



NM OIL CONSERVATION
ARTESIA DISTRICT

OCT 09 2018

RECEIVED

XTO Energy

Eddy County, NM (NAD-27)

Los Medanos 36-23-30

#702H

30-015-45313

OH

Plan: PERMIT

Standard Planning Report

11 September, 2018



Project: Eddy County, NM (NAD-27)
Site: Los Medanos 38-23-30
Well: #702H
Wellbore: CH
Design: PERMIT

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

WELL DETAILS: #702H

Rig Name: RKB = 17 @ 3428.00uqt
Ground Level: 3412.00
Elevation: 32.255028
Longitude: -103.835988
Latitude: 32.255028
Longitude: -103.835988
Latitude: 32.255028

DESIGN TARGET DETAILS

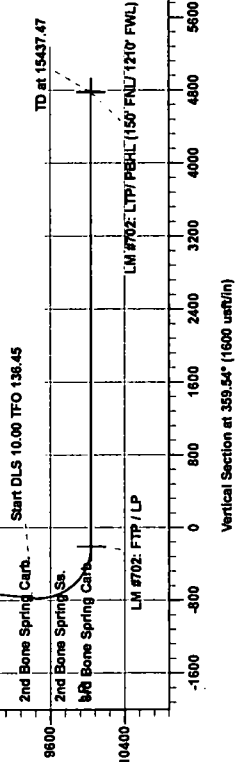
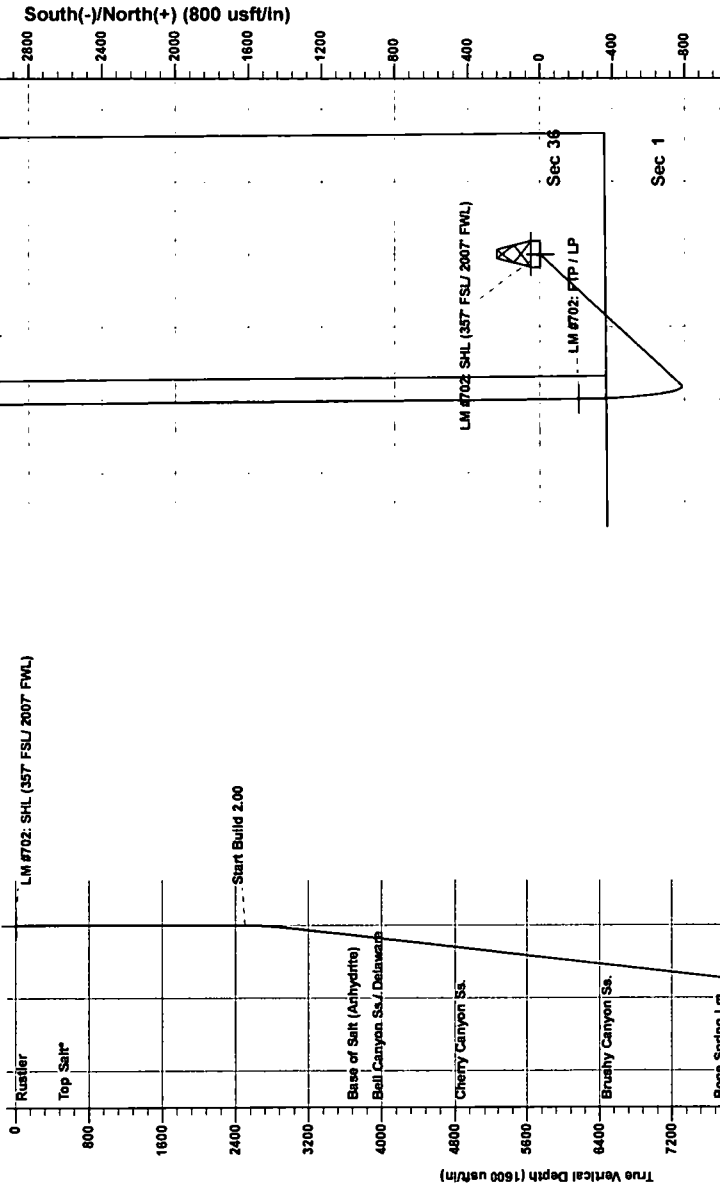
Name	TVD	N/S	E/W	East	North	Longitude	Latitude	Shape
LM #702 SHL (357 FSU 2007 FWL)	10039.00	0.00	0.00	653753.90	32.255028	-103.835988	Point	
LM #702 FTP /LP	10039.00	-213.30	-788.00	456853.50	653753.90	-103.835442	Point	
LM #702 LTP PBHL (150' FNU /1210' FWL)	10039.00	4770.70	-436.10	456853.50	653753.90	-103.835969	Point	

