



HOBBS OCD

JUL 27 2018

RECEIVED

XTO Energy

Lea County, NM (NAD-27)

Mis Amigos

#706H

OH

Plan: PERMIT Rev1

Standard Planning Report

26 June, 2018



Project: Lea County, NM (NAD-27)
Site: Mis Amigos
Well: #706H
Wellbore: OH
Design: PERMIT Rev1

PROJECT DETAILS: Lea 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: #706H

Rig Name:
RKB = 25' @ 3680.00usft
Ground Level: 3655.00
+N/-S +E/-W Northing Easting Latitude Longitude
0.00 0.00 457153.80 724022.60 32.254754 -103.608665

DESIGN TARGET DETAILS

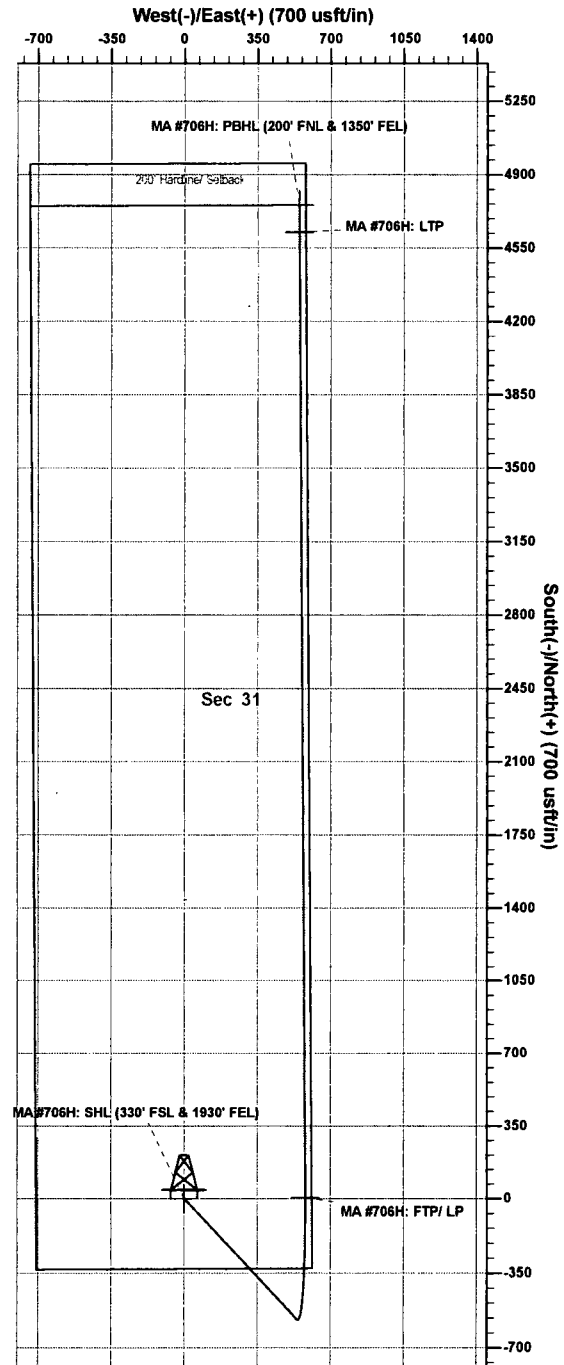
