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DISTRICT II-ARTESIA O.C.D.

XTO Energy

Eddy County, NM (NAD-27)

Remuda North 25 State

#125H

Wellbore #1

Plan: PERMIT

Standard Planning Report

29 May, 2019



Project: Eddy County, NM (NAD-27)
Site: Remuda North 25 State
Well: #125H
Wellbore: Wellbore #1
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

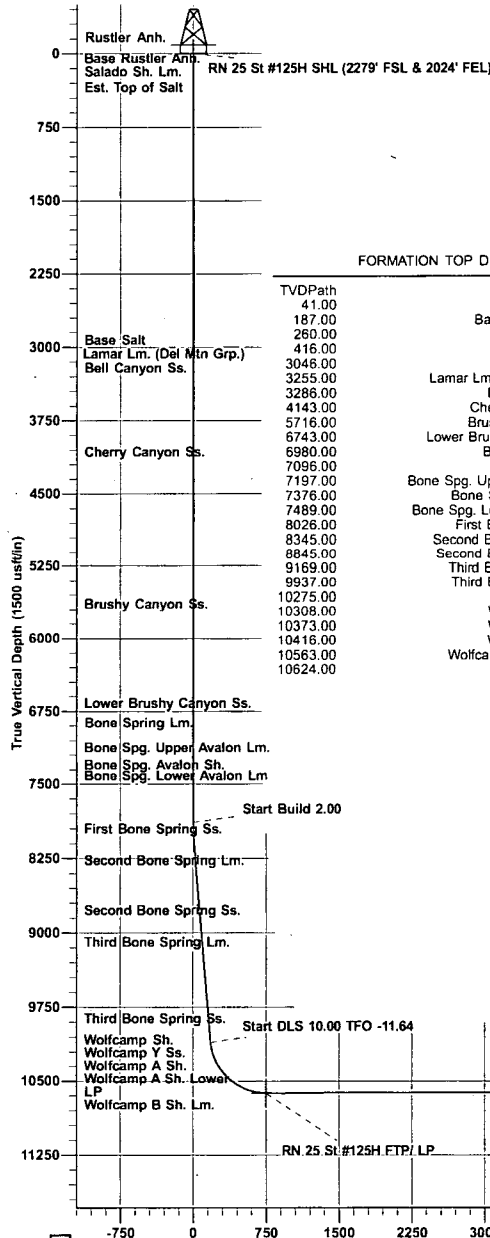
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
RN 25 St #125H SHL (2279' FSL & 2024' FEL)	0.00	0.00	0.00	463888.00	622913.70	32.2747187	-103.9356418	Point
RN 25 St #125H PBHL (200' FNL & 1980' FEL)	10604.00	8140.60	-6.90	472028.60	622909.80	32.2970965	-103.9355665	Point
RN 25 St #125H LTP	10604.35	8010.60	-6.00	471898.60	622907.70	32.2967391	-103.9355651	Point
RN 25 St #125H FTP/ LP	10624.00	751.80	41.10	464639.80	622954.80	32.2767849	-103.9354988	Point

WELL DETAILS: #125H

Rig Name:	RKB = 18' @ 3077.00usft						
Ground Level:	3059.00						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude		
0.00	0.00	463888.00	622913.70	32.2747187	-103.9356418		