SECTION DETAILS

Sec	MO	Inc	Azi	TVD	+N/S	+E/W	TFace	VFace
2	2500.00	0.00	0.00	2500.00	0.00	0.00	0.00	0.00
3	2852.85	9.06	222.73	2852.85	-24.23	2.00	222.73	-28.04
4	8487.40	9.06	222.73	8487.40	-781.80	-722.15	0.00	-778.07
5	15437.47	80.00	339.54	10039.00	4770.70	-436.10	138.00	-477.26
6	15437.47	80.00	339.54	10039.00	4770.70	-436.10	0.00	477.26

FORMATION TOP DETAILS

TVD/Path	Formation
155.00	Rustler
612.00	Top Salt*
3771.00	Base of Salt (Anhydrite)
4043.00	Bell Canyon Ss./Delaware
4844.00	Cherry Canyon Ss.
7863.00	Brushy Canyon Ss.
7863.00	Bone Spring Lm.
7866.00	Avallan Ss.
7866.00	Bone Spg. Upper Avalon Shale
8491.00	Bone Spg. Lower Avalon Shale
8792.00	1st Bone Spring Lime
8809.00	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, time and time represented. Any errors or omissions are the sole risk and responsibility of the customer.

Plan: PERMIT (#702H-04H)

Created By: Prototype Well Planning, LLC Date: 9/42, 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: #702H
Wellbore: OH
Design: PERMIT

Local Co-ordinate Reference: Well #702H
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
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	#702H		
Well Position	+N/-S	-18.40 usft	Northing: 456,853.50 usft
	+E/-W	792.50 usft	Easting: 653,753.90 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft
		Latitude:	32.255028
		Longitude:	-103.835966
		Ground Level:	3,412.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	9/11/2018	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	
2,952.85	9.06	222.73	2,950.96	-26.24	-24.23	2.00	2.00	0.00	222.73	
9,487.40	9.06	222.73	9,404.05	-781.90	-722.15	0.00	0.00	0.00	0.00	
10,453.31	90.00	359.54	10,039.00	-213.30	-796.00	10.00	8.38	14.16	136.45	LM #702: FTP / LP
15,437.47	90.00	359.54	10,039.00	4,770.70	-836.10	0.00	0.00	0.00	0.00	LM #702: LTP/ PB+



