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XTO ENERGY, INC.

Eddy County, NM
Sec 25, T23S, R29E
Remuda South 25 State 908H

Wellbore #1

Plan: Design #1

QES Well Planning Report

12 June, 2019





Well Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Remuda South 25 State 908H
Company:	XTO ENERGY, INC.	TVD Reference:	RKB @ 3118.0usft (Nabors M7507)
Project:	Eddy County, NM	MD Reference:	RKB @ 3118.0usft (Nabors M7507)
Site:	Sec 25, T23S, R29E	North Reference:	Grid
Well:	Remuda South 25 State 908H	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 908H		
Well Position	+N/-S	0.2 usft	Northing:
	+E/-W	90.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	Ground Level:

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination
			(°)
	HDGM	6/10/2019	6.95
			Dip Angle
			(°)
			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
			(°)
			177.53

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	
3,625.0	3.25	114.00	3,624.8	-3.7	8.4	1.00	1.00	0.00	114.00	
9,787.1	3.25	114.00	9,777.0	-145.8	327.6	0.00	0.00	0.00	0.00	
10,672.4	89.85	179.94	10,336.0	-717.1	357.1	10.00	9.78	7.45	65.98	
10,730.4	89.85	181.10	10,336.2	-775.1	356.5	2.00	0.00	2.00	90.00	
12,014.9	89.85	179.94	10,339.6	-2,059.6	344.8	0.09	0.00	-0.09	-90.23	
18,102.5	89.85	179.94	10,356.0	-8,147.1	350.8	0.00	0.00	0.00	0.00	PBHL - Remuda Sc



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Wellbore:	Wellbore #1		
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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	114.00	3,317.0	0.0	0.0	0.0	1.00	1.00	0.00
Bell Canyon Ss.									
3,338.0	0.38	114.00	3,338.0	-0.1	0.1	0.1	1.00	1.00	0.00
3,400.0	1.00	114.00	3,400.0	-0.4	0.8	0.4	1.00	1.00	0.00
3,500.0	2.00	114.00	3,500.0	-1.4	3.2	1.6	1.00	1.00	0.00
3,600.0	3.00	114.00	3,599.9	-3.2	7.2	3.5	1.00	1.00	0.00
EOB @ 3.25° Inc. / 114.00° Azm									



