6400.000	0.000	0.000	6392.891	23.313	0.000	22.847	0.000	8.206	0.000	0.000	23.367	22.791	107.981	MWD+IFR1+MS
6500.000	0.000	0.000	6492.891	23.664	0.000	23.201	0.000	8.363	0.000	0.000	23.721	23.142	108.481	MWD+IFR1+MS
6600.000	0.000	0.000	6592.891	24.015	0.000	23.554	0.000	8.522	0.000	0.000	24.076	23.492	108.959	MWD+IFR1+MS
6700.000	0.000	0.000	6692.891	24.367	0.000	23.908	0.000	8.683	0.000	0.000	24.431	23.843	109.417	MWD+IFR1+MS
6800.000	0.000	0.000	6792.891	24.718	0.000	24.263	0.000	8.848	0.000	0.000	24.786	24.194	109.856	MWD+IFR1+MS
6900.000	0.000	0.000	6892.891	25.070	0.000	24.617	0.000	9.014	0.000	0.000	25.141	24.544	110.275	MWD+IFR1+MS
7000.000	0.000	0.000	6992.891	25.422	0.000	24.971	0.000	9.184	0.000	0.000	25.496	24.895	110.677	MWD+IFR1+MS
7100.000	0.000	0.000	7092.891	25.775	0.000	25.326	0.000	9.355	0.000	0.000	25.852	25.247	111.063	MWD+IFR1+MS
7200.000	0.000	0.000	7192.891	26.127	0.000	25.680	0.000	9.530	0.000	0.000	26.207	25.598	111.433	MWD+IFR1+MS
7300.000	0.000	0.000	7292.891	26.480	0.000	26.035	0.000	9.707	0.000	0.000	26.563	25.950	111.788	MWD+IFR1+MS
7400.000	0.000	0.000	7392.891	26.832	0.000	26.390	0.000	9.887	0.000	0.000	26.919	26.301	112.128	MWD+IFR1+MS
7442.912	0.000	0.000	7435.803	26.981	0.000	26.540	0.000	9.964	0.000	0.000	27.068	26.451	112.121	MWD+IFR1+MS
7500.000	4.567	359.612	7492.830	27.126	0.000	26.741	0.000	10.068	0.000	0.000	27.308	26.653	110.950	MWD+IFR1+MS
7600.000	12.567	359.612	7591.634	27.908	0.000	27.083	0.000	10.316	0.000	0.000	28.537	27.028	100.455	MWD+IFR1+MS
7700.000	20.567	359.612	7687.405	28.787	0.000	27.415	0.000	10.808	0.000	0.000	30.191	27.364	97.118	MWD+IFR1+MS
7800.000	28.567	359.612	7778.279	29.185	0.000	27.729	0.000	11.614	0.000	0.000	31.619	27.675	96.147	MWD+IFR1+MS
7900.000	36.567	359.612	7862.487	29.154	0.000	28.025	0.000	12.763	0.000	0.000	32.808	27.964	95.790	MWD+IFR1+MS
8000.000	44.567	359.612	7938.389	28.760	0.000	28.301	0.000	14.226	0.000	0.000	33.754	28.233	95.699	MWD+IFR1+MS
8100.000	52.567	359.612	8004.510	28.091	0.000	28.558	0.000	15.939	0.000	0.000	34.468	28.482	95.756	MWD+IFR1+MS
8200.000	60.567	359.612	8059.561	27.257	0.000	28.795	0.000	17.825	0.000	0.000	34.967	28.712	95.910	MWD+IFR1+MS
8300.000	68.567	359.612	8102.472	26.390	0.000	29.013	0.000	19.808	0.000	0.000	35.280	28.923	96.126	MWD+IFR1+MS
8400.000	76.567	359.612	8132.407	25.644	0.000	29.213	0.000	21.819	0.000	0.000	35.445	29.116	96.371	MWD+IFR1+MS
8500.000	84.567	359.612	8148.783	25.176	0.000	29.394	0.000	23.796	0.000	0.000	35.506	29.292	96.599	MWD+IFR1+MS
8567.912	90.000	359.612	8152.000	24.473	0.000	29.501	0.000	24.473	0.000	0.000	35.516	29.399	96.699	MWD+IFR1+MS
8600.000	90.000	359.612	8152.000	24.544	0.000	29.549	0.000	24.544	0.000	0.000	35.518	29.447	96.739	MWD+IFR1+MS
8700.000	90.000	359.612	8152.000	24.712	0.000	29.724	0.000	24.712	0.000	0.000	35.524	29.620	96.896	MWD+IFR1+MS
