



NM OIL CONSERVATION
ARTESIA DISTRICT
OCT 09 2018

RECEIVED

XTO Energy

Eddy County, NM (NAD-27)

Los Medanos 36-23-30

#703H

30.015.45314

OH

Plan: PERMIT

Standard Planning Report

11 September, 2018



Project: Eddy County, NM (UAD-27)
Site: Los Medanos 38-23-30
Well: #703H
Wellbore: PERMIT
Design: PERMIT

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

WELL DETAILS: #703H

Rig Name: RCB # 17 @ 3428 00+1
Ground Elevation: 3411.00
Northing: 458853.80
Easting: 653753.80
Latitude: 32.255111
Longitude: -103.835885

DESIGN TARGET DETAILS

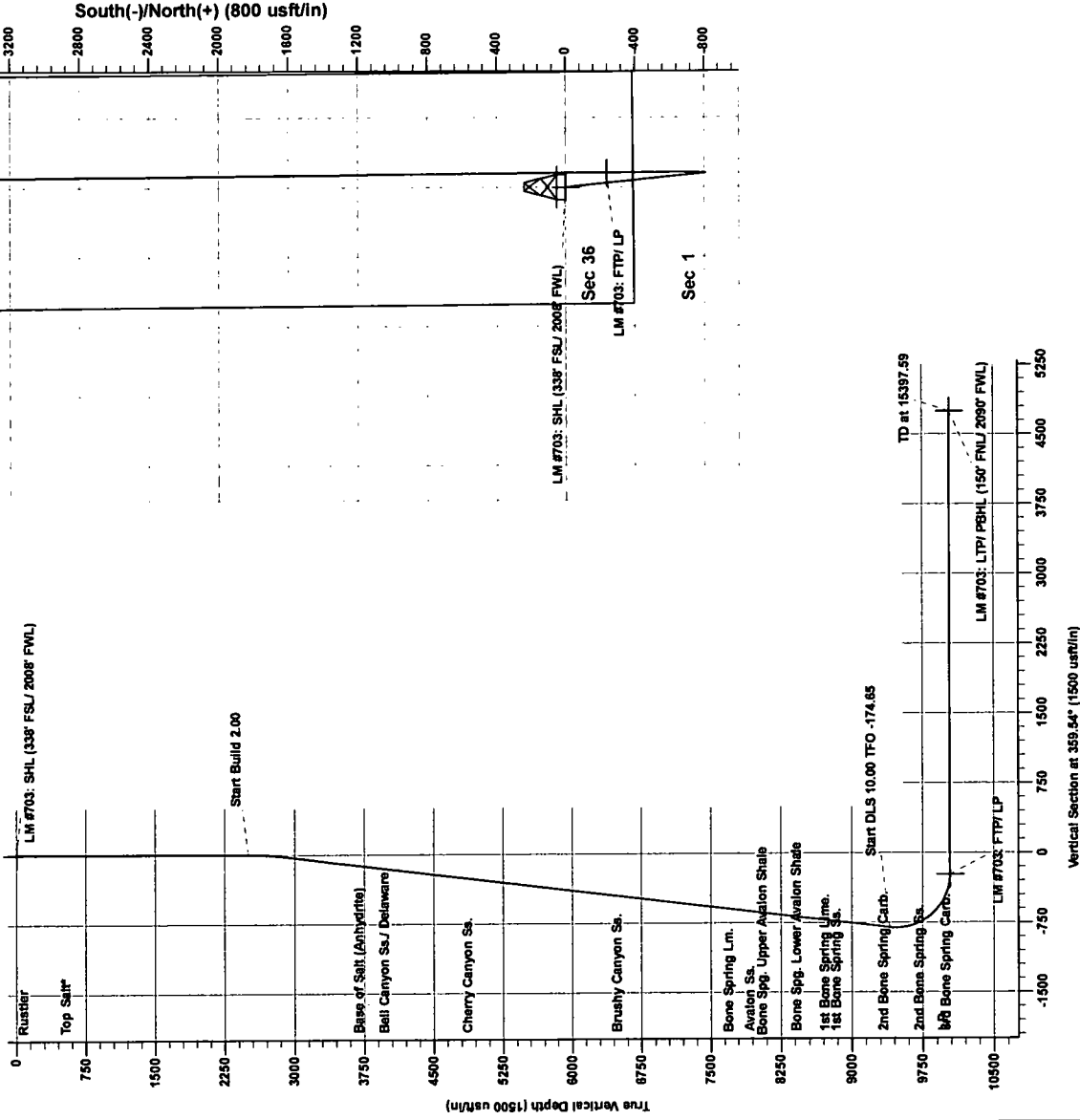
Name	MD	IC	ATI	TVD	+N/S	+E/W	North	East	Latitude	Longitude	Shape
LM #703: SHL (338' FSJ 2008' FWL)	0.00	0.00	0.00	10038.00	0.00	0.00	458853.80	653753.80	32.255111	-103.835885	Point
LM #703: FTP/LP	0.00	0.00	0.00	10038.00	0.00	0.00	458853.80	653753.80	32.255111	-103.835885	Point
LM #703: LTP/PBHL (150' FWL 2090' FWL)	0.00	0.00	0.00	10038.00	0.00	0.00	458853.80	653753.80	32.255111	-103.835885	Point

