



NM OIL CONSERVATION

ARTESIA DISTRICT

OCT 09 2018

RECEIVED

XTO Energy

Eddy County, NM (NAD-27)

Los Medanos 36-23-30

#701H

30-015-45312

OH

Plan: PERMIT

Standard Planning Report

11 September, 2018



Project: Eddy County, NM (NAD-27)
 Site: Los Medanos 36-23-30
 Well: #701H
 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 1886
 Zone: New Mexico East 3001
 System Datum: Mean Sea Level

WELL DETAILS: #701H

Rig Name: RKB - 17' @ 3429.00usft
 Ground Level: 3412.00
 +N/-S: 0.00 +E/-W: 0.00 Northing: 456841.80 Easting: 652961.00 Latitude: 32.255008 Longitude: -103.838531

DESIGN TARGET DETAILS

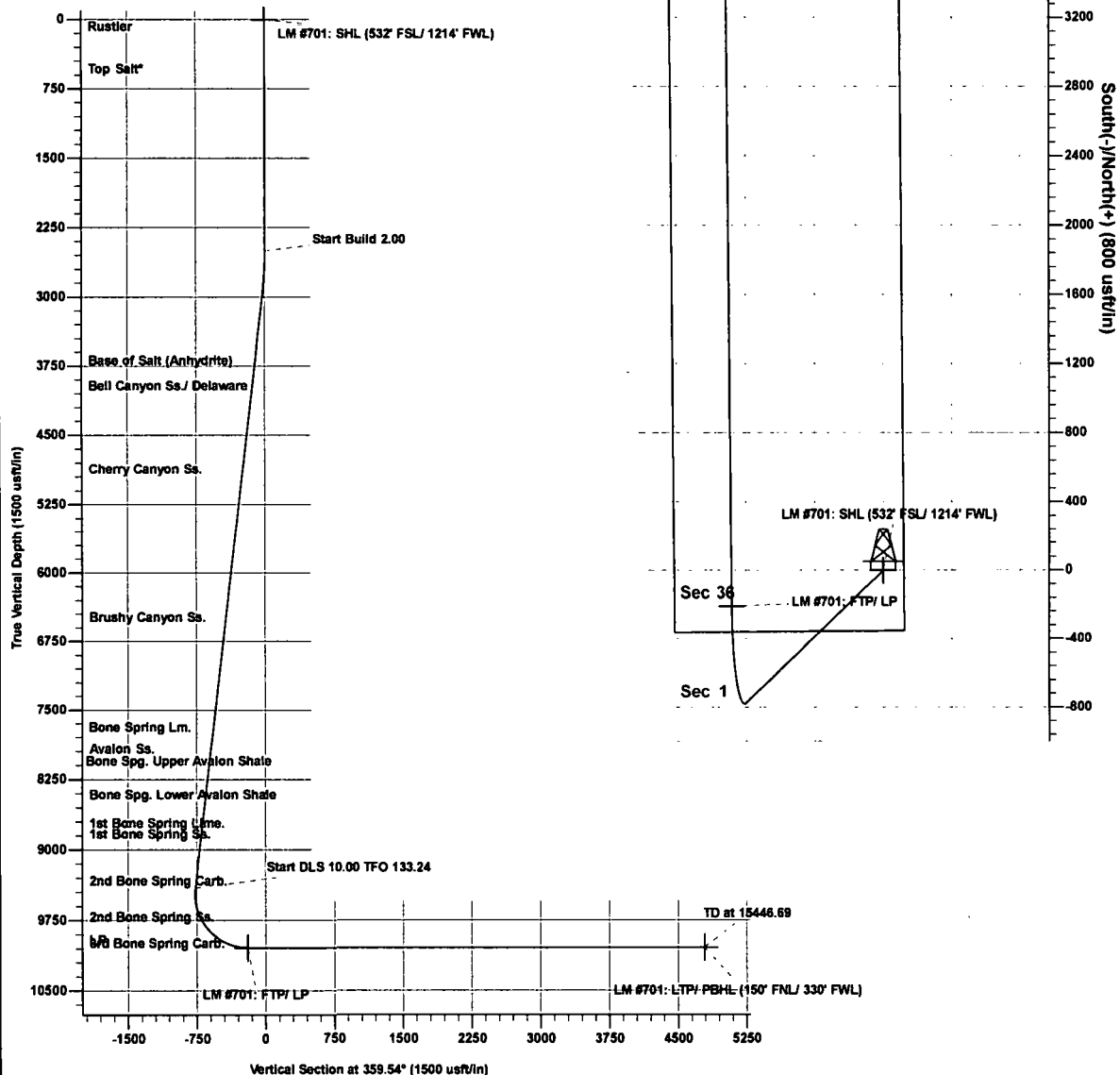
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
LM #701: SHL (532' FSL/ 1214' FWL)	0.00	0.00	0.00	456841.80	652961.00	32.255008	-103.838531	Point
LM #701: FTP/ LP	10039.00	-208.10	-883.10	456833.70	652077.90	32.254445	-103.841390	Point
LM #701: LTP/ PBHL (150' FNL/ 330' FWL)	10039.00	4775.90	-923.10	461817.70	652037.90	32.268146	-103.841446	Point