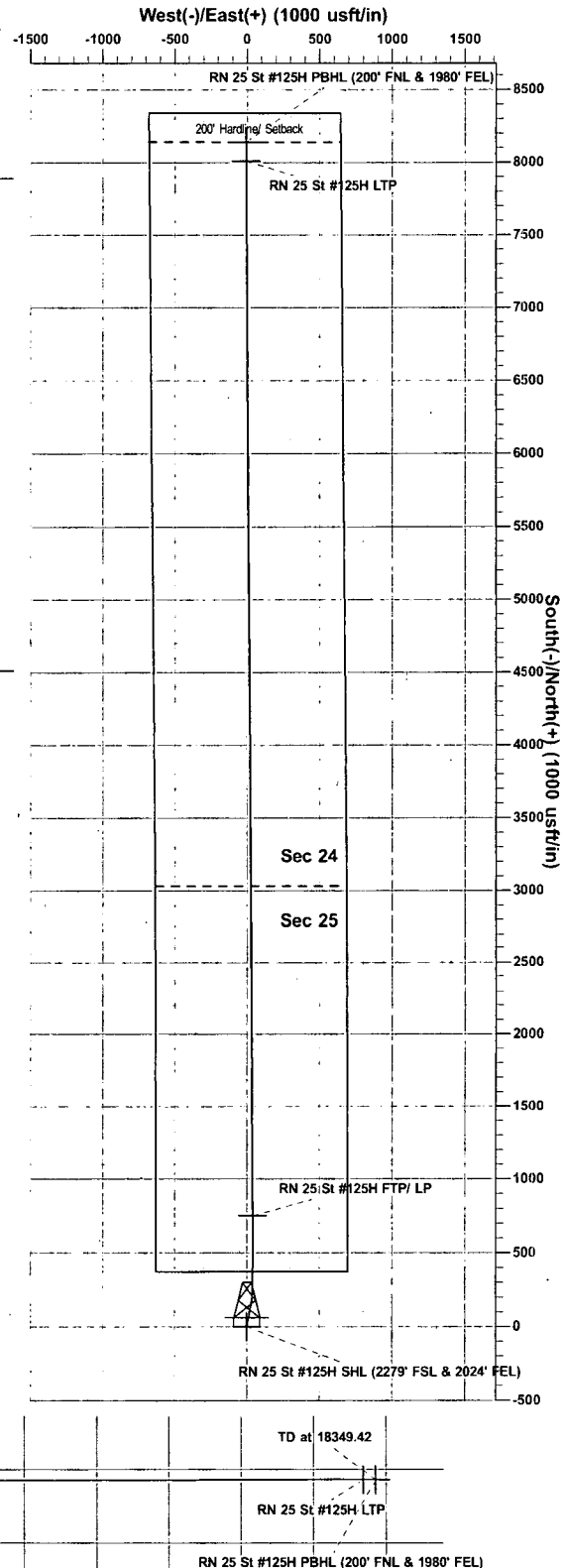
SECTION DETAILS

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	7884.00	0.00	0.00	7884.00	0.00	0.00	0.00	0.00	0.00
3	8133.85	5.00	11.22	8133.53	10.68	2.12	2.00	11.22	10.67
4	10107.83	5.00	11.22	10100.01	179.33	35.58	0.00	0.00	179.10
5	10960.44	90.16	359.63	10624.00	751.80	41.10	10.00	-11.54	751.52
6	18218.42	90.16	359.63	10604.35	8010.60	-6.06	0.00	0.00	8010.47
7	18349.42	90.16	359.63	10604.00	8140.60	-6.90	0.00	0.00	8140.47



FORMATION TOP DETAILS

TVDPath	Formation
41.00	Rustler Anh.
187.00	Base Rustler Anh.
260.00	Salado Sh. Lm.
416.00	Est. Top of Salt
3048.00	Base Salt
3255.00	Lamar Lm. (Del Mtn Grp.)
3286.00	Bell Canyon Ss.
4143.00	Cherry Canyon Ss.
5716.00	Brushy Canyon Ss.
6743.00	Lower Brushy Canyon Ss.
6980.00	Bone Spring Lm.
7096.00	Avalon Ss.
7197.00	Bone Spg. Upper Avalon Lm.
7376.00	Bone Spg. Avalon Sh.
7489.00	Bone Spg. Lower Avalon Lm.
8026.00	First Bone Spring Ss.
8345.00	Second Bone Spring Lm.
8845.00	Second Bone Spring Ss.
9169.00	Third Bone Spring Lm.
9937.00	Third Bone Spring Ss.
10275.00	Wolfcamp Sh.
10308.00	Wolfcamp X Ss.
10373.00	Wolfcamp Y Ss.
10416.00	Wolfcamp A Sh.
10563.00	Wolfcamp A Sh. Lower LP
10624.00	



Vertical Section at 359.63° (1500 usft/in)

