

Submit 1 Copy To Appropriate District
Office
District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM
87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised July 18, 2013

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO. 30-015-44357
1. Type of Well: Oil Well ☐ Gas Well ☒ Other ☐		5. Indicate Type of Lease STATE ☒ FEE ☐
2. Name of Operator XTO ENERGY, INC		6. State Oil & Gas Lease No. STATE
3. Address of Operator 6401 HOLIDAY HILL RD, BLDG 5, MIDLAND TX 79705		7. Lease Name or Unit Agreement Name REMUDA SOUTH 25 STATE
4. Well Location Unit Letter <u>H</u> : <u>2279</u> feet from the <u>NORTH</u> line and <u>705</u> feet from the <u>EAST</u> line Section <u>25</u> Township <u>23S</u> Range <u>29E</u> NMPM County <u>EDDY</u>		8. Well Number 107H
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3093' GL		9. OGRID Number 5380
		10. Pool name or Wildcat Forty-Niner Ridge; Bone Spring, West

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☒
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐
CLOSED-LOOP SYSTEM ☐
OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐
OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

XTO Energy, Inc requests permission to make the following changes:

- Change BHL from 200'FSL & 990'FEL to 200'FSL & 770'FEL
- Change the drilling program per the attached procedure.

RECEIVED

JUL 08 2019

DISTRICT II-ARTESIA O.C.D.

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Kelly Kardos TITLE Regulatory Coordinator DATE 07/05/19

Type or print name Kelly Kardos E-mail address: kelly_kardos@xtoenergy.com PHONE: 432-620-4374

For State Use Only

APPROVED BY: Karen Sharp TITLE Staff Mgr DATE 7-24-19
Conditions of Approval (if any):

NM STATE DRILLING PERMITTING

Remuda South 25 State 107H

KB 3083		Deepest TVD		10511		KOP		9930		End of Curve		10830		Measured depth		18265
Casing Type	Fluid Type	Mud Weight	Hole Size	Casing Size	Casing Grade	Casing Weight	Top MD	Setting Depth	Lead Cement	Tail Cement	Total Sks Cement	TOC				
Surface	FW/Native	8.3 - 9.0	20	16	H40 STC	64	0	350	90	275	365	0				
1st Intermediate	Brine	9.8 - 10.3	14.75	11.75	H40 STC	42	0	3206	1062	168	1230	0				
2nd Intermediate	FW/Cut Brine	8.7 - 9.7	10.625	8.625	J-55 LTC	32	0	7550	1011	75	1086	0				
Production	Cut Brine/OBM	10.0	7.875	5.5	P110 BTC	20	0	18265	224	1113	1337	7050				

Max Expected Surface Pressure

3153

BOP

Total Vertical Section

7435

10M Double Ram BOP

Test Pressure 10000

Contingencies

1. DV tool may be set in 2nd intermediate between 3256'-3400'
2. 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 and the well is static. With floats holding, no pressure on the csg annulus, and the installation of a 10K TA cap as per GE recommendations, XTO will contact the NMOCD to skid the rig to drill the remaining wells on the pad.



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JUL 08 2019

XTO ENERGY, INC.

DISTRICT II-ARTESIA O.C.D.

Eddy County, NM
Sec 25, T23S, R29E
Remuda South 25 State 107H

Wellbore #1

Plan: Design #1

QES Curve Report

12 June, 2019





Curve Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Remuda South 25 State 107H
Company:	XTO ENERGY, INC.	TVD Reference:	RKB @ 3116.0usft (Nabors M7507)
Project:	Eddy County, NM	MD Reference:	RKB @ 3116.0usft (Nabors M7507)
Site:	Sec 25, T23S, R29E	North Reference:	Grid
Well:	Remuda South 25 State 107H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Project	Eddy County, NM		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Sec 25, T23S, R29E		
Site Position:		Northing:	464,639.90 usft
From:	Map	Easting:	624,200.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 16' 36.381 N
		Longitude:	103° 55' 53.295 W
		Grid Convergence:	0.21 °

Well	Remuda South 25 State 107H		
Well Position	+N/-S	0.2 usft	Northing:
	+E/-W	30.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	
		Latitude:	32° 16' 36.382 N
		Longitude:	103° 55' 52.946 W
		Ground Level:	3,093.0 usft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination
			(°)
	HDGM	6/10/2019	6.95
			Dip Angle
			(°)
			60.02
			Field Strength
			(nT)
			47,924.70000000