SECTION DETAILS

Sec	MD	IC	ATI	TVD	+N/S	+E/W	North	East	Latitude	Longitude	Shape
1	0.00	0.00	0.00	10038.00	0.00	0.00	458853.80	653753.80	32.255111	-103.835885	Point
2	2500.00	0.00	0.00	10038.00	0.00	0.00	458853.80	653753.80	32.255111	-103.835885	Point
3	2843.37	8.87	174.23	2843.55	-20.45	2.07	458853.80	653753.80	32.255111	-103.835885	Point
4	10415.05	90.00	359.54	10038.00	-238.86	84.00	458853.80	653753.80	32.255111	-103.835885	Point
5	10415.05	90.00	359.54	10038.00	-238.86	84.00	458853.80	653753.80	32.255111	-103.835885	Point
6	15397.59	80.00	359.54	10038.00	4747.10	43.90	458853.80	653753.80	32.255111	-103.835885	Point

FORMATION TOP DETAILS

TVD Path	Formation
154.00	Rustler
171.00	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.
7985.00	Avalon Ss.
7987.00	Bone Spg. Upper Avalon Shale
8490.00	Bone Spg. Lower Avalon Shale
8508.00	1st Bone Spring Lm.
8608.00	2nd Bone Spring Lm.
9408.00	2nd Bone Spring Carb.
9789.00	2nd Bone Spring Ss.
10038.00	LP



The customer should only rely on this document after independently verifying all data and information. The customer is responsible for providing all necessary data and information. Any data or information not provided by the customer is at the sole risk and responsibility of the customer.

Plan: PERMIT (#703H/OH)

Created By: Prototype Well Planning, LLC Date: 9:30, 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: #703H
Wellbore: OH
Design: PERMIT

Local Co-ordinate Reference: Well #703H
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	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	#703H			
Well Position	+N/-S	11.70 usft	Northing:	456,883.60 usft
	+E/-W	792.50 usft	Easting:	653,753.90 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level: 3,411.00 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	
2,843.37	6.87	174.23	2,842.55	-20.45	2.07	2.00	2.00	0.00	174.23	
9,445.05	6.87	174.23	9,396.87	-805.82	81.43	0.00	0.00	0.00	0.00	
10,413.43	90.00	359.54	10,038.00	-236.90	84.00	10.00	8.58	-18.04	-174.65	LM #703: FTP/ LP
15,397.59	90.00	359.54	10,038.00	4,747.10	43.90	0.00	0.00	0.00	0.00	LM #703: LTP/ PBT