The customer should only rely on this document after independently verifying all paths, 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 (#125H/Wellbore #1)

Created By: Matthew May Date: 8:53, May 29 2019



Planning Report

Database:	EDM 5000.1.13 Single User Db	Local Co-ordinate Reference:	Well #125H
Company:	XTO Energy	TVD Reference:	RKB = 18' @ 3077.00usft
Project:	Eddy County, NM (NAD-27)	MD Reference:	RKB = 18' @ 3077.00usft
Site:	Remuda North 25 State	North Reference:	Grid
Well:	#125H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
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
From:	Map	Easting:	620,263.40 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32.2748238
		Longitude:	-103.9442164
		Grid Convergence:	0.21 °

Well	#125H		
Well Position	+N/-S	-28.50 usft	Northing:
	+E/-W	2,650.30 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft
		Latitude:	32.2747188
		Longitude:	-103.9356418
		Ground Level:	3,059.00 usft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2015	05/20/19	6.92
			Dip Angle
			(°)
			60.03
			Field Strength
			(nT)
			47,735

Design:	PERMIT		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth:
			0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			Direction
			(°)
			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	
7,884.00	0.00	0.00	7,884.00	0.00	0.00	0.00	0.00	0.00	0.00	
8,133.85	5.00	11.22	8,133.53	10.68	2.12	2.00	2.00	0.00	11.22	
10,107.83	5.00	11.22	10,100.01	179.33	35.58	0.00	0.00	0.00	0.00	
10,960.44	90.16	359.63	10,624.00	751.80	41.10	10.00	9.99	-1.36	-11.64	RN 25 St #125H FT
18,219.42	90.16	359.63	10,604.35	8,010.60	-6.06	0.00	0.00	0.00	0.00	RN 25 St #125H LT
18,349.42	90.16	359.63	10,604.00	8,140.60	-6.90	0.00	0.00	0.00	0.00	RN 25 St #125H PE



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Project:	Eddy County, NM (NAD-27)	MD Reference:	RKB = 18' @ 3077.00usft
Site:	Remuda North 25 State	North Reference:	Grid
Well:	#125H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
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
41.00	0.00	0.00	41.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler Anh.									
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
187.00	0.00	0.00	187.00	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
260.00	0.00	0.00	260.00	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
416.00	0.00	0.00	416.00	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
3,046.00	0.00	0.00	3,046.00	0.00	0.00	0.00	0.00	0.00	0.00
Base Salt									
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,255.00	0.00	0.00	3,255.00	0.00	0.00	0.00	0.00	0.00	0.00
Lamar Lm. (Del Mtn Grp.)									
3,286.00	0.00	0.00	3,286.00	0.00	0.00	0.00	0.00	0.00	0.00
Bell Canyon Ss.									
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
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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Company:	XTO Energy	TVD Reference:	RKB = 18' @ 3077.00usft
Project:	Eddy County, NM (NAD-27)	MD Reference:	RKB = 18' @ 3077.00usft
Site:	Remuda North 25 State	North Reference:	Grid
Well:	#125H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
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)
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
4,143.00	0.00	0.00	4,143.00	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
5,716.00	0.00	0.00	5,716.00	0.00	0.00	0.00	0.00	0.00	0.00
Brushy Canyon Ss.									
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00
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
6,743.00	0.00	0.00	6,743.00	0.00	0.00	0.00	0.00	0.00	0.00
Lower Brushy Canyon Ss.									
6,800.00	0.00	0.00	6,800.00	0.00	0.00	0.00	0.00	0.00	0.00
6,900.00	0.00	0.00	6,900.00	0.00	0.00	0.00	0.00	0.00	0.00
6,980.00	0.00	0.00	6,980.00	0.00	0.00	0.00	0.00	0.00	0.00
Bone Spring Lm.									
7,000.00	0.00	0.00	7,000.00	0.00	0.00	0.00	0.00	0.00	0.00
7,096.00	0.00	0.00	7,096.00	0.00	0.00	0.00	0.00	0.00	0.00
Avalon Ss.									
7,100.00	0.00	0.00	7,100.00	0.00	0.00	0.00	0.00	0.00	0.00
7,197.00	0.00	0.00	7,197.00	0.00	0.00	0.00	0.00	0.00	0.00
Bone Spg. Upper Avalon Lm.									
7,200.00	0.00	0.00	7,200.00	0.00	0.00	0.00	0.00	0.00	0.00
7,300.00	0.00	0.00	7,300.00	0.00	0.00	0.00	0.00	0.00	0.00
7,376.00	0.00	0.00	7,376.00	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
7,489.00	0.00	0.00	7,489.00	0.00	0.00	0.00	0.00	0.00	0.00
Bone Spg. Lower Avalon Lm									
7,500.00	0.00	0.00	7,500.00	0.00	0.00	0.00	0.00	0.00	0.00



