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

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

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

District IV

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

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

Form C-101 August 1, 2011

Permit 296974

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

Operator Name and Address		2. OGRID Number
XTO ENERGY, INC	5380	
6401 Holiday Hill Road	3. API Number	
Midland, TX 79707		30-015-48541
4. Property Code	5. Property Name	6. Well No.
317788	REMUDA SOUTH 25 STATE	707H

7. Surface Location

UL - Lot		Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
	Н	25	23S	29E	Н	2385	N	690	E	Eddy

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
Р	36	23S	29E	Р	200	S	490	E	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	3096
16. Multiple	17. Proposed Depth	18. Formation	19. Contractor	20. Spud Date
N	16503	Bone Spring		8/24/2021
Depth to Ground water		Distance from nearest fresh water well	Distance to nearest surface water	

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

21. Proposed Casing and Cement Program

	= · · · · · · · · · · · · · · · · · · ·									
Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC				
Surf	17.5	13.375	54.5	319	320	0				
Int1	12.25	9.625	40	3219	1440	0				
Int2	8.75	7.625	29.7	7650	630	0				
Prod	6.75	5	18	16503	810	7150				

Casing/Cement Program: Additional Comments

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

22. Proposed Blowout Prevention Program

Туре	Type Working Pressure		Manufacturer	
Double Ram	3000	3000	Cameron	

knowledge and b	elief.	true and complete to the best of my NMAC ⊠ and/or 19.15.14.9 (B) NMAC		OIL CONSERVATION	ON DIVISION	
Printed Name:				Kurt Simmons		
Title:	Production Analyst		Title:	Petroleum Specialist - A		
Email Address:	tiffany.yancey@exxonmobil.com		Approved Date:	6/21/2021	Expiration Date: 6/21/2023	
Date:	6/12/2021	Phone: 432-215-8939	Conditions of Approval Attached			

District I

District III

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

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

1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico

Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION

1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number		² Pool Code	³ Pool Name		
30-015-		96526	Forty-Niner Ridge; Bone Spring, West		
⁴ Property Code		5 P1	roperty Name	⁶ Well Number	
		707H			
⁷ OGRID No.		⁹ Elevation			
005380		3,096'			

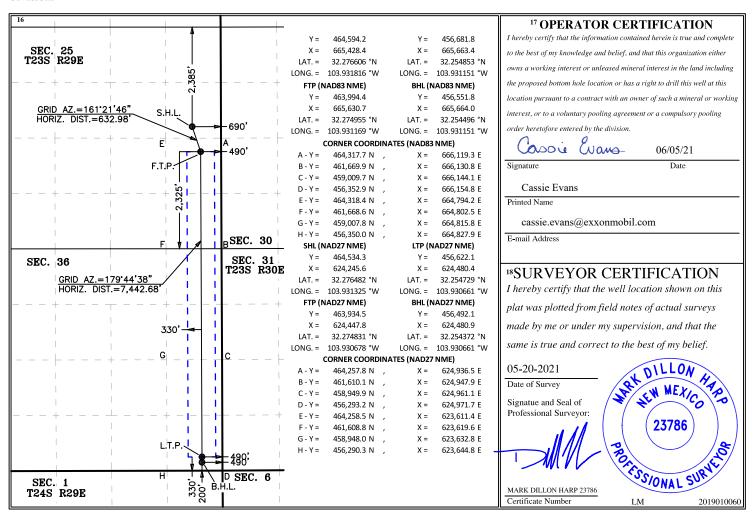
¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Н	25	23 S	29 E		2,385	NORTH	690	EAST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County				
P	36	23 S	29 E		200	SOUTH	490	EAST	EDDY				
12 Dedicated Acres	¹³ Joint o	r Infill 14	Consolidation	Code 15 Or	der No.								
240													

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.



Intent	:	As Dril	ed											
API#														
Opei	rator Nar	ne:				Prop	perty N	ame:						Well Number
Kick C	off Point	(KOP)												
UL	Section	Township	Range	Lot	Feet		From N	I/S	Feet		Fron	n E/W	County	
Latitu	de				Longitu	ıde							NAD	
					1									
First T	ake Poin	t (FTP)												
UL	Section	Township	Range	Lot	Feet		From N	I/S	Feet		Fron	n E/W	County	
Latitu	de				Longitu	ıde	. NAD						NAD	
Lact T	ake Poin	+ /I TD\												
UL	Section	Township	Range	Lot	Feet	Fror	m N/S	Feet		From	E/W	Count	:y	
Latitu	de				Longitu	ıde						NAD		
Is this	well the	defining w	ell for th	ne Hori:	zontal Sp	pacing	g Unit?							
Is this	well an i	infill well?			7									
15 (1115	Well dir.				_									
	l is yes pl ng Unit.	ease provi	de API if	availak	ole, Opei	rator I	Name	and w	vell ni	umbei	r for I	Definir	ng well fo	r Horizontal
API#														
Opei	Operator Name: Property Name:										Well Number			

KZ 06/29/2018

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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 296974

PERMIT COMMENTS

Operator Name and Address:	API Number:
XTO ENERGY, INC [5380]	30-015-48541
6401 Holiday Hill Road	Well:
Midland, TX 79707	REMUDA SOUTH 25 STATE #707H

Created By	Comment	Comment Date
kpickford	This APD has been rejected due to being an incomplete submission. The submission is missing the "Natural Gas Management Plan" which has replaced the	6/10/2021
1	"Gas Capture Plan". See OCD Notice "Waste Rule C129 NGMP Final Forms" dated May 21, 2021 for further details.	

Form APD Conditions

Permit 296974

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

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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**

PERMIT CONDITIONS OF APPROVAL

ſ	Operator Name and Address:	API Number:
	XTO ENERGY, INC [5380]	30-015-48541
	6401 Holiday Hill Road	Well:
	Midland, TX 79707	REMUDA SOUTH 25 STATE #707H

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

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

XTO Energy Inc. Remuda South 25 State 705H Projected TD: 16646' MD / 8971' TVD

SHL: 2385' FNL & 750' FEL , Section 25, T23S, R29E BHL: 200' FSL & 1970' FEL , Section 36, 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	69'	Water
Salado	269'	Water
Top of Salt	550'	Water
Base of Salt	3119'	Water
Delaware	3336'	Water
Brushy Canyon	5778'	Water/Oil/Gas
Bone Spring	7048'	Water
1st Bone Spring Ss	8095'	Water/Oil/Gas
2nd Bone Spring Ss	8936'	Water/Oil/Gas
Target/Land Curve	8976'	Water/Oil/Gas

^{***} Hydrocarbons @ Brushy Canyon

No other formations are expected to yield oil, gas or fresh water in measurable volumes. The surface fresh water sands will be protected by setting 13.375 inch casing @ 319' (50 below the top of the Salado) and circulating cement back to surface. The salt will be isolated by setting 9.625 inch casing at 3219' and circulating cement to surface. The second intermediate will isolate from the salt down to the next casing seat by setting 7.625 inch casing at 7700' and cemented to 200' inside the previous casing string. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 16646 MD/TD and 5.5 x 5 inch production casing will be set at TD and cemented back up to 2nd intermediate (estimated TOC 7200 feet) per Potash regulations.

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
17.5	0' – 319'	13.375	54.5	J-55	втс	New	2.84	8.11	49.06
12.25	0' – 3219'	9.625	40	J-55	втс	New	1.91	2.62	4.89
8.75	0' – 3319'	7.625	29.7	RY P-110	Flush Joint	New	3.51	3.30	2.44
8.75	3319' – 7700'	7.625	29.7	HC L-80	Flush Joint	New	2.55	2.75	3.12
6.75	0' - 7600'	5.5	20	RY P-110	Semi-Premium	New	1.05	2.81	2.71
6.75	7600' - 8800'	5.5	23	RY P-110	Semi-Flush	New	1.21	3.18	7.16
6.75	8800' - 16646'	5	18	RY P-110	Semi-Premium	New	1.16	2.89	10.17

- · XTO requests the option to utilize a spudder rig (Atlas Copco RD20 or Equivalent) to set and cement surface and intermediate 1 casing per this Sundry
- · XTO requests to not utilize centralizers in the curve and lateral
- \cdot 9.625 Collapse analyzed using 50% evacuation based on regional experience.
- · 7.625 Collapse analyzed using 50% evacuation based on regional experience.
- 5.5 Tension calculated using vertical hanging weight plus the lateral weight multiplied by a friction factor of 0.35
- · Test on 2M annular & Casing will be limited to 70% burst of the casing or 1500 psi, whichever is less
- · XTO requests the option to use 5" BTC Float equipment for the the production casing

Wellhead:

Permanent Wellhead - Multibowl System

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

- A. Starting Head: 13-5/8" 10M top flange x 13-3/8" SOW bottom
- B. Tubing Head: 13-5/8" 10M bottom flange x 7-1/16" 15M top flange
 - · Wellhead will be installed by manufacturer's representatives.
 - · Manufacturer will monitor welding process to ensure appropriate temperature of seal.
 - · Operator will test the 7-5/8" casing per BLM Onshore Order 2
 - · Wellhead Manufacturer representative will not be present for BOP test plug installation

4. Cement Program

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

Tail: 320 sxs Class C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)

Top of Cement: Surface

Compressives: 12-hr = 250 psi 24 hr = 500 psi

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

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

Lead: 1310 sxs Class C (mixed at 12.9 ppg, 1.39 ft3/sx, 10.13 gal/sx water)

Tail: 130 sxs Class C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)

Top of Cement: Surface

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

2nd Intermediate Casing: 7.625, 29.7 New casing to be set at +/- 7700'

1st Stage

Optional Lead: 160 sxs Class C (mixed at 10.5 ppg, 2.77 ft3/sx, 15.59 gal/sx water)

TOC: 2719

Tail: 170 sxs Class C (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)

TOC: Brushy Canyon @ 5778

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

2nd Stage

Lead: 0 sxs Class C (mixed at 12.9 ppg, 2.16 ft3/sx, 9.61 gal/sx water) Tail: 300 sxs Class C (mixed at 14.8 ppg, 1.33 ft3/sx, 6.39 gal/sx water)

Top of Cement: 0

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

XTO requests to pump a two stage cement job on the 7-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brush Canyon (5778') and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If cement is not visually confirmed to circulate to surface, the final cement top after the second stage job will be verified by Echo-meter. If necessary, a top out consisting of 1,500 sack of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. If cement is still unable to circulate to surface, another Echo-meter run will be performed for cement top verification.