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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 #702: SHL (357' FSL/ 2007' 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	222.73	2,599.98	-1.28	-1.18	-1.27	2.00	2.00	0.00
2,700.00	4.00	222.73	2,699.84	-5.13	-4.73	-5.09	2.00	2.00	0.00
2,800.00	6.00	222.73	2,799.45	-11.53	-10.65	-11.44	2.00	2.00	0.00
2,900.00	8.00	222.73	2,898.70	-20.48	-18.92	-20.33	2.00	2.00	0.00
2,952.85	9.06	222.73	2,950.96	-26.24	-24.23	-26.04	2.00	2.00	0.00
3,000.00	9.06	222.73	2,997.53	-31.69	-29.27	-31.46	0.00	0.00	0.00
3,100.00	9.06	222.73	3,096.28	-43.26	-39.95	-42.93	0.00	0.00	0.00
3,200.00	9.06	222.73	3,195.04	-54.82	-50.63	-54.41	0.00	0.00	0.00
3,300.00	9.06	222.73	3,293.79	-66.38	-61.31	-65.89	0.00	0.00	0.00
3,400.00	9.06	222.73	3,392.54	-77.95	-71.99	-77.37	0.00	0.00	0.00
3,500.00	9.06	222.73	3,491.29	-89.51	-82.67	-88.84	0.00	0.00	0.00
3,600.00	9.06	222.73	3,590.05	-101.08	-93.35	-100.32	0.00	0.00	0.00
3,700.00	9.06	222.73	3,688.80	-112.64	-104.03	-111.80	0.00	0.00	0.00
3,800.00	9.06	222.73	3,787.55	-124.20	-114.71	-123.28	0.00	0.00	0.00
3,900.00	9.06	222.73	3,886.31	-135.77	-125.39	-134.76	0.00	0.00	0.00
4,000.00	9.06	222.73	3,985.06	-147.33	-136.07	-146.23	0.00	0.00	0.00
4,100.00	9.06	222.73	4,083.81	-158.90	-146.75	-157.71	0.00	0.00	0.00
4,200.00	9.06	222.73	4,182.57	-170.46	-157.44	-169.19	0.00	0.00	0.00
4,300.00	9.06	222.73	4,281.32	-182.02	-168.12	-180.67	0.00	0.00	0.00
4,400.00	9.06	222.73	4,380.07	-193.59	-178.80	-192.15	0.00	0.00	0.00
4,500.00	9.06	222.73	4,478.83	-205.15	-189.48	-203.62	0.00	0.00	0.00
4,600.00	9.06	222.73	4,577.58	-216.72	-200.16	-215.10	0.00	0.00	0.00
4,700.00	9.06	222.73	4,676.33	-228.28	-210.84	-226.58	0.00	0.00	0.00
4,800.00	9.06	222.73	4,775.09	-239.84	-221.52	-238.06	0.00	0.00	0.00
4,900.00	9.06	222.73	4,873.84	-251.41	-232.20	-249.54	0.00	0.00	0.00
5,000.00	9.06	222.73	4,972.59	-262.97	-242.88	-261.01	0.00	0.00	0.00
5,100.00	9.06	222.73	5,071.35	-274.54	-253.56	-272.49	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	9.06	222.73	5,170.10	-286.10	-264.24	-283.97	0.00	0.00	0.00
5,300.00	9.06	222.73	5,268.85	-297.66	-274.92	-295.45	0.00	0.00	0.00
5,400.00	9.06	222.73	5,367.61	-309.23	-285.60	-306.92	0.00	0.00	0.00
5,500.00	9.06	222.73	5,466.36	-320.79	-296.28	-318.40	0.00	0.00	0.00
5,600.00	9.06	222.73	5,565.11	-332.36	-306.96	-329.88	0.00	0.00	0.00
5,700.00	9.06	222.73	5,663.87	-343.92	-317.64	-341.36	0.00	0.00	0.00
5,800.00	9.06	222.73	5,762.62	-355.48	-328.32	-352.84	0.00	0.00	0.00
5,900.00	9.06	222.73	5,861.37	-367.05	-339.00	-364.31	0.00	0.00	0.00
6,000.00	9.06	222.73	5,960.13	-378.61	-349.68	-375.79	0.00	0.00	0.00
6,100.00	9.06	222.73	6,058.88	-390.18	-360.36	-387.27	0.00	0.00	0.00
6,200.00	9.06	222.73	6,157.63	-401.74	-371.04	-398.75	0.00	0.00	0.00
6,300.00	9.06	222.73	6,256.39	-413.30	-381.73	-410.23	0.00	0.00	0.00
6,400.00	9.06	222.73	6,355.14	-424.87	-392.41	-421.70	0.00	0.00	0.00
