



XTO Energy

**Eddy County, NM (NAD-27)
Remuda North 25 State
#127H**

OH

Plan: PERMIT

Standard Planning Report

20 May, 2019

RECEIVED

JUN 06 2019

DISTRICT II-ARTESIA O.C.D.



Project: Eddy County, NM (NAD-27)
Site: Remuda North 25 State
Well: #127H
Wellbore: OH
Design: PERMIT

PROJECT DETAILS: Eddy County, NM (NAD-27)
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level

DESIGN TARGET DETAILS

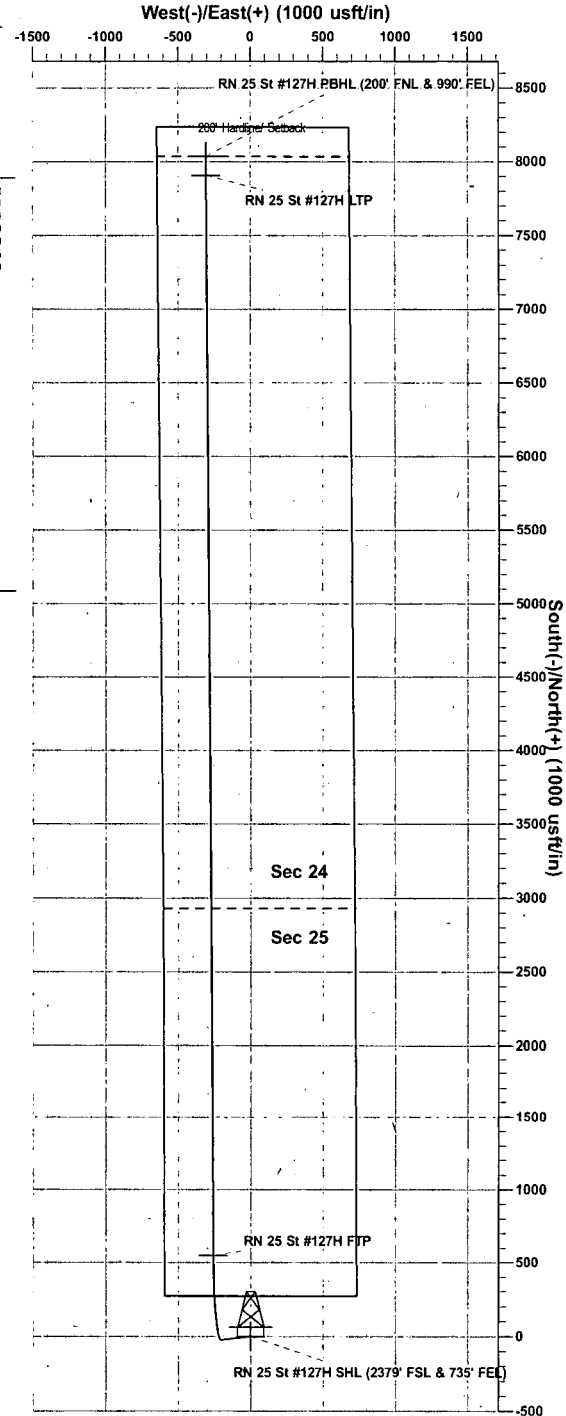
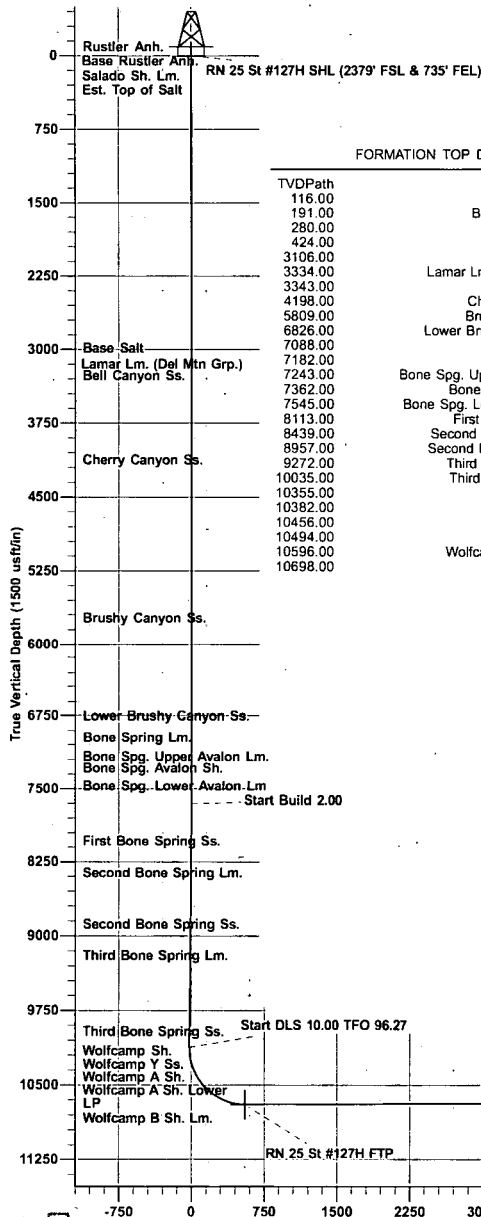
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
RN 25 St #127H SHL (2379' FSL & 735' FEL)	0.00	0.00	0.00	463989.30	624202.70	32.2749840	-103.9314701	Point
RN 25 St #127H PBHL (200' FNL & 990' FEL)	10678.00	8038.10	-305.90	472027.40	623896.80	32.2970931	-103.9323626	Point
RN 25 St #127H LTP	10678.35	7908.10	-305.00	471897.40	623897.70	32.2967257	-103.9323613	Point
RN 25 St #127H FTP	10698.00	550.30	-257.50	464539.60	623945.20	32.2764994	-103.9322966	Point