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

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

XTO requests to pump an Optional Lead if well conditions dictate in an attempt to bring cement inside the first intermediate casing. If cement reaches the desired height, the BLM will be notified and the second stage bradenhead squeeze and subsequent TOC verification will be negated.

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

Production Casing: 5, 18 New Semi-Premium, RY P-110 casing to be set at +/- 16646'

Lead: 50 sxs Class C (mixed at 11.5 ppg, 2.69 ft3/sx, 15.00 gal/sx water) Top of Cement:

Tail: 770 sxs Class C (mixed at 13.2 ppg, 1.51 ft3/sx, 8.38 gal/sx water) Top of Cement:

Compressives: 12-hr = 1375 psi 24 hr = 2285 psi

XTO requests the option to offline cement and remediate (if needed) all casing strings where batch drilling is approved and if unplanned remediation is needed. XTO will ensure well is static with no pressure on the csg

annulus, as with all other casing strings where batch drilling operations occur before moving off the rig. The TA cap will also be installed when applicable per Cactus procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops. Offline cement operations will then be conducted after the rig is moved off the current well to the next well in the batch sequence.

5. Pressure Control Equipment

Once the permanent WH is installed on the 13.375 casing, the blow out preventer equipment (BOP) will consist of a 13-5/8" minimum 3M Hydril and a 13-5/8" minimum 3M Double Ram BOP. MASP should not exceed 2693 psi. In any instance where 10M BOP is required by BLM, XTO requests a variance to utilize 5M annular with 10M ram preventers (a common BOP configuration, which allows use of 10M rams in unlikely event that pressures exceed 5M).

All BOP testing will be done by an independent service company. Annular pressure tests will be limited to 50% of the working pressure. When nippling up on the 13.375, 3M bradenhead and flange, the BOP test will be limited to 3000 psi. When nippling up on the 7.625, the BOP will be tested to a minimum of 3000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 3M BOP diagrams are attached. Blind rams will be functioned tested each trip, pipe rams will be functioned tested each day.

A variance is requested to allow use of a flex hose as the choke line from the BOP to the Choke Manifold. If this hose is used, a copy of the manufacturer's certification and pressure test chart will be kept on the rig. Attached is an example of a certification and pressure test chart. The manufacturer does not require anchors.

XTO requests a variance to be able to batch drill this well if necessary. In doing so, XTO will set casing and ensure that the well is cemented properly (unless approval is given for offline cementing) and the well is static. With floats holding, no pressure on the csg annulus, and the installation of a 10K TA cap as per Cactus recommendations, XTO will contact the BLM to skid the rig to drill the remaining wells on the pad. Once surface and both intermediate strings are all completed, XTO will begin drilling the production hole

on each of the wells.

A variance is requested to **ONLY** test broken pressure seals on the BOP equipment when moving from wellhead to wellhead which is in compliance with API Standard 53. API standard 53 states, that for pad drilling operation, moving from one wellhead to another within 21 days, pressure testing is required for pressure-containing and pressure-controlling connections when the integrity of a pressure seal is broken. Based on discussions with the BLM on February 27th 2020, we will request permission to **ONLY** retest broken pressure seals if the following conditions are met: 1. After a full BOP test is conducted on the first well on the pad 2. When skidding to drill an intermediate section that does not penetrate into the Wolfcamp.

6. Proposed Mud Circulation System

INTERVAL	Hole Size	Mud Type	MW	Viscosity	Fluid Loss
INTERVAL	Hole Size	Mud Type	(ppg)	(sec/qt)	(cc)
0' - 319'	17.5	FW/Native	8.4-8.9	35-40	NC
319' - 3219'	12.25	Brine	10-10.5	30-32	NC
3219' to 7700'	8.75	FW / Cut Brine	9.4-9.9	30-32	NC
7700' to 16646'	6.75	ОВМ	10-10.5	50-60	NC - 20

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

Spud with fresh water/native mud. Drill out from under 13-3/8" surface casing with brine solution. A 9.8 ppg - 10.2 ppg brine mud will be used while drilling through the salt formation. Use fibrous materials as needed to control seepage and lost circulation. Pump viscous sweeps as needed for hole cleaning. Pump speed will be recorded on a daily drilling report after mudding up. A Pason or Totco will be used to detect changes in loss or gain of mud volume. A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system.

7. Auxiliary Well Control and Monitoring Equipment

- A. A Kelly cock will be in the drill string at all times.
- B. A full opening drill pipe stabbing valve having appropriate connections will be on the rig floor at all times.
- C. H2S monitors will be on location when drilling below the 13.375 casing.

8. Logging, Coring and Testing Program

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

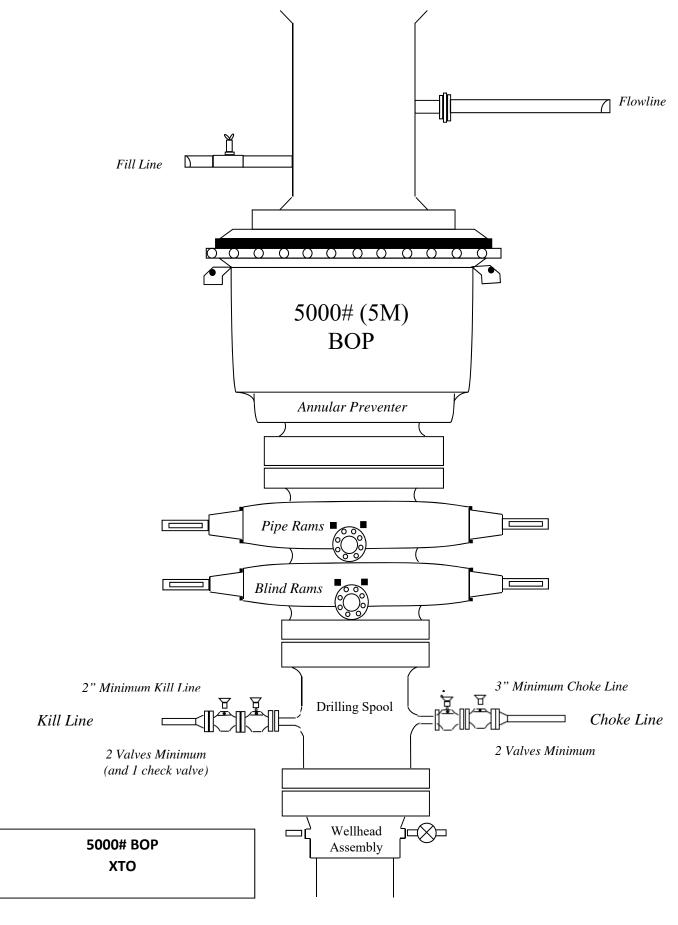
Open hole logging will not be done on this well.

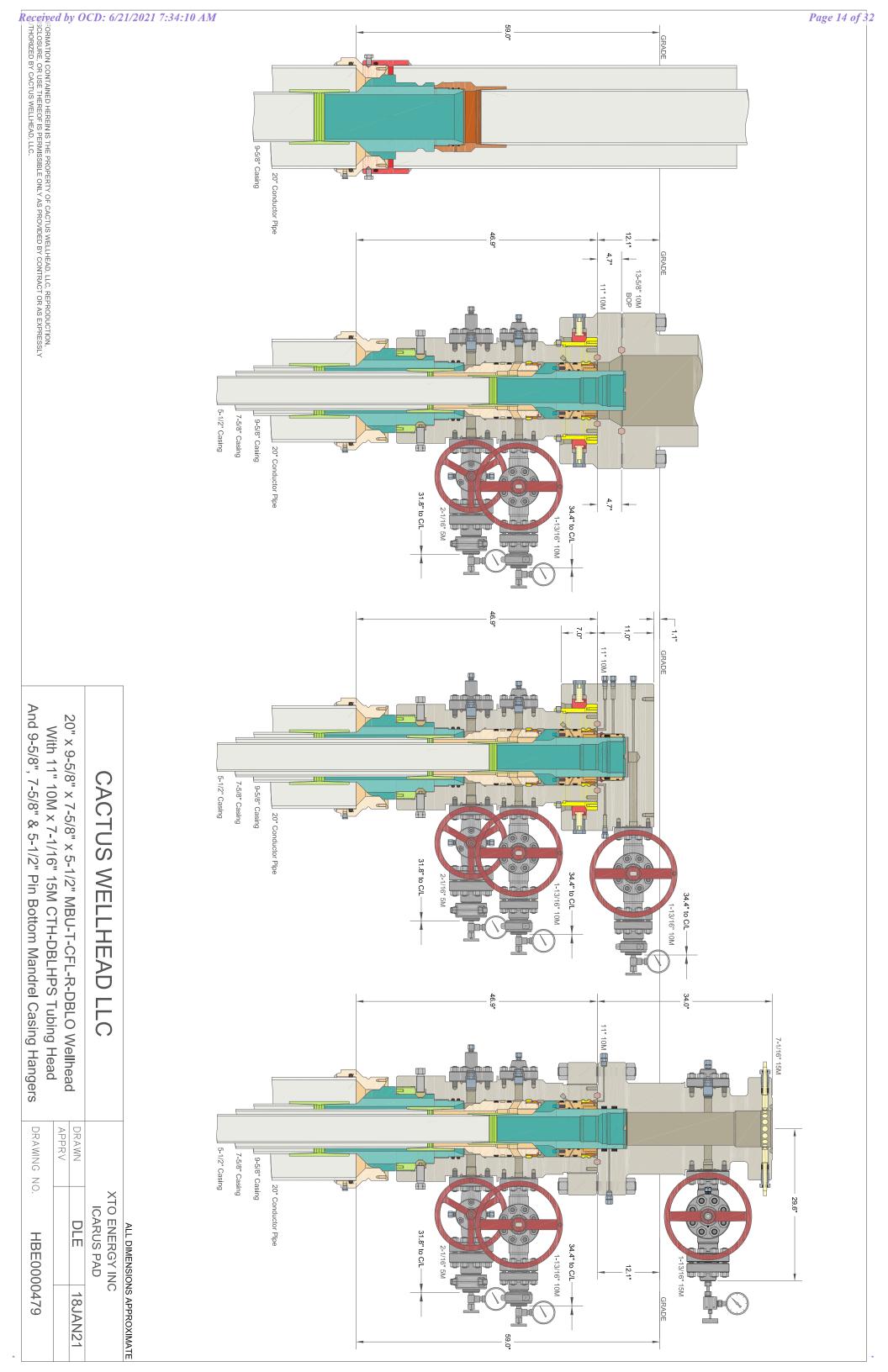
9. Abnormal Pressures and Temperatures / Potential Hazards

None Anticipated. BHT of 155 to 175 F is anticipated. No H2S is expected but monitors will be in place to detect any H2S occurrences. Should these circumstances be encountered the operator and drilling contractor are prepared to take all necessary steps to ensure safety of all personnel and environment. Lost circulation could occur but is not expected to be a serious problem in this area and hole seepage will be compensated for by additions of small amounts of LCM in the drilling fluid. The maximum anticipated bottom hole pressure for this well is 4668 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 20 days.





