



NM OIL CONSERVATION
ARTESIA DISTRICT

OCT 09 2018

RECEIVED

XTO Energy

Eddy County, NM (NAD-27)

Los Medanos 36-23-30

#401H

30-015-45311

OH

Plan: PERMIT

Standard Planning Report

11 September, 2018



Project: Eddy County, NM (NAD-27)
Site: Los Medanos 36-23-30
Well: #401H
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

WELL DETAILS: #401H

Rig Name: RKB - 17 @ 3428 00usft
Ground Level: 3411.00
Northing: 456871.90
Easting: 652961.40
Latitude: 32.255089
Longitude: -103.835529

DESIGN TARGET DETAILS

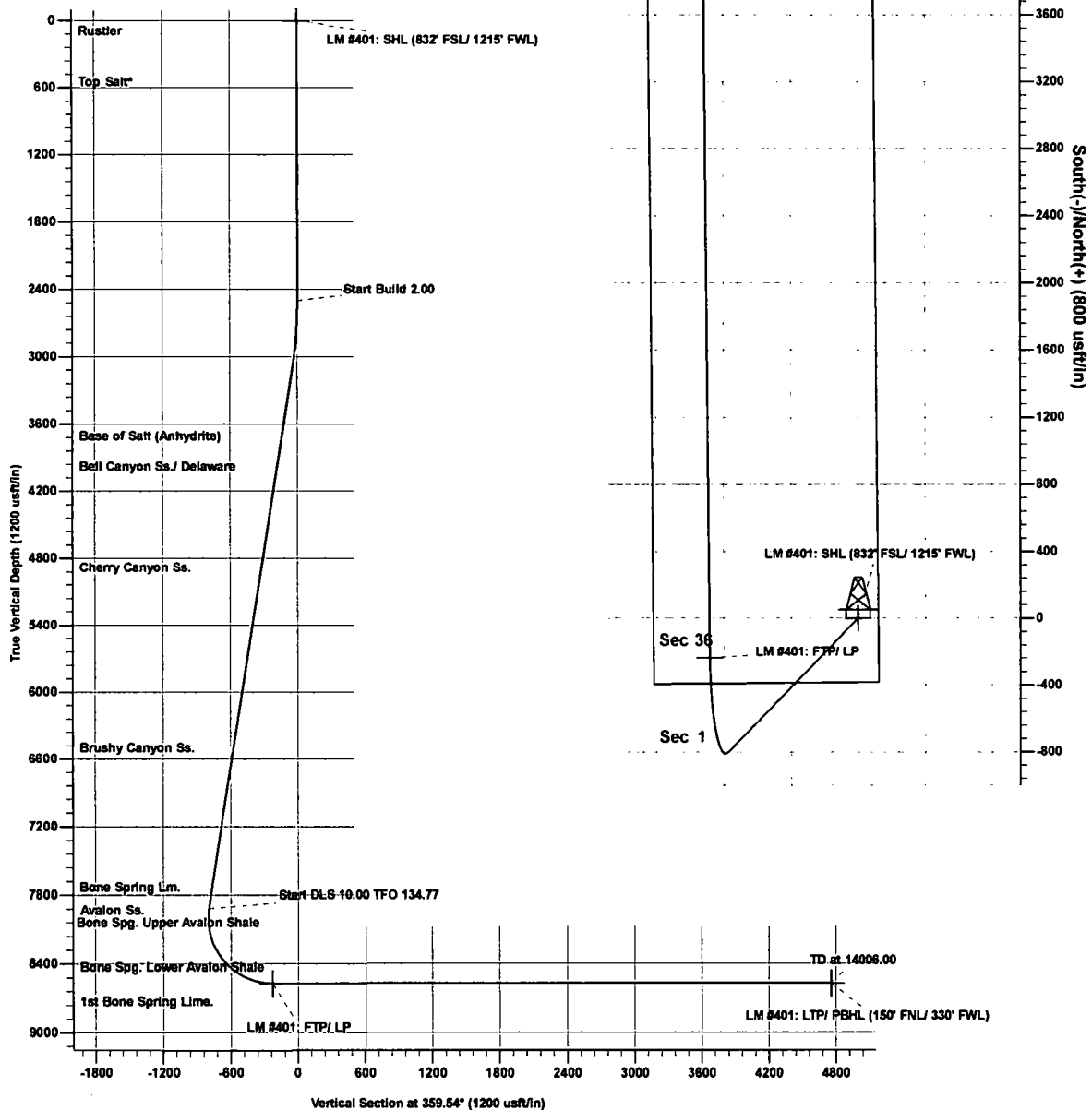
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
LM #401: SHL (832' FSU/ 1215' FWL)	0.00	0.00	0.00	456871.90	652961.40	32.255089	-103.835529	Point
LM #401: FTP/LP	8568.00	-238.20	-883.50	456833.70	652077.90	32.254445	-103.841390	Point
LM #401: LTP/ PBHL (150' FNL/ 330' FWL)	8568.00	4745.80	-923.50	461617.70	652037.90	32.268146	-103.841446	Point