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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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LM #703: SHL (338' FSL/ 2008' 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	174.23	2,599.98	-1.74	0.18	-1.74	2.00	2.00	0.00
2,700.00	4.00	174.23	2,699.84	-6.94	0.70	-6.95	2.00	2.00	0.00
2,800.00	6.00	174.23	2,799.45	-15.61	1.58	-15.63	2.00	2.00	0.00
2,843.37	6.87	174.23	2,842.55	-20.45	2.07	-20.46	2.00	2.00	0.00
2,900.00	6.87	174.23	2,898.77	-27.19	2.75	-27.21	0.00	0.00	0.00
3,000.00	6.87	174.23	2,998.05	-39.08	3.95	-39.11	0.00	0.00	0.00
3,100.00	6.87	174.23	3,097.34	-50.98	5.15	-51.02	0.00	0.00	0.00
3,200.00	6.87	174.23	3,196.62	-62.88	6.35	-62.92	0.00	0.00	0.00
3,300.00	6.87	174.23	3,295.90	-74.77	7.56	-74.83	0.00	0.00	0.00
3,400.00	6.87	174.23	3,395.19	-86.67	8.76	-86.74	0.00	0.00	0.00
3,500.00	6.87	174.23	3,494.47	-98.57	9.96	-98.64	0.00	0.00	0.00
3,600.00	6.87	174.23	3,593.75	-110.46	11.16	-110.55	0.00	0.00	0.00
3,700.00	6.87	174.23	3,693.03	-122.36	12.36	-122.45	0.00	0.00	0.00
3,800.00	6.87	174.23	3,792.32	-134.26	13.57	-134.36	0.00	0.00	0.00
3,900.00	6.87	174.23	3,891.60	-146.15	14.77	-146.27	0.00	0.00	0.00
4,000.00	6.87	174.23	3,990.88	-158.05	15.97	-158.17	0.00	0.00	0.00
4,100.00	6.87	174.23	4,090.16	-169.94	17.17	-170.08	0.00	0.00	0.00
4,200.00	6.87	174.23	4,189.45	-181.84	18.38	-181.98	0.00	0.00	0.00
4,300.00	6.87	174.23	4,288.73	-193.74	19.58	-193.89	0.00	0.00	0.00
4,400.00	6.87	174.23	4,388.01	-205.63	20.78	-205.79	0.00	0.00	0.00
4,500.00	6.87	174.23	4,487.29	-217.53	21.98	-217.70	0.00	0.00	0.00
4,600.00	6.87	174.23	4,586.58	-229.43	23.18	-229.61	0.00	0.00	0.00
4,700.00	6.87	174.23	4,685.86	-241.32	24.39	-241.51	0.00	0.00	0.00
4,800.00	6.87	174.23	4,785.14	-253.22	25.59	-253.42	0.00	0.00	0.00
4,900.00	6.87	174.23	4,884.42	-265.12	26.79	-265.32	0.00	0.00	0.00
5,000.00	6.87	174.23	4,983.71	-277.01	27.99	-277.23	0.00	0.00	0.00
5,100.00	6.87	174.23	5,082.99	-288.91	29.20	-289.14	0.00	0.00	0.00