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	2500.00	0.00	0.00	2500.00	0.00	0.00	0.00	0.00	0.00
3	2975.23	9.50	225.91	2973.08	-27.38	-28.25	2.00	225.91	-27.14
4	6497.10	9.50	225.91	9405.40	-778.89	-801.75	0.00	0.00	-770.23
5	10482.53	90.00	359.54	10039.00	-208.10	-883.10	10.00	133.24	-201.00
6	15446.69	90.00	359.54	10039.00	4775.90	-923.10	0.00	0.00	4783.16

FORMATION TOP DETAILS

TVDPath	Formation
155.00	Rustler
612.00	Top Salt*
3771.00	Base of Salt (Anhydrite)
4043.00	Bell Canyon Ss./ Delaware
4944.00	Cherry Canyon Ss.
6563.00	Brushy Canyon Ss.
7890.00	Bone Spring Lm.
7966.00	Avalon Ss.
7988.00	Bone Spg. Upper Avalon Shale
8491.00	Bone Spg. Lower Avalon Shale
8792.00	1st Bone Spring Lime.
8909.00	1st Bone Spring Ss.
9409.00	2nd Bone Spring Carb.
9790.00	2nd Bone Spring Ss.
10039.00	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 (#701H/OH)

Created By: Prototype Well Planning, LLC Date: 9:27, September 11 2018



www.prototypewellplanning.com
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: #701H
Wellbore: OH
Design: PERMIT

Local Co-ordinate Reference: Well #701H
TVD Reference: RKB = 17' @ 3429.00usft
MD Reference: RKB = 17' @ 3429.00usft
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	Latitude: 32.255089
From:	Map	Easting:	652,961.40 usft	Longitude: -103.838529
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence: 0.26 °

Well	#701H			
Well Position	+N/-S	-30.10 usft	Northing:	456,841.80 usft
	+E/-W	-0.40 usft	Easting:	652,961.00 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level: 3,412.00 usft

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

Design	PERMIT			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	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	
2,975.23	9.50	225.91	2,973.06	-27.36	-28.25	2.00	2.00	0.00	225.91	
9,497.10	9.50	225.91	9,405.40	-776.69	-801.75	0.00	0.00	0.00	0.00	
10,462.53	90.00	359.54	10,039.00	-208.10	-883.10	10.00	8.34	13.84	133.24	LM #701: FTP/ LP
15,446.69	90.00	359.54	10,039.00	4,775.90	-923.10	0.00	0.00	0.00	0.00	LM #701: LTP/ PB+