Well Plan Report - Remuda 707H

Measured Depth:

16502.64 ft

TVD RKB:

8986.00 ft

Location

Cartographi

c Reference New Mexico East - NAD 27

System:

Northing: 464534.30 ft Easting: 624245.60 ft 3126.00 ft RKB: Ground 3096.00 ft Level: North Grid Reference: Convergence e Angle: 0.21 Deg Remuda S-25 State 705H-Site: 709H

Slot:

Remuda 707H

Plan Sections	Remuda 707H								
Measured				TVD			Build	Turn	Dogleg
Depth	Incl	ination	Azimuth	RKB	Y Offset	X Offset	Rate	Rate	Rate
(ft)		(Deg)	(Deg)	(ft)	(ft)	(ft)	(Deg/100ft)	(Deg/100ft)	(Deg/100ft) Target
0		0	0	0	0	0	0	0	0
3900		0	0	3900	0	0	0	0	0
4300		8	135	4298.7	-19.71	19.71	2	0	2
5000		8	135	4991.89	-88.6	88.6	0	0	0
5264.82		13.02	125.49	5252.2	-118.97	125.95	1.9	-3.59	2
6704.14		13.02	125.49	6654.51	-307.24	390.02	0	0	0
7355.22		0	0	7300	-350	450	-2	0	2
8455.22		0	0	8400	-350	450	0	0	0
9355.22		90	195	8972.96	-903.43	301.71	10	0	10
10105.22		90	180	8972.96	-1644.9	204.09	0	-2	2
16502.64		89.77	179.44	8986	-8042.2	235.3	0	-0.01	0.01 BHL 3

Position Uncertainty	Remuda 707H												
Measured			TVD	Highside		Lateral		Vertical		Magnitude	Semi-major	Semi-minor	Semi-minor Tool
Depth	Inclination	Azimuth	RKB	Error	Bias	Error	Bias	Error	Bias	of Bias	Error	Error	Azimuth Used
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)
0	0	0	0	0	0	0	0	2.297	0	0	0	0	0 MWD+IFR1+ MS
100	0	0	100	0.468	0	0.468	0	2.299	0	0	0.556	0.358	135 MWD+IFR1+ MS
200	0	0	200	0.983	0	0.983	0	2.307	0	0	1.191	0.717	135 MWD+IFR1+ MS
300	0	0	300	1.403	0	1.403	0	2.321	0	0	1.668	1.075	135 MWD+IFR1+ MS
400	0	0	400	1.797	0	1.797	0	2.34	0	0	2.099	1.434	135 MWD+IFR1+ MS
500	0	0	500	2.179	0	2.179	0	2.364	0	0	2.507	1.792	135 MWD+IFR1+ MS
600	0	0	600	2.554	0	2.554	0	2.394	0	0	2.902	2.151	135 MWD+IFR1+ MS
700	0	0	700	2.925	0	2.925	0	2.428	0	0	3.289	2.509	135 MWD+IFR1+ MS
800	0	0	800	3.293	0	3.293	0	2.467	0	0	3.669	2.868	135 MWD+IFR1+ MS
900	0	0	900	3.659	0	3.659	0	2.511	0	0	4.046	3.226	135 MWD+IFR1+ MS
1000	0	0	1000	4.024	0	4.024	0	2.56	0	0	4.42	3.585	135 MWD+IFR1+ MS

ı													MWD+IFR1+
1100	0	0	1100	4.388	0	4.388	0	2.613	0	0	4.791	3.943	MS MS
1200	0	0	1200	4.751	0	4.751	0	2.67	0	0	5.161	4.302	135 MWD+IFR1+ MS 135 MWD+IFR1+
1300	0	0	1300	5.113	0	5.113	0	2.731	0	0	5.529	4.66	MM/D±IED1±
1400	0	0	1400	5.475	0	5.475	0	2.797	0	0	5.896	5.019	MM/D±IED1±
1500	0	0	1500	5.836	0	5.836	0	2.866	0	0	6.262	5.377	MS MWD+IFR1+
1600	0	0	1600	6.197	0	6.197	0	2.939	0	0	6.627	5.736	MS MWD+IFR1+
1700	0	0	1700	6.558	0	6.558	0	3.016	0	0	6.992	6.094	MS MWD+IER1+
1800	0	0	1800	6.919	0	6.919	0	3.096	0	0	7.356	6.452	MS MWD+IER1+
1900	0	0	1900	7.279	0	7.279	0	3.179	0	0	7.719	6.811	MS MWD+IFR1+
2000	0	0	2000	7.639	0	7.639	0	3.266	0	0	8.082	7.169	MS MWD+IEP1+
2100	0	0	2100	7.999	0	7.999	0	3.355	0	0	8.444	7.528	MS MWD+IEP1+
2200	0	0	2200	8.359	0	8.359	0	3.448	0	0	8.807	7.886	MS
2300	0	0	2300	8.719	0	8.719	0	3.544	0	0	9.169	8.245	135 MWD+IFR1+ MS MWD+IFR1+
2400	0	0	2400	9.079	0	9.079	0	3.643	0	0	9.53	8.603	MS MWD+IER1+
2500	0	0	2500	9.438	0	9.438	0	3.745	0	0	9.892	8.962	MS MWD+IER1+
2600	0	0	2600	9.798	0	9.798	0	3.849	0	0	10.253	9.32	MS MWD+IER1+
2700	0	0	2700	10.157	0	10.157	0	3.956	0	0	10.614	9.679	MS MWD+IFR1+
2800	0	0	2800	10.516	0	10.516	0	4.066	0	0	10.975	10.037	MS MWD+IEP1+
2900	0	0	2900	10.876	0	10.876	0	4.179	0	0	11.335	10.396	MS MWD+IEP1+
3000	0	0	3000	11.235	0	11.235	0	4.295	0	0	11.696	10.754	MS MWD+IEP1+
3100	0	0	3100	11.594	0	11.594	0	4.413	0	0	12.056	11.113	MS MWD+IER1+
3200	0	0	3200	11.953	0	11.953	0	4.534	0	0	12.417	11.471	MS MWD+IER1+
3300	0	0	3300	12.312	0	12.312	0	4.657	0	0	12.777	11.83	MS MWD+IFR1+
3400	0	0	3400	12.671	0	12.671	0	4.783	0	0	13.137	12.188	MS MWD+IFR1+
3500	0	0	3500	13.031	0	13.031	0	4.912	0	0	13.497	12.547	MS MWD+IFR1+
3600	0	0	3600	13.39	0	13.39	0	5.043	0	0	13.857	12.905	MS MMD JERI
3700	0	0	3700	13.749	0	13.749	0	5.177	0	0	14.217	13.263	MS MWD+IEP1+
3800	0	0	3800	14.107	0	14.107	0	5.313	0	0	14.577	13.622	MS MWD+IEP1+
3900	0	0	3900	14.466	0	14.466	0	5.452	0	0	14.937	13.98	MS MWD+IFR1+
4000	2	135	3999.98	14.363	0	15.258	0	5.594	0	0	15.258	14.37	MS MS
4100	4	135	4099.838	14.851	0	15.578	0	5.738	0	0	15.58	14.878	MS MWD+IER1+
4200	6	135	4199.452	15.315	0	15.899	0	5.885	0	0	15.912	15.367	126.022 MS MS MWD+IFR1+ MS
4300	8	135	4298.702	15.756	0	16.221	0	6.037	0	0	16.26	15.83	117.278 MS MWD+IFR1+
4400	8	135	4397.728	16.141	0	16.544	0	6.19	0	0	16.605	16.19	112.262 MWD+IFR1+ MS MWD+IFR1+
4500	8	135	4496.755	16.472	0	16.868	0	6.344	0	0	16.935	16.512	111.42 MWD+IFR1+ MS 110.632 MWD+IFR1+
4600	8	135	4595.782	16.804	0	17.195	0	6.502	0	0	17.267	16.835	110.632 MS 109.894 MS
4700	8	135	4694.809	17.138	0	17.523	0	6.662	0	0	17.601	17.161	109.894 MS 109.201 MWD+IFR1+
4800	8	135	4793.836	17.474	0	17.852	0	6.825	0	0	17.936	17.488	109.201 MS MWD+IFR1+ MS
4900	8	135	4892.862	17.811	0	18.183	0	6.99	0	0	18.272	17.816	MWD+IFR1+
5000	8	135	4991.889	18.149	0	18.515	0	7.159	0	0	18.61	18.146	107.932 MS MS 104.409 MWD+IFR1+
5100	9.863	130.285	5090.674	18.436	0	18.877	0	7.331	0	0	18.965	18.501	
5200	11.77	127.07	5188.893	18.792	0	19.232	0	7.512	0	0	19.35	18.901	96.158 MWD+IFR1+ MS MWD+IFR1+
5264.817	13.022	125.487	5252.199	18.969	0	19.456	0	7.627	0	0	19.578	19.133	93.794 MS MS 93.697 MWD+IFR1+
5300	13.022	125.487	5286.476	19.088	0	19.571	0	7.688	0	0	19.693	19.249	93.697 MS MS 93.713 MWD+IFR1+
5400	13.022	125.487	5383.905	19.425	0	19.902	0	7.867	0	0	20.025	19.579	MWD+IFR1+
5500	13.022	125.487	5481.334	19.77	0	20.24	0	8.05	0	0	20.367	19.911	95.461 MS
5600	13.022	125.487	5578.762	20.116	0	20.579	0	8.237	0	0	20.71	20.245	93.213 MWD+IFR1+ MS 92.969 MWD+IFR1+
5700	13.022	125.487	5676.191	20.464	0	20.919	0	8.426	0	0	21.055	20.581	
5800	13.022	125.487	5773.619	20.814	0	21.261	0	8.619	0	0	21.401	20.918	92.729 MWD+IFR1+ MS