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Site:	Remuda North 25 State	North Reference:	Grid
Well:	#125H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
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)
7,600.00	0.00	0.00	7,600.00	0.00	0.00	0.00	0.00	0.00	0.00
7,700.00	0.00	0.00	7,700.00	0.00	0.00	0.00	0.00	0.00	0.00
7,800.00	0.00	0.00	7,800.00	0.00	0.00	0.00	0.00	0.00	0.00
7,884.00	0.00	0.00	7,884.00	0.00	0.00	0.00	0.00	0.00	0.00
7,900.00	0.32	11.22	7,900.00	0.04	0.01	0.04	2.00	2.00	0.00
8,000.00	2.32	11.22	7,999.97	2.30	0.46	2.30	2.00	2.00	0.00
8,026.06	2.84	11.22	8,026.00	3.45	0.69	3.45	2.00	2.00	0.00
First Bone Spring Ss.									
8,100.00	4.32	11.22	8,099.80	7.98	1.58	7.97	2.00	2.00	0.00
8,133.85	5.00	11.22	8,133.53	10.68	2.12	10.67	2.00	2.00	0.00
8,200.00	5.00	11.22	8,199.43	16.33	3.24	16.31	0.00	0.00	0.00
8,300.00	5.00	11.22	8,299.05	24.88	4.94	24.84	0.00	0.00	0.00
8,346.12	5.00	11.22	8,345.00	28.82	5.72	28.78	0.00	0.00	0.00
Second Bone Spring Lm.									
8,400.00	5.00	11.22	8,398.67	33.42	6.63	33.38	0.00	0.00	0.00
8,500.00	5.00	11.22	8,498.29	41.96	8.33	41.91	0.00	0.00	0.00
8,600.00	5.00	11.22	8,597.91	50.51	10.02	50.44	0.00	0.00	0.00
8,700.00	5.00	11.22	8,697.53	59.05	11.72	58.97	0.00	0.00	0.00
8,800.00	5.00	11.22	8,797.15	67.59	13.41	67.51	0.00	0.00	0.00
8,848.03	5.00	11.22	8,845.00	71.70	14.23	71.60	0.00	0.00	0.00
Second Bone Spring Ss.									
8,900.00	5.00	11.22	8,896.77	76.14	15.11	76.04	0.00	0.00	0.00
9,000.00	5.00	11.22	8,996.39	84.68	16.80	84.57	0.00	0.00	0.00
9,100.00	5.00	11.22	9,096.01	93.23	18.50	93.10	0.00	0.00	0.00
9,173.27	5.00	11.22	9,169.00	99.49	19.74	99.36	0.00	0.00	0.00
Third Bone Spring Lm.									
9,200.00	5.00	11.22	9,195.63	101.77	20.19	101.64	0.00	0.00	0.00
9,300.00	5.00	11.22	9,295.25	110.31	21.89	110.17	0.00	0.00	0.00
9,400.00	5.00	11.22	9,394.87	118.86	23.58	118.70	0.00	0.00	0.00
9,500.00	5.00	11.22	9,494.49	127.40	25.28	127.24	0.00	0.00	0.00
9,600.00	5.00	11.22	9,594.11	135.94	26.98	135.77	0.00	0.00	0.00
9,700.00	5.00	11.22	9,693.73	144.49	28.67	144.30	0.00	0.00	0.00
9,800.00	5.00	11.22	9,793.35	153.03	30.37	152.83	0.00	0.00	0.00
9,900.00	5.00	11.22	9,892.97	161.58	32.06	161.37	0.00	0.00	0.00
9,944.20	5.00	11.22	9,937.00	165.35	32.81	165.14	0.00	0.00	0.00
Third Bone Spring Ss.									
10,000.00	5.00	11.22	9,992.59	170.12	33.76	169.90	0.00	0.00	0.00
10,107.83	5.00	11.22	10,100.01	179.33	35.58	179.10	0.00	0.00	0.00
10,150.00	9.17	5.88	10,141.85	184.48	36.29	184.24	10.00	9.89	-12.67
10,200.00	14.15	3.63	10,190.80	194.54	37.08	194.30	10.00	9.96	-4.51
10,250.00	19.14	2.53	10,238.69	208.84	37.83	208.59	10.00	9.98	-2.19
10,288.92	23.02	2.00	10,275.00	222.82	38.38	222.57	10.00	9.99	-1.37
Wolfcamp Sh.									
10,300.00	24.13	1.88	10,285.16	227.25	38.53	227.00	10.00	9.99	-1.10
10,325.29	26.66	1.64	10,308.00	238.09	38.86	237.84	10.00	9.99	-0.96
Wolfcamp X Ss.									
10,350.00	29.13	1.44	10,329.84	249.65	39.17	249.39	10.00	9.99	-0.80
10,400.00	34.12	1.12	10,372.40	275.85	39.75	275.59	10.00	9.99	-0.64
10,400.72	34.20	1.11	10,373.00	276.26	39.76	276.00	10.00	10.00	-0.56
Wolfcamp Y Ss.									
10,450.00	39.12	0.87	10,412.52	305.67	40.26	305.40	10.00	10.00	-0.49
10,454.50	39.57	0.85	10,416.00	308.52	40.30	308.25	10.00	10.00	-0.44
Wolfcamp A Sh.									