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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)
3,625.0	3.25	114.00	3,624.8	-3.7	8.4	4.1	1.00	1.00	0.00
3,700.0	3.25	114.00	3,699.7	-5.5	12.3	6.0	0.00	0.00	0.00
3,800.0	3.25	114.00	3,799.5	-7.8	17.5	8.5	0.00	0.00	0.00
3,900.0	3.25	114.00	3,899.4	-10.1	22.7	11.1	0.00	0.00	0.00
4,000.0	3.25	114.00	3,999.2	-12.4	27.8	13.6	0.00	0.00	0.00
4,100.0	3.25	114.00	4,099.1	-14.7	33.0	16.1	0.00	0.00	0.00
4,200.0	3.25	114.00	4,198.9	-17.0	38.2	18.6	0.00	0.00	0.00
Cherry Canyon Ss.									
4,202.1	3.25	114.00	4,201.0	-17.1	38.3	18.7	0.00	0.00	0.00
4,300.0	3.25	114.00	4,298.7	-19.3	43.4	21.2	0.00	0.00	0.00
4,400.0	3.25	114.00	4,398.6	-21.6	48.6	23.7	0.00	0.00	0.00
4,500.0	3.25	114.00	4,498.4	-23.9	53.7	26.2	0.00	0.00	0.00
4,600.0	3.25	114.00	4,598.3	-26.2	58.9	28.7	0.00	0.00	0.00
4,700.0	3.25	114.00	4,698.1	-28.5	64.1	31.3	0.00	0.00	0.00
4,800.0	3.25	114.00	4,797.9	-30.8	69.3	33.8	0.00	0.00	0.00
4,900.0	3.25	114.00	4,897.8	-33.1	74.5	36.3	0.00	0.00	0.00
5,000.0	3.25	114.00	4,997.6	-35.5	79.6	38.8	0.00	0.00	0.00
5,100.0	3.25	114.00	5,097.5	-37.8	84.8	41.4	0.00	0.00	0.00
5,200.0	3.25	114.00	5,197.3	-40.1	90.0	43.9	0.00	0.00	0.00
5,300.0	3.25	114.00	5,297.1	-42.4	95.2	46.4	0.00	0.00	0.00
5,400.0	3.25	114.00	5,397.0	-44.7	100.3	49.0	0.00	0.00	0.00
5,500.0	3.25	114.00	5,496.8	-47.0	105.5	51.5	0.00	0.00	0.00
5,600.0	3.25	114.00	5,596.6	-49.3	110.7	54.0	0.00	0.00	0.00
5,700.0	3.25	114.00	5,696.5	-51.6	115.9	56.5	0.00	0.00	0.00
5,800.0	3.25	114.00	5,796.3	-53.9	121.1	59.1	0.00	0.00	0.00
Brushy Canyon Ss.									
5,813.7	3.25	114.00	5,810.0	-54.2	121.8	59.4	0.00	0.00	0.00
5,900.0	3.25	114.00	5,896.2	-56.2	126.2	61.6	0.00	0.00	0.00
6,000.0	3.25	114.00	5,996.0	-58.5	131.4	64.1	0.00	0.00	0.00
6,100.0	3.25	114.00	6,095.8	-60.8	136.6	66.6	0.00	0.00	0.00
6,200.0	3.25	114.00	6,195.7	-63.1	141.8	69.2	0.00	0.00	0.00
6,300.0	3.25	114.00	6,295.5	-65.4	147.0	71.7	0.00	0.00	0.00
6,400.0	3.25	114.00	6,395.4	-67.7	152.1	74.2	0.00	0.00	0.00
6,500.0	3.25	114.00	6,495.2	-70.0	157.3	76.7	0.00	0.00	0.00
6,600.0	3.25	114.00	6,595.0	-72.3	162.5	79.3	0.00	0.00	0.00
6,700.0	3.25	114.00	6,694.9	-74.7	167.7	81.8	0.00	0.00	0.00
6,800.0	3.25	114.00	6,794.7	-77.0	172.9	84.3	0.00	0.00	0.00
Lower Brushy Canyon Ss.									
6,846.4	3.25	114.00	6,841.0	-78.0	175.3	85.5	0.00	0.00	0.00
6,900.0	3.25	114.00	6,894.6	-79.3	178.0	86.9	0.00	0.00	0.00
7,000.0	3.25	114.00	6,994.4	-81.6	183.2	89.4	0.00	0.00	0.00
7,100.0	3.25	114.00	7,094.2	-83.9	188.4	91.9	0.00	0.00	0.00
Bone Spring Lm.									
7,105.8	3.25	114.00	7,100.0	-84.0	188.7	92.1	0.00	0.00	0.00
7,200.0	3.25	114.00	7,194.1	-86.2	193.6	94.4	0.00	0.00	0.00
Avalon Ss.									
7,211.9	3.25	114.00	7,206.0	-86.5	194.2	94.7	0.00	0.00	0.00
Bone Spg. Upper Avalon Lm.									
7,279.1	3.25	114.00	7,273.0	-88.0	197.7	96.4	0.00	0.00	0.00
7,300.0	3.25	114.00	7,293.9	-88.5	198.8	97.0	0.00	0.00	0.00
Bone Spg. Avalon Sh.									
7,363.2	3.25	114.00	7,357.0	-89.9	202.0	98.6	0.00	0.00	0.00
7,400.0	3.25	114.00	7,393.8	-90.8	203.9	99.5	0.00	0.00	0.00