WELL DETAILS: #127H

Rig Name: RKB = 25' @ 3096.00usft Ground Level: 3071.00			
+N/-S	+E/-W	Northing	Latitude
0.00	0.00	463989.30	32.2749840
		Easting	Longitude
		624202.70	-103.9314701

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	7655.00	0.00	0.00	7655.00	0.00	0.00	0.00	0.00	0.00
3	7905.06	5.00	263.33	7904.75	-1.27	-10.83	2.00	263.33	-1.20
4	10130.54	5.00	283.33	10121.75	-23.82	-203.53	0.00	0.00	-22.50
5	11037.55	90.15	359.63	10698.00	550.30	-257.50	10.00	96.27	551.95
6	18395.53	90.15	359.63	10678.35	7908.10	-305.06	0.00	0.00	7909.90
7	18525.53	90.15	359.63	10678.00	8038.10	-305.90	0.00	0.00	8039.91



The customer should only rely on this document after independently verifying all facts, targets, coordinates, lease and hard lines represented. Any decisions made or wells drilled utilizing this or any other information supplied by Prototype are at the sole risk and responsibility of the user.

Plan: PERMIT (#127H/OH)

Created By: Matthew May Date: 19:08, May 20 2019



Planning Report

Database:	EDM 5000.1.13 Single User Db	Local Co-ordinate Reference:	Well #127H
Company:	XTO Energy	TVD Reference:	RKB = 25' @ 3096.00usft
Project:	Eddy County, NM (NAD-27)	MD Reference:	RKB = 25' @ 3096.00usft
Site:	Remuda North 25 State	North Reference:	Grid
Well:	#127H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PERMIT		

Project	Eddy County, NM (NAD-27)		
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		Remuda North 25 State			
Site Position:		Northing:	463,916.50 usft	Latitude:	32.2748238
From:	Map	Easting:	620,263.40 usft	Longitude:	-103.9442164
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.21 °

Well	#127H					
Well Position	+N/-S	72.80 usft	Northing:	463,989.30 usft	Latitude:	32.2749840
	+E/-W	3,939.30 usft	Easting:	624,202.70 usft	Longitude:	-103.9314701
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	3,071.00 usft	