8800.000	90.000	359.612	8152.000	24.907	0.000	29.927	0.000	24.907	0.000	0.000	35.531	29.821	97.095	MWD+IFR1+MS
8900.000	90.000	359.612	8152.000	25.126	0.000	30.154	0.000	25.126	0.000	0.000	35.539	30.046	97.338	MWD+IFR1+MS
9000.000	90.000	359.612	8152.000	25.367	0.000	30.405	0.000	25.367	0.000	0.000	35.549	30.294	97.633	MWD+IFR1+MS
9100.000	90.000	359.612	8152.000	25.630	0.000	30.679	0.000	25.630	0.000	0.000	35.559	30.564	97.992	MWD+IFR1+MS
9200.000	90.000	359.612	8152.000	25.914	0.000	30.976	0.000	25.914	0.000	0.000	35.571	30.857	98.429	MWD+IFR1+MS

9300.000	90.000	359.612	8152.000	26.218	0.000	31.294	0.000	26.218	0.000	0.000	35.585	31.170	98.962	MWD+IFR1+MS
9400.000	90.000	359.612	8152.000	26.542	0.000	31.634	0.000	26.542	0.000	0.000	35.600	31.503	99.621	MWD+IFR1+MS
9500.000	90.000	359.612	8152.000	26.885	0.000	31.995	0.000	26.885	0.000	0.000	35.618	31.855	100.443	MWD+IFR1+MS
9600.000	90.000	359.612	8152.000	27.247	0.000	32.376	0.000	27.247	0.000	0.000	35.640	32.224	101.488	MWD+IFR1+MS
9700.000	90.000	359.612	8152.000	27.626	0.000	32.776	0.000	27.626	0.000	0.000	35.665	32.608	102.843	MWD+IFR1+MS
9800.000	90.000	359.612	8152.000	28.022	0.000	33.194	0.000	28.022	0.000	0.000	35.696	33.006	104.648	MWD+IFR1+MS
9900.000	90.000	359.612	8152.000	28.434	0.000	33.630	0.000	28.434	0.000	0.000	35.737	33.413	107.130	MWD+IFR1+MS
10000.000	90.000	359.612	8152.000	28.861	0.000	34.084	0.000	28.861	0.000	0.000	35.792	33.823	110.663	MWD+IFR1+MS
10100.000	90.000	359.612	8152.000	29.303	0.000	34.554	0.000	29.303	0.000	0.000	35.871	34.226	115.853	MWD+IFR1+MS
10200.000	90.000	359.612	8152.000	29.760	0.000	35.039	0.000	29.760	0.000	0.000	35.995	34.600	123.475	MWD+IFR1+MS
10300.000	90.000	359.612	8152.000	30.229	0.000	35.540	0.000	30.229	0.000	0.000	36.193	34.917	133.703	MWD+IFR1+MS
10400.000	90.000	359.612	8152.000	30.712	0.000	36.056	0.000	30.712	0.000	0.000	36.491	35.148	-35.337	MWD+IFR1+MS
10500.000	90.000	359.612	8152.000	31.207	0.000	36.585	0.000	31.207	0.000	0.000	36.883	35.299	-26.342	MWD+IFR1+MS
10600.000	90.000	359.612	8152.000	31.714	0.000	37.128	0.000	31.714	0.000	0.000	37.343	35.397	-20.033	MWD+IFR1+MS
10700.000	90.000	359.612	8152.000	32.232	0.000	37.684	0.000	32.232	0.000	0.000	37.846	35.465	-15.761	MWD+IFR1+MS
10800.000	90.000	359.612	8152.000	32.760	0.000	38.251	0.000	32.760	0.000	0.000	38.379	35.516	-12.804	MWD+IFR1+MS
10900.000	90.000	359.612	8152.000	33.299	0.000	38.831	0.000	33.299	0.000	0.000	38.934	35.556	-10.682	MWD+IFR1+MS
11000.000	90.000	359.612	8152.000	33.847	0.000	39.421	0.000	33.847	0.000	0.000	39.507	35.591	-9.105	MWD+IFR1+MS
11100.000	90.000	359.612	8152.000	34.404	0.000	40.023	0.000	34.404	0.000	0.000	40.095	35.621	-7.894	MWD+IFR1+MS
11200.000	90.000	359.612	8152.000	34.970	0.000	40.634	0.000	34.970	0.000	0.000	40.696	35.650	-6.941	MWD+IFR1+MS
11300.000	90.000	359.612	8152.000	35.545	0.000	41.255	0.000	35.545	0.000	0.000	41.309	35.676	-6.174	MWD+IFR1+MS