Design	Design #1		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth:
			0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			(°)
			180.21

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(usft)	(usft)	Rate	Rate	Rate	(°)	
(usft)			(usft)			(°/100usft)	(°/100usft)	(°/100usft)		
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,420.0	1.20	195.00	3,420.0	-1.2	-0.3	1.00	1.00	0.00	195.00	
9,930.3	1.20	195.00	9,928.9	-132.9	-35.6	0.00	0.00	0.00	0.00	
10,817.5	89.85	176.00	10,490.5	-703.1	0.4	10.00	9.99	-2.14	-19.00	
11,005.0	89.85	179.75	10,491.0	-890.5	7.4	2.00	0.00	2.00	90.00	
11,505.0	89.85	179.75	10,492.3	-1,390.5	9.6	0.00	0.00	0.00	0.00	
11,817.5	89.85	186.00	10,493.1	-1,702.4	-6.1	2.00	0.00	2.00	90.01	
11,942.5	89.85	186.00	10,493.5	-1,826.7	-19.2	0.00	0.00	0.00	0.00	
12,245.2	89.84	179.95	10,494.3	-2,128.9	-34.9	2.00	0.00	-2.00	-90.10	
18,264.5	89.84	179.95	10,511.0	-8,148.1	-29.2	0.00	0.00	0.00	0.00	PBHL - Remuda Sc



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Well:	Remuda South 25 State 107H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
Rustler Anh.									
257.0	0.00	0.00	257.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
Base Rustler Anh.									
342.0	0.00	0.00	342.0	0.0	0.0	0.0	0.00	0.00	0.00
Salado Sh. Lm.									
361.0	0.00	0.00	361.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
Est. Top of Salt									
460.0	0.00	0.00	460.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
Base Salt									
3,069.0	0.00	0.00	3,069.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
Build 1°/100'									
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
Lamar Lm. (Del Mtn Grp.)									
3,317.0	0.17	195.00	3,317.0	0.0	0.0	0.0	1.00	1.00	0.00
Bell Canyon Ss.									
3,338.0	0.38	195.00	3,338.0	-0.1	0.0	0.1	1.00	1.00	0.00
3,400.0	1.00	195.00	3,400.0	-0.8	-0.2	0.8	1.00	1.00	0.00
EOB @ 1.20° Inc. / 195.00° Azm									
3,420.0	1.20	195.00	3,420.0	-1.2	-0.3	1.2	1.00	1.00	0.00
3,500.0	1.20	195.00	3,500.0	-2.8	-0.8	2.8	0.00	0.00	0.00