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	05/20/19	6.92	60.03	47,735

Design	PERMIT			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	359.63

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7,655.00	0.00	0.00	7,655.00	0.00	0.00	0.00	0.00	0.00	0.00	
7,905.06	5.00	263.33	7,904.75	-1.27	-10.83	2.00	2.00	0.00	263.33	
10,130.54	5.00	263.33	10,121.75	-23.82	-203.53	0.00	0.00	0.00	0.00	
11,037.55	90.15	359.63	10,698.00	550.30	-257.50	10.00	9.39	10.62	96.27	RN 25 St #127H F1
18,395.53	90.15	359.63	10,678.35	7,908.10	-305.06	0.00	0.00	0.00	0.00	RN 25 St #127H LT
18,525.53	90.15	359.63	10,678.00	8,038.10	-305.90	0.00	0.00	0.00	0.00	RN 25 St #127H PE



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Site:	Remuda North 25 State	North Reference:	Grid
Well:	#127H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PERMIT		

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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
116.00	0.00	0.00	116.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler Anh.									
191.00	0.00	0.00	191.00	0.00	0.00	0.00	0.00	0.00	0.00
Base Rustler Anh.									
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
280.00	0.00	0.00	280.00	0.00	0.00	0.00	0.00	0.00	0.00
Salado Sh. Lm.									
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
424.00	0.00	0.00	424.00	0.00	0.00	0.00	0.00	0.00	0.00
Est. Top of Salt									
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,106.00	0.00	0.00	3,106.00	0.00	0.00	0.00	0.00	0.00	0.00
Base Salt									
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,334.00	0.00	0.00	3,334.00	0.00	0.00	0.00	0.00	0.00	0.00
Lamar Lm. (Del Mtn Grp.)									
3,343.00	0.00	0.00	3,343.00	0.00	0.00	0.00	0.00	0.00	0.00
Bell Canyon Ss.									
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00



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Design:	PERMIT		

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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)
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,198.00	0.00	0.00	4,198.00	0.00	0.00	0.00	0.00	0.00	0.00
Cherry Canyon Ss.									
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00
5,809.00	0.00	0.00	5,809.00	0.00	0.00	0.00	0.00	0.00	0.00
Brushy Canyon Ss.									
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.00	0.00	0.00
6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	0.00	0.00	0.00
6,100.00	0.00	0.00	6,100.00	0.00	0.00	0.00	0.00	0.00	0.00
6,200.00	0.00	0.00	6,200.00	0.00	0.00	0.00	0.00	0.00	0.00
6,300.00	0.00	0.00	6,300.00	0.00	0.00	0.00	0.00	0.00	0.00
6,400.00	0.00	0.00	6,400.00	0.00	0.00	0.00	0.00	0.00	0.00
6,500.00	0.00	0.00	6,500.00	0.00	0.00	0.00	0.00	0.00	0.00
6,600.00	0.00	0.00	6,600.00	0.00	0.00	0.00	0.00	0.00	0.00
6,700.00	0.00	0.00	6,700.00	0.00	0.00	0.00	0.00	0.00	0.00
6,800.00	0.00	0.00	6,800.00	0.00	0.00	0.00	0.00	0.00	0.00
6,826.00	0.00	0.00	6,826.00	0.00	0.00	0.00	0.00	0.00	0.00
Lower Brushy Canyon Ss.									
6,900.00	0.00	0.00	6,900.00	0.00	0.00	0.00	0.00	0.00	0.00
7,000.00	0.00	0.00	7,000.00	0.00	0.00	0.00	0.00	0.00	0.00
7,088.00	0.00	0.00	7,088.00	0.00	0.00	0.00	0.00	0.00	0.00
Bone Spring Lm.									
7,100.00	0.00	0.00	7,100.00	0.00	0.00	0.00	0.00	0.00	0.00
7,182.00	0.00	0.00	7,182.00	0.00	0.00	0.00	0.00	0.00	0.00
Avalon Ss.									
7,200.00	0.00	0.00	7,200.00	0.00	0.00	0.00	0.00	0.00	0.00
7,243.00	0.00	0.00	7,243.00	0.00	0.00	0.00	0.00	0.00	0.00
Bone Spg. Upper Avalon Lm.									
7,300.00	0.00	0.00	7,300.00	0.00	0.00	0.00	0.00	0.00	0.00
7,362.00	0.00	0.00	7,362.00	0.00	0.00	0.00	0.00	0.00	0.00
Bone Spg. Avalon Sh.									
7,400.00	0.00	0.00	7,400.00	0.00	0.00	0.00	0.00	0.00	0.00
7,500.00	0.00	0.00	7,500.00	0.00	0.00	0.00	0.00	0.00	0.00
7,545.00	0.00	0.00	7,545.00	0.00	0.00	0.00	0.00	0.00	0.00
Bone Spg. Lower Avalon Lm									