11400.000	90.000	359.612	8152.000	36.127	0.000	41.886	0.000	36.127	0.000	0.000	41.932	35.702	-5.545	MWD+IFR1+MS
11500.000	90.000	359.612	8152.000	36.717	0.000	42.525	0.000	36.717	0.000	0.000	42.566	35.726	-5.022	MWD+IFR1+MS
11600.000	90.000	359.612	8152.000	37.314	0.000	43.173	0.000	37.314	0.000	0.000	43.209	35.751	-4.580	MWD+IFR1+MS
11700.000	90.000	359.612	8152.000	37.918	0.000	43.829	0.000	37.918	0.000	0.000	43.861	35.775	-4.202	MWD+IFR1+MS
11800.000	90.000	359.612	8152.000	38.528	0.000	44.492	0.000	38.528	0.000	0.000	44.522	35.799	-3.877	MWD+IFR1+MS
11900.000	90.000	359.612	8152.000	39.145	0.000	45.164	0.000	39.145	0.000	0.000	45.190	35.823	-3.594	MWD+IFR1+MS
12000.000	90.000	359.612	8152.000	39.767	0.000	45.842	0.000	39.767	0.000	0.000	45.866	35.848	-3.345	MWD+IFR1+MS
12100.000	90.000	359.612	8152.000	40.395	0.000	46.527	0.000	40.395	0.000	0.000	46.548	35.872	-3.126	MWD+IFR1+MS
12200.000	90.000	359.612	8152.000	41.029	0.000	47.218	0.000	41.029	0.000	0.000	47.238	35.897	-2.932	MWD+IFR1+MS
12300.000	90.000	359.612	8152.000	41.668	0.000	47.916	0.000	41.668	0.000	0.000	47.934	35.922	-2.758	MWD+IFR1+MS
12400.000	90.000	359.612	8152.000	42.311	0.000	48.620	0.000	42.311	0.000	0.000	48.636	35.947	-2.602	MWD+IFR1+MS
12500.000	90.000	359.612	8152.000	42.960	0.000	49.329	0.000	42.960	0.000	0.000	49.344	35.972	-2.461	MWD+IFR1+MS

12600.000	90.000	359.612	8152.000	43.613	0.000	50.044	0.000	43.613	0.000	0.000	50.058	35.998	-2.333	MWD+IFR1+MS
12700.000	90.000	359.612	8152.000	44.270	0.000	50.764	0.000	44.270	0.000	0.000	50.777	36.025	-2.218	MWD+IFR1+MS
12800.000	90.000	359.612	8152.000	44.931	0.000	51.489	0.000	44.931	0.000	0.000	51.501	36.051	-2.112	MWD+IFR1+MS
12900.000	90.000	359.612	8152.000	45.596	0.000	52.218	0.000	45.596	0.000	0.000	52.229	36.078	-2.015	MWD+IFR1+MS
13000.000	90.000	359.612	8152.000	46.265	0.000	52.953	0.000	46.265	0.000	0.000	52.963	36.106	-1.927	MWD+IFR1+MS
13100.000	90.000	359.612	8152.000	46.937	0.000	53.691	0.000	46.937	0.000	0.000	53.701	36.134	-1.845	MWD+IFR1+MS
13200.000	90.000	359.612	8152.000	47.613	0.000	54.434	0.000	47.613	0.000	0.000	54.443	36.162	-1.769	MWD+IFR1+MS
13300.000	90.000	359.612	8152.000	48.292	0.000	55.181	0.000	48.292	0.000	0.000	55.190	36.191	-1.700	MWD+IFR1+MS
13400.000	90.000	359.612	8152.000	48.975	0.000	55.932	0.000	48.975	0.000	0.000	55.940	36.220	-1.635	MWD+IFR1+MS
13500.000	90.000	359.612	8152.000	49.660	0.000	56.687	0.000	49.660	0.000	0.000	56.694	36.249	-1.575	MWD+IFR1+MS
13600.000	90.000	359.612	8152.000	50.349	0.000	57.445	0.000	50.349	0.000	0.000	57.452	36.279	-1.519	MWD+IFR1+MS
13700.000	90.000	359.612	8152.000	51.040	0.000	58.207	0.000	51.040	0.000	0.000	58.213	36.310	-1.467	MWD+IFR1+MS
13800.000	90.000	359.612	8152.000	51.733	0.000	58.972	0.000	51.733	0.000	0.000	58.978	36.341	-1.418	MWD+IFR1+MS
13900.000	90.000	359.612	8152.000	52.430	0.000	59.740	0.000	52.430	0.000	0.000	59.745	36.372	-1.373	MWD+IFR1+MS