5900	13.022	125.487	5871.048	21.165	0	21.604	0	8.814	0	0	21.749	21.257	92.491 MWD+IFR1+ MS
6000	13.022	125.487	5968.476	21.518	0	21.948	0	9.012	0	0	22.097	21.597	92.255 MWD+IFR1+ MS
6100	13.022	125.487	6065.905	21.871	0	22.293	0	9.214	0	0	22.447	21.938	92.022 MWD+IFR1+ MS
6200	13.022	125.487	6163.333	22.227	0	22.64	0	9.418	0	0	22.798	22.281	91.789 MWD+IFR1+ MS
6300	13.022	125.487	6260.762	22.583	0	22.987	0	9.625	0	0	23.149	22.625	91.558 MWD+IFR1+ MS
6400	13.022	125.487	6358.19	22.941	0	23.336	0	9.835	0	0	23.502	22.971	91.328 MWD+IFR1+ MS
6500	13.022	125.487	6455.619	23.299	0	23.685	0	10.047	0	0	23.856	23.317	91.099 MWD+IFR1+ MS
6600	13.022	125.487	6553.047	23.659	0	24.036	0	10.263	0	0	24.21	23.665	90.87 MWD+IFR1+ MS
6704.144	13.022	125.487	6654.513	24.036	0	24.402	0	10.49	0	0	24.582	24.028	90.61 MWD+IFR1+ MS
6800	11.104	125.487	6748.248	24.502	0	24.739	0	10.706	0	0	24.941	24.374	88 663 MWD+IFR1+
6900	9.104	125.487	6846.692	25.028	0	25.09	0	10.938	0	0	25.353	24.761	MS MWD+IFR1+ 83.561
7000	7.104	125.487	6945.689	25.526	0	25.441	0	11.169	0	0	25.775	25.139	78.888 MWD+IFR1+
7100	5.104	125.487	7045.117	25.993	0	25.79	0	11.397	0	0	26.2	25.508	MS 74 976 MWD+IFR1+
7200	3.104	125.487	7144.855	26.428	0	26.137	0	11.625	0	0	26.627	25.869	MS 71 700 MWD+IFR1+
7300	1.104	125.487	7244.783	26.83	0	26.482	0	11.853	0	0	27.053	26.224	MWD+IFR1+
7355.221	0	0	7300	27.133	0	26.521	0	11.978	0	0	27.237	26.415	MWD+IFR1+
7400	0	0	7344.779	27.284	0	26.673	0	12.08	0	0	27.386	26.569	MS MWD+IFR1+
7500	0	0	7444.779	27.619	0	27.016	0	12.311	0	0	27.717	26.916	MS MWD+IFR1+
7600	0	0	7544.779	27.958	0	27.363	0	12.544	0	0	28.049	27.269	MS 69.843 MWD+IFR1+
7700	0	0	7644.779		0	27.303	0		0	0	28.383	27.622	70.272 MS 70.272 MS
				28.297			0	12.779	0				MWD+IFR1+
7800	0	0	7744.779	28.637	0	28.057		13.018		0	28.717	27.975	70.712 MS MS MWD+IFR1+
7900	0	0	7844.779	28.977	0	28.404	0	13.26	0	0	29.052	28.328	71.163 MS MS MWD+IFR1+
8000	0	0	7944.779	29.318	0	28.752	0	13.505	0	0	29.387	28.681	MS MWD+IFR1+
8100	0	0	8044.779	29.659	0	29.099	0	13.753	0	0	29.723	29.034	MS MWD+IFR1+
8200	0	0	8144.779	30	0	29.448	0	14.004	0	0	30.06	29.387	/2.58/ MS MWD+IFR1+
8300	0	0	8244.779	30.342	0	29.796	0	14.258	0	0	30.398	29.74	73.085 MS MWD+IFR1+
8400	0	0	8344.779	30.685	0	30.144	0	14.514	0	0	30.735	30.093	73.596 MS MS 73.717 MWD+IFR1+
8455.221	0	0	8400	30.872	0	30.335	0	14.657	0	0	30.921	30.284	MWD+IFR1+
8500	4.478	195	8444.734	30.902	0	30.607	0	14.774	0	0	31.083	30.44	MS MWD+IER1+
8600	14.478	195	8543.243	31.796	0	30.937	0	15.122	0	0	32.348	30.903	96.166 MS
8700	24.478	195	8637.401	32.934	0	31.264	0	15.844	0	0	34.412	31.26	102.885 MS MWD+IFR1+
8800	34.478	195	8724.345	33.337	0	31.577	0	17.047	0	0	36.115	31.577	104.632
8900	44.478	195	8801.434	33.118	0	31.869	0	18.75	0	0	37.421	31.869	105.458 MWD+IFR1+ MS MWD+IFR1+
9000	54.478	195	8866.326	32.432	0	32.135	0	20.871	0	0	38.34	32.133	105.982 MWD+IFR1+ MS MWD+IFR1+
9100	64.478	195	8917.048	31.484	0	32.371	0	23.274	0	0	38.911	32.366	106.388 MWD+IFR1+ MS
9200	74.478	195	8952.061	30.526	0	32.572	0	25.809	0	0	39.201	32.565	106.745 MWD+IFR1+ MS
9300	84.478	195	8970.299	29.843	0	32.734	0	28.336	0	0	39.299	32.725	107.069 MWD+IFR1+ MS
9355.221	90	195	8972.958	28.835	0	32.804	0	28.835	0	0	39.311	32.794	107.214 MWD+IFR1+ MS
9400	90	194.104	8972.958	28.93	0	32.868	0	28.93	0	0	39.316	32.846	107.331 MWD+IFR1+ MS
9500	90	192.104	8972.958	29.072	0	33.078	0	29.072	0	0	39.328	33.013	107.64 MWD+IFR1+ MS
9600	90	190.104	8972.958	29.237	0	33.358	0	29.237	0	0	39.345	33.231	108.036 MWD+IFR1+ MS
9700	90	188.104	8972.958	29.423	0	33.667	0	29.423	0	0	39.366	33.458	108.516 MWD+IFR1+ MS
9800	90	186.104	8972.958	29.628	0	34.004	0	29.628	0	0	39.392	33.693	109.094 MWD+IFR1+ MS
9900	90	184.104	8972.958	29.853	0	34.366	0	29.853	0	0	39.424	33.936	109.786 MWD+IFR1+ MS
10000	90	182.104	8972.958	30.096	0	34.751	0	30.096	0	0	39.463	34.183	110.608 MWD+IFR1+ MS
10105.221	90	180	8972.958	30.372	0	35.187	0	30.372	0	0	39.513	34.455	111.665 MWD+IFR1+ MS
10200	89.997	179.992	8972.961	30.638	0	35.422	0	30.637	0	0	39.56	34.657	112.558 MWD+IFR1+ MS
10300	89.993	179.983	8972.97	30.935	0	35.655	0	30.934	0	0	39.611	34.854	113.509 MWD+IFR1+ MS
10400	89.989	179.974	8972.985	31.25	0	35.898	0	31.247	0	0	39.668	35.058	114.564 MWD+IFR1+ MS