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Wellbore:	OH		
Design:	PERMIT		

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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)
7,600.00	0.00	0.00	7,600.00	0.00	0.00	0.00	0.00	0.00	0.00
7,655.00	0.00	0.00	7,655.00	0.00	0.00	0.00	0.00	0.00	0.00
7,700.00	0.90	263.33	7,700.00	-0.04	-0.35	-0.04	2.00	2.00	0.00
7,800.00	2.90	263.33	7,799.94	-0.43	-3.64	-0.40	2.00	2.00	0.00
7,905.06	5.00	263.33	7,904.75	-1.27	-10.83	-1.20	2.00	2.00	0.00
8,000.00	5.00	263.33	7,999.32	-2.23	-19.05	-2.11	0.00	0.00	0.00
8,100.00	5.00	263.33	8,098.94	-3.24	-27.71	-3.06	0.00	0.00	0.00
8,114.11	5.00	263.33	8,113.00	-3.39	-28.93	-3.20	0.00	0.00	0.00
First Bone Spring Ss.									
8,200.00	5.00	263.33	8,198.56	-4.26	-36.37	-4.02	0.00	0.00	0.00
8,300.00	5.00	263.33	8,298.18	-5.27	-45.03	-4.98	0.00	0.00	0.00
8,400.00	5.00	263.33	8,397.80	-6.28	-53.69	-5.94	0.00	0.00	0.00
8,441.36	5.00	263.33	8,439.00	-6.70	-57.27	-6.33	0.00	0.00	0.00
Second Bone Spring Lm.									
8,500.00	5.00	263.33	8,497.42	-7.30	-62.35	-6.89	0.00	0.00	0.00
8,600.00	5.00	263.33	8,597.04	-8.31	-71.01	-7.85	0.00	0.00	0.00
8,700.00	5.00	263.33	8,696.66	-9.32	-79.66	-8.81	0.00	0.00	0.00
8,800.00	5.00	263.33	8,796.28	-10.34	-88.32	-9.77	0.00	0.00	0.00
8,900.00	5.00	263.33	8,895.89	-11.35	-96.98	-10.72	0.00	0.00	0.00
8,961.34	5.00	263.33	8,957.00	-11.97	-102.29	-11.31	0.00	0.00	0.00
Second Bone Spring Ss.									
9,000.00	5.00	263.33	8,995.51	-12.36	-105.64	-11.68	0.00	0.00	0.00
9,100.00	5.00	263.33	9,095.13	-13.38	-114.30	-12.64	0.00	0.00	0.00
9,200.00	5.00	263.33	9,194.75	-14.39	-122.96	-13.60	0.00	0.00	0.00
9,277.54	5.00	263.33	9,272.00	-15.18	-129.67	-14.34	0.00	0.00	0.00
Third Bone Spring Lm.									
9,300.00	5.00	263.33	9,294.37	-15.40	-131.62	-14.55	0.00	0.00	0.00
9,400.00	5.00	263.33	9,393.99	-16.42	-140.27	-15.51	0.00	0.00	0.00
9,500.00	5.00	263.33	9,493.61	-17.43	-148.93	-16.47	0.00	0.00	0.00
9,600.00	5.00	263.33	9,593.23	-18.44	-157.59	-17.43	0.00	0.00	0.00
9,700.00	5.00	263.33	9,692.85	-19.46	-166.25	-18.38	0.00	0.00	0.00
9,800.00	5.00	263.33	9,792.47	-20.47	-174.91	-19.34	0.00	0.00	0.00
9,900.00	5.00	263.33	9,892.09	-21.48	-183.57	-20.30	0.00	0.00	0.00
10,000.00	5.00	263.33	9,991.71	-22.50	-192.23	-21.25	0.00	0.00	0.00
10,043.46	5.00	263.33	10,035.00	-22.94	-195.99	-21.67	0.00	0.00	0.00
Third Bone Spring Ss.									
10,100.00	5.00	263.33	10,091.33	-23.51	-200.89	-22.21	0.00	0.00	0.00
10,130.54	5.00	263.33	10,121.75	-23.82	-203.53	-22.50	0.00	0.00	0.00
10,150.00	5.16	285.35	10,141.14	-23.69	-205.22	-22.36	10.00	0.84	113.19
10,200.00	8.10	321.92	10,190.82	-20.32	-209.56	-18.96	10.00	5.87	73.14
10,250.00	12.42	336.36	10,240.01	-12.61	-213.89	-11.23	10.00	8.65	28.87
10,300.00	17.12	343.21	10,288.35	-0.63	-218.18	0.77	10.00	9.39	13.70
10,350.00	21.94	347.15	10,335.46	15.53	-222.38	16.96	10.00	9.65	7.88
10,371.22	24.01	348.36	10,355.00	23.62	-224.14	25.07	10.00	9.75	5.70
Wolfcamp Sh.									
10,400.00	26.83	349.71	10,380.99	35.75	-226.48	37.21	10.00	9.79	4.72
10,401.13	26.94	349.76	10,382.00	36.25	-226.57	37.72	10.00	9.81	4.24
Wolfcamp X Ss.									
10,450.00	31.75	351.54	10,424.58	59.88	-230.43	61.37	10.00	9.84	3.63
10,487.73	35.48	352.61	10,456.00	80.56	-233.30	82.07	10.00	9.88	2.84
Wolfcamp Y Ss.									
10,500.00	36.69	352.91	10,465.92	87.73	-234.21	89.24	10.00	9.89	2.50
10,535.87	40.24	353.72	10,494.00	109.89	-236.81	111.42	10.00	9.90	2.24