Curve Report



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Well:	Remuda South 25 State 107H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
3,600.0	1.20	195.00	3,600.0	-4.9	-1.3	4.9	0.00	0.00	0.00
3,700.0	1.20	195.00	3,699.9	-6.9	-1.8	6.9	0.00	0.00	0.00
3,800.0	1.20	195.00	3,799.9	-8.9	-2.4	8.9	0.00	0.00	0.00
3,900.0	1.20	195.00	3,899.9	-10.9	-2.9	10.9	0.00	0.00	0.00
4,000.0	1.20	195.00	3,999.9	-12.9	-3.5	13.0	0.00	0.00	0.00
4,100.0	1.20	195.00	4,099.8	-15.0	-4.0	15.0	0.00	0.00	0.00
4,200.0	1.20	195.00	4,199.8	-17.0	-4.6	17.0	0.00	0.00	0.00
Cherry Canyon Ss.									
4,201.2	1.20	195.00	4,201.0	-17.0	-4.6	17.0	0.00	0.00	0.00
4,300.0	1.20	195.00	4,299.8	-19.0	-5.1	19.0	0.00	0.00	0.00
4,400.0	1.20	195.00	4,399.8	-21.0	-5.6	21.1	0.00	0.00	0.00
4,500.0	1.20	195.00	4,499.8	-23.1	-6.2	23.1	0.00	0.00	0.00
4,600.0	1.20	195.00	4,599.7	-25.1	-6.7	25.1	0.00	0.00	0.00
4,700.0	1.20	195.00	4,699.7	-27.1	-7.3	27.1	0.00	0.00	0.00
4,800.0	1.20	195.00	4,799.7	-29.1	-7.8	29.2	0.00	0.00	0.00
4,900.0	1.20	195.00	4,899.7	-31.2	-8.3	31.2	0.00	0.00	0.00
5,000.0	1.20	195.00	4,999.6	-33.2	-8.9	33.2	0.00	0.00	0.00
5,100.0	1.20	195.00	5,099.6	-35.2	-9.4	35.2	0.00	0.00	0.00
5,200.0	1.20	195.00	5,199.6	-37.2	-10.0	37.3	0.00	0.00	0.00
5,300.0	1.20	195.00	5,299.6	-39.2	-10.5	39.3	0.00	0.00	0.00
5,400.0	1.20	195.00	5,399.6	-41.3	-11.1	41.3	0.00	0.00	0.00
5,500.0	1.20	195.00	5,499.5	-43.3	-11.6	43.3	0.00	0.00	0.00
5,600.0	1.20	195.00	5,599.5	-45.3	-12.1	45.4	0.00	0.00	0.00
5,700.0	1.20	195.00	5,699.5	-47.3	-12.7	47.4	0.00	0.00	0.00
5,800.0	1.20	195.00	5,799.5	-49.4	-13.2	49.4	0.00	0.00	0.00
Brushy Canyon Ss.									
5,810.5	1.20	195.00	5,810.0	-49.6	-13.3	49.6	0.00	0.00	0.00
5,900.0	1.20	195.00	5,899.4	-51.4	-13.8	51.4	0.00	0.00	0.00
6,000.0	1.20	195.00	5,999.4	-53.4	-14.3	53.5	0.00	0.00	0.00
6,100.0	1.20	195.00	6,099.4	-55.4	-14.9	55.5	0.00	0.00	0.00
6,200.0	1.20	195.00	6,199.4	-57.4	-15.4	57.5	0.00	0.00	0.00
6,300.0	1.20	195.00	6,299.4	-59.5	-15.9	59.5	0.00	0.00	0.00
6,400.0	1.20	195.00	6,399.3	-61.5	-16.5	61.6	0.00	0.00	0.00
6,500.0	1.20	195.00	6,499.3	-63.5	-17.0	63.6	0.00	0.00	0.00
6,600.0	1.20	195.00	6,599.3	-65.5	-17.6	65.6	0.00	0.00	0.00
6,700.0	1.20	195.00	6,699.3	-67.6	-18.1	67.6	0.00	0.00	0.00
6,800.0	1.20	195.00	6,799.2	-69.6	-18.6	69.7	0.00	0.00	0.00
Lower Brushy Canyon Ss.									
6,841.8	1.20	195.00	6,841.0	-70.4	-18.9	70.5	0.00	0.00	0.00
6,900.0	1.20	195.00	6,899.2	-71.6	-19.2	71.7	0.00	0.00	0.00
7,000.0	1.20	195.00	6,999.2	-73.6	-19.7	73.7	0.00	0.00	0.00
7,100.0	1.20	195.00	7,099.2	-75.7	-20.3	75.7	0.00	0.00	0.00
Bone Spring Lm.									
7,100.8	1.20	195.00	7,100.0	-75.7	-20.3	75.7	0.00	0.00	0.00
7,200.0	1.20	195.00	7,199.2	-77.7	-20.8	77.8	0.00	0.00	0.00
Avalon Ss.									
7,206.8	1.20	195.00	7,206.0	-77.8	-20.9	77.9	0.00	0.00	0.00
Bone Spg. Upper Avalon Lm.									
7,273.9	1.20	195.00	7,273.0	-79.2	-21.2	79.2	0.00	0.00	0.00
7,300.0	1.20	195.00	7,299.1	-79.7	-21.4	79.8	0.00	0.00	0.00
Bone Spg. Avalon Sh.									
7,357.9	1.20	195.00	7,357.0	-80.9	-21.7	80.9	0.00	0.00	0.00
7,400.0	1.20	195.00	7,399.1	-81.7	-21.9	81.8	0.00	0.00	0.00