6,500.00	9.06	222.73	6,453.89	-436.43	-403.09	-433.18	0.00	0.00	0.00
6,600.00	9.06	222.73	6,552.65	-448.00	-413.77	-444.66	0.00	0.00	0.00
6,700.00	9.06	222.73	6,651.40	-459.56	-424.45	-456.14	0.00	0.00	0.00
6,800.00	9.06	222.73	6,750.15	-471.12	-435.13	-467.62	0.00	0.00	0.00
6,900.00	9.06	222.73	6,848.90	-482.69	-445.81	-479.09	0.00	0.00	0.00
7,000.00	9.06	222.73	6,947.66	-494.25	-456.49	-490.57	0.00	0.00	0.00
7,100.00	9.06	222.73	7,046.41	-505.82	-467.17	-502.05	0.00	0.00	0.00
7,200.00	9.06	222.73	7,145.16	-517.38	-477.85	-513.53	0.00	0.00	0.00
7,300.00	9.06	222.73	7,243.92	-528.94	-488.53	-525.00	0.00	0.00	0.00
7,400.00	9.06	222.73	7,342.67	-540.51	-499.21	-536.48	0.00	0.00	0.00
7,500.00	9.06	222.73	7,441.42	-552.07	-509.89	-547.96	0.00	0.00	0.00
7,600.00	9.06	222.73	7,540.18	-563.64	-520.57	-559.44	0.00	0.00	0.00
7,700.00	9.06	222.73	7,638.93	-575.20	-531.25	-570.92	0.00	0.00	0.00
7,800.00	9.06	222.73	7,737.68	-586.76	-541.93	-582.39	0.00	0.00	0.00
7,900.00	9.06	222.73	7,836.44	-598.33	-552.61	-593.87	0.00	0.00	0.00
8,000.00	9.06	222.73	7,935.19	-609.89	-563.29	-605.35	0.00	0.00	0.00
8,100.00	9.06	222.73	8,033.94	-621.46	-573.97	-616.83	0.00	0.00	0.00
8,200.00	9.06	222.73	8,132.70	-633.02	-584.65	-628.31	0.00	0.00	0.00
8,300.00	9.06	222.73	8,231.45	-644.58	-595.33	-639.78	0.00	0.00	0.00
8,400.00	9.06	222.73	8,330.20	-656.15	-606.02	-651.26	0.00	0.00	0.00
8,500.00	9.06	222.73	8,428.96	-667.71	-616.70	-662.74	0.00	0.00	0.00
8,600.00	9.06	222.73	8,527.71	-679.28	-627.38	-674.22	0.00	0.00	0.00
8,700.00	9.06	222.73	8,626.46	-690.84	-638.06	-685.70	0.00	0.00	0.00
8,800.00	9.06	222.73	8,725.22	-702.40	-648.74	-697.17	0.00	0.00	0.00
8,900.00	9.06	222.73	8,823.97	-713.97	-659.42	-708.65	0.00	0.00	0.00
9,000.00	9.06	222.73	8,922.72	-725.53	-670.10	-720.13	0.00	0.00	0.00
9,100.00	9.06	222.73	9,021.48	-737.10	-680.78	-731.61	0.00	0.00	0.00
9,200.00	9.06	222.73	9,120.23	-748.66	-691.46	-743.08	0.00	0.00	0.00
9,300.00	9.06	222.73	9,218.98	-760.22	-702.14	-754.56	0.00	0.00	0.00
9,400.00	9.06	222.73	9,317.74	-771.79	-712.82	-766.04	0.00	0.00	0.00
9,487.40	9.06	222.73	9,404.05	-781.90	-722.15	-776.07	0.00	0.00	0.00
9,500.00	8.19	228.83	9,416.50	-783.21	-723.50	-777.38	10.00	-6.89	48.45
9,550.00	6.23	266.49	9,466.13	-785.73	-728.90	-779.85	10.00	-3.91	75.32
9,600.00	7.78	306.52	9,515.79	-783.88	-734.33	-777.96	10.00	3.08	80.06
9,650.00	11.48	327.06	9,565.09	-777.68	-739.76	-771.72	10.00	7.41	41.08
9,700.00	15.91	337.04	9,613.66	-767.19	-745.14	-761.18	10.00	8.85	19.95
9,750.00	20.59	342.66	9,661.13	-752.48	-750.44	-746.43	10.00	9.37	11.25
9,800.00	25.39	346.25	9,707.15	-733.66	-755.61	-727.57	10.00	9.60	7.18
9,850.00	30.26	348.76	9,751.36	-710.87	-760.62	-704.74	10.00	9.72	5.01
9,900.00	35.15	350.63	9,793.42	-684.30	-765.42	-678.13	10.00	9.80	3.73
9,950.00	40.07	352.09	9,833.01	-654.14	-769.98	-647.93	10.00	9.84	2.92