I													MWD+IFR1+
10500	89.986	179.966	8973.007	31.581	0	36.153	0	31.578	0	0	39.73	35.267	115./35 MS MWD+IEP1+
10600	89.982	179.957	8973.036	31.928	0	36.418	0	31.924	0	0	39.799	35.481	MS MS MWD+IEP1+
10700	89.978	179.948	8973.071	32.29	0	36.693	0	32.285	0	0	39.876	35.699	MS MWD+IEP1+
10800	89.975	179.939	8973.112	32.667	0	36.978	0	32.661	0	0	39.961	35.919	MS MS
10900	89.971	179.931	8973.159	33.058	0	37.273	0	33.052	0	0	40.055	36.139	MS MWD+IEP1+
11000	89.967	179.922	8973.213	33.464	0	37.577	0	33.456	0	0	40.161	36.359	123.728 MS MS MWD+IFR1+
11100	89.964	179.913	8973.273	33.882	0	37.891	0	33.874	0	0	40.279	36.577	125.818 MS MWD+IFR1+
11200	89.96	179.904	8973.34	34.314	0	38.214	0	34.305	0	0	40.412	36.791	MS MWD+IFR1+
11300	89.956	179.896	8973.413	34.758	0	38.546	0	34.748	0	0	40.56	36.998	130.481 MS MWD+IFR1+
11400	89.953	179.887	8973.492	35.213	0	38.886	0	35.203	0	0	40.725	37.198	133.015 MS
11500	89.949	179.878	8973.578	35.68	0	39.235	0	35.67	0	0	40.909	37.388	MS MWD+IEP1+
11600	89.945	179.869	8973.67	36.159	0	39.592	0	36.147	0	0	41.113	37.568	-41.687 MS MWD+IEP1+
11700	89.942	179.861	8973.768	36.647	0	39.957	0	36.635	0	0	41.336	37.736	-39.016 MS MS MWD+IFR1+
11800	89.938	179.852	8973.873	37.146	0	40.33	0	37.133	0	0	41.58	37.893	-36.394 MS MWD+IFR1+
11900	89.934	179.843	8973.984	37.655	0	40.71	0	37.642	0	0	41.844	38.038	-33.865 MS MS MWD+IFR1+
12000	89.931	179.834	8974.102	38.173	0	41.097	0	38.159	0	0	42.127	38.172	-31.463 MS MS MWD+IFR1+
12100	89.927	179.826	8974.226	38.7	0	41.492	0	38.685	0	0	42.429	38.296	-29.212 MS MS MWD+IFR1+
12200	89.924	179.817	8974.356	39.236	0	41.894	0	39.221	0	0	42.747	38.41	-27.124 MS
12300	89.92	179.808	8974.493	39.78	0	42.302	0	39.764	0	0	43.082	38.515	-25.204 MWD+IFR1+ MS
12400	89.916	179.799	8974.636	40.332	0	42.717	0	40.315	0	0	43.432	38.613	-23.449 MWD+IFR1+ MS
12500	89.913	179.791	8974.785	40.891	0	43.138	0	40.874	0	0	43.795	38.705	-21.851 MWD+IFR1+ MS
12600	89.909	179.782	8974.941	41.458	0	43.565	0	41.441	0	0	44.171	38.791	-20.4 MWD+IFR1+ MS
12700	89.905	179.773	8975.103	42.032	0	43.999	0	42.014	0	0	44.558	38.872	-19.083 MWD+IFR1+ MS
12800	89.902	179.765	8975.272	42.612	0	44.438	0	42.594	0	0	44.956	38.949	-17.888 MWD+IFR1+ MS
12900	89.898	179.756	8975.447	43.199	0	44.883	0	43.181	0	0	45.364	39.022	-16.804 MWD+IFR1+ MS
13000	89.894	179.747	8975.628	43.793	0	45.333	0	43.774	0	0	45.782	39.093	-15.819 MWD+IFR1+ MS
13100	89.891	179.738	8975.816	44.392	0	45.789	0	44.372	0	0	46.207	39.161	-14.922 MWD+IFR1+ MS
13200	89.887	179.73	8976.01	44.997	0	46.249	0	44.977	0	0	46.641	39.227	-14.105 MWD+IFR1+ MS
13300	89.883	179.721	8976.21	45.607	0	46.715	0	45.587	0	0	47.082	39.291	-13.358 MWD+IFR1+ MS
13400	89.88	179.712	8976.417	46.223	0	47.185	0	46.202	0	0	47.531	39.354	-12.674 MWD+IFR1+ MS
13500	89.876	179.703	8976.63	46.844	0	47.661	0	46.822	0	0	47.986	39.415	-12.047 MWD+IFR1+ MS
13600	89.872	179.695	8976.85	47.469	0	48.141	0	47.448	0	0	48.447	39.476	-11.47 MS
13700	89.869	179.686	8977.076	48.1	0	48.625	0	48.078	0	0	48.914	39.536	-10.938 MWD+IFR1+ MS
13800	89.865	179.677	8977.308	48.734	0	49.113	0	48.712	0	0	49.387	39.595	-10.448 MWD+IFR1+ MS
13900	89.861	179.668	8977.547	49.373	0	49.606	0	49.351	0	0	49.865	39.654	-9.993 MWD+IFR1+ MS
14000	89.858	179.66	8977.792	50.017	0	50.103	0	49.994	0	0	50.348	39.712	-9.572 MWD+IFR1+ MS
14100	89.854	179.651	8978.043	50.664	0	50.604	0	50.64	0	0	50.837	39.771	-9.181 MWD+IFR1+ MS
14200	89.85	179.642	8978.301	51.315	0	51.108	0	51.291	0	0	51.33	39.829	-8.817 MWD+IFR1+ MS
14300	89.847	179.633	8978.565	51.97	0	51.616	0	51.946	0	0	51.827	39.887	-8.477 MWD+IFR1+ MS
14400	89.843	179.625	8978.836	52.628	0	52.128	0	52.604	0	0	52.329	39.945	-8.16 MWD+IFR1+ MS
14500	89.84	179.616	8979.113	53.29	0	52.644	0	53.265	0	0	52.835	40.003	-7.864 MWD+IFR1+ MS
14600	89.836	179.607	8979.396	53.955	0	53.162	0	53.93	0	0	53.345	40.061	-7.586 MWD+IFR1+ MS
14700	89.832	179.599	8979.686	54.623	0	53.684	0	54.598	0	0	53.859	40.12	-7.325 MWD+IFR1+ MS
14800	89.829	179.59	8979.982	55.295	0	54.209	0	55.269	0	0	54.376	40.178	-7.08 MWD+IFR1+ MS
14900	89.825	179.581	8980.284	55.969	0	54.738	0	55.943	0	0	54.897	40.237	-6.849 MWD+IFR1+ MS
15000	89.821	179.572	8980.593	56.646	0	55.269	0	56.62	0	0	55.422	40.296	-6.632 MWD+IFR1+ MS
15100	89.818	179.564	8980.908	57.326	0	55.803	0	57.299	0	0	55.95	40.356	-6.427 MWD+IFR1+ MS
15200	89.814	179.555	8981.229	58.009	0	56.34	0	57.982	0	0	56.481	40.416	-6.233 MWD+IFR1+ MS
15300	89.81	179.546	8981.557	58.694	0	56.88	0	58.667	0	0	57.015	40.476	-6.05 MWD+IFR1+ MS

15400	89.807	179.537	8981.892	59.381	0	57.423	0	59.354	0	0	57.552	40.537	-5.876 MWD+IFR1+ MS
15500	89.803	179.529	8982.232	60.071	0	57.968	0	60.044	0	0	58.092	40.598	-5.711 MS -5.711 MS
15600	89.799	179.52	8982.579	60.763	0	58.515	0	60.736	0	0	58.635	40.659	-5 555 MWD+IFR1+
15700	89.796	179.511	8982.933	61.458	0	59.066	0	61.43	0	0	59.18	40.721	-5 407 MWD+IFR1+
15800	89.792	179.502	8983.292	62.155	0	59.618	0	62.126	0	0	59.728	40.784	-5.266 MWD+IFR1+
15900	89.788	179.494	8983.659	62.853	0	60.173	0	62.825	0	0	60.279	40.847	MS MWD+IFR1+ -5.132 MS
16000	89.785	179.485	8984.031	63.554	0	60.73	0	63.525	0	0	60.832	40.91	-5.004 MWD+IFR1+ MS
16100	89.781	179.476	8984.41	64.257	0	61.289	0	64.228	0	0	61.388	40.974	-4.882 MWD+IFR1+ MS
16200	89.777	179.467	8984.795	64.962	0	61.851	0	64.932	0	0	61.946	41.039	MS MWD+IFR1+ -4.766 MS
16300	89.774	179.459	8985.187	65.668	0	62.414	0	65.638	0	0	62.506	41.104	-4.655 MWD+IFR1+
16400	89.77	179.45	8985.585	66.376	0	62.98	0	66.346	0	0	63.068	41.169	-4.549 MS MS
16502.643	89.766	179.441	8986	67.105	0	63.563	0	67.075	0	0	63.648	41.237	-4.445 MS

Plan Targets	Remuda 707H				
Target	Measured Depth	Grid Northing	Grid Easting	TVD MSL Target Shape	
Name	(ft)	(ft)	(ft)	(ft)	
KOP 3	8863.13	464507.5	624447.8	5297 CIRCLE	
FTP 3	9292.83	463934.5	624447.8	5870 CIRCLE	
BHL 3	16502.64	456492.1	624480.9	5860 CIRCLE	

Well Plan Report - Remuda 707H

Measured Depth:

16502.64 ft

TVD RKB:

8986.00 ft

Location

Cartographi

New Mexico East - NAD 27

System:

Northing: 464534.30 ft Easting: 624245.60 ft 3126.00 ft RKB: Ground 3096.00 ft Level: North Grid Reference: Convergence e Angle: 0.21 Deg Remuda S-25 State 705H-Site: 709H

Slot:

Remuda 707H

Plan Sections	Remuda 707H								
Measured				TVD			Build	Turn	Dogleg
Depth		Inclination	Azimuth	RKB	Y Offset	X Offset	Rate	Rate	Rate
(ft)		(Deg)	(Deg)	(ft)	(ft)	(ft)	(Deg/100ft)	(Deg/100ft)	(Deg/100ft) Target
0		0	0	0	0	0	0	0	0
3900		0	0	3900	0	0	0	0	0
4300		8	135	4298.7	-19.71	19.71	2	0	2
5000		8	135	4991.89	-88.6	88.6	0	0	0
5264.82		13.02	125.49	5252.2	-118.97	125.95	1.9	-3.59	2
6704.14		13.02	125.49	6654.51	-307.24	390.02	0	0	0
7355.22		0	0	7300	-350	450	-2	0	2
8455.22		0	0	8400	-350	450	0	0	0
9355.22		90	195	8972.96	-903.43	301.71	10	0	10
10105.22		90	180	8972.96	-1644.9	204.09	0	-2	2
16502.64		89.77	179.44	8986	-8042.2	235.3	0	-0.01	0.01 BHL 3

Position Uncertainty	Remuda 707H												
			7.0	100 A 24 A				w. et al					
Measured			TVD	Highside		Lateral		Vertical		•	•		Semi-minor Tool
Depth	Inclination	Azimuth	RKB	Error	Bias	Error	Bias	Error	Bias	of Bias	Error	Error	Azimuth Used
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)
0	0	0	0	0	0	0	0	2.297	0	0	0	0	0 MWD+IFR1 MS
100	0	0	100	0.468	0	0.468	0	2.299	0	0	0.556	0.358	135 MWD+IFR1 MS
200	0	0	200	0.983	0	0.983	0	2.307	0	0	1.191	0.717	135 MWD+IFR1 MS
300	0	0	300	1.403	0	1.403	0	2.321	0	0	1.668	1.075	135 MWD+IFR1 MS
400	0	0	400	1.797	0	1.797	0	2.34	0	0	2.099	1.434	135 MWD+IFR1 MS
500	0	0	500	2.179	0	2.179	0	2.364	0	0	2.507	1.792	135 MWD+IFR1 MS
600	0	0	600	2.554	0	2.554	0	2.394	0	0	2.902	2.151	135 MS
700	0	0	700	2.925	0	2.925	0	2.428	0	0	3.289	2.509	135 MS
800	0	0	800	3.293	0	3.293	0	2.467	0	0	3.669	2.868	135 MWD+IFR1 MS
900	0	0	900	3.659	0	3.659	0	2.511	0	0	4.046	3.226	135 MWD+IFR1 MS MWD+IFR1
1000	0	0	1000	4.024	0	4.024	0	2.56	0	0	4.42	3.585	135 MS