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Design:	Design #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,500.0	1.20	195.00	7,499.1	-83.7	-22.4	83.8	0.00	0.00	0.00
Bone Spg. Lower Avalon Lm									
7,568.9	1.20	195.00	7,568.0	-85.1	-22.8	85.2	0.00	0.00	0.00
7,600.0	1.20	195.00	7,599.1	-85.8	-23.0	85.9	0.00	0.00	0.00
7,700.0	1.20	195.00	7,699.1	-87.8	-23.5	87.9	0.00	0.00	0.00
7,800.0	1.20	195.00	7,799.0	-89.8	-24.1	89.9	0.00	0.00	0.00
7,900.0	1.20	195.00	7,899.0	-91.8	-24.6	91.9	0.00	0.00	0.00
8,000.0	1.20	195.00	7,999.0	-93.9	-25.2	94.0	0.00	0.00	0.00
8,100.0	1.20	195.00	8,099.0	-95.9	-25.7	96.0	0.00	0.00	0.00
First Bone Spring Ss.									
8,117.0	1.20	195.00	8,116.0	-96.2	-25.8	96.3	0.00	0.00	0.00
8,200.0	1.20	195.00	8,198.9	-97.9	-26.2	98.0	0.00	0.00	0.00
8,300.0	1.20	195.00	8,298.9	-99.9	-26.8	100.0	0.00	0.00	0.00
8,400.0	1.20	195.00	8,398.9	-102.0	-27.3	102.1	0.00	0.00	0.00
Second Bone Spring Lm.									
8,442.1	1.20	195.00	8,441.0	-102.8	-27.5	102.9	0.00	0.00	0.00
8,500.0	1.20	195.00	8,498.9	-104.0	-27.9	104.1	0.00	0.00	0.00
8,600.0	1.20	195.00	8,598.9	-106.0	-28.4	106.1	0.00	0.00	0.00
8,700.0	1.20	195.00	8,698.8	-108.0	-28.9	108.1	0.00	0.00	0.00
8,800.0	1.20	195.00	8,798.8	-110.0	-29.5	110.1	0.00	0.00	0.00
8,900.0	1.20	195.00	8,898.8	-112.1	-30.0	112.2	0.00	0.00	0.00
Second Bone Spring Ss.									
8,952.2	1.20	195.00	8,951.0	-113.1	-30.3	113.2	0.00	0.00	0.00
9,000.0	1.20	195.00	8,998.8	-114.1	-30.6	114.2	0.00	0.00	0.00
9,100.0	1.20	195.00	9,098.7	-116.1	-31.1	116.2	0.00	0.00	0.00
9,200.0	1.20	195.00	9,198.7	-118.1	-31.7	118.2	0.00	0.00	0.00
Third Bone Spring Lm.									
9,260.3	1.20	195.00	9,259.0	-119.4	-32.0	119.5	0.00	0.00	0.00
9,300.0	1.20	195.00	9,298.7	-120.2	-32.2	120.3	0.00	0.00	0.00
9,400.0	1.20	195.00	9,398.7	-122.2	-32.7	122.3	0.00	0.00	0.00
9,500.0	1.20	195.00	9,498.7	-124.2	-33.3	124.3	0.00	0.00	0.00
9,600.0	1.20	195.00	9,598.6	-126.2	-33.8	126.3	0.00	0.00	0.00
9,700.0	1.20	195.00	9,698.6	-128.3	-34.4	128.4	0.00	0.00	0.00
9,800.0	1.20	195.00	9,798.6	-130.3	-34.9	130.4	0.00	0.00	0.00
9,900.0	1.20	195.00	9,898.6	-132.3	-35.4	132.4	0.00	0.00	0.00
Build 10°/100'									
9,930.3	1.20	195.00	9,928.9	-132.9	-35.6	133.0	0.00	0.00	0.00
9,950.0	3.12	183.18	9,948.5	-133.6	-35.7	133.8	10.00	9.79	-60.17
10,000.0	8.11	178.74	9,998.3	-138.5	-35.7	138.7	10.00	9.97	-8.87
Third Bone Spring Ss.									
10,043.4	12.45	177.77	10,041.0	-146.3	-35.4	146.4	10.00	9.99	-2.24
10,050.0	13.11	177.68	10,047.4	-147.7	-35.4	147.9	10.00	10.00	-1.40
10,100.0	18.10	177.19	10,095.6	-161.2	-34.8	161.3	10.00	10.00	-0.97
10,150.0	23.10	176.92	10,142.4	-178.7	-33.9	178.8	10.00	10.00	-0.56
10,200.0	28.10	176.73	10,187.4	-200.3	-32.7	200.4	10.00	10.00	-0.37
10,250.0	33.10	176.60	10,230.5	-225.7	-31.2	225.8	10.00	10.00	-0.26
10,300.0	38.10	176.50	10,271.1	-254.7	-29.4	254.8	10.00	10.00	-0.20
10,350.0	43.10	176.42	10,309.0	-287.2	-27.4	287.3	10.00	10.00	-0.16
10,400.0	48.10	176.35	10,344.0	-322.8	-25.2	322.9	10.00	10.00	-0.13
Wolfcamp Sh.									
10,434.1	51.51	176.31	10,366.0	-348.8	-23.5	348.9	10.00	10.00	-0.12
10,450.0	53.10	176.29	10,375.7	-361.4	-22.7	361.5	10.00	10.00	-0.11
Wolfcamp X Ss.									