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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	45.01	353.28	9,869.84	-620.61	-774.27	-614.38	10.00	9.87	2.38
10,050.00	49.96	354.28	9,903.62	-583.99	-778.25	-577.72	10.00	9.89	2.00
10,100.00	54.91	355.14	9,934.10	-544.54	-781.89	-538.24	10.00	9.91	1.73
10,150.00	59.87	355.91	9,961.04	-502.56	-785.17	-496.24	10.00	9.92	1.53
10,200.00	64.83	356.60	9,984.24	-458.38	-788.05	-452.04	10.00	9.92	1.38
10,250.00	69.79	357.24	10,003.52	-412.33	-790.53	-405.97	10.00	9.93	1.28
10,300.00	74.76	357.84	10,018.73	-364.76	-792.57	-358.39	10.00	9.93	1.20
10,350.00	79.73	358.41	10,029.77	-316.04	-794.17	-309.65	10.00	9.94	1.14
10,400.00	84.70	358.96	10,036.54	-266.53	-795.30	-260.13	10.00	9.94	1.11
10,453.31	90.00	359.54	10,039.00	-213.30	-796.00	-206.90	10.00	9.94	1.09
LM #702: FTP / LP									
10,500.00	90.00	359.54	10,039.00	-166.61	-796.38	-160.21	0.00	0.00	0.00
10,600.00	90.00	359.54	10,039.00	-66.61	-797.18	-60.21	0.00	0.00	0.00
10,700.00	90.00	359.54	10,039.00	33.38	-797.98	39.79	0.00	0.00	0.00
10,800.00	90.00	359.54	10,039.00	133.38	-798.79	139.79	0.00	0.00	0.00
10,900.00	90.00	359.54	10,039.00	233.38	-799.59	239.79	0.00	0.00	0.00
11,000.00	90.00	359.54	10,039.00	333.37	-800.40	339.79	0.00	0.00	0.00
11,100.00	90.00	359.54	10,039.00	433.37	-801.20	439.79	0.00	0.00	0.00
11,200.00	90.00	359.54	10,039.00	533.37	-802.01	539.79	0.00	0.00	0.00
11,300.00	90.00	359.54	10,039.00	633.36	-802.81	639.79	0.00	0.00	0.00
11,400.00	90.00	359.54	10,039.00	733.36	-803.62	739.79	0.00	0.00	0.00
11,500.00	90.00	359.54	10,039.00	833.36	-804.42	839.79	0.00	0.00	0.00
11,600.00	90.00	359.54	10,039.00	933.35	-805.23	939.79	0.00	0.00	0.00
11,700.00	90.00	359.54	10,039.00	1,033.35	-806.03	1,039.79	0.00	0.00	0.00
11,800.00	90.00	359.54	10,039.00	1,133.35	-806.83	1,139.79	0.00	0.00	0.00
11,900.00	90.00	359.54	10,039.00	1,233.34	-807.64	1,239.79	0.00	0.00	0.00
12,000.00	90.00	359.54	10,039.00	1,333.34	-808.44	1,339.79	0.00	0.00	0.00
12,100.00	90.00	359.54	10,039.00	1,433.34	-809.25	1,439.79	0.00	0.00	0.00
12,200.00	90.00	359.54	10,039.00	1,533.33	-810.05	1,539.79	0.00	0.00	0.00
12,300.00	90.00	359.54	10,039.00	1,633.33	-810.86	1,639.79	0.00	0.00	0.00
12,400.00	90.00	359.54	10,039.00	1,733.33	-811.66	1,739.79	0.00	0.00	0.00
12,500.00	90.00	359.54	10,039.00	1,833.32	-812.47	1,839.79	0.00	0.00	0.00
12,600.00	90.00	359.54	10,039.00	1,933.32	-813.27	1,939.79	0.00	0.00	0.00
12,700.00	90.00	359.54	10,039.00	2,033.32	-814.08	2,039.79	0.00	0.00	0.00
12,800.00	90.00	359.54	10,039.00	2,133.32	-814.88	2,139.79	0.00	0.00	0.00
12,900.00	90.00	359.54	10,039.00	2,233.31	-815.68	2,239.79	0.00	0.00	0.00
13,000.00	90.00	359.54	10,039.00	2,333.31	-816.49	2,339.79	0.00	0.00	0.00
13,100.00	90.00	359.54	10,039.00	2,433.31	-817.29	2,439.79	0.00	0.00	0.00
13,200.00	90.00	359.54	10,039.00	2,533.30	-818.10	2,539.79	0.00	0.00	0.00
13,300.00	90.00	359.54	10,039.00	2,633.30	-818.90	2,639.79	0.00	0.00	0.00
13,400.00	90.00	359.54	10,039.00	2,733.30	-819.71	2,739.79	0.00	0.00	0.00
13,500.00	90.00	359.54	10,039.00	2,833.29	-820.51	2,839.79	0.00	0.00	0.00
13,600.00	90.00	359.54	10,039.00	2,933.29	-821.32	2,939.79	0.00	0.00	0.00
13,700.00	90.00	359.54	10,039.00	3,033.29	-822.12	3,039.79	0.00	0.00	0.00
13,800.00	90.00	359.54	10,039.00	3,133.28	-822.93	3,139.79	0.00	0.00	0.00
13,900.00	90.00	359.54	10,039.00	3,233.28	-823.73	3,239.79	0.00	0.00	0.00
14,000.00	90.00	359.54	10,039.00	3,333.28	-824.53	3,339.79	0.00	0.00	0.00
14,100.00	90.00	359.54	10,039.00	3,433.27	-825.34	3,439.79	0.00	0.00	0.00
14,200.00	90.00	359.54	10,039.00	3,533.27	-826.14	3,539.79	0.00	0.00	0.00
14,300.00	90.00	359.54	10,039.00	3,633.27	-826.95	3,639.79	0.00	0.00	0.00
14,400.00	90.00	359.54	10,039.00	3,733.26	-827.75	3,739.79	0.00	0.00	0.00
14,500.00	90.00	359.54	10,039.00	3,833.26	-828.56	3,839.79	0.00	0.00	0.00
14,600.00	90.00	359.54	10,039.00	3,933.26	-829.36	3,939.79	0.00	0.00	0.00
14,700.00	90.00	359.54	10,039.00	4,033.25	-830.17	4,039.79	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: #702H
Wellbore: OH
Design: PERMIT