Planning Report

Database:	EDM 5000.1.13 Single User Db	Local Co-ordinate Reference:	Well #127H
Company:	XTO Energy	TVD Reference:	RKB = 25' @ 3096.00usft
Project:	Eddy County, NM (NAD-27)	MD Reference:	RKB = 25' @ 3096.00usft
Site:	Remuda North 25 State	North Reference:	Grid
Well:	#127H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PERMIT		

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)
Wolfcamp A Sh.									
10,550.00	41.64	354.00	10,504.67	119.10	-237.80	120.63	10.00	9.91	2.02
10,600.00	46.60	354.90	10,540.55	153.73	-241.15	155.29	10.00	9.92	1.79
10,650.00	51.57	355.66	10,573.29	191.38	-244.25	192.95	10.00	9.93	1.52
10,688.16	55.36	356.17	10,596.00	221.96	-246.43	223.55	10.00	9.94	1.34
Wolfcamp A Sh. Lower									
10,700.00	56.54	356.32	10,602.63	231.75	-247.07	233.34	10.00	9.95	1.26
10,750.00	61.52	356.91	10,628.35	274.53	-249.59	276.14	10.00	9.95	1.18
10,800.00	66.49	357.45	10,650.26	319.40	-251.80	321.02	10.00	9.95	1.07
10,850.00	71.47	357.95	10,668.19	366.03	-253.67	367.66	10.00	9.96	1.00
10,900.00	76.45	358.42	10,682.00	414.04	-255.20	415.68	10.00	9.96	0.94
10,950.00	81.43	358.87	10,691.58	463.08	-256.36	464.73	10.00	9.96	0.90
11,000.00	86.41	359.30	10,696.88	512.78	-257.15	514.43	10.00	9.96	0.88
11,037.55	90.15	359.63	10,698.00	550.30	-257.50	551.95	10.00	9.96	0.87
LP									
11,100.00	90.15	359.63	10,697.83	612.75	-257.90	614.40	0.00	0.00	0.00
11,200.00	90.15	359.63	10,697.57	712.75	-258.55	714.40	0.00	0.00	0.00
11,300.00	90.15	359.63	10,697.30	812.75	-259.20	814.40	0.00	0.00	0.00
11,400.00	90.15	359.63	10,697.03	912.74	-259.84	914.40	0.00	0.00	0.00
11,500.00	90.15	359.63	10,696.77	1,012.74	-260.49	1,014.40	0.00	0.00	0.00
11,600.00	90.15	359.63	10,696.50	1,112.74	-261.14	1,114.40	0.00	0.00	0.00
11,700.00	90.15	359.63	10,696.23	1,212.74	-261.78	1,214.40	0.00	0.00	0.00
11,800.00	90.15	359.63	10,695.96	1,312.73	-262.43	1,314.40	0.00	0.00	0.00
11,900.00	90.15	359.63	10,695.70	1,412.73	-263.07	1,414.40	0.00	0.00	0.00
12,000.00	90.15	359.63	10,695.43	1,512.73	-263.72	1,514.40	0.00	0.00	0.00