Curve Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Remuda South 25 State 107H
Company:	XTO ENERGY, INC.	TVD Reference:	RKB @ 3116.0usft (Nabors M7507)
Project:	Eddy County, NM	MD Reference:	RKB @ 3116.0usft (Nabors M7507)
Site:	Sec 25, T23S, R29E	North Reference:	Grid
Well:	Remuda South 25 State 107H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,490.7	57.17	176.25	10,399.0	-394.7	-20.5	394.8	10.00	10.00	-0.10
10,500.0	58.10	176.24	10,404.0	-402.5	-20.0	402.6	10.00	10.00	-0.10
10,550.0	63.10	176.20	10,428.5	-446.0	-17.1	446.1	10.00	10.00	-0.09
10,600.0	68.10	176.16	10,449.2	-491.4	-14.1	491.5	10.00	10.00	-0.08
10,650.0	73.10	176.12	10,465.8	-538.5	-10.9	538.5	10.00	10.00	-0.08
Wolfcamp Y Ss.									
10,654.3	73.53	176.11	10,467.0	-542.6	-10.6	542.6	10.00	10.00	-0.07
10,700.0	78.10	176.08	10,478.2	-586.8	-7.6	586.8	10.00	10.00	-0.07
10,750.0	83.10	176.05	10,486.4	-636.0	-4.2	636.0	10.00	10.00	-0.07
10,800.0	88.10	176.01	10,490.2	-685.7	-0.8	685.7	10.00	10.00	-0.07
EOB @ 89.85° Inc. / 176.00° Azm / Turn 2°/100'									
10,817.5	89.85	176.00	10,490.5	-703.1	0.4	703.1	10.00	10.00	-0.07
10,900.0	89.85	177.65	10,490.7	-785.5	5.0	785.5	2.00	0.00	2.00
EOT @ 89.85° Inc. / 179.75° Azm									
11,005.0	89.85	179.75	10,491.0	-890.5	7.4	890.4	2.00	0.00	2.00
11,100.0	89.85	179.75	10,491.3	-985.5	7.8	985.4	0.00	0.00	0.00
11,200.0	89.85	179.75	10,491.5	-1,085.5	8.2	1,085.4	0.00	0.00	0.00
11,300.0	89.85	179.75	10,491.8	-1,185.5	8.7	1,185.4	0.00	0.00	0.00
11,400.0	89.85	179.75	10,492.0	-1,285.5	9.1	1,285.4	0.00	0.00	0.00
Turn 2°/100'									
11,505.0	89.85	179.75	10,492.3	-1,390.5	9.6	1,390.4	0.00	0.00	0.00
11,600.0	89.85	181.65	10,492.6	-1,485.4	8.4	1,485.4	2.00	0.00	2.00
11,700.0	89.85	183.65	10,492.8	-1,585.3	3.8	1,585.3	2.00	0.00	2.00
11,800.0	89.85	185.65	10,493.1	-1,685.0	-4.3	1,685.0	2.00	0.00	2.00
EOT @ 89.85° Inc. / 186.00° Azm									