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7,500.0	3.25	114.00	7,493.6	-93.1	209.1	102.0	0.00	0.00	0.00
Bone Spg. Lower Avalon Lm									
7,574.5	3.25	114.00	7,568.0	-94.8	213.0	103.9	0.00	0.00	0.00
7,600.0	3.25	114.00	7,593.4	-95.4	214.3	104.5	0.00	0.00	0.00
7,700.0	3.25	114.00	7,693.3	-97.7	219.5	107.1	0.00	0.00	0.00
7,800.0	3.25	114.00	7,793.1	-100.0	224.6	109.6	0.00	0.00	0.00
7,900.0	3.25	114.00	7,893.0	-102.3	229.8	112.1	0.00	0.00	0.00
8,000.0	3.25	114.00	7,992.8	-104.6	235.0	114.6	0.00	0.00	0.00
8,100.0	3.25	114.00	8,092.6	-106.9	240.2	117.2	0.00	0.00	0.00
First Bone Spring Ss.									
8,123.4	3.25	114.00	8,116.0	-107.5	241.4	117.8	0.00	0.00	0.00
8,200.0	3.25	114.00	8,192.5	-109.2	245.4	119.7	0.00	0.00	0.00
8,300.0	3.25	114.00	8,292.3	-111.5	250.5	122.2	0.00	0.00	0.00
8,400.0	3.25	114.00	8,392.1	-113.9	255.7	124.8	0.00	0.00	0.00
Second Bone Spring Lm.									
8,448.9	3.25	114.00	8,441.0	-115.0	258.3	126.0	0.00	0.00	0.00
8,500.0	3.25	114.00	8,492.0	-116.2	260.9	127.3	0.00	0.00	0.00
8,600.0	3.25	114.00	8,591.8	-118.5	266.1	129.8	0.00	0.00	0.00
8,700.0	3.25	114.00	8,691.7	-120.8	271.3	132.3	0.00	0.00	0.00
8,800.0	3.25	114.00	8,791.5	-123.1	276.4	134.9	0.00	0.00	0.00
8,900.0	3.25	114.00	8,891.3	-125.4	281.6	137.4	0.00	0.00	0.00
Second Bone Spring Ss.									
8,959.8	3.25	114.00	8,951.0	-126.8	284.7	138.9	0.00	0.00	0.00
9,000.0	3.25	114.00	8,991.2	-127.7	286.8	139.9	0.00	0.00	0.00
9,100.0	3.25	114.00	9,091.0	-130.0	292.0	142.4	0.00	0.00	0.00
9,200.0	3.25	114.00	9,190.9	-132.3	297.2	145.0	0.00	0.00	0.00
Third Bone Spring Lm.									
9,268.3	3.25	114.00	9,259.0	-133.9	300.7	146.7	0.00	0.00	0.00
9,300.0	3.25	114.00	9,290.7	-134.6	302.3	147.5	0.00	0.00	0.00
9,400.0	3.25	114.00	9,390.5	-136.9	307.5	150.0	0.00	0.00	0.00
9,500.0	3.25	114.00	9,490.4	-139.2	312.7	152.5	0.00	0.00	0.00
9,600.0	3.25	114.00	9,590.2	-141.5	317.9	155.1	0.00	0.00	0.00
9,700.0	3.25	114.00	9,690.1	-143.8	323.1	157.6	0.00	0.00	0.00
Build 10°/100'									
9,787.1	3.25	114.00	9,777.0	-145.8	327.6	159.8	0.00	0.00	0.00
9,800.0	3.95	131.33	9,789.9	-146.3	328.2	160.3	10.00	5.46	134.52
9,850.0	8.17	158.77	9,839.6	-150.7	330.8	164.8	10.00	8.43	54.88
9,900.0	12.95	166.92	9,888.7	-159.5	333.4	173.7	10.00	9.57	16.30
9,950.0	17.85	170.68	9,936.9	-172.5	335.9	186.8	10.00	9.80	7.53
10,000.0	22.80	172.86	9,983.8	-189.7	338.3	204.1	10.00	9.89	4.36
10,050.0	27.76	174.29	10,029.0	-210.9	340.7	225.4	10.00	9.93	2.87
Third Bone Spring Ss.									
10,063.6	29.11	174.61	10,041.0	-217.4	341.3	231.9	10.00	9.94	2.28
10,100.0	32.73	175.32	10,072.2	-236.0	343.0	250.5	10.00	9.95	1.97
10,150.0	37.71	176.10	10,113.0	-264.8	345.1	279.4	10.00	9.96	1.56
10,200.0	42.70	176.73	10,151.2	-297.0	347.1	311.6	10.00	9.97	1.25
10,250.0	47.68	177.24	10,186.4	-332.4	349.0	347.1	10.00	9.97	1.03
10,300.0	52.67	177.68	10,218.4	-370.7	350.7	385.5	10.00	9.98	0.88
10,350.0	57.66	178.07	10,247.0	-411.7	352.2	426.5	10.00	9.98	0.77
10,400.0	62.65	178.41	10,271.9	-455.1	353.5	469.8	10.00	9.98	0.69
10,450.0	67.64	178.73	10,292.9	-500.4	354.6	515.2	10.00	9.98	0.63
10,500.0	72.64	179.02	10,309.9	-547.4	355.6	562.2	10.00	9.98	0.59
10,550.0	77.63	179.30	10,322.7	-595.7	356.3	610.5	10.00	9.99	0.55