Planning Report

Database:	EDM 5000.1.13 Single User Db	Local Co-ordinate Reference:	Well #125H
Company:	XTO Energy	TVD Reference:	RKB' = 18' @ 3077.00usft
Project:	Eddy County, NM (NAD-27)	MD Reference:	RKB = 18' @ 3077.00usft
Site:	Remuda North 25 State	North Reference:	Grid
Well:	#125H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
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)
10,500.00	44.12	0.67	10,449.88	338.86	40.70	338.59	10.00	10.00	-0.40
10,550.00	49.12	0.50	10,484.21	375.19	41.07	374.92	10.00	10.00	-0.33
10,600.00	54.12	0.36	10,515.25	414.37	41.37	414.09	10.00	10.00	-0.29
10,650.00	59.12	0.23	10,542.75	456.11	41.58	455.83	10.00	10.00	-0.25
10,692.07	63.32	0.14	10,563.00	492.97	41.70	492.69	10.00	10.00	-0.23
Wolfcamp A Sh. Lower									
10,700.00	64.12	0.12	10,566.51	500.08	41.71	499.80	10.00	10.00	-0.22
10,750.00	69.11	0.01	10,586.35	545.96	41.77	545.68	10.00	10.00	-0.21
10,800.00	74.11	359.92	10,602.12	593.39	41.74	593.11	10.00	10.00	-0.20
10,850.00	79.11	359.82	10,613.69	642.02	41.63	641.74	10.00	10.00	-0.19
10,900.00	84.11	359.73	10,620.98	691.47	41.44	691.19	10.00	10.00	-0.18
10,950.00	89.11	359.65	10,623.93	741.36	41.17	741.08	10.00	10.00	-0.18
10,960.44	90.16	359.63	10,624.00	751.80	41.10	751.52	10.00	10.00	-0.18
LP									
11,000.00	90.16	359.63	10,623.89	791.36	40.84	791.08	0.00	0.00	0.00
11,100.00	90.16	359.63	10,623.62	891.36	40.19	891.08	0.00	0.00	0.00
11,200.00	90.16	359.63	10,623.35	991.36	39.54	991.08	0.00	0.00	0.00
11,300.00	90.16	359.63	10,623.08	1,091.36	38.89	1,091.08	0.00	0.00	0.00
11,400.00	90.16	359.63	10,622.81	1,191.35	38.24	1,191.08	0.00	0.00	0.00
11,500.00	90.16	359.63	10,622.54	1,291.35	37.59	1,291.08	0.00	0.00	0.00
11,600.00	90.16	359.63	10,622.27	1,391.35	36.95	1,391.08	0.00	0.00	0.00
11,700.00	90.16	359.63	10,622.00	1,491.35	36.30	1,491.08	0.00	0.00	0.00
11,800.00	90.16	359.63	10,621.73	1,591.34	35.65	1,591.08	0.00	0.00	0.00
11,900.00	90.16	359.63	10,621.46	1,691.34	35.00	1,691.08	0.00	0.00	0.00
12,000.00	90.16	359.63	10,621.19	1,791.34	34.35	1,791.08	0.00	0.00	0.00
12,100.00	90.16	359.63	10,620.92	1,891.34	33.70	1,891.08	0.00	0.00	0.00
12,200.00	90.16	359.63	10,620.65	1,991.33	33.05	1,991.08	0.00	0.00	0.00
12,300.00	90.16	359.63	10,620.37	2,091.33	32.40	2,091.08	0.00	0.00	0.00
12,400.00	90.16	359.63	10,620.10	2,191.33	31.75	2,191.08	0.00	0.00	0.00
12,500.00	90.16	359.63	10,619.83	2,291.33	31.10	2,291.08	0.00	0.00	0.00
12,600.00	90.16	359.63	10,619.56	2,391.32	30.45	2,391.08	0.00	0.00	0.00