1100	0	0	1100	4.388	0	4.388	0	2.613	0	0	4.791	3.943	135 MWD+IFR1+ MS
1200	0	0	1200	4.751	0	4.751	0	2.67	0	0	5.161	4.302	135 MWD+IFR1+ MS
1300	0	0	1300	5.113	0	5.113	0	2.731	0	0	5.529	4.66	135 MWD+IFR1+ MS
1400	0	0	1400	5.475	0	5.475	0	2.797	0	0	5.896	5.019	135 MWD+IFR1+ MS
1500	0	0	1500	5.836	0	5.836	0	2.866	0	0	6.262	5.377	135 MWD+IFR1+ MS
1600	0	0	1600	6.197	0	6.197	0	2.939	0	0	6.627	5.736	135 MWD+IFR1+ MS
1700	0	0	1700	6.558	0	6.558	0	3.016	0	0	6.992	6.094	MWD+IFR1+
1800	0	0	1800	6.919	0	6.919	0	3.096	0	0	7.356	6.452	MWD+IFR1+
1900	0	0	1900	7.279	0	7.279	0	3.179	0	0	7.719	6.811	MWD+IFR1+
2000	0	0	2000	7.639	0	7.639	0	3.266	0	0	8.082	7.169	MWD+IFR1+
2100	0	0	2100	7.999	0	7.999	0	3.355	0	0	8.444	7.528	MWD+IFR1+
2200	0	0	2200	8.359	0	8.359	0	3.448	0	0	8.807	7.886	MWD+IFR1+
2300	0	0	2300	8.719	0	8.719	0	3.544	0	0	9.169	8.245	135 MWD+IFR1+
2400	0	0	2400	9.079	0	9.079	0	3.643	0	0	9.53	8.603	MWD+IFR1+
	0				0	9.438	0		0	0			MS MWD+IFR1+
2500		0	2500	9.438				3.745			9.892	8.962	MS MWD+IFR1+
2600	0	0	2600	9.798	0	9.798	0	3.849	0	0	10.253	9.32	MS MWD+IFR1+
2700	0	0	2700	10.157	0	10.157	0	3.956	0	0	10.614	9.679	MS MWD+IEP1+
2800	0	0	2800	10.516	0	10.516	0	4.066	0	0	10.975	10.037	MS MWD+IEP1+
2900	0	0	2900	10.876	0	10.876	0	4.179	0	0	11.335	10.396	MS MS
3000	0	0	3000	11.235	0	11.235	0	4.295	0	0	11.696	10.754	135 MWD+IFR1+ MS
3100	0	0	3100	11.594	0	11.594	0	4.413	0	0	12.056	11.113	135 MWD+IFR1+ MS
3200	0	0	3200	11.953	0	11.953	0	4.534	0	0	12.417	11.471	135 MWD+IFR1+ MS
3300	0	0	3300	12.312	0	12.312	0	4.657	0	0	12.777	11.83	135 MWD+IFR1+ MS
3400	0	0	3400	12.671	0	12.671	0	4.783	0	0	13.137	12.188	135 MWD+IFR1+ MS
3500	0	0	3500	13.031	0	13.031	0	4.912	0	0	13.497	12.547	135 MWD+IFR1+ MS
3600	0	0	3600	13.39	0	13.39	0	5.043	0	0	13.857	12.905	135 MWD+IFR1+ MS
3700	0	0	3700	13.749	0	13.749	0	5.177	0	0	14.217	13.263	135 MWD+IFR1+ MS
3800	0	0	3800	14.107	0	14.107	0	5.313	0	0	14.577	13.622	135 MWD+IFR1+ MS
3900	0	0	3900	14.466	0	14.466	0	5.452	0	0	14.937	13.98	135 MWD+IFR1+ MS
4000	2	135	3999.98	14.363	0	15.258	0	5.594	0	0	15.258	14.37	-44.678 MWD+IFR1+ MS
4100	4	135	4099.838	14.851	0	15.578	0	5.738	0	0	15.58	14.878	131.661 MWD+IFR1+
4200	6	135	4199.452	15.315	0	15.899	0	5.885	0	0	15.912	15.367	MS MWD+IFR1+ MS
4300	8	135	4298.702	15.756	0	16.221	0	6.037	0	0	16.26	15.83	117.278 MWD+IFR1+ MS
4400	8	135	4397.728	16.141	0	16.544	0	6.19	0	0	16.605	16.19	112.262 MWD+IFR1+ MS
4500	8	135	4496.755	16.472	0	16.868	0	6.344	0	0	16.935	16.512	111.42 MWD+IFR1+
4600	8	135	4595.782	16.804	0	17.195	0	6.502	0	0	17.267	16.835	110 632 MWD+IFR1+
4700	8	135	4694.809	17.138	0	17.523	0	6.662	0	0	17.601	17.161	100 804 MWD+IFR1+
4800	8	135	4793.836	17.474	0	17.852	0	6.825	0	0	17.936	17.488	109 201 MWD+IFR1+
4900	8	135	4892.862	17.811	0	18.183	0	6.99	0	0	18.272	17.816	108.548 MS 108.548 MS
5000	8	135	4991.889	18.149	0	18.515	0	7.159	0	0	18.61	18.146	107 922 MWD+IFR1+
5100	9.863	130.285	5090.674	18.436	0	18.877	0	7.331	0	0	18.965	18.501	MS 104 409 MWD+IFR1+
5200	11.77	127.07	5188.893	18.792	0	19.232	0	7.512	0	0	19.35	18.901	MS MWD+IFR1+
5264.817	13.022	125.487	5252.199	18.969	0	19.456	0	7.627	0	0	19.578	19.133	MS MWD+IFR1+
	13.022	125.487			0		0		0	0			MS 93 697 MWD+IFR1+
5300			5286.476	19.088		19.571		7.688			19.693	19.249	93.697 MS 93.713 MS
5400	13.022	125.487	5383.905	19.425	0	19.902	0	7.867	0	0	20.025	19.579	93.713 MS 93.461 MS
5500	13.022	125.487	5481.334	19.77	0	20.24	0	8.05	0	0	20.367	19.911	MWD+IFR1+
5600	13.022	125.487	5578.762	20.116	0	20.579	0	8.237	0	0	20.71	20.245	93.213 MS MS 92.969 MWD+IFR1+
5700	13.022	125.487	5676.191	20.464	0	20.919	0	8.426	0	0	21.055	20.581	
5800	13.022	125.487	5773.619	20.814	0	21.261	0	8.619	0	0	21.401	20.918	92.729 MWD+IFR1+ MS