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2500.00	0.00	0.00	2500.00	0.00	0.00	0.00	0.00	0.00
3	3118.14	12.38	224.09	3113.35	-47.71	-48.22	2.00	224.09	-47.34
4	8034.08	12.38	224.09	7915.30	-803.83	-778.59	0.00	0.00	-787.35
5	9021.84	90.00	359.54	8568.00	-238.20	-883.50	10.00	134.77	-231.10
6	14006.00	90.00	359.54	8568.00	4745.80	-923.50	0.00	0.00	4753.06

FORMATION TOP DETAILS

TVDPath	Formation
154.00	Rustler
611.00	Top Salt*
3770.00	Base of Salt (Anhydrite)
4042.00	Bell Canyon Ss./ Delaware
4943.00	Cherry Canyon Ss.
6562.00	Brushy Canyon Ss.
7889.00	Bone Spring Lm.
7965.00	Avalon Ss.
7987.00	Bone Spg. Upper Avalon Shale
8490.00	Bone Spg. Lower Avalon Shale
8568.00	LP



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 customer.

Plan: PERMIT (#401H/OH)

Created By: Prototype Well Planning, LLC Date: 9:21, September 11 2018



Database: EDM 5000.1 Single User Db
Company: XTO Energy
Project: Eddy County, NM (NAD-27)
Site: Los Medanos 36-23-30
Well: #401H
Wellbore: OH
Design: PERMIT

Local Co-ordinate Reference: Well #401H
TVD Reference: RKB = 17' @ 3428.00usft
MD Reference: RKB = 17' @ 3428.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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	Los Medanos 36-23-30		
Site Position:		Northing:	456,871.90 usft
From:	Map	Easting:	652,961.40 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32.255089
		Longitude:	-103.838529
		Grid Convergence:	0.26 °

Well	#401H		
Well Position	+N/-S	0.00 usft	Northing: 456,871.90 usft
	+E/-W	0.00 usft	Easting: 652,961.40 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft
		Latitude:	32.255089
		Longitude:	-103.838529
		Ground Level:	3,411.00 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2015	9/10/2018	6.95
			Dip Angle (°)
			60.03
			Field Strength (nT)
			47,802

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 (°)
			359.54

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	
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,118.14	12.36	224.09	3,113.35	-47.71	-46.22	2.00	2.00	0.00	224.09	
8,034.08	12.36	224.09	7,915.30	-803.63	-778.59	0.00	0.00	0.00	0.00	
9,021.84	90.00	359.54	8,568.00	-238.20	-883.50	10.00	7.86	13.71	134.77	LM #401: FTP/ LP
14,006.00	90.00	359.54	8,568.00	4,745.80	-923.50	0.00	0.00	0.00	0.00	LM #401: LTP/ PB†



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Local Co-ordinate Reference: Well #401H
 TVD Reference: RKB = 17' @ 3428.00usft
 MD Reference: RKB = 17' @ 3428.00usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