11,817.5	89.85	186.00	10,493.1	-1,702.4	-6.1	1,702.4	2.00	0.00	2.00
11,900.0	89.85	186.00	10,493.3	-1,784.5	-14.7	1,784.5	0.00	0.00	0.00
Turn 2°/100'									
11,942.5	89.85	186.00	10,493.5	-1,826.7	-19.2	1,826.8	0.00	0.00	0.00
12,000.0	89.85	184.85	10,493.6	-1,884.0	-24.6	1,884.0	2.00	0.00	-2.00
12,100.0	89.84	182.85	10,493.9	-1,983.7	-31.3	1,983.8	2.00	0.00	-2.00
12,200.0	89.84	180.85	10,494.1	-2,083.7	-34.5	2,083.8	2.00	0.00	-2.00
EOT @ 89.84° Inc. / 179.95° Azm									
12,245.2	89.84	179.95	10,494.3	-2,128.9	-34.9	2,129.0	2.00	0.00	-2.00
12,300.0	89.84	179.95	10,494.4	-2,183.7	-34.8	2,183.8	0.00	0.00	0.00
12,400.0	89.84	179.95	10,494.7	-2,283.7	-34.7	2,283.8	0.00	0.00	0.00
12,500.0	89.84	179.95	10,495.0	-2,383.7	-34.6	2,383.8	0.00	0.00	0.00
12,600.0	89.84	179.95	10,495.3	-2,483.7	-34.5	2,483.8	0.00	0.00	0.00
12,700.0	89.84	179.95	10,495.5	-2,583.7	-34.4	2,583.8	0.00	0.00	0.00
12,800.0	89.84	179.95	10,495.8	-2,683.7	-34.3	2,683.8	0.00	0.00	0.00
12,900.0	89.84	179.95	10,496.1	-2,783.7	-34.2	2,783.8	0.00	0.00	0.00
13,000.0	89.84	179.95	10,496.4	-2,883.7	-34.2	2,883.8	0.00	0.00	0.00
13,100.0	89.84	179.95	10,496.6	-2,983.7	-34.1	2,983.8	0.00	0.00	0.00
13,200.0	89.84	179.95	10,496.9	-3,083.7	-34.0	3,083.8	0.00	0.00	0.00
13,300.0	89.84	179.95	10,497.2	-3,183.7	-33.9	3,183.8	0.00	0.00	0.00
13,400.0	89.84	179.95	10,497.5	-3,283.7	-33.8	3,283.8	0.00	0.00	0.00
13,500.0	89.84	179.95	10,497.8	-3,383.7	-33.7	3,383.8	0.00	0.00	0.00
13,600.0	89.84	179.95	10,498.0	-3,483.7	-33.6	3,483.8	0.00	0.00	0.00
13,700.0	89.84	179.95	10,498.3	-3,583.7	-33.5	3,583.8	0.00	0.00	0.00
13,800.0	89.84	179.95	10,498.6	-3,683.7	-33.4	3,683.8	0.00	0.00	0.00
13,900.0	89.84	179.95	10,498.9	-3,783.7	-33.3	3,783.8	0.00	0.00	0.00
14,000.0	89.84	179.95	10,499.2	-3,883.7	-33.2	3,883.8	0.00	0.00	0.00
14,100.0	89.84	179.95	10,499.4	-3,983.7	-33.1	3,983.8	0.00	0.00	0.00