14000.000	90.000	359.612	8152.000	53.128	0.000	60.511	0.000	53.128	0.000	0.000	60.516	36.404	-1.330	MWD+IFR1+MS
14100.000	90.000	359.612	8152.000	53.830	0.000	61.285	0.000	53.830	0.000	0.000	61.290	36.436	-1.290	MWD+IFR1+MS
14200.000	90.000	359.612	8152.000	54.533	0.000	62.062	0.000	54.533	0.000	0.000	62.067	36.469	-1.252	MWD+IFR1+MS
14300.000	90.000	359.612	8152.000	55.239	0.000	62.842	0.000	55.239	0.000	0.000	62.846	36.502	-1.217	MWD+IFR1+MS
14400.000	90.000	359.612	8152.000	55.946	0.000	63.624	0.000	55.946	0.000	0.000	63.628	36.536	-1.183	MWD+IFR1+MS
14500.000	90.000	359.612	8152.000	56.656	0.000	64.409	0.000	56.656	0.000	0.000	64.413	36.570	-1.152	MWD+IFR1+MS
14600.000	90.000	359.612	8152.000	57.368	0.000	65.197	0.000	57.368	0.000	0.000	65.200	36.604	-1.122	MWD+IFR1+MS
14700.000	90.000	359.612	8152.000	58.081	0.000	65.986	0.000	58.081	0.000	0.000	65.990	36.639	-1.094	MWD+IFR1+MS
14800.000	90.000	359.612	8152.000	58.797	0.000	66.778	0.000	58.797	0.000	0.000	66.782	36.675	-1.067	MWD+IFR1+MS
14900.000	90.000	359.612	8152.000	59.514	0.000	67.572	0.000	59.514	0.000	0.000	67.576	36.711	-1.042	MWD+IFR1+MS
15000.000	90.000	359.612	8152.000	60.233	0.000	68.369	0.000	60.233	0.000	0.000	68.372	36.747	-1.018	MWD+IFR1+MS
15100.000	90.000	359.612	8152.000	60.953	0.000	69.167	0.000	60.953	0.000	0.000	69.170	36.784	-0.995	MWD+IFR1+MS
15200.000	90.000	359.612	8152.000	61.675	0.000	69.967	0.000	61.675	0.000	0.000	69.970	36.821	-0.973	MWD+IFR1+MS
15300.000	90.000	359.612	8152.000	62.399	0.000	70.770	0.000	62.399	0.000	0.000	70.772	36.859	-0.953	MWD+IFR1+MS
15400.000	90.000	359.612	8152.000	63.124	0.000	71.574	0.000	63.124	0.000	0.000	71.576	36.897	-0.933	MWD+IFR1+MS
15500.000	90.000	359.612	8152.000	63.850	0.000	72.379	0.000	63.850	0.000	0.000	72.382	36.936	-0.914	MWD+IFR1+MS
15600.000	90.000	359.612	8152.000	64.578	0.000	73.187	0.000	64.578	0.000	0.000	73.189	36.975	-0.897	MWD+IFR1+MS
15700.000	90.000	359.612	8152.000	65.307	0.000	73.996	0.000	65.307	0.000	0.000	73.998	37.014	-0.880	MWD+IFR1+MS
15800.000	90.000	359.612	8152.000	66.038	0.000	74.807	0.000	66.038	0.000	0.000	74.809	37.054	-0.863	MWD+IFR1+MS

15900.000	90.000	359.612	8152.000	66.769	0.000	75.619	0.000	66.769	0.000	0.000	75.621	37.095	-0.848	MWD+IFR1+MS
16000.000	90.000	359.612	8152.000	67.502	0.000	76.433	0.000	67.502	0.000	0.000	76.435	37.135	-0.833	MWD+IFR1+MS
16091.184	90.000	359.612	8152.000	68.171	0.000	77.176	0.000	68.171	0.000	0.000	77.178	37.173	-0.820	MWD+IFR1+MS
16100.000	90.000	359.612	8152.000	68.235	0.000	77.248	0.000	68.235	0.000	0.000	77.249	37.177	-0.819	MWD+IFR1+MS
16141.183	90.000	359.612	8152.000	68.537	0.000	77.582	0.000	68.537	0.000	0.000	77.584	37.194	-0.813	MWD+IFR1+MS

Plan Targets Remuda North 25 ST 501H

Target Name	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape
FTP 1	8567.89	464608.60	620404.00	5054.00	CIRCLE
LTP 1	16091.18	472131.70	620353.10	5054.00	CIRCLE
BHL 1	16141.34	472181.70	620352.60	5054.00	CIRCLE