5900	13.022	125.487	5871.048	21.165	0	21.604	0	8.814	0	0	21.749	21.257	92.491 MWD+IFR1+ MS
6000	13.022	125.487	5968.476	21.518	0	21.948	0	9.012	0	0	22.097	21.597	92.255 MWD+IFR1+ MS
6100	13.022	125.487	6065.905	21.871	0	22.293	0	9.214	0	0	22.447	21.938	92.022 MWD+IFR1+ MS
6200	13.022	125.487	6163.333	22.227	0	22.64	0	9.418	0	0	22.798	22.281	91.789 MWD+IFR1+ MS
6300	13.022	125.487	6260.762	22.583	0	22.987	0	9.625	0	0	23.149	22.625	91.558 MWD+IFR1+ MS
6400	13.022	125.487	6358.19	22.941	0	23.336	0	9.835	0	0	23.502	22.971	91.328 MWD+IFR1+ MS
6500	13.022	125.487	6455.619	23.299	0	23.685	0	10.047	0	0	23.856	23.317	91.099 MWD+IFR1+ MS
6600	13.022	125.487	6553.047	23.659	0	24.036	0	10.263	0	0	24.21	23.665	90.87 MWD+IFR1+ MS
6704.144	13.022	125.487	6654.513	24.036	0	24.402	0	10.49	0	0	24.582	24.028	90.61 MWD+IFR1+ MS
6800	11.104	125.487	6748.248	24.502	0	24.739	0	10.706	0	0	24.941	24.374	88 663 MWD+IFR1+
6900	9.104	125.487	6846.692	25.028	0	25.09	0	10.938	0	0	25.353	24.761	MS MWD+IFR1+ 83.561
7000	7.104	125.487	6945.689	25.526	0	25.441	0	11.169	0	0	25.775	25.139	78.888 MWD+IFR1+
7100	5.104	125.487	7045.117	25.993	0	25.79	0	11.397	0	0	26.2	25.508	MS 74 976 MWD+IFR1+
7200	3.104	125.487	7144.855	26.428	0	26.137	0	11.625	0	0	26.627	25.869	MS 71 700 MWD+IFR1+
7300	1.104	125.487	7244.783	26.83	0	26.482	0	11.853	0	0	27.053	26.224	MWD+IFR1+
7355.221	0	0	7300	27.133	0	26.521	0	11.978	0	0	27.237	26.415	MWD+IFR1+
7400	0	0	7344.779	27.284	0	26.673	0	12.08	0	0	27.386	26.569	MS MWD+IFR1+
7500	0	0	7444.779	27.619	0	27.016	0	12.311	0	0	27.717	26.916	MS MWD+IFR1+
7600	0	0	7544.779	27.958	0	27.363	0	12.544	0	0	28.049	27.269	MS 69.843 MWD+IFR1+
7700	0	0	7644.779		0	27.303	0		0	0	28.383	27.622	70.272 MS 70.272 MS
				28.297			0	12.779	0				MWD+IFR1+
7800	0	0	7744.779	28.637	0	28.057		13.018		0	28.717	27.975	70.712 MS MS MWD+IFR1+
7900	0	0	7844.779	28.977	0	28.404	0	13.26	0	0	29.052	28.328	71.163 MS MS MWD+IFR1+
8000	0	0	7944.779	29.318	0	28.752	0	13.505	0	0	29.387	28.681	MS MWD+IFR1+
8100	0	0	8044.779	29.659	0	29.099	0	13.753	0	0	29.723	29.034	MS MWD+IFR1+
8200	0	0	8144.779	30	0	29.448	0	14.004	0	0	30.06	29.387	/2.58/ MS MWD+IFR1+
8300	0	0	8244.779	30.342	0	29.796	0	14.258	0	0	30.398	29.74	73.085 MS MWD+IFR1+
8400	0	0	8344.779	30.685	0	30.144	0	14.514	0	0	30.735	30.093	73.596 MS MS 73.717 MWD+IFR1+
8455.221	0	0	8400	30.872	0	30.335	0	14.657	0	0	30.921	30.284	MWD+IFR1+
8500	4.478	195	8444.734	30.902	0	30.607	0	14.774	0	0	31.083	30.44	MS MWD+IER1+
8600	14.478	195	8543.243	31.796	0	30.937	0	15.122	0	0	32.348	30.903	96.166 MS
8700	24.478	195	8637.401	32.934	0	31.264	0	15.844	0	0	34.412	31.26	102.885 MS MWD+IFR1+
8800	34.478	195	8724.345	33.337	0	31.577	0	17.047	0	0	36.115	31.577	104.632
8900	44.478	195	8801.434	33.118	0	31.869	0	18.75	0	0	37.421	31.869	105.458 MWD+IFR1+ MS MWD+IFR1+
9000	54.478	195	8866.326	32.432	0	32.135	0	20.871	0	0	38.34	32.133	105.982 MWD+IFR1+ MS MWD+IFR1+
9100	64.478	195	8917.048	31.484	0	32.371	0	23.274	0	0	38.911	32.366	106.388 MWD+IFR1+ MS
9200	74.478	195	8952.061	30.526	0	32.572	0	25.809	0	0	39.201	32.565	106.745 MWD+IFR1+ MS
9300	84.478	195	8970.299	29.843	0	32.734	0	28.336	0	0	39.299	32.725	107.069 MWD+IFR1+ MS
9355.221	90	195	8972.958	28.835	0	32.804	0	28.835	0	0	39.311	32.794	107.214 MWD+IFR1+ MS
9400	90	194.104	8972.958	28.93	0	32.868	0	28.93	0	0	39.316	32.846	107.331 MWD+IFR1+ MS
9500	90	192.104	8972.958	29.072	0	33.078	0	29.072	0	0	39.328	33.013	107.64 MWD+IFR1+ MS
9600	90	190.104	8972.958	29.237	0	33.358	0	29.237	0	0	39.345	33.231	108.036 MWD+IFR1+ MS
9700	90	188.104	8972.958	29.423	0	33.667	0	29.423	0	0	39.366	33.458	108.516 MWD+IFR1+ MS
9800	90	186.104	8972.958	29.628	0	34.004	0	29.628	0	0	39.392	33.693	109.094 MWD+IFR1+ MS
9900	90	184.104	8972.958	29.853	0	34.366	0	29.853	0	0	39.424	33.936	109.786 MWD+IFR1+ MS
10000	90	182.104	8972.958	30.096	0	34.751	0	30.096	0	0	39.463	34.183	110.608 MWD+IFR1+ MS
10105.221	90	180	8972.958	30.372	0	35.187	0	30.372	0	0	39.513	34.455	111.665 MWD+IFR1+ MS
10200	89.997	179.992	8972.961	30.638	0	35.422	0	30.637	0	0	39.56	34.657	112.558 MWD+IFR1+ MS
10300	89.993	179.983	8972.97	30.935	0	35.655	0	30.934	0	0	39.611	34.854	113.509 MWD+IFR1+ MS
10400	89.989	179.974	8972.985	31.25	0	35.898	0	31.247	0	0	39.668	35.058	114.564 MWD+IFR1+ MS

10500	89.986	179.966	8973.007	31.581	0	36.153	0	31.578	0	0	39.73	35.267	115.735 MWD+IFR1+ MS
10600	89.982	179.957	8973.036	31.928	0	36.418	0	31.924	0	0	39.799	35.481	117.033 MWD+IFR1+ MS
10700	89.978	179.948	8973.071	32.29	0	36.693	0	32.285	0	0	39.876	35.699	118.47 MWD+IFR1+ MS
10800	89.975	179.939	8973.112	32.667	0	36.978	0	32.661	0	0	39.961	35.919	120.059 MWD+IFR1+ MS
10900	89.971	179.931	8973.159	33.058	0	37.273	0	33.052	0	0	40.055	36.139	121.809 MWD+IFR1+ MS
11000	89.967	179.922	8973.213	33.464	0	37.577	0	33.456	0	0	40.161	36.359	123.728 MWD+IFR1+ MS
11100	89.964	179.913	8973.273	33.882	0	37.891	0	33.874	0	0	40.279	36.577	125.818 MWD+IFR1+ MS
11200	89.96	179.904	8973.34	34.314	0	38.214	0	34.305	0	0	40.412	36.791	128.074 MWD+IFR1+ MS
11300	89.956	179.896	8973.413	34.758	0	38.546	0	34.748	0	0	40.56	36.998	130.481 MWD+IFR1+ MS
11400	89.953	179.887	8973.492	35.213	0	38.886	0	35.203	0	0	40.725	37.198	133.015 MWD+IFR1+ MS
11500	89.949	179.878	8973.578	35.68	0	39.235	0	35.67	0	0	40.909	37.388	-44.36 MWD+IFR1+ MS
11600	89.945	179.869	8973.67	36.159	0	39.592	0	36.147	0	0	41.113	37.568	-41.687 MWD+IFR1+ MS
11700	89.942	179.861	8973.768	36.647	0	39.957	0	36.635	0	0	41.336	37.736	-39.016 MWD+IFR1+ MS
11800	89.938	179.852	8973.873	37.146	0	40.33	0	37.133	0	0	41.58	37.893	-36.394 MWD+IFR1+ MS
11900	89.934	179.843	8973.984	37.655	0	40.71	0	37.642	0	0	41.844	38.038	-33.865 MWD+IFR1+ MS
12000	89.931	179.834	8974.102	38.173	0	41.097	0	38.159	0	0	42.127	38.172	-31.463 MWD+IFR1+ MS
12100	89.927	179.826	8974.226	38.7	0	41.492	0	38.685	0	0	42.429	38.296	-29.212 MWD+IFR1+ MS
12200	89.924	179.817	8974.356	39.236	0	41.894	0	39.221	0	0	42.747	38.41	-27.124 MWD+IFR1+ MS
12300	89.92	179.808	8974.493	39.78	0	42.302	0	39.764	0	0	43.082	38.515	-25.204 MWD+IFR1+ MS
12400	89.916	179.799	8974.636	40.332	0	42.717	0	40.315	0	0	43.432	38.613	-23.449 MWD+IFR1+ MS
12500	89.913	179.791	8974.785	40.891	0	43.138	0	40.874	0	0	43.795	38.705	-21.851 MWD+IFR1+ MS
12600	89.909	179.782	8974.941	41.458	0	43.565	0	41.441	0	0	44.171	38.791	-20.4 MWD+IFR1+ MS
12700	89.905	179.773	8975.103	42.032	0	43.999	0	42.014	0	0	44.558	38.872	-19.083 MWD+IFR1+ MS
12800	89.902	179.765	8975.272	42.612	0	44.438	0	42.594	0	0	44.956	38.949	-17.888 MWD+IFR1+ MS MWD+IFR1+
12900	89.898	179.756	8975.447	43.199	0	44.883	0	43.181	0	0	45.364	39.022	-16.804 MS MS MWD+IFR1+
13000	89.894	179.747	8975.628	43.793	0	45.333	0	43.774	0	0	45.782	39.093	-15.819 MC
13100	89.891	179.738	8975.816	44.392	0	45.789	0	44.372	0	0	46.207	39.161	-14.922 MWD+IFR1+ MS MWD+IFR1+
13200	89.887	179.73	8976.01	44.997	0	46.249	0	44.977	0	0	46.641	39.227	-14.105 MS MS -13.358 MWD+IFR1+
13300	89.883	179.721	8976.21	45.607	0	46.715	0	45.587	0	0	47.082	39.291	-13.358 MS MS -12.674 MWD+IFR1+
13400	89.88	179.712	8976.417	46.223	0	47.185	0	46.202	0	0	47.531	39.354	-12.674 MS MS MWD+IFR1+
13500	89.876	179.703	8976.63	46.844	0	47.661	0	46.822	0	0	47.986	39.415	-12.047 MS MS MWD+IFR1+
13600	89.872	179.695	8976.85	47.469	0	48.141	0	47.448	0	0	48.447	39.476	MWD+IFR1+
13700	89.869	179.686	8977.076	48.1	0	48.625	0	48.078	0	0	48.914	39.536	-10.938 MS MWD+JER1+
13800	89.865	179.677	8977.308	48.734	0	49.113	0	48.712	0	0	49.387	39.595	-10.448 MS MWD+IFR1+
13900	89.861	179.668	8977.547	49.373	0	49.606	0	49.351	0	0	49.865	39.654	-9.993 MS MS -9.572 MWD+IFR1+
14000	89.858	179.66	8977.792	50.017	0	50.103	0	49.994	0	0	50.348	39.712	MWD+IFR1+
14100	89.854	179.651	8978.043	50.664	0	50.604	0	50.64	0	0	50.837	39.771	-9.181 MS MS -8.817 MWD+IFR1+
14200	89.85	179.642	8978.301	51.315	0	51.108	0	51.291	0	0	51.33	39.829	IVIS
14300	89.847	179.633	8978.565	51.97	0	51.616	0	51.946	0	0	51.827	39.887	-8.477 MS MWD+IFR1+
14400	89.843	179.625	8978.836	52.628	0	52.128	0	52.604	0	0	52.329	39.945	-8.16 MS MWD+IFR1+
14500	89.84	179.616	8979.113	53.29	0	52.644	0	53.265	0	0	52.835	40.003	-7.864 MS MWD+IFR1+
14600	89.836	179.607	8979.396	53.955	0	53.162	0	53.93	0	0	53.345	40.061	-7.586 MS MS -7.325 MWD+IFR1+
14700	89.832	179.599	8979.686	54.623	0	53.684	0	54.598	0	0	53.859	40.12	-7.325 MS MS -7.08 MWD+IFR1+
14800	89.829	179.59	8979.982	55.295	0	54.209	0	55.269	0	0	54.376	40.178	-7.08 MS MS -6.849 MWD+IFR1+
14900	89.825	179.581	8980.284	55.969	0	54.738	0	55.943	0	0	54.897	40.237	-6.849 MS MS -6.632 MWD+IFR1+
15000	89.821	179.572	8980.593	56.646	0	55.269	0	56.62	0	0	55.422	40.296	MWD+IFR1+
15100	89.818	179.564	8980.908	57.326	0	55.803	0	57.299	0	0	55.95	40.356	-6.427 MS MWD+IFR1+
15200	89.814	179.555	8981.229	58.009	0	56.34	0	57.982	0	0	56.481	40.416	-6.233 MS
15300	89.81	179.546	8981.557	58.694	0	56.88	0	58.667	0	0	57.015	40.476	-6.05 MWD+IFR1+ MS