Curve Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Remuda South 25 State 107H
Company:	XTO ENERGY, INC.	TVD Reference:	RKB @ 3116.0usft (Nabors M7507)
Project:	Eddy County, NM	MD Reference:	RKB @ 3116.0usft (Nabors M7507)
Site:	Sec 25, T23S, R29E	North Reference:	Grid
Well:	Remuda South 25 State 107H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
14,200.0	89.84	179.95	10,499.7	-4,083.7	-33.0	4,083.8	0.00	0.00	0.00
14,300.0	89.84	179.95	10,500.0	-4,183.7	-32.9	4,183.8	0.00	0.00	0.00
14,400.0	89.84	179.95	10,500.3	-4,283.7	-32.8	4,283.8	0.00	0.00	0.00
14,500.0	89.84	179.95	10,500.5	-4,383.7	-32.7	4,383.8	0.00	0.00	0.00
14,600.0	89.84	179.95	10,500.8	-4,483.7	-32.6	4,483.8	0.00	0.00	0.00
14,700.0	89.84	179.95	10,501.1	-4,583.7	-32.6	4,583.8	0.00	0.00	0.00
14,800.0	89.84	179.95	10,501.4	-4,683.7	-32.5	4,683.7	0.00	0.00	0.00
14,900.0	89.84	179.95	10,501.7	-4,783.7	-32.4	4,783.7	0.00	0.00	0.00
15,000.0	89.84	179.95	10,501.9	-4,883.7	-32.3	4,883.7	0.00	0.00	0.00
15,100.0	89.84	179.95	10,502.2	-4,983.7	-32.2	4,983.7	0.00	0.00	0.00
15,200.0	89.84	179.95	10,502.5	-5,083.7	-32.1	5,083.7	0.00	0.00	0.00
15,300.0	89.84	179.95	10,502.8	-5,183.7	-32.0	5,183.7	0.00	0.00	0.00
15,400.0	89.84	179.95	10,503.0	-5,283.7	-31.9	5,283.7	0.00	0.00	0.00
15,500.0	89.84	179.95	10,503.3	-5,383.7	-31.8	5,383.7	0.00	0.00	0.00
15,600.0	89.84	179.95	10,503.6	-5,483.7	-31.7	5,483.7	0.00	0.00	0.00
15,700.0	89.84	179.95	10,503.9	-5,583.7	-31.6	5,583.7	0.00	0.00	0.00
15,800.0	89.84	179.95	10,504.2	-5,683.7	-31.5	5,683.7	0.00	0.00	0.00
15,900.0	89.84	179.95	10,504.4	-5,783.7	-31.4	5,783.7	0.00	0.00	0.00
16,000.0	89.84	179.95	10,504.7	-5,883.7	-31.3	5,883.7	0.00	0.00	0.00
16,100.0	89.84	179.95	10,505.0	-5,983.7	-31.2	5,983.7	0.00	0.00	0.00
16,200.0	89.84	179.95	10,505.3	-6,083.7	-31.1	6,083.7	0.00	0.00	0.00
16,300.0	89.84	179.95	10,505.5	-6,183.7	-31.0	6,183.7	0.00	0.00	0.00
16,400.0	89.84	179.95	10,505.8	-6,283.7	-31.0	6,283.7	0.00	0.00	0.00
16,500.0	89.84	179.95	10,506.1	-6,383.7	-30.9	6,383.7	0.00	0.00	0.00
16,600.0	89.84	179.95	10,506.4	-6,483.7	-30.8	6,483.7	0.00	0.00	0.00
16,700.0	89.84	179.95	10,506.7	-6,583.7	-30.7	6,583.7	0.00	0.00	0.00
16,800.0	89.84	179.95	10,506.9	-6,683.7	-30.6	6,683.7	0.00	0.00	0.00
Wolfcamp A Sh.									
16,824.9	89.84	179.95	10,507.0	-6,708.6	-30.6	6,708.6	0.00	0.00	0.00
16,900.0	89.84	179.95	10,507.2	-6,783.7	-30.5	6,783.7	0.00	0.00	0.00
17,000.0	89.84	179.95	10,507.5	-6,883.7	-30.4	6,883.7	0.00	0.00	0.00
17,100.0	89.84	179.95	10,507.8	-6,983.7	-30.3	6,983.7	0.00	0.00	0.00
17,200.0	89.84	179.95	10,508.0	-7,083.7	-30.2	7,083.7	0.00	0.00	0.00
17,300.0	89.84	179.95	10,508.3	-7,183.7	-30.1	7,183.7	0.00	0.00	0.00
17,400.0	89.84	179.95	10,508.6	-7,283.7	-30.0	7,283.7	0.00	0.00	0.00
17,500.0	89.84	179.95	10,508.9	-7,383.7	-29.9	7,383.7	0.00	0.00	0.00
17,600.0	89.84	179.95	10,509.2	-7,483.7	-29.8	7,483.7	0.00	0.00	0.00
17,700.0	89.84	179.95	10,509.4	-7,583.7	-29.7	7,583.7	0.00	0.00	0.00
17,800.0	89.84	179.95	10,509.7	-7,683.6	-29.6	7,683.7	0.00	0.00	0.00
17,900.0	89.84	179.95	10,510.0	-7,783.6	-29.5	7,783.7	0.00	0.00	0.00
18,000.0	89.84	179.95	10,510.3	-7,883.6	-29.4	7,883.7	0.00	0.00	0.00
18,100.0	89.84	179.95	10,510.5	-7,983.6	-29.4	7,983.7	0.00	0.00	0.00
18,200.0	89.84	179.95	10,510.8	-8,083.6	-29.3	8,083.7	0.00	0.00	0.00
TD @ 18264.5' MD / 10511.0' TVD									
18,264.5	89.84	179.95	10,511.0	-8,148.1	-29.2	8,148.2	0.00	0.00	0.00