12,700.00	90.16	359.63	10,619.29	2,491.32	29.80	2,491.08	0.00	0.00	0.00
12,800.00	90.16	359.63	10,619.02	2,591.32	29.15	2,591.08	0.00	0.00	0.00
12,900.00	90.16	359.63	10,618.75	2,691.32	28.50	2,691.08	0.00	0.00	0.00
13,000.00	90.16	359.63	10,618.48	2,791.31	27.85	2,791.08	0.00	0.00	0.00
13,100.00	90.16	359.63	10,618.21	2,891.31	27.20	2,891.08	0.00	0.00	0.00
13,200.00	90.16	359.63	10,617.94	2,991.31	26.55	2,991.07	0.00	0.00	0.00
13,300.00	90.16	359.63	10,617.67	3,091.31	25.90	3,091.07	0.00	0.00	0.00
13,400.00	90.16	359.63	10,617.40	3,191.30	25.25	3,191.07	0.00	0.00	0.00
13,500.00	90.16	359.63	10,617.13	3,291.30	24.60	3,291.07	0.00	0.00	0.00
13,600.00	90.16	359.63	10,616.86	3,391.30	23.95	3,391.07	0.00	0.00	0.00
13,700.00	90.16	359.63	10,616.58	3,491.30	23.30	3,491.07	0.00	0.00	0.00
13,800.00	90.16	359.63	10,616.31	3,591.29	22.65	3,591.07	0.00	0.00	0.00
13,900.00	90.16	359.63	10,616.04	3,691.29	22.00	3,691.07	0.00	0.00	0.00
14,000.00	90.16	359.63	10,615.77	3,791.29	21.35	3,791.07	0.00	0.00	0.00
14,100.00	90.16	359.63	10,615.50	3,891.29	20.70	3,891.07	0.00	0.00	0.00
14,200.00	90.16	359.63	10,615.23	3,991.28	20.06	3,991.07	0.00	0.00	0.00
14,300.00	90.16	359.63	10,614.96	4,091.28	19.41	4,091.07	0.00	0.00	0.00
14,400.00	90.16	359.63	10,614.69	4,191.28	18.76	4,191.07	0.00	0.00	0.00
14,500.00	90.16	359.63	10,614.42	4,291.28	18.11	4,291.07	0.00	0.00	0.00
14,600.00	90.16	359.63	10,614.15	4,391.27	17.46	4,391.07	0.00	0.00	0.00
14,700.00	90.16	359.63	10,613.88	4,491.27	16.81	4,491.07	0.00	0.00	0.00
14,800.00	90.16	359.63	10,613.61	4,591.27	16.16	4,591.07	0.00	0.00	0.00
14,900.00	90.16	359.63	10,613.34	4,691.27	15.51	4,691.07	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.1.13 Single User Db	Local Co-ordinate Reference:	Well #125H
Company:	XTO Energy	TVD Reference:	RKB = 18' @ 3077.00usft
Project:	Eddy County, NM (NAD-27)	MD Reference:	RKB = 18' @ 3077.00usft
Site:	Remuda North 25 State	North Reference:	Grid
Well:	#125H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
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)
15,000.00	90.16	359.63	10,613.07	4,791.26	14.86	4,791.07	0.00	0.00	0.00
15,100.00	90.16	359.63	10,612.80	4,891.26	14.21	4,891.07	0.00	0.00	0.00
15,200.00	90.16	359.63	10,612.52	4,991.26	13.56	4,991.07	0.00	0.00	0.00
15,300.00	90.16	359.63	10,612.25	5,091.26	12.91	5,091.07	0.00	0.00	0.00
15,400.00	90.16	359.63	10,611.98	5,191.25	12.26	5,191.07	0.00	0.00	0.00
15,500.00	90.16	359.63	10,611.71	5,291.25	11.61	5,291.07	0.00	0.00	0.00