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
LM #401: SHL (832' FSL/ 1215' FWL)									
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
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
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	2.00	224.09	2,599.98	-1.25	-1.21	-1.24	2.00	2.00	0.00
2,700.00	4.00	224.09	2,699.84	-5.01	-4.86	-4.97	2.00	2.00	0.00
2,800.00	6.00	224.09	2,799.45	-11.27	-10.92	-11.18	2.00	2.00	0.00
2,900.00	8.00	224.09	2,898.70	-20.02	-19.40	-19.87	2.00	2.00	0.00
3,000.00	10.00	224.09	2,997.47	-31.26	-30.28	-31.01	2.00	2.00	0.00
3,100.00	12.00	224.09	3,095.62	-44.96	-43.56	-44.61	2.00	2.00	0.00
3,118.14	12.36	224.09	3,113.35	-47.71	-46.22	-47.34	2.00	2.00	0.00
3,200.00	12.36	224.09	3,193.32	-60.30	-58.42	-59.83	0.00	0.00	0.00
3,300.00	12.36	224.09	3,291.00	-75.67	-73.32	-75.08	0.00	0.00	0.00
3,400.00	12.36	224.09	3,388.68	-91.05	-88.22	-90.34	0.00	0.00	0.00
3,500.00	12.36	224.09	3,486.36	-106.43	-103.11	-105.60	0.00	0.00	0.00
3,600.00	12.36	224.09	3,584.04	-121.81	-118.01	-120.85	0.00	0.00	0.00
3,700.00	12.36	224.09	3,681.72	-137.18	-132.91	-136.11	0.00	0.00	0.00
3,800.00	12.36	224.09	3,779.40	-152.56	-147.81	-151.37	0.00	0.00	0.00
3,900.00	12.36	224.09	3,877.08	-167.94	-162.70	-166.62	0.00	0.00	0.00
4,000.00	12.36	224.09	3,974.77	-183.31	-177.60	-181.88	0.00	0.00	0.00
4,100.00	12.36	224.09	4,072.45	-198.69	-192.50	-197.14	0.00	0.00	0.00
4,200.00	12.36	224.09	4,170.13	-214.07	-207.40	-212.39	0.00	0.00	0.00
4,300.00	12.36	224.09	4,267.81	-229.44	-222.30	-227.65	0.00	0.00	0.00
4,400.00	12.36	224.09	4,365.49	-244.82	-237.19	-242.91	0.00	0.00	0.00
4,500.00	12.36	224.09	4,463.17	-260.20	-252.09	-258.16	0.00	0.00	0.00
4,600.00	12.36	224.09	4,560.85	-275.57	-266.99	-273.42	0.00	0.00	0.00
4,700.00	12.36	224.09	4,658.53	-290.95	-281.89	-288.68	0.00	0.00	0.00
4,800.00	12.36	224.09	4,756.22	-306.33	-296.78	-303.93	0.00	0.00	0.00
4,900.00	12.36	224.09	4,853.90	-321.70	-311.68	-319.19	0.00	0.00	0.00
5,000.00	12.36	224.09	4,951.58	-337.08	-326.58	-334.45	0.00	0.00	0.00
5,100.00	12.36	224.09	5,049.26	-352.46	-341.48	-349.71	0.00	0.00	0.00



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Survey Calculation Method: Minimum Curvature