15400	89.807	179.537	8981.892	59.381	0	57.423	0	59.354	0	0	57.552	40.537	-5.876 MWD+IFR1+ MS
15500	89.803	179.529	8982.232	60.071	0	57.968	0	60.044	0	0	58.092	40.598	-5.711 MWD+IFR1+ MS
15600	89.799	179.52	8982.579	60.763	0	58.515	0	60.736	0	0	58.635	40.659	-5.555 MWD+IFR1+ MS
15700	89.796	179.511	8982.933	61.458	0	59.066	0	61.43	0	0	59.18	40.721	-5.407 MWD+IFR1+ MS
15800	89.792	179.502	8983.292	62.155	0	59.618	0	62.126	0	0	59.728	40.784	-5.266 MWD+IFR1+ MS
15900	89.788	179.494	8983.659	62.853	0	60.173	0	62.825	0	0	60.279	40.847	-5.132 MWD+IFR1+ MS
16000	89.785	179.485	8984.031	63.554	0	60.73	0	63.525	0	0	60.832	40.91	-5.004 MWD+IFR1+ MS
16100	89.781	179.476	8984.41	64.257	0	61.289	0	64.228	0	0	61.388	40.974	-4.882 MWD+IFR1+ MS
16200	89.777	179.467	8984.795	64.962	0	61.851	0	64.932	0	0	61.946	41.039	-4.766 MWD+IFR1+ MS
16300	89.774	179.459	8985.187	65.668	0	62.414	0	65.638	0	0	62.506	41.104	-4.655 MWD+IFR1+ MS
16400	89.77	179.45	8985.585	66.376	0	62.98	0	66.346	0	0	63.068	41.169	-4.549 MWD+IFR1+ MS
16502.643	89.766	179.441	8986	67.105	0	63.563	0	67.075	0	0	63.648	41.237	-4.445 MS

Plan Targets	Remuda 707H				
Target	Measured Depth	Grid Northing	Grid Easting	TVD MSL Target Shape	
Name	(ft)	(ft)	(ft)	(ft)	
KOP 3	8863.13	464507.5	624447.8	5297 CIRCLE	
FTP 3	9292.83	463934.5	624447.8	5870 CIRCLE	
BHL 3	16502.64	456492.1	624480.9	5860 CIRCLE	



HYDROGEN SULFIDE (H2S) CONTINGENCY PLAN

Assumed 100 ppm ROE = 3000'

100 ppm H2S concentration shall trigger activation of this plan.

Emergency Procedures

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

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

Ignition of Gas source

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (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 H₂S and SO₂

Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H ₂ S	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: Kendall Decker, Drilling Manager Milton Turman, Drilling Superintendent Jeff Raines, Construction Foreman Toady Sanders, EH & S Manager Wes McSpadden, Production Foreman	903-521-6477 817-524-5107 432-557-3159 903-520-1601 575-441-1147
SHERIFF DEPARTMENTS: Eddy County Lea County	575-887-7551 575-396-3611
NEW MEXICO STATE POLICE:	575-392-5588
FIRE DEPARTMENTS: Carlsbad Eunice Hobbs Jal Lovington	911 575-885-2111 575-394-2111 575-397-9308 575-395-2221 575-396-2359
HOSPITALS: Carlsbad Medical Emergency Eunice Medical Emergency Hobbs Medical Emergency Jal Medical Emergency Lovington Medical Emergency	911 575-885-2111 575-394-2112 575-397-9308 575-395-2221 575-396-2359
AGENT NOTIFICATIONS: For Lea County: Bureau of Land Management – Hobbs New Mexico Oil Conservation Division – Hobbs	575-393-3612 575-393-6161
For Eddy County: Bureau of Land Management - Carlsbad New Mexico Oil Conservation Division - Artesia	575-234-5972 575-748-1283

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.

<u>Section 1 – Plan Description</u> Effective May 25, 2021

I. Operator: _XTO Energ	gy, Inc		OGRI	D: 005380	Date	e: _06_/_04_/_2021	
II. Type: ⊠ Original □	Amendmen	t due to □ 19.1	5.27.9.D(6)(a) NMA	AC □ 19.15.27.9.D(6)(b) NMAC □ Othe	r.	
If Other, please describe: _							
III. Well(s): Provide the fobe recompleted from a sing					ells proposed to be d	rilled or proposed to	
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D	
Remuda South 25 State 705H		H-25-23S-29E	2385' FNL & 750' FEI	1500	2600	1000	
Remuda South 25 State 706H		H-25-23S-29E	2385' FNL & 720' FEI	1500	2600	1000	
Remuda South 25 State 707H		H-25-23S-29E	2385' FNL & 690' FEI		2600	1000	
Remuda South 25 State 708H		H-25-23S-29E	2385' FNL & 660' FEI		2600	1000	
Remuda South 25 State 709H		H-25-23S-29E	2385' FNL & 630' FEI		2600	1000	
IV. Central Delivery Point V. Anticipated Schedule: proposed to be recompleted	Provide the	— e following info	rmation for each nev	w or recompleted we	L	27.9(D)(1) NMAC]	
337 11 N.I	API	Spud Date	TD Reached	Completion	Initial Flow Back	First Production	
Well Name		1	Date	Commencement	Date	Date	
Well Name							
Well Name			2				
		08/09/2021		Date	Not Yet Scheduled	Not Yet Scheduled	
Remuda South 25 State 705H Remuda South 25 State 706H		08/09/2021 08/24/2021	08/24/2021		Not Yet Scheduled Not Yet Scheduled	Not Yet Scheduled Not Yet Scheduled	
Remuda South 25 State 705H Remuda South 25 State 706H		08/24/2021	08/24/2021 09/08/2021	Date Not Yet Scheduled Not Yet Scheduled	Not Yet Scheduled	Not Yet Scheduled	
Remuda South 25 State 705H			08/24/2021	Date Not Yet Scheduled			

- 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.

			Enhanced Plan E APRIL 1, 2022		
	2022, an operator tha complete this section.	t is not in compliance		as capt	ure requirement for the applicable
	es that it is not require t for the applicable rep		tion because Operator is in o	complia	ance with its statewide natural gas
IX. Anticipated Na	itural Gas Production	1:			
W	/ell	API	Anticipated Average Natural Gas Rate MCF/D		Anticipated Volume of Natural Gas for the First Year MCF
X. Natural Gas Ga	thering System (NGC	GS):			
Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in	
production operation the segment or portion XII. Line Capacity	ns to the existing or place of the natural gas government. The natural gas gath	anned interconnect of t gathering system(s) to	the natural gas gathering system which the well(s) will be considered will not have capacity to g	em(s), a nected.	ed pipeline route(s) connecting the and the maximum daily capacity of 00% of the anticipated natural gas
					he same segment, or portion, of the ressure caused by the new well(s).
☐ Attach Operator	's plan to manage prod	uction in response to t	he increased line pressure.		
Section 2 as provide	ed in Paragraph (2) of		27.9 NMAC, and attaches a f		78 for the information provided in cription of the specific information

Section 3 - Certifications Effective May 25, 2021

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

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

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

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

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

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

Section 4 - Notices

- 1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:
- (a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or
- (b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.
- 2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

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

Signature:
Printed Name: Cassie Evans
Title: Regulatory Analyst
E-mail Address: cassie.evans@exxonmobil.com
Date: 06/04/2021
Phone: 432.218.3671
OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

VI. Separation Equipment:

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

VII. Operational Practices:

1. Subsection B.

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

2. Subsection C.

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

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

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

3. Subsection D.

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

 Measure or estimate the volume of natural gas that is vented, flared or beneficially used during drilling, completion and production operations, regardless of the reason or authorization for such venting or flaring.

4. Subsection E.

- All tanks and separation equipment are designed for maximum throughput and pressure to minimize waste.
- Flare stack was installed prior to May 25, 2021 but has been designed for proper size and combustion efficiency. Flare currently has a continuous pilot and is located more than 100 feet from any known well and storage tanks.
- At any point in the well life (drilling, completion, production, inactive) an audio, visual and olfactory (AVO) inspection will be performed weekly (at minimum) to confirm that all production equipment is operating properly and there are no leaks or releases except as allowed in Subsection D of 19.15.27.8 NMAC.

5. Subsection F.

- Measurement equipment is installed to measure the volume of natural gas flared from process piping or a flowline piped from the equipment associated with a well and facility associated with the approved application for permit to drill that has an average daily production greater than 60 mcf of natural gas.
- Measurement equipment installed is not designed or equipped with a manifold to allow diversion of natural gas around the metering equipment, except for the sole purpose of inspecting and servicing the measurement equipment, as noted in NMAC 19.15.27.8 Subsection G.

VIII. Best Management Practices:

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