15,600.00	90.16	359.63	10,611.44	5,391.25	10.96	5,391.07	0.00	0.00	0.00
15,700.00	90.16	359.63	10,611.17	5,491.25	10.31	5,491.07	0.00	0.00	0.00
15,800.00	90.16	359.63	10,610.90	5,591.24	9.66	5,591.07	0.00	0.00	0.00
15,900.00	90.16	359.63	10,610.63	5,691.24	9.01	5,691.06	0.00	0.00	0.00
16,000.00	90.16	359.63	10,610.36	5,791.24	8.36	5,791.06	0.00	0.00	0.00
16,100.00	90.16	359.63	10,610.09	5,891.24	7.71	5,891.06	0.00	0.00	0.00
16,200.00	90.16	359.63	10,609.82	5,991.23	7.06	5,991.06	0.00	0.00	0.00
16,300.00	90.16	359.63	10,609.55	6,091.23	6.41	6,091.06	0.00	0.00	0.00
16,400.00	90.16	359.63	10,609.28	6,191.23	5.76	6,191.06	0.00	0.00	0.00
16,500.00	90.16	359.63	10,609.01	6,291.23	5.11	6,291.06	0.00	0.00	0.00
16,600.00	90.16	359.63	10,608.74	6,391.22	4.46	6,391.06	0.00	0.00	0.00
16,700.00	90.16	359.63	10,608.46	6,491.22	3.81	6,491.06	0.00	0.00	0.00
16,800.00	90.16	359.63	10,608.19	6,591.22	3.17	6,591.06	0.00	0.00	0.00
16,900.00	90.16	359.63	10,607.92	6,691.22	2.52	6,691.06	0.00	0.00	0.00
17,000.00	90.16	359.63	10,607.65	6,791.21	1.87	6,791.06	0.00	0.00	0.00
17,100.00	90.16	359.63	10,607.38	6,891.21	1.22	6,891.06	0.00	0.00	0.00
17,200.00	90.16	359.63	10,607.11	6,991.21	0.57	6,991.06	0.00	0.00	0.00
17,300.00	90.16	359.63	10,606.84	7,091.21	-0.08	7,091.06	0.00	0.00	0.00
17,400.00	90.16	359.63	10,606.57	7,191.20	-0.73	7,191.06	0.00	0.00	0.00
17,500.00	90.16	359.63	10,606.30	7,291.20	-1.38	7,291.06	0.00	0.00	0.00
17,600.00	90.16	359.63	10,606.03	7,391.20	-2.03	7,391.06	0.00	0.00	0.00
17,700.00	90.16	359.63	10,605.76	7,491.20	-2.68	7,491.06	0.00	0.00	0.00
17,800.00	90.16	359.63	10,605.49	7,591.19	-3.33	7,591.06	0.00	0.00	0.00
17,900.00	90.16	359.63	10,605.22	7,691.19	-3.98	7,691.06	0.00	0.00	0.00
18,000.00	90.16	359.63	10,604.95	7,791.19	-4.63	7,791.06	0.00	0.00	0.00
18,100.00	90.16	359.63	10,604.68	7,891.19	-5.28	7,891.06	0.00	0.00	0.00
18,200.00	90.16	359.63	10,604.40	7,991.18	-5.93	7,991.06	0.00	0.00	0.00
18,219.42	90.16	359.63	10,604.35	8,010.60	-6.06	8,010.47	0.00	0.00	0.00
18,300.00	90.16	359.63	10,604.13	8,091.18	-6.58	8,091.06	0.00	0.00	0.00
18,349.42	90.16	359.63	10,604.00	8,140.60	-6.90	8,140.48	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.1.13 Single User Db	Local Co-ordinate Reference:	Well #125H
Company:	XTO Energy	TVD Reference:	RKB = 18' @ 3077.00usft
Project:	Eddy County, NM (NAD-27)	MD Reference:	RKB = 18' @ 3077.00usft
Site:	Remuda North 25 State	North Reference:	Grid
Well:	#125H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PERMIT		