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)
5,200.00	12.36	224.09	5,146.94	-367.83	-356.38	-364.96	0.00	0.00	0.00
5,300.00	12.36	224.09	5,244.62	-383.21	-371.27	-380.22	0.00	0.00	0.00
5,400.00	12.36	224.09	5,342.30	-398.59	-386.17	-395.48	0.00	0.00	0.00
5,500.00	12.36	224.09	5,439.98	-413.97	-401.07	-410.73	0.00	0.00	0.00
5,600.00	12.36	224.09	5,537.66	-429.34	-415.97	-425.99	0.00	0.00	0.00
5,700.00	12.36	224.09	5,635.35	-444.72	-430.86	-441.25	0.00	0.00	0.00
5,800.00	12.36	224.09	5,733.03	-460.10	-445.76	-456.50	0.00	0.00	0.00
5,900.00	12.36	224.09	5,830.71	-475.47	-460.66	-471.76	0.00	0.00	0.00
6,000.00	12.36	224.09	5,928.39	-490.85	-475.56	-487.02	0.00	0.00	0.00
6,100.00	12.36	224.09	6,026.07	-506.23	-490.46	-502.27	0.00	0.00	0.00
6,200.00	12.36	224.09	6,123.75	-521.60	-505.35	-517.53	0.00	0.00	0.00
6,300.00	12.36	224.09	6,221.43	-536.98	-520.25	-532.79	0.00	0.00	0.00
6,400.00	12.36	224.09	6,319.11	-552.36	-535.15	-548.04	0.00	0.00	0.00
6,500.00	12.36	224.09	6,416.79	-567.73	-550.05	-563.30	0.00	0.00	0.00
6,600.00	12.36	224.09	6,514.48	-583.11	-564.94	-578.56	0.00	0.00	0.00
6,700.00	12.36	224.09	6,612.16	-598.49	-579.84	-593.81	0.00	0.00	0.00
6,800.00	12.36	224.09	6,709.84	-613.86	-594.74	-609.07	0.00	0.00	0.00
6,900.00	12.36	224.09	6,807.52	-629.24	-609.64	-624.33	0.00	0.00	0.00
7,000.00	12.36	224.09	6,905.20	-644.62	-624.54	-639.58	0.00	0.00	0.00
7,100.00	12.36	224.09	7,002.88	-659.99	-639.43	-654.84	0.00	0.00	0.00
7,200.00	12.36	224.09	7,100.56	-675.37	-654.33	-670.10	0.00	0.00	0.00
7,300.00	12.36	224.09	7,198.24	-690.75	-669.23	-685.35	0.00	0.00	0.00
7,400.00	12.36	224.09	7,295.93	-706.13	-684.13	-700.61	0.00	0.00	0.00
7,500.00	12.36	224.09	7,393.61	-721.50	-699.03	-715.87	0.00	0.00	0.00
7,600.00	12.36	224.09	7,491.29	-736.88	-713.92	-731.12	0.00	0.00	0.00
7,700.00	12.36	224.09	7,588.97	-752.26	-728.82	-746.38	0.00	0.00	0.00
7,800.00	12.36	224.09	7,686.65	-767.63	-743.72	-761.64	0.00	0.00	0.00
7,900.00	12.36	224.09	7,784.33	-783.01	-758.62	-776.89	0.00	0.00	0.00
8,000.00	12.36	224.09	7,882.01	-798.39	-773.51	-792.15	0.00	0.00	0.00
8,034.08	12.36	224.09	7,915.30	-803.63	-778.59	-797.35	0.00	0.00	0.00
8,050.00	11.30	229.87	7,930.88	-805.86	-780.97	-799.56	10.00	-6.69	36.29
8,100.00	9.01	255.46	7,980.12	-810.00	-788.51	-803.64	10.00	-4.58	51.17
8,150.00	9.18	287.48	8,029.53	-809.78	-796.11	-803.37	10.00	0.35	64.04
8,200.00	11.71	311.63	8,078.72	-805.21	-803.71	-798.73	10.00	5.05	48.30
8,250.00	15.47	325.79	8,127.32	-796.32	-811.25	-789.78	10.00	7.53	28.33
8,300.00	19.78	334.23	8,174.97	-783.18	-818.69	-776.58	10.00	8.62	16.87
8,350.00	24.35	339.68	8,221.30	-765.88	-825.95	-759.22	10.00	9.13	10.89
8,400.00	29.05	343.47	8,265.96	-744.56	-832.99	-737.85	10.00	9.41	7.59
8,450.00	33.83	346.28	8,308.61	-719.38	-839.75	-712.62	10.00	9.56	5.62
8,500.00	38.67	348.46	8,348.92	-690.54	-846.18	-683.72	10.00	9.66	4.36
8,550.00	43.53	350.22	8,386.59	-658.25	-852.23	-651.38	10.00	9.73	3.53
8,600.00	48.42	351.70	8,421.33	-622.75	-857.86	-615.84	10.00	9.77	2.95
8,650.00	53.32	352.96	8,452.87	-584.33	-863.02	-577.38	10.00	9.81	2.53
8,700.00	58.23	354.08	8,480.99	-543.26	-867.67	-536.28	10.00	9.83	2.23
8,750.00	63.16	355.08	8,505.45	-499.87	-871.78	-492.85	10.00	9.85	2.00
8,800.00	68.09	355.99	8,526.08	-454.48	-875.32	-447.43	10.00	9.86	1.83
8,850.00	73.02	356.85	8,542.72	-407.43	-878.25	-400.37	10.00	9.87	1.71
8,900.00	77.96	357.66	8,555.25	-359.10	-880.57	-352.02	10.00	9.88	1.62
8,950.00	82.90	358.44	8,563.56	-309.84	-882.24	-302.75	10.00	9.88	1.56
9,000.00	87.84	359.21	8,567.59	-260.03	-883.26	-252.93	10.00	9.88	1.53
9,021.84	90.00	359.54	8,568.00	-238.20	-883.50	-231.10	10.00	9.88	1.52
LM #401: FTP/ LP									
9,100.00	90.00	359.54	8,568.00	-160.04	-884.13	-152.93	0.00	0.00	0.00