Local Co-ordinate Reference: Well #702H
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)
14,800.00	90.00	359.54	10,039.00	4,133.25	-830.97	4,139.79	0.00	0.00	0.00
14,900.00	90.00	359.54	10,039.00	4,233.25	-831.78	4,239.79	0.00	0.00	0.00
15,000.00	90.00	359.54	10,039.00	4,333.24	-832.58	4,339.79	0.00	0.00	0.00
15,100.00	90.00	359.54	10,039.00	4,433.24	-833.38	4,439.79	0.00	0.00	0.00
15,200.00	90.00	359.54	10,039.00	4,533.24	-834.19	4,539.79	0.00	0.00	0.00
15,300.00	90.00	359.54	10,039.00	4,633.23	-834.99	4,639.79	0.00	0.00	0.00
15,400.00	90.00	359.54	10,039.00	4,733.23	-835.80	4,739.79	0.00	0.00	0.00
15,437.47	90.00	359.54	10,039.00	4,770.70	-836.10	4,777.26	0.00	0.00	0.00

LM #702: LTP/ PBHL (150' FNL/ 1210' 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 #702: SHL (357' F - plan hits target center - Point	0.00	0.00	0.00	0.00	0.00	456,853.50	653,753.90	32.255028	-103.835966
LM #702: LTP/ PBHL - plan hits target center - Point	0.00	0.00	10,039.00	4,770.70	-836.10	461,624.20	652,917.80	32.268153	-103.838599
LM #702: FTP / LP - plan hits target center - Point	0.00	0.00	10,039.00	-213.30	-796.00	456,640.20	652,957.90	32.254452	-103.838544

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
155.00	155.00	Rustler			
612.00	612.00	Top Salt*			
3,783.24	3,771.00	Base of Salt (Anhydrite)			
4,058.67	4,043.00	Bell Canyon Ss./ Delaware			
4,971.05	4,944.00	Cherry Canyon Ss.			
6,610.49	6,563.00	Brushy Canyon Ss.			
7,954.24	7,890.00	Bone Spring Lm.			
8,031.20	7,966.00	Avalon Ss.			
8,053.48	7,988.00	Bone Spg. Upper Avalon Shale			
8,562.83	8,491.00	Bone Spg. Lower Avalon Shale			
8,867.63	8,792.00	1st Bone Spring Lime.			
8,986.10	8,909.00	1st Bone Spring Ss.			
9,492.41	9,409.00	2nd Bone Spring Carb.			
9,895.83	9,790.00	2nd Bone Spring Ss.			
10,453.31	10,039.00	LP			