Design Targets

Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
- Shape									
RN 25 St #125H SHL	0.00	0.00	0.00	0.00	0.00	463,888.00	622,913.70	32.2747188	-103.9356418
- plan hits target center									
- Point									
RN 25 St #125H PBH	0.00	0.00	10,604.00	8,140.60	-6.90	472,028.60	622,906.80	32.2970965	-103.9355665
- plan hits target center									
- Point									
RN 25 St #125H LTP	0.00	0.00	10,604.35	8,010.60	-6.00	471,898.60	622,907.70	32.2967392	-103.9355651
- plan misses target center by 0.06usft at 18219.42usft MD (10604.35 TVD, 8010.60 N, -6.06 E)									
- Point									
RN 25 St #125H FTP	0.00	0.00	10,624.00	751.80	41.10	464,639.80	622,954.80	32.2767850	-103.9354998
- plan hits target center									
- Point									

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
41.00	41.00	Rustler Anh.			
187.00	187.00	Base Rustler Anh.			
260.00	260.00	Salado Sh. Lm.			
416.00	416.00	Est. Top of Salt			
3,046.00	3,046.00	Base Salt			
3,255.00	3,255.00	Lamar Lm. (Del Mtn Grp.)			
3,286.00	3,286.00	Bell Canyon Ss.			
4,143.00	4,143.00	Cherry Canyon Ss.			
5,716.00	5,716.00	Brushy Canyon Ss.			
6,743.00	6,743.00	Lower Brushy Canyon Ss.			
6,980.00	6,980.00	Bone Spring Lm.			
7,096.00	7,096.00	Avalon Ss.			
7,197.00	7,197.00	Bone Spg. Upper Avalon Lm.			
7,376.00	7,376.00	Bone Spg. Avalon Sh.			
7,489.00	7,489.00	Bone Spg. Lower Avalon Lm			
8,026.06	8,026.00	First Bone Spring Ss.			
8,346.12	8,345.00	Second Bone Spring Lm.			
8,848.03	8,845.00	Second Bone Spring Ss.			
9,173.27	9,169.00	Third Bone Spring Lm.			
9,944.20	9,937.00	Third Bone Spring Ss.			
10,288.92	10,275.00	Wolfcamp Sh.			
10,325.29	10,308.00	Wolfcamp X Ss.			
10,400.72	10,373.00	Wolfcamp Y Ss.			
10,454.50	10,416.00	Wolfcamp A Sh.			
10,692.07	10,563.00	Wolfcamp A Sh. Lower			
10,960.44	10,624.00	LP			