Well Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Remuda South 25 State 908H
Company:	XTO ENERGY, INC.	TVD Reference:	RKB @ 3118.0usft (Nabors M7507)
Project:	Eddy County, NM	MD Reference:	RKB @ 3118.0usft (Nabors M7507)
Site:	Sec 25, T23S, R29E	North Reference:	Grid
Well:	Remuda South 25 State 908H	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)
10,600.0	82.62	179.56	10,331.3	-644.9	356.8	659.7	10.00	9.99	0.53
10,650.0	87.62	179.82	10,335.5	-694.7	357.0	709.5	10.00	9.99	0.52
EOB @ 89.85° Inc. / 179.94° Azm / Turn 2°/100'									
10,672.4	89.85	179.94	10,336.0	-717.1	357.1	731.8	10.00	9.99	0.52
10,700.0	89.85	180.49	10,336.1	-744.7	357.0	759.4	2.00	0.00	2.00
EOT @ 89.85° Inc. / 181.10° Azm / Turn .09°/100'									
10,730.4	89.85	181.10	10,336.2	-775.1	356.5	789.7	2.00	0.00	2.00
10,800.0	89.85	181.04	10,336.3	-844.7	355.2	859.2	0.09	0.00	-0.09
10,900.0	89.85	180.95	10,336.6	-944.7	353.5	959.0	0.09	0.00	-0.09
11,000.0	89.85	180.86	10,336.9	-1,044.7	351.9	1,058.9	0.09	0.00	-0.09
11,100.0	89.85	180.77	10,337.1	-1,144.7	350.5	1,158.7	0.09	0.00	-0.09
11,200.0	89.85	180.68	10,337.4	-1,244.7	349.3	1,258.5	0.09	0.00	-0.09
11,300.0	89.85	180.59	10,337.7	-1,344.7	348.2	1,358.4	0.09	0.00	-0.09
11,400.0	89.85	180.50	10,337.9	-1,444.7	347.2	1,458.3	0.09	0.00	-0.09
11,500.0	89.85	180.41	10,338.2	-1,544.7	346.4	1,558.1	0.09	0.00	-0.09
11,600.0	89.85	180.32	10,338.5	-1,644.7	345.8	1,658.0	0.09	0.00	-0.09
11,700.0	89.85	180.23	10,338.7	-1,744.7	345.3	1,757.9	0.09	0.00	-0.09
11,800.0	89.85	180.14	10,339.0	-1,844.7	345.0	1,857.8	0.09	0.00	-0.09
11,900.0	89.85	180.05	10,339.3	-1,944.7	344.8	1,957.7	0.09	0.00	-0.09
12,000.0	89.85	179.96	10,339.5	-2,044.7	344.8	2,057.6	0.09	0.00	-0.09
EOT @ 89.85° Inc. / 179.94° Azm									
12,014.9	89.85	179.94	10,339.6	-2,059.6	344.8	2,072.5	0.09	0.00	-0.09
12,100.0	89.85	179.94	10,339.8	-2,144.7	344.9	2,157.5	0.00	0.00	0.00
12,200.0	89.85	179.94	10,340.1	-2,244.7	345.0	2,257.4	0.00	0.00	0.00