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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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LM #701: SHL (532' FSL/ 1214' 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	225.91	2,599.98	-1.21	-1.25	-1.20	2.00	2.00	0.00
2,700.00	4.00	225.91	2,699.84	-4.86	-5.01	-4.82	2.00	2.00	0.00
2,800.00	6.00	225.91	2,799.45	-10.92	-11.27	-10.83	2.00	2.00	0.00
2,900.00	8.00	225.91	2,898.70	-19.40	-20.02	-19.24	2.00	2.00	0.00
2,975.23	9.50	225.91	2,973.06	-27.36	-28.25	-27.14	2.00	2.00	0.00
3,000.00	9.50	225.91	2,997.48	-30.21	-31.18	-29.96	0.00	0.00	0.00
3,100.00	9.50	225.91	3,096.11	-41.70	-43.04	-41.35	0.00	0.00	0.00
3,200.00	9.50	225.91	3,194.74	-53.19	-54.90	-52.75	0.00	0.00	0.00
3,300.00	9.50	225.91	3,293.37	-64.68	-66.76	-64.14	0.00	0.00	0.00
3,400.00	9.50	225.91	3,391.99	-76.17	-78.62	-75.53	0.00	0.00	0.00
3,500.00	9.50	225.91	3,490.62	-87.66	-90.48	-86.93	0.00	0.00	0.00
3,600.00	9.50	225.91	3,589.25	-99.15	-102.35	-98.32	0.00	0.00	0.00
3,700.00	9.50	225.91	3,687.87	-110.64	-114.21	-109.72	0.00	0.00	0.00
3,800.00	9.50	225.91	3,786.50	-122.13	-126.07	-121.11	0.00	0.00	0.00
3,900.00	9.50	225.91	3,885.13	-133.61	-137.93	-132.50	0.00	0.00	0.00
4,000.00	9.50	225.91	3,983.76	-145.10	-149.79	-143.90	0.00	0.00	0.00
4,100.00	9.50	225.91	4,082.38	-156.59	-161.65	-155.29	0.00	0.00	0.00
4,200.00	9.50	225.91	4,181.01	-168.08	-173.51	-166.68	0.00	0.00	0.00
4,300.00	9.50	225.91	4,279.64	-179.57	-185.37	-178.08	0.00	0.00	0.00
4,400.00	9.50	225.91	4,378.26	-191.06	-197.23	-189.47	0.00	0.00	0.00
4,500.00	9.50	225.91	4,476.89	-202.55	-209.09	-200.87	0.00	0.00	0.00
4,600.00	9.50	225.91	4,575.52	-214.04	-220.95	-212.26	0.00	0.00	0.00
4,700.00	9.50	225.91	4,674.15	-225.53	-232.81	-223.65	0.00	0.00	0.00
4,800.00	9.50	225.91	4,772.77	-237.02	-244.67	-235.05	0.00	0.00	0.00
4,900.00	9.50	225.91	4,871.40	-248.51	-256.53	-246.44	0.00	0.00	0.00
5,000.00	9.50	225.91	4,970.03	-260.00	-268.39	-257.84	0.00	0.00	0.00
5,100.00	9.50	225.91	5,068.66	-271.49	-280.25	-269.23	0.00	0.00	0.00