www.prototypewellplanning.com
Planning Report

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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	6.87	174.23	5,182.27	-300.81	30.40	-301.04	0.00	0.00	0.00
5,300.00	6.87	174.23	5,281.55	-312.70	31.60	-312.95	0.00	0.00	0.00
5,400.00	6.87	174.23	5,380.84	-324.60	32.80	-324.85	0.00	0.00	0.00
5,500.00	6.87	174.23	5,480.12	-336.50	34.00	-336.76	0.00	0.00	0.00
5,600.00	6.87	174.23	5,579.40	-348.39	35.21	-348.66	0.00	0.00	0.00
5,700.00	6.87	174.23	5,678.68	-360.29	36.41	-360.57	0.00	0.00	0.00
5,800.00	6.87	174.23	5,777.97	-372.19	37.61	-372.48	0.00	0.00	0.00
5,900.00	6.87	174.23	5,877.25	-384.08	38.81	-384.38	0.00	0.00	0.00
6,000.00	6.87	174.23	5,976.53	-395.98	40.02	-396.29	0.00	0.00	0.00
6,100.00	6.87	174.23	6,075.81	-407.88	41.22	-408.19	0.00	0.00	0.00
6,200.00	6.87	174.23	6,175.10	-419.77	42.42	-420.10	0.00	0.00	0.00
6,300.00	6.87	174.23	6,274.38	-431.67	43.62	-432.01	0.00	0.00	0.00
6,400.00	6.87	174.23	6,373.66	-443.57	44.82	-443.91	0.00	0.00	0.00
6,500.00	6.87	174.23	6,472.94	-455.46	46.03	-455.82	0.00	0.00	0.00
6,600.00	6.87	174.23	6,572.23	-467.36	47.23	-467.72	0.00	0.00	0.00
6,700.00	6.87	174.23	6,671.51	-479.26	48.43	-479.63	0.00	0.00	0.00
6,800.00	6.87	174.23	6,770.79	-491.15	49.63	-491.53	0.00	0.00	0.00
6,900.00	6.87	174.23	6,870.07	-503.05	50.84	-503.44	0.00	0.00	0.00
7,000.00	6.87	174.23	6,969.36	-514.94	52.04	-515.35	0.00	0.00	0.00
7,100.00	6.87	174.23	7,068.64	-526.84	53.24	-527.25	0.00	0.00	0.00
7,200.00	6.87	174.23	7,167.92	-538.74	54.44	-539.16	0.00	0.00	0.00
7,300.00	6.87	174.23	7,267.20	-550.63	55.64	-551.06	0.00	0.00	0.00
7,400.00	6.87	174.23	7,366.49	-562.53	56.85	-562.97	0.00	0.00	0.00
7,500.00	6.87	174.23	7,465.77	-574.43	58.05	-574.88	0.00	0.00	0.00
7,600.00	6.87	174.23	7,565.05	-586.32	59.25	-586.78	0.00	0.00	0.00
7,700.00	6.87	174.23	7,664.34	-598.22	60.45	-598.69	0.00	0.00	0.00
7,800.00	6.87	174.23	7,763.62	-610.12	61.66	-610.59	0.00	0.00	0.00
7,900.00	6.87	174.23	7,862.90	-622.01	62.86	-622.50	0.00	0.00	0.00
8,000.00	6.87	174.23	7,962.18	-633.91	64.06	-634.40	0.00	0.00	0.00
8,100.00	6.87	174.23	8,061.47	-645.81	65.26	-646.31	0.00	0.00	0.00
8,200.00	6.87	174.23	8,160.75	-657.70	66.46	-658.22	0.00	0.00	0.00
8,300.00	6.87	174.23	8,260.03	-669.60	67.67	-670.12	0.00	0.00	0.00
8,400.00	6.87	174.23	8,359.31	-681.50	68.87	-682.03	0.00	0.00	0.00
8,500.00	6.87	174.23	8,458.60	-693.39	70.07	-693.93	0.00	0.00	0.00
8,600.00	6.87	174.23	8,557.88	-705.29	71.27	-705.84	0.00	0.00	0.00
8,700.00	6.87	174.23	8,657.16	-717.19	72.48	-717.74	0.00	0.00	0.00
8,800.00	6.87	174.23	8,756.44	-729.08	73.68	-729.65	0.00	0.00	0.00
8,900.00	6.87	174.23	8,855.73	-740.98	74.88	-741.56	0.00	0.00	0.00
9,000.00	6.87	174.23	8,955.01	-752.88	76.08	-753.46	0.00	0.00	0.00
9,100.00	6.87	174.23	9,054.29	-764.77	77.28	-765.37	0.00	0.00	0.00
9,200.00	6.87	174.23	9,153.57	-776.67	78.49	-777.27	0.00	0.00	0.00
9,300.00	6.87	174.23	9,252.86	-788.57	79.69	-789.18	0.00	0.00	0.00
9,400.00	6.87	174.23	9,352.14	-800.46	80.89	-801.09	0.00	0.00	0.00
9,445.05	6.87	174.23	9,396.87	-805.82	81.43	-806.45	0.00	0.00	0.00
9,450.00	6.37	173.81	9,401.78	-806.39	81.49	-807.02	10.00	-9.95	-8.39
9,500.00	1.49	154.11	9,451.65	-809.73	82.07	-810.37	10.00	-9.78	-39.40
9,550.00	3.71	9.43	9,501.62	-808.72	82.62	-809.36	10.00	4.45	-289.37
9,600.00	8.68	3.73	9,551.31	-803.36	83.13	-804.00	10.00	9.94	-11.41
9,650.00	13.67	2.16	9,600.35	-793.68	83.60	-794.32	10.00	9.98	-3.12
9,700.00	18.67	1.43	9,648.36	-779.77	84.03	-780.42	10.00	9.99	-1.47
9,750.00	23.67	1.00	9,694.97	-761.72	84.40	-762.38	10.00	10.00	-0.87
9,800.00	28.66	0.71	9,739.83	-739.68	84.72	-740.34	10.00	10.00	-0.58
9,850.00	33.66	0.50	9,782.60	-713.82	84.99	-714.48	10.00	10.00	-0.42
9,900.00	38.66	0.34	9,822.96	-684.33	85.20	-684.99	10.00	10.00	-0.32