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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)
9,200.00	90.00	359.54	8,568.00	-60.04	-884.93	-52.93	0.00	0.00	0.00
9,300.00	90.00	359.54	8,568.00	39.96	-885.73	47.07	0.00	0.00	0.00
9,400.00	90.00	359.54	8,568.00	139.95	-886.53	147.07	0.00	0.00	0.00
9,500.00	90.00	359.54	8,568.00	239.95	-887.34	247.07	0.00	0.00	0.00
9,600.00	90.00	359.54	8,568.00	339.95	-888.14	347.07	0.00	0.00	0.00
9,700.00	90.00	359.54	8,568.00	439.94	-888.94	447.07	0.00	0.00	0.00
9,800.00	90.00	359.54	8,568.00	539.94	-889.75	547.07	0.00	0.00	0.00
9,900.00	90.00	359.54	8,568.00	639.94	-890.55	647.07	0.00	0.00	0.00
10,000.00	90.00	359.54	8,568.00	739.93	-891.35	747.07	0.00	0.00	0.00
10,100.00	90.00	359.54	8,568.00	839.93	-892.15	847.07	0.00	0.00	0.00
10,200.00	90.00	359.54	8,568.00	939.93	-892.96	947.07	0.00	0.00	0.00
10,300.00	90.00	359.54	8,568.00	1,039.92	-893.76	1,047.07	0.00	0.00	0.00
10,400.00	90.00	359.54	8,568.00	1,139.92	-894.56	1,147.07	0.00	0.00	0.00
10,500.00	90.00	359.54	8,568.00	1,239.92	-895.36	1,247.07	0.00	0.00	0.00
10,600.00	90.00	359.54	8,568.00	1,339.91	-896.17	1,347.07	0.00	0.00	0.00
10,700.00	90.00	359.54	8,568.00	1,439.91	-896.97	1,447.07	0.00	0.00	0.00
10,800.00	90.00	359.54	8,568.00	1,539.91	-897.77	1,547.07	0.00	0.00	0.00
10,900.00	90.00	359.54	8,568.00	1,639.90	-898.57	1,647.07	0.00	0.00	0.00
11,000.00	90.00	359.54	8,568.00	1,739.90	-899.38	1,747.07	0.00	0.00	0.00
11,100.00	90.00	359.54	8,568.00	1,839.90	-900.18	1,847.07	0.00	0.00	0.00
11,200.00	90.00	359.54	8,568.00	1,939.89	-900.98	1,947.07	0.00	0.00	0.00
11,300.00	90.00	359.54	8,568.00	2,039.89	-901.78	2,047.07	0.00	0.00	0.00
11,400.00	90.00	359.54	8,568.00	2,139.89	-902.59	2,147.07	0.00	0.00	0.00
11,500.00	90.00	359.54	8,568.00	2,239.89	-903.39	2,247.07	0.00	0.00	0.00
11,600.00	90.00	359.54	8,568.00	2,339.88	-904.19	2,347.07	0.00	0.00	0.00
11,700.00	90.00	359.54	8,568.00	2,439.88	-904.99	2,447.07	0.00	0.00	0.00
11,800.00	90.00	359.54	8,568.00	2,539.88	-905.80	2,547.07	0.00	0.00	0.00
11,900.00	90.00	359.54	8,568.00	2,639.87	-906.60	2,647.07	0.00	0.00	0.00
12,000.00	90.00	359.54	8,568.00	2,739.87	-907.40	2,747.07	0.00	0.00	0.00
12,100.00	90.00	359.54	8,568.00	2,839.87	-908.20	2,847.07	0.00	0.00	0.00
12,200.00	90.00	359.54	8,568.00	2,939.86	-909.01	2,947.07	0.00	0.00	0.00
12,300.00	90.00	359.54	8,568.00	3,039.86	-909.81	3,047.07	0.00	0.00	0.00
12,400.00	90.00	359.54	8,568.00	3,139.86	-910.61	3,147.07	0.00	0.00	0.00
12,500.00	90.00	359.54	8,568.00	3,239.85	-911.41	3,247.07	0.00	0.00	0.00
12,600.00	90.00	359.54	8,568.00	3,339.85	-912.22	3,347.07	0.00	0.00	0.00
12,700.00	90.00	359.54	8,568.00	3,439.85	-913.02	3,447.07	0.00	0.00	0.00
12,800.00	90.00	359.54	8,568.00	3,539.84	-913.82	3,547.07	0.00	0.00	0.00
12,900.00	90.00	359.54	8,568.00	3,639.84	-914.62	3,647.07	0.00	0.00	0.00
13,000.00	90.00	359.54	8,568.00	3,739.84	-915.43	3,747.07	0.00	0.00	0.00
13,100.00	90.00	359.54	8,568.00	3,839.83	-916.23	3,847.07	0.00	0.00	0.00
13,200.00	90.00	359.54	8,568.00	3,939.83	-917.03	3,947.07	0.00	0.00	0.00
13,300.00	90.00	359.54	8,568.00	4,039.83	-917.83	4,047.07	0.00	0.00	0.00
13,400.00	90.00	359.54	8,568.00	4,139.82	-918.64	4,147.07	0.00	0.00	0.00
13,500.00	90.00	359.54	8,568.00	4,239.82	-919.44	4,247.07	0.00	0.00	0.00
13,600.00	90.00	359.54	8,568.00	4,339.82	-920.24	4,347.07	0.00	0.00	0.00
13,700.00	90.00	359.54	8,568.00	4,439.81	-921.04	4,447.07	0.00	0.00	0.00
13,800.00	90.00	359.54	8,568.00	4,539.81	-921.85	4,547.07	0.00	0.00	0.00
13,900.00	90.00	359.54	8,568.00	4,639.81	-922.65	4,647.07	0.00	0.00	0.00
14,006.00	90.00	359.54	8,568.00	4,745.80	-923.50	4,753.06	0.00	0.00	0.00