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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)
5,200.00	9.50	225.91	5,167.28	-282.98	-292.11	-280.62	0.00	0.00	0.00
5,300.00	9.50	225.91	5,265.91	-294.47	-303.97	-292.02	0.00	0.00	0.00
5,400.00	9.50	225.91	5,364.54	-305.96	-315.83	-303.41	0.00	0.00	0.00
5,500.00	9.50	225.91	5,463.16	-317.45	-327.69	-314.80	0.00	0.00	0.00
5,600.00	9.50	225.91	5,561.79	-328.94	-339.55	-326.20	0.00	0.00	0.00
5,700.00	9.50	225.91	5,660.42	-340.42	-351.41	-337.59	0.00	0.00	0.00
5,800.00	9.50	225.91	5,759.05	-351.91	-363.27	-348.99	0.00	0.00	0.00
5,900.00	9.50	225.91	5,857.67	-363.40	-375.13	-360.38	0.00	0.00	0.00
6,000.00	9.50	225.91	5,956.30	-374.89	-386.99	-371.77	0.00	0.00	0.00
6,100.00	9.50	225.91	6,054.93	-386.38	-398.85	-383.17	0.00	0.00	0.00
6,200.00	9.50	225.91	6,153.55	-397.87	-410.71	-394.56	0.00	0.00	0.00
6,300.00	9.50	225.91	6,252.18	-409.36	-422.57	-405.96	0.00	0.00	0.00
6,400.00	9.50	225.91	6,350.81	-420.85	-434.43	-417.35	0.00	0.00	0.00
6,500.00	9.50	225.91	6,449.44	-432.34	-446.29	-428.74	0.00	0.00	0.00
6,600.00	9.50	225.91	6,548.06	-443.83	-458.15	-440.14	0.00	0.00	0.00
6,700.00	9.50	225.91	6,646.69	-455.32	-470.01	-451.53	0.00	0.00	0.00
6,800.00	9.50	225.91	6,745.32	-466.81	-481.87	-462.93	0.00	0.00	0.00
6,900.00	9.50	225.91	6,843.95	-478.30	-493.73	-474.32	0.00	0.00	0.00
7,000.00	9.50	225.91	6,942.57	-489.79	-505.59	-485.71	0.00	0.00	0.00
7,100.00	9.50	225.91	7,041.20	-501.28	-517.45	-497.11	0.00	0.00	0.00
7,200.00	9.50	225.91	7,139.83	-512.77	-529.31	-508.50	0.00	0.00	0.00
7,300.00	9.50	225.91	7,238.45	-524.26	-541.17	-519.89	0.00	0.00	0.00
7,400.00	9.50	225.91	7,337.08	-535.75	-553.03	-531.29	0.00	0.00	0.00
7,500.00	9.50	225.91	7,435.71	-547.24	-564.89	-542.68	0.00	0.00	0.00
7,600.00	9.50	225.91	7,534.34	-558.72	-576.75	-554.08	0.00	0.00	0.00
7,700.00	9.50	225.91	7,632.96	-570.21	-588.61	-565.47	0.00	0.00	0.00
7,800.00	9.50	225.91	7,731.59	-581.70	-600.47	-576.86	0.00	0.00	0.00
7,900.00	9.50	225.91	7,830.22	-593.19	-612.33	-588.26	0.00	0.00	0.00
8,000.00	9.50	225.91	7,928.84	-604.68	-624.19	-599.65	0.00	0.00	0.00
8,100.00	9.50	225.91	8,027.47	-616.17	-636.05	-611.05	0.00	0.00	0.00
8,200.00	9.50	225.91	8,126.10	-627.66	-647.91	-622.44	0.00	0.00	0.00
8,300.00	9.50	225.91	8,224.73	-639.15	-659.77	-633.83	0.00	0.00	0.00
8,400.00	9.50	225.91	8,323.35	-650.64	-671.63	-645.23	0.00	0.00	0.00
8,500.00	9.50	225.91	8,421.98	-662.13	-683.49	-656.62	0.00	0.00	0.00
8,600.00	9.50	225.91	8,520.61	-673.62	-695.35	-668.02	0.00	0.00	0.00
8,700.00	9.50	225.91	8,619.24	-685.11	-707.21	-679.41	0.00	0.00	0.00
8,800.00	9.50	225.91	8,717.86	-696.60	-719.07	-690.80	0.00	0.00	0.00
8,900.00	9.50	225.91	8,816.49	-708.09	-730.93	-702.20	0.00	0.00	0.00
9,000.00	9.50	225.91	8,915.12	-719.58	-742.79	-713.59	0.00	0.00	0.00
9,100.00	9.50	225.91	9,013.74	-731.07	-754.65	-724.98	0.00	0.00	0.00
9,200.00	9.50	225.91	9,112.37	-742.56	-766.51	-736.38	0.00	0.00	0.00
9,300.00	9.50	225.91	9,211.00	-754.05	-778.37	-747.77	0.00	0.00	0.00
9,400.00	9.50	225.91	9,309.63	-765.54	-790.24	-759.17	0.00	0.00	0.00
9,497.10	9.50	225.91	9,405.40	-776.69	-801.75	-770.23	0.00	0.00	0.00
9,500.00	9.31	227.21	9,408.25	-777.02	-802.10	-770.55	10.00	-6.77	45.04
9,550.00	7.02	259.24	9,457.77	-780.34	-808.07	-773.82	10.00	-4.57	64.05
9,600.00	7.86	298.10	9,507.38	-779.30	-814.09	-772.74	10.00	1.67	77.73
9,650.00	11.13	321.52	9,556.70	-773.91	-820.11	-767.30	10.00	6.55	46.83
9,700.00	15.36	333.35	9,605.37	-764.20	-826.09	-757.55	10.00	8.45	23.67
9,750.00	19.94	340.02	9,653.01	-750.27	-831.97	-743.56	10.00	9.16	13.34
9,800.00	24.68	344.25	9,699.26	-732.20	-837.72	-725.45	10.00	9.48	8.45
9,850.00	29.50	347.17	9,743.76	-710.14	-843.29	-703.34	10.00	9.64	5.85
9,900.00	34.37	349.33	9,786.19	-684.25	-848.64	-677.42	10.00	9.74	4.32
9,950.00	39.26	351.01	9,826.21	-654.74	-853.73	-647.86	10.00	9.80	3.36