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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)
9,950.00	43.66	0.21	9,860.59	-651.43	85.36	-652.09	10.00	10.00	-0.26
10,000.00	48.66	0.10	9,895.21	-615.38	85.45	-616.04	10.00	10.00	-0.21
10,050.00	53.66	0.01	9,926.56	-576.44	85.49	-577.11	10.00	10.00	-0.18
10,100.00	58.66	359.93	9,954.39	-534.93	85.47	-535.60	10.00	10.00	-0.16
10,150.00	63.66	359.86	9,978.50	-491.14	85.38	-491.81	10.00	10.00	-0.15
10,200.00	68.66	359.79	9,998.71	-445.42	85.24	-446.09	10.00	10.00	-0.13
10,250.00	73.66	359.73	10,014.85	-398.12	85.04	-398.79	10.00	10.00	-0.12
10,300.00	78.66	359.67	10,026.81	-349.59	84.78	-350.26	10.00	10.00	-0.12
10,350.00	83.66	359.61	10,034.49	-300.20	84.47	-300.87	10.00	10.00	-0.11
10,400.00	88.66	359.55	10,037.84	-250.33	84.11	-250.99	10.00	10.00	-0.11
10,413.43	90.00	359.54	10,038.00	-236.90	84.00	-237.57	10.00	10.00	-0.11
LM #703: FTP/ LP									
10,500.00	90.00	359.54	10,038.00	-150.33	83.30	-151.00	0.00	0.00	0.00
10,600.00	90.00	359.54	10,038.00	-50.33	82.50	-51.00	0.00	0.00	0.00
10,700.00	90.00	359.54	10,038.00	49.66	81.69	49.00	0.00	0.00	0.00
10,800.00	90.00	359.54	10,038.00	149.66	80.89	149.00	0.00	0.00	0.00
10,900.00	90.00	359.54	10,038.00	249.66	80.09	249.00	0.00	0.00	0.00
11,000.00	90.00	359.54	10,038.00	349.65	79.28	349.00	0.00	0.00	0.00
11,100.00	90.00	359.54	10,038.00	449.65	78.48	449.00	0.00	0.00	0.00
11,200.00	90.00	359.54	10,038.00	549.65	77.67	549.00	0.00	0.00	0.00
11,300.00	90.00	359.54	10,038.00	649.64	76.87	649.00	0.00	0.00	0.00
11,400.00	90.00	359.54	10,038.00	749.64	76.06	749.00	0.00	0.00	0.00
11,500.00	90.00	359.54	10,038.00	849.64	75.26	849.00	0.00	0.00	0.00
11,600.00	90.00	359.54	10,038.00	949.63	74.45	949.00	0.00	0.00	0.00
11,700.00	90.00	359.54	10,038.00	1,049.63	73.65	1,049.00	0.00	0.00	0.00
11,800.00	90.00	359.54	10,038.00	1,149.63	72.84	1,149.00	0.00	0.00	0.00
11,900.00	90.00	359.54	10,038.00	1,249.62	72.04	1,249.00	0.00	0.00	0.00
12,000.00	90.00	359.54	10,038.00	1,349.62	71.24	1,349.00	0.00	0.00	0.00
12,100.00	90.00	359.54	10,038.00	1,449.62	70.43	1,449.00	0.00	0.00	0.00
12,200.00	90.00	359.54	10,038.00	1,549.61	69.63	1,549.00	0.00	0.00	0.00
12,300.00	90.00	359.54	10,038.00	1,649.61	68.82	1,649.00	0.00	0.00	0.00
12,400.00	90.00	359.54	10,038.00	1,749.61	68.02	1,749.00	0.00	0.00	0.00
12,500.00	90.00	359.54	10,038.00	1,849.60	67.21	1,849.00	0.00	0.00	0.00
12,600.00	90.00	359.54	10,038.00	1,949.60	66.41	1,949.00	0.00	0.00	0.00
12,700.00	90.00	359.54	10,038.00	2,049.60	65.60	2,049.00	0.00	0.00	0.00
12,800.00	90.00	359.54	10,038.00	2,149.59	64.80	2,149.00	0.00	0.00	0.00
12,900.00	90.00	359.54	10,038.00	2,249.59	63.99	2,249.00	0.00	0.00	0.00
13,000.00	90.00	359.54	10,038.00	2,349.59	63.19	2,349.00	0.00	0.00	0.00
13,100.00	90.00	359.54	10,038.00	2,449.58	62.39	2,449.00	0.00	0.00	0.00
13,200.00	90.00	359.54	10,038.00	2,549.58	61.58	2,549.00	0.00	0.00	0.00
13,300.00	90.00	359.54	10,038.00	2,649.58	60.78	2,649.00	0.00	0.00	0.00
13,400.00	90.00	359.54	10,038.00	2,749.57	59.97	2,749.00	0.00	0.00	0.00
13,500.00	90.00	359.54	10,038.00	2,849.57	59.17	2,849.00	0.00	0.00	0.00
13,600.00	90.00	359.54	10,038.00	2,949.57	58.36	2,949.00	0.00	0.00	0.00
13,700.00	90.00	359.54	10,038.00	3,049.56	57.56	3,049.00	0.00	0.00	0.00
13,800.00	90.00	359.54	10,038.00	3,149.56	56.75	3,149.00	0.00	0.00	0.00
13,900.00	90.00	359.54	10,038.00	3,249.56	55.95	3,249.00	0.00	0.00	0.00
14,000.00	90.00	359.54	10,038.00	3,349.56	55.14	3,349.00	0.00	0.00	0.00
14,100.00	90.00	359.54	10,038.00	3,449.55	54.34	3,449.00	0.00	0.00	0.00
14,200.00	90.00	359.54	10,038.00	3,549.55	53.54	3,549.00	0.00	0.00	0.00
14,300.00	90.00	359.54	10,038.00	3,649.55	52.73	3,649.00	0.00	0.00	0.00
14,400.00	90.00	359.54	10,038.00	3,749.54	51.93	3,749.00	0.00	0.00	0.00
14,500.00	90.00	359.54	10,038.00	3,849.54	51.12	3,849.00	0.00	0.00	0.00
14,600.00	90.00	359.54	10,038.00	3,949.54	50.32	3,949.00	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: #703H
Wellbore: OH
Design: PERMIT