12,100.00	90.15	359.63	10,695.16	1,612.73	-264.37	1,614.40	0.00	0.00	0.00
12,200.00	90.15	359.63	10,694.90	1,712.72	-265.01	1,714.40	0.00	0.00	0.00
12,300.00	90.15	359.63	10,694.63	1,812.72	-265.66	1,814.40	0.00	0.00	0.00
12,400.00	90.15	359.63	10,694.36	1,912.72	-266.31	1,914.40	0.00	0.00	0.00
12,500.00	90.15	359.63	10,694.09	2,012.72	-266.95	2,014.40	0.00	0.00	0.00
12,600.00	90.15	359.63	10,693.83	2,112.72	-267.60	2,114.40	0.00	0.00	0.00
12,700.00	90.15	359.63	10,693.56	2,212.71	-268.25	2,214.40	0.00	0.00	0.00
12,800.00	90.15	359.63	10,693.29	2,312.71	-268.89	2,314.40	0.00	0.00	0.00
12,900.00	90.15	359.63	10,693.03	2,412.71	-269.54	2,414.40	0.00	0.00	0.00
13,000.00	90.15	359.63	10,692.76	2,512.71	-270.18	2,514.40	0.00	0.00	0.00
13,100.00	90.15	359.63	10,692.49	2,612.70	-270.83	2,614.40	0.00	0.00	0.00
13,200.00	90.15	359.63	10,692.22	2,712.70	-271.48	2,714.40	0.00	0.00	0.00
13,300.00	90.15	359.63	10,691.96	2,812.70	-272.12	2,814.40	0.00	0.00	0.00
13,400.00	90.15	359.63	10,691.69	2,912.70	-272.77	2,914.40	0.00	0.00	0.00
13,500.00	90.15	359.63	10,691.42	3,012.69	-273.42	3,014.40	0.00	0.00	0.00
13,600.00	90.15	359.63	10,691.16	3,112.69	-274.06	3,114.40	0.00	0.00	0.00
13,700.00	90.15	359.63	10,690.89	3,212.69	-274.71	3,214.40	0.00	0.00	0.00
13,800.00	90.15	359.63	10,690.62	3,312.69	-275.36	3,314.39	0.00	0.00	0.00
13,900.00	90.15	359.63	10,690.35	3,412.68	-276.00	3,414.39	0.00	0.00	0.00
14,000.00	90.15	359.63	10,690.09	3,512.68	-276.65	3,514.39	0.00	0.00	0.00
14,100.00	90.15	359.63	10,689.82	3,612.68	-277.29	3,614.39	0.00	0.00	0.00
14,200.00	90.15	359.63	10,689.55	3,712.68	-277.94	3,714.39	0.00	0.00	0.00
14,300.00	90.15	359.63	10,689.29	3,812.67	-278.59	3,814.39	0.00	0.00	0.00
14,400.00	90.15	359.63	10,689.02	3,912.67	-279.23	3,914.39	0.00	0.00	0.00
14,500.00	90.15	359.63	10,688.75	4,012.67	-279.88	4,014.39	0.00	0.00	0.00
14,600.00	90.15	359.63	10,688.49	4,112.67	-280.53	4,114.39	0.00	0.00	0.00
14,700.00	90.15	359.63	10,688.22	4,212.66	-281.17	4,214.39	0.00	0.00	0.00
14,800.00	90.15	359.63	10,687.95	4,312.66	-281.82	4,314.39	0.00	0.00	0.00