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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)
10,000.00	44.18	352.38	9,863.51	-621.82	-858.51	-614.91	10.00	9.83	2.72
10,050.00	49.11	353.52	9,897.83	-585.75	-862.96	-578.80	10.00	9.86	2.28
10,100.00	54.05	354.50	9,928.89	-546.80	-867.04	-539.82	10.00	9.88	1.96
10,150.00	59.00	355.36	9,956.46	-505.27	-870.71	-498.26	10.00	9.90	1.73
10,200.00	63.95	356.14	9,980.33	-461.47	-873.96	-454.44	10.00	9.91	1.56
10,250.00	68.91	356.86	10,000.32	-415.74	-876.75	-408.69	10.00	9.91	1.43
10,300.00	73.87	357.53	10,016.27	-368.43	-879.06	-361.36	10.00	9.92	1.34
10,350.00	78.83	358.17	10,028.07	-319.89	-880.88	-312.81	10.00	9.92	1.27
10,400.00	83.79	358.78	10,035.62	-270.50	-882.19	-263.41	10.00	9.93	1.23
10,450.00	88.76	359.39	10,038.86	-220.63	-882.98	-213.53	10.00	9.93	1.21
10,462.53	90.00	359.54	10,039.00	-208.10	-883.10	-201.00	10.00	9.93	1.20
LM #701: FTP/LP									
10,500.00	90.00	359.54	10,039.00	-170.63	-883.40	-163.53	0.00	0.00	0.00
10,600.00	90.00	359.54	10,039.00	-70.63	-884.20	-63.53	0.00	0.00	0.00
10,700.00	90.00	359.54	10,039.00	29.36	-885.01	36.47	0.00	0.00	0.00
10,800.00	90.00	359.54	10,039.00	129.36	-885.81	136.47	0.00	0.00	0.00
10,900.00	90.00	359.54	10,039.00	229.36	-886.61	236.47	0.00	0.00	0.00
11,000.00	90.00	359.54	10,039.00	329.36	-887.41	336.47	0.00	0.00	0.00
11,100.00	90.00	359.54	10,039.00	429.35	-888.22	436.47	0.00	0.00	0.00
11,200.00	90.00	359.54	10,039.00	529.35	-889.02	536.47	0.00	0.00	0.00
11,300.00	90.00	359.54	10,039.00	629.35	-889.82	636.47	0.00	0.00	0.00
11,400.00	90.00	359.54	10,039.00	729.34	-890.62	736.47	0.00	0.00	0.00
11,500.00	90.00	359.54	10,039.00	829.34	-891.43	836.47	0.00	0.00	0.00
11,600.00	90.00	359.54	10,039.00	929.34	-892.23	936.47	0.00	0.00	0.00
11,700.00	90.00	359.54	10,039.00	1,029.33	-893.03	1,036.47	0.00	0.00	0.00
11,800.00	90.00	359.54	10,039.00	1,129.33	-893.83	1,136.47	0.00	0.00	0.00
11,900.00	90.00	359.54	10,039.00	1,229.33	-894.64	1,236.47	0.00	0.00	0.00
12,000.00	90.00	359.54	10,039.00	1,329.32	-895.44	1,336.47	0.00	0.00	0.00
12,100.00	90.00	359.54	10,039.00	1,429.32	-896.24	1,436.47	0.00	0.00	0.00
12,200.00	90.00	359.54	10,039.00	1,529.32	-897.04	1,536.47	0.00	0.00	0.00
12,300.00	90.00	359.54	10,039.00	1,629.31	-897.85	1,636.47	0.00	0.00	0.00
12,400.00	90.00	359.54	10,039.00	1,729.31	-898.65	1,736.47	0.00	0.00	0.00
12,500.00	90.00	359.54	10,039.00	1,829.31	-899.45	1,836.47	0.00	0.00	0.00
12,600.00	90.00	359.54	10,039.00	1,929.30	-900.25	1,936.47	0.00	0.00	0.00
12,700.00	90.00	359.54	10,039.00	2,029.30	-901.06	2,036.47	0.00	0.00	0.00
12,800.00	90.00	359.54	10,039.00	2,129.30	-901.86	2,136.47	0.00	0.00	0.00
12,900.00	90.00	359.54	10,039.00	2,229.29	-902.66	2,236.47	0.00	0.00	0.00
13,000.00	90.00	359.54	10,039.00	2,329.29	-903.46	2,336.47	0.00	0.00	0.00
13,100.00	90.00	359.54	10,039.00	2,429.29	-904.27	2,436.47	0.00	0.00	0.00
13,200.00	90.00	359.54	10,039.00	2,529.28	-905.07	2,536.47	0.00	0.00	0.00
13,300.00	90.00	359.54	10,039.00	2,629.28	-905.87	2,636.47	0.00	0.00	0.00
13,400.00	90.00	359.54	10,039.00	2,729.28	-906.67	2,736.47	0.00	0.00	0.00
13,500.00	90.00	359.54	10,039.00	2,829.27	-907.48	2,836.47	0.00	0.00	0.00
13,600.00	90.00	359.54	10,039.00	2,929.27	-908.28	2,936.47	0.00	0.00	0.00
13,700.00	90.00	359.54	10,039.00	3,029.27	-909.08	3,036.47	0.00	0.00	0.00
13,800.00	90.00	359.54	10,039.00	3,129.27	-909.88	3,136.47	0.00	0.00	0.00
13,900.00	90.00	359.54	10,039.00	3,229.26	-910.69	3,236.47	0.00	0.00	0.00
14,000.00	90.00	359.54	10,039.00	3,329.26	-911.49	3,336.47	0.00	0.00	0.00
14,100.00	90.00	359.54	10,039.00	3,429.26	-912.29	3,436.47	0.00	0.00	0.00
14,200.00	90.00	359.54	10,039.00	3,529.25	-913.09	3,536.47	0.00	0.00	0.00
14,300.00	90.00	359.54	10,039.00	3,629.25	-913.90	3,636.47	0.00	0.00	0.00
14,400.00	90.00	359.54	10,039.00	3,729.25	-914.70	3,736.47	0.00	0.00	0.00
14,500.00	90.00	359.54	10,039.00	3,829.24	-915.50	3,836.47	0.00	0.00	0.00
14,600.00	90.00	359.54	10,039.00	3,929.24	-916.30	3,936.47	0.00	0.00	0.00