Local Co-ordinate Reference: Well #703H
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)
14,700.00	90.00	359.54	10,038.00	4,049.53	49.51	4,049.00	0.00	0.00	0.00
14,800.00	90.00	359.54	10,038.00	4,149.53	48.71	4,149.00	0.00	0.00	0.00
14,900.00	90.00	359.54	10,038.00	4,249.53	47.90	4,249.00	0.00	0.00	0.00
15,000.00	90.00	359.54	10,038.00	4,349.52	47.10	4,349.00	0.00	0.00	0.00
15,100.00	90.00	359.54	10,038.00	4,449.52	46.29	4,449.00	0.00	0.00	0.00
15,200.00	90.00	359.54	10,038.00	4,549.52	45.49	4,549.00	0.00	0.00	0.00
15,300.00	90.00	359.54	10,038.00	4,649.51	44.69	4,649.00	0.00	0.00	0.00
15,397.59	90.00	359.54	10,038.00	4,747.10	43.90	4,746.59	0.00	0.00	0.00

LM #703: LTP/ PBHL (150' FNL/ 2090' 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 #703: SHL (338' F - plan hits target center - Point	0.00	0.00	0.00	0.00	0.00	456,883.60	653,753.90	32.255111	-103.835965
LM #703: LTP/ PBHL - plan hits target center - Point	0.00	0.01	10,038.00	4,747.10	43.90	461,630.70	653,797.80	32.268160	-103.835752
LM #703: FTP/ LP - plan hits target center - Point	0.00	0.01	10,038.00	-236.90	84.00	456,646.70	653,837.90	32.254459	-103.835697

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
154.00	154.00	Rustler			
611.00	611.00	Top Salt*			
3,777.52	3,770.00	Base of Salt (Anhydrite)			
4,051.49	4,042.00	Bell Canyon Ss./ Delaware			
4,959.00	4,943.00	Cherry Canyon Ss.			
6,589.70	6,562.00	Brushy Canyon Ss.			
7,926.29	7,889.00	Bone Spring Lm.			
8,002.84	7,965.00	Avalon Ss.			
8,025.00	7,987.00	Bone Spg. Upper Avalon Shale			
8,531.63	8,490.00	Bone Spg. Lower Avalon Shale			
8,834.81	8,791.00	1st Bone Spring Lime.			
8,952.65	8,908.00	1st Bone Spring Ss.			
9,456.25	9,408.00	2nd Bone Spring Carb.			
9,857.72	9,789.00	2nd Bone Spring Ss.			
10,413.40	10,038.00	LP			