LM #401: LTP/ PBHL (150' FNL/ 330' FWL)



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Planning Report

Database: EDM 5000.1 Single User Db
Company: XTO Energy
Project: Eddy County, NM (NAD-27)
Site: Los Medanos 36-23-30
Well: #401H
Wellbore: OH
Design: PERMIT

Local Co-ordinate Reference: Well #401H
TVD Reference: RKB = 17' @ 3428.00usft
MD Reference: RKB = 17' @ 3428.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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
LM #401: SHL (832' F - plan hits target center - Point	0.00	0.00	0.00	0.00	0.00	456,871.90	652,961.40	32.255089	-103.838529
LM #401: FTP/ LP - plan hits target center - Point	0.00	0.01	8,568.00	-238.20	-883.50	456,633.70	652,077.90	32.254445	-103.841391
LM #401: LTP/ PBHL - plan hits target center - Point	0.00	0.01	8,568.00	4,745.80	-923.50	461,617.70	652,037.90	32.268146	-103.841446

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
154.00	154.00	Rustler			
611.00	611.00	Top Salt*			
3,790.37	3,770.00	Base of Salt (Anhydrite)			
4,068.83	4,042.00	Bell Canyon Ss./ Delaware			
4,991.22	4,943.00	Cherry Canyon Ss.			
6,648.65	6,562.00	Brushy Canyon Ss.			
8,007.15	7,889.00	Bone Spring Lm.			
8,084.68	7,965.00	Avalon Ss.			
8,106.96	7,987.00	Bone Spg. Upper Avalon Shale			
8,717.55	8,490.00	Bone Spg. Lower Avalon Shale			
9,021.84	8,568.00	LP			