Database: EDM 5000.1 Single User Db
 Company: XTO Energy
 Project: Eddy County, NM (NAD-27)
 Site: Los Medanos 36-23-30
 Well: #701H
 Wellbore: OH
 Design: PERMIT

Local Co-ordinate Reference: Well #701H
 TVD Reference: RKB = 17' @ 3429.00usft
 MD Reference: RKB = 17' @ 3429.00usft
 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)
14,700.00	90.00	359.54	10,039.00	4,029.24	-917.11	4,036.47	0.00	0.00	0.00
14,800.00	90.00	359.54	10,039.00	4,129.23	-917.91	4,136.47	0.00	0.00	0.00
14,900.00	90.00	359.54	10,039.00	4,229.23	-918.71	4,236.47	0.00	0.00	0.00
15,000.00	90.00	359.54	10,039.00	4,329.23	-919.52	4,336.47	0.00	0.00	0.00
15,100.00	90.00	359.54	10,039.00	4,429.22	-920.32	4,436.47	0.00	0.00	0.00
15,200.00	90.00	359.54	10,039.00	4,529.22	-921.12	4,536.47	0.00	0.00	0.00
15,300.00	90.00	359.54	10,039.00	4,629.22	-921.92	4,636.47	0.00	0.00	0.00
15,400.00	90.00	359.54	10,039.00	4,729.21	-922.73	4,736.47	0.00	0.00	0.00
15,446.69	90.00	359.54	10,039.00	4,775.90	-923.10	4,783.16	0.00	0.00	0.00

LM #701: LTP/ PBHL (150' FNL/ 330' FWL)

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 #701: SHL (532' F - plan hits target center - Point	0.00	0.00	0.00	0.00	0.00	456,841.80	652,961.00	32.255006	-103.838531
LM #701: FTP/ LP - plan hits target center - Point	0.00	0.01	10,039.00	-208.10	-883.10	456,633.70	652,077.90	32.254445	-103.841391
LM #701: LTP/ PBHL - plan hits target center - Point	0.00	0.01	10,039.00	4,775.90	-923.10	461,617.70	652,037.90	32.268146	-103.841446

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
155.00	155.00	Rustler			
612.00	612.00	Top Salt*			
3,784.28	3,771.00	Base of Salt (Anhydrite)			
4,060.07	4,043.00	Bell Canyon Ss./ Delaware			
4,973.61	4,944.00	Cherry Canyon Ss.			
6,615.14	6,563.00	Brushy Canyon Ss.			
7,960.62	7,890.00	Bone Spring Lm.			
8,037.67	7,966.00	Avalon Ss.			
8,059.98	7,988.00	Bone Spg. Upper Avalon Shale			
8,569.98	8,491.00	Bone Spg. Lower Avalon Shale			
8,875.17	8,792.00	1st Bone Spring Lime.			
8,993.80	8,909.00	1st Bone Spring Ss.			
9,500.76	9,409.00	2nd Bone Spring Carb.			
9,904.63	9,790.00	2nd Bone Spring Ss.			
10,462.53	10,039.00	LP			