Planning Report

Database:	EDM.5000.1.13 Single User Db.	Local Co-ordinate Reference:	Well #127H
Company:	XTO Energy	TVD Reference:	RKB = 25' @ 3096.00usft
Project:	Eddy County, NM (NAD-27)	MD Reference:	RKB = 25' @ 3096.00usft
Site:	Remuda North 25 State	North Reference:	Grid
Well:	#127H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PERMIT		

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)
14,900.00	90.15	359.63	10,687.68	4,412.66	-282.47	4,414.39	0.00	0.00	0.00
15,000.00	90.15	359.63	10,687.42	4,512.66	-283.11	4,514.39	0.00	0.00	0.00
15,100.00	90.15	359.63	10,687.15	4,612.65	-283.76	4,614.39	0.00	0.00	0.00
15,200.00	90.15	359.63	10,686.88	4,712.65	-284.40	4,714.39	0.00	0.00	0.00
15,300.00	90.15	359.63	10,686.62	4,812.65	-285.05	4,814.39	0.00	0.00	0.00
15,400.00	90.15	359.63	10,686.35	4,912.65	-285.70	4,914.39	0.00	0.00	0.00
15,500.00	90.15	359.63	10,686.08	5,012.64	-286.34	5,014.39	0.00	0.00	0.00
15,600.00	90.15	359.63	10,685.81	5,112.64	-286.99	5,114.39	0.00	0.00	0.00
15,700.00	90.15	359.63	10,685.55	5,212.64	-287.64	5,214.39	0.00	0.00	0.00
15,800.00	90.15	359.63	10,685.28	5,312.64	-288.28	5,314.39	0.00	0.00	0.00
15,900.00	90.15	359.63	10,685.01	5,412.63	-288.93	5,414.39	0.00	0.00	0.00
16,000.00	90.15	359.63	10,684.75	5,512.63	-289.58	5,514.39	0.00	0.00	0.00
16,100.00	90.15	359.63	10,684.48	5,612.63	-290.22	5,614.39	0.00	0.00	0.00
16,200.00	90.15	359.63	10,684.21	5,712.63	-290.87	5,714.39	0.00	0.00	0.00
16,300.00	90.15	359.63	10,683.94	5,812.62	-291.51	5,814.39	0.00	0.00	0.00
16,400.00	90.15	359.63	10,683.68	5,912.62	-292.16	5,914.39	0.00	0.00	0.00
16,500.00	90.15	359.63	10,683.41	6,012.62	-292.81	6,014.39	0.00	0.00	0.00
16,600.00	90.15	359.63	10,683.14	6,112.62	-293.45	6,114.38	0.00	0.00	0.00
16,700.00	90.15	359.63	10,682.88	6,212.61	-294.10	6,214.38	0.00	0.00	0.00
16,800.00	90.15	359.63	10,682.61	6,312.61	-294.75	6,314.38	0.00	0.00	0.00
16,900.00	90.15	359.63	10,682.34	6,412.61	-295.39	6,414.38	0.00	0.00	0.00
17,000.00	90.15	359.63	10,682.07	6,512.61	-296.04	6,514.38	0.00	0.00	0.00
17,100.00	90.15	359.63	10,681.81	6,612.61	-296.69	6,614.38	0.00	0.00	0.00
17,200.00	90.15	359.63	10,681.54	6,712.60	-297.33	6,714.38	0.00	0.00	0.00
17,300.00	90.15	359.63	10,681.27	6,812.60	-297.98	6,814.38	0.00	0.00	0.00
17,400.00	90.15	359.63	10,681.01	6,912.60	-298.62	6,914.38	0.00	0.00	0.00
17,500.00	90.15	359.63	10,680.74	7,012.60	-299.27	7,014.38	0.00	0.00	0.00
17,600.00	90.15	359.63	10,680.47	7,112.59	-299.92	7,114.38	0.00	0.00	0.00
17,700.00	90.15	359.63	10,680.21	7,212.59	-300.56	7,214.38	0.00	0.00	0.00
17,800.00	90.15	359.63	10,679.94	7,312.59	-301.21	7,314.38	0.00	0.00	0.00
17,900.00	90.15	359.63	10,679.67	7,412.59	-301.86	7,414.38	0.00	0.00	0.00
18,000.00	90.15	359.63	10,679.40	7,512.58	-302.50	7,514.38	0.00	0.00	0.00
18,100.00	90.15	359.63	10,679.14	7,612.58	-303.15	7,614.38	0.00	0.00	0.00
18,200.00	90.15	359.63	10,678.87	7,712.58	-303.80	7,714.38	0.00	0.00	0.00
18,300.00	90.15	359.63	10,678.60	7,812.58	-304.44	7,814.38	0.00	0.00	0.00
18,395.53	90.15	359.63	10,678.35	7,908.10	-305.06	7,909.90	0.00	0.00	0.00
18,400.00	90.15	359.63	10,678.34	7,912.57	-305.09	7,914.38	0.00	0.00	0.00
18,500.00	90.15	359.63	10,678.07	8,012.57	-305.73	8,014.38	0.00	0.00	0.00
18,525.53	90.15	359.63	10,678.00	8,038.10	-305.90	8,039.91	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.1.13 Single User Db	Local Co-ordinate Reference:	Well #127H
Company:	XTO Energy	TVD Reference:	RKB = 25' @ 3096.00usft
Project:	Eddy County, NM (NAD-27)	MD Reference:	RKB = 25' @ 3096.00usft
Site:	Remuda North 25 State	North Reference:	Grid
Well:	#127H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PERMIT		