Curve Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Remuda South 25 State 107H
Company:	XTO ENERGY, INC.	TVD Reference:	RKB @ 3116.0usft (Nabors M7507)
Project:	Eddy County, NM	MD Reference:	RKB @ 3116.0usft (Nabors M7507)
Site:	Sec 25, T23S, R29E	North Reference:	Grid
Well:	Remuda South 25 State 107H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Design Targets

Target Name

- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
FTP - Remuda South	0.00	0.00	10,491.0	-710.4	-62.3	463,929.70	624,167.70	32° 16' 29.354 N	103° 55' 53.703 W
- plan misses target center by 63.1usft at 10821.3usft MD (10490.5 TVD, -706.9 N, 0.7 E)									
- Point									
PBHL - Remuda Sout	0.00	0.00	10,511.0	-8,148.1	-29.2	456,492.00	624,200.80	32° 15' 15.749 N	103° 55' 53.641 W
- plan hits target center									
- Point									
LTP - Remuda South	0.00	0.00	10,511.0	-8,018.1	-29.8	456,622.00	624,200.20	32° 15' 17.035 N	103° 55' 53.643 W
- plan misses target center by 0.6usft at 18134.5usft MD (10510.6 TVD, -8018.1 N, -29.3 E)									
- Point									

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
257.0	257.0	Rustler Anh.		0.00	
342.0	342.0	Base Rustler Anh.		0.00	
361.0	361.0	Salado Sh. Lm.		0.00	
460.0	460.0	Est. Top of Salt		0.00	
3,069.0	3,069.0	Base Salt		0.00	
3,317.0	3,317.0	Lamar Lm. (Del Mtn Grp.)		0.00	
3,338.0	3,338.0	Bell Canyon Ss.		0.00	
4,201.2	4,201.0	Cherry Canyon Ss.		0.00	
5,810.5	5,810.0	Brushy Canyon Ss.		0.00	
6,841.8	6,841.0	Lower Brushy Canyon Ss.		0.00	
7,100.8	7,100.0	Bone Spring Lm.		0.00	
7,206.8	7,206.0	Avalon Ss.		0.00	
7,273.9	7,273.0	Bone Spg. Upper Avalon Lm.		0.00	
7,357.9	7,357.0	Bone Spg. Avalon Sh.		0.00	
7,568.9	7,568.0	Bone Spg. Lower Avalon Lm		0.00	
8,117.0	8,116.0	First Bone Spring Ss.		0.00	
8,442.1	8,441.0	Second Bone Spring Lm.		0.00	
8,952.2	8,951.0	Second Bone Spring Ss.		0.00	
9,260.3	9,259.0	Third Bone Spring Lm.		0.00	
10,043.4	10,041.0	Third Bone Spring Ss.		0.00	
10,434.1	10,366.0	Wolfcamp Sh.		0.00	
10,490.7	10,399.0	Wolfcamp X Ss.		0.00	
10,654.3	10,467.0	Wolfcamp Y Ss.		0.00	
16,824.9	10,507.0	Wolfcamp A Sh.		0.00	



Curve Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Remuda South 25 State 107H
Company:	XTO ENERGY, INC.	TVD Reference:	RKB @ 3116.0usft (Nabors M7507)
Project:	Eddy County, NM	MD Reference:	RKB @ 3116.0usft (Nabors M7507)
Site:	Sec 25, T23S, R29E	North Reference:	Grid
Well:	Remuda South 25 State 107H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
3,300.0	3,300.0	0.0	0.0	Build 1°/100'
3,420.0	3,420.0	-1.2	-0.3	EOB @ 1.20° Inc. / 195.00° Azm
9,930.3	9,928.9	-132.9	-35.6	Build 10°/100'
10,817.5	10,490.5	-703.1	0.4	EOB @ 89.85° Inc. / 176.00° Azm / Turn 2°/100'
11,005.0	10,491.0	-890.5	7.4	EOT @ 89.85° Inc. / 179.75° Azm
11,505.0	10,492.3	-1,390.5	9.6	Turn 2°/100'
11,817.5	10,493.1	-1,702.4	-6.1	EOT @ 89.85° Inc. / 186.00° Azm
11,942.5	10,493.5	-1,826.7	-19.2	Turn 2°/100'
12,245.2	10,494.3	-2,128.9	-34.9	EOT @ 89.84° Inc. / 179.95° Azm
18,264.5	10,511.0	-8,148.1	-29.2	TD @ 18264.5' MD / 10511.0' TVD