12,300.0	89.85	179.94	10,340.3	-2,344.7	345.1	2,357.3	0.00	0.00	0.00
12,400.0	89.85	179.94	10,340.6	-2,444.7	345.2	2,457.2	0.00	0.00	0.00
12,500.0	89.85	179.94	10,340.9	-2,544.7	345.3	2,557.2	0.00	0.00	0.00
12,600.0	89.85	179.94	10,341.1	-2,644.7	345.4	2,657.1	0.00	0.00	0.00
12,700.0	89.85	179.94	10,341.4	-2,744.7	345.5	2,757.0	0.00	0.00	0.00
12,800.0	89.85	179.94	10,341.7	-2,844.7	345.6	2,856.9	0.00	0.00	0.00
12,900.0	89.85	179.94	10,342.0	-2,944.7	345.7	2,956.8	0.00	0.00	0.00
13,000.0	89.85	179.94	10,342.2	-3,044.7	345.8	3,056.7	0.00	0.00	0.00
13,100.0	89.85	179.94	10,342.5	-3,144.7	345.9	3,156.6	0.00	0.00	0.00
13,200.0	89.85	179.94	10,342.8	-3,244.7	346.0	3,256.5	0.00	0.00	0.00
13,300.0	89.85	179.94	10,343.0	-3,344.7	346.1	3,356.4	0.00	0.00	0.00
13,400.0	89.85	179.94	10,343.3	-3,444.6	346.2	3,456.4	0.00	0.00	0.00
13,500.0	89.85	179.94	10,343.6	-3,544.6	346.3	3,556.3	0.00	0.00	0.00
13,600.0	89.85	179.94	10,343.8	-3,644.6	346.4	3,656.2	0.00	0.00	0.00
13,700.0	89.85	179.94	10,344.1	-3,744.6	346.5	3,756.1	0.00	0.00	0.00
13,800.0	89.85	179.94	10,344.4	-3,844.6	346.6	3,856.0	0.00	0.00	0.00
13,900.0	89.85	179.94	10,344.7	-3,944.6	346.7	3,955.9	0.00	0.00	0.00
14,000.0	89.85	179.94	10,344.9	-4,044.6	346.8	4,055.8	0.00	0.00	0.00
14,100.0	89.85	179.94	10,345.2	-4,144.6	346.9	4,155.7	0.00	0.00	0.00
14,200.0	89.85	179.94	10,345.5	-4,244.6	347.0	4,255.6	0.00	0.00	0.00
14,300.0	89.85	179.94	10,345.7	-4,344.6	347.1	4,355.6	0.00	0.00	0.00
14,400.0	89.85	179.94	10,346.0	-4,444.6	347.2	4,455.5	0.00	0.00	0.00
14,500.0	89.85	179.94	10,346.3	-4,544.6	347.3	4,555.4	0.00	0.00	0.00
14,600.0	89.85	179.94	10,346.5	-4,644.6	347.4	4,655.3	0.00	0.00	0.00
14,700.0	89.85	179.94	10,346.8	-4,744.6	347.5	4,755.2	0.00	0.00	0.00
14,800.0	89.85	179.94	10,347.1	-4,844.6	347.6	4,855.1	0.00	0.00	0.00
14,900.0	89.85	179.94	10,347.4	-4,944.6	347.7	4,955.0	0.00	0.00	0.00
15,000.0	89.85	179.94	10,347.6	-5,044.6	347.8	5,054.9	0.00	0.00	0.00
15,100.0	89.85	179.94	10,347.9	-5,144.6	347.9	5,154.8	0.00	0.00	0.00



Well Planning Report



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Company:	XTO ENERGY, INC.	TVD Reference:	RKB @ 3118.0usft (Nabors M7507)
Project:	Eddy County, NM	MD Reference:	RKB @ 3118.0usft (Nabors M7507)
Site:	Sec 25, T23S, R29E	North Reference:	Grid
Well:	Remuda South 25 State 908H	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)
15,200.0	89.85	179.94	10,348.2	-5,244.6	348.0	5,254.8	0.00	0.00	0.00
15,300.0	89.85	179.94	10,348.4	-5,344.6	348.1	5,354.7	0.00	0.00	0.00
15,400.0	89.85	179.94	10,348.7	-5,444.6	348.2	5,454.6	0.00	0.00	0.00
15,500.0	89.85	179.94	10,349.0	-5,544.6	348.3	5,554.5	0.00	0.00	0.00
15,600.0	89.85	179.94	10,349.2	-5,644.6	348.4	5,654.4	0.00	0.00	0.00
15,700.0	89.85	179.94	10,349.5	-5,744.6	348.4	5,754.3	0.00	0.00	0.00
15,800.0	89.85	179.94	10,349.8	-5,844.6	348.5	5,854.2	0.00	0.00	0.00
15,900.0	89.85	179.94	10,350.1	-5,944.6	348.6	5,954.1	0.00	0.00	0.00
16,000.0	89.85	179.94	10,350.3	-6,044.6	348.7	6,054.0	0.00	0.00	0.00
16,100.0	89.85	179.94	10,350.6	-6,144.6	348.8	6,154.0	0.00	0.00	0.00
16,200.0	89.85	179.94	10,350.9	-6,244.6	348.9	6,253.9	0.00	0.00	0.00
16,300.0	89.85	179.94	10,351.1	-6,344.6	349.0	6,353.8	0.00	0.00	0.00
16,400.0	89.85	179.94	10,351.4	-6,444.6	349.1	6,453.7	0.00	0.00	0.00
16,500.0	89.85	179.94	10,351.7	-6,544.6	349.2	6,553.6	0.00	0.00	0.00
16,600.0	89.85	179.94	10,351.9	-6,644.6	349.3	6,653.5	0.00	0.00	0.00
16,700.0	89.85	179.94	10,352.2	-6,744.6	349.4	6,753.4	0.00	0.00	0.00
16,800.0	89.85	179.94	10,352.5	-6,844.6	349.5	6,853.3	0.00	0.00	0.00
16,900.0	89.85	179.94	10,352.8	-6,944.6	349.6	6,953.2	0.00	0.00	0.00
17,000.0	89.85	179.94	10,353.0	-7,044.6	349.7	7,053.2	0.00	0.00	0.00
17,100.0	89.85	179.94	10,353.3	-7,144.6	349.8	7,153.1	0.00	0.00	0.00
17,200.0	89.85	179.94	10,353.6	-7,244.6	349.9	7,253.0	0.00	0.00	0.00
17,300.0	89.85	179.94	10,353.8	-7,344.6	350.0	7,352.9	0.00	0.00	0.00
17,400.0	89.85	179.94	10,354.1	-7,444.6	350.1	7,452.8	0.00	0.00	0.00
17,500.0	89.85	179.94	10,354.4	-7,544.6	350.2	7,552.7	0.00	0.00	0.00
17,600.0	89.85	179.94	10,354.6	-7,644.6	350.3	7,652.6	0.00	0.00	0.00
17,700.0	89.85	179.94	10,354.9	-7,744.6	350.4	7,752.5	0.00	0.00	0.00
17,800.0	89.85	179.94	10,355.2	-7,844.6	350.5	7,852.4	0.00	0.00	0.00
17,900.0	89.85	179.94	10,355.5	-7,944.6	350.6	7,952.4	0.00	0.00	0.00
18,000.0	89.85	179.94	10,355.7	-8,044.6	350.7	8,052.3	0.00	0.00	0.00
TD @ 18102.5' MD / 10356.0' TVD									
18,102.5	89.85	179.94	10,356.0	-8,147.1	350.8	8,154.6	0.00	0.00	0.00

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP - Remuda South	0.00	0.00	10,336.0	-710.9	317.7	463,929.20	624,607.70	32° 16' 29.333 N	103° 55' 48.578 W
- plan misses target center by 39.4usft at 10666.1usft MD (10335.9 TVD, -710.8 N, 357.1 E)									
- Point									
PBHL - Remuda Sout	0.00	0.01	10,356.0	-8,147.1	350.8	456,493.00	624,640.80	32° 15' 15.742 N	103° 55' 48.517 W
- plan hits target center									
- Point									
LTP - Remuda South	0.00	0.00	10,356.0	-8,017.1	350.2	456,623.00	624,640.20	32° 15' 17.029 N	103° 55' 48.519 W
- plan misses target center by 0.6usft at 17972.5usft MD (10355.6 TVD, -8017.1 N, 350.7 E)									
- Point									



Well Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Remuda South 25 State 908H
Company:	XTO ENERGY, INC.	TVD Reference:	RKB @ 3118.0usft (Nabors M7507)
Project:	Eddy County, NM	MD Reference:	RKB @ 3118.0usft (Nabors M7507)
Site:	Sec 25, T23S, R29E	North Reference:	Grid
Well:	Remuda South 25 State 908H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
257.0	257.0	Rustler Anh.			
342.0	342.0	Base Rustler Anh.			
361.0	361.0	Salado Sh. Lm.			
460.0	460.0	Est. Top of Salt			
3,069.0	3,069.0	Base Salt			
3,317.0	3,317.0	Lamar Lm. (Del Mtn Grp.)			
3,338.0	3,338.0	Bell Canyon Ss.			
4,202.1	4,201.0	Cherry Canyon Ss.			
5,813.7	5,810.0	Brushy Canyon Ss.			
6,846.4	6,841.0	Lower Brushy Canyon Ss.			
7,105.8	7,100.0	Bone Spring Lm.			
7,211.9	7,206.0	Avalon Ss.			
7,279.1	7,273.0	Bone Spg. Upper Avalon Lm.			
7,363.2	7,357.0	Bone Spg. Avalon Sh.			
7,574.5	7,568.0	Bone Spg. Lower Avalon Lm			
8,123.4	8,116.0	First Bone Spring Ss.			
8,448.9	8,441.0	Second Bone Spring Lm.			
8,959.8	8,951.0	Second Bone Spring Ss.			
9,268.3	9,259.0	Third Bone Spring Lm.			
10,063.6	10,041.0	Third Bone Spring Ss.			

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'
3,625.0	3,624.8	-3.7	8.4	EOB @ 3.25° Inc. / 114.00° Azm
9,787.1	9,777.0	-145.8	327.6	Build 10°/100'
10,672.4	10,336.0	-717.1	357.1	EOB @ 89.85° Inc. / 179.94° Azm / Turn 2°/100'
10,730.4	10,336.2	-775.1	356.5	EOT @ 89.85° Inc. / 181.10° Azm / Turn .09°/100'
12,014.9	10,339.6	-2,059.6	344.8	EOT @ 89.85° Inc. / 179.94° Azm
18,102.5	10,356.0	-8,147.1	350.8	TD @ 18102.5' MD / 10356.0' TVD