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
RN 25 St #127H SHL - plan hits target center - Point	0.00	0.00	0.00	0.00	0.00	463,989.30	624,202.70	32.2749840	-103.9314701
RN 25 St #127H PBH - plan hits target center - Point	0.00	0.00	10,678.00	8,038.10	-305.90	472,027.40	623,896.80	32.2970831	-103.9323626
RN 25 St #127H LTP - plan misses target center by 0.06usft at 18395.53usft MD (10678.35 TVD, 7908.10 N, -305.06 E) - Point	0.00	0.00	10,678.35	7,908.10	-305.00	471,897.40	623,897.70	32.2967257	-103.9323612
RN 25 St #127H FTP - plan hits target center - Point	0.00	0.00	10,698.00	550.30	-257.50	464,539.60	623,945.20	32.2764994	-103.9322965

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
116.00	97.00	Rustler Anh.			
191.00	172.00	Base Rustler Anh.			
280.00	261.00	Salado Sh. Lm.			
424.00	405.00	Est. Top of Salt			
3,106.00	3,087.00	Base Salt			
3,334.00	3,315.00	Lamar Lm. (Del Mtn Grp.)			
3,343.00	3,324.00	Bell Canyon Ss.			
4,198.00	4,179.00	Cherry Canyon Ss.			
5,809.00	5,790.00	Brushy Canyon Ss.			
6,826.00	6,807.00	Lower Brushy Canyon Ss.			
7,088.00	7,069.00	Bone Spring Lm.			
7,182.00	7,163.00	Avalon Ss.			
7,243.00	7,224.00	Bone Spg. Upper Avalon Lm.			
7,362.00	7,343.00	Bone Spg. Avalon Sh.			
7,545.00	7,526.00	Bone Spg. Lower Avalon Lm			
8,114.11	8,094.00	First Bone Spring Ss.			
8,441.36	8,420.00	Second Bone Spring Lm.			
8,961.34	8,938.00	Second Bone Spring Ss.			
9,277.54	9,253.00	Third Bone Spring Lm.			
10,043.46	10,016.00	Third Bone Spring Ss.			
10,371.22	10,336.00	Wolfcamp Sh.			
10,401.13	10,363.00	Wolfcamp X Ss.			
10,487.73	10,437.00	Wolfcamp Y Ss.			
10,535.87	10,475.00	Wolfcamp A Sh.			
10,688.16	10,577.00	Wolfcamp A Sh. Lower			
11,037.55	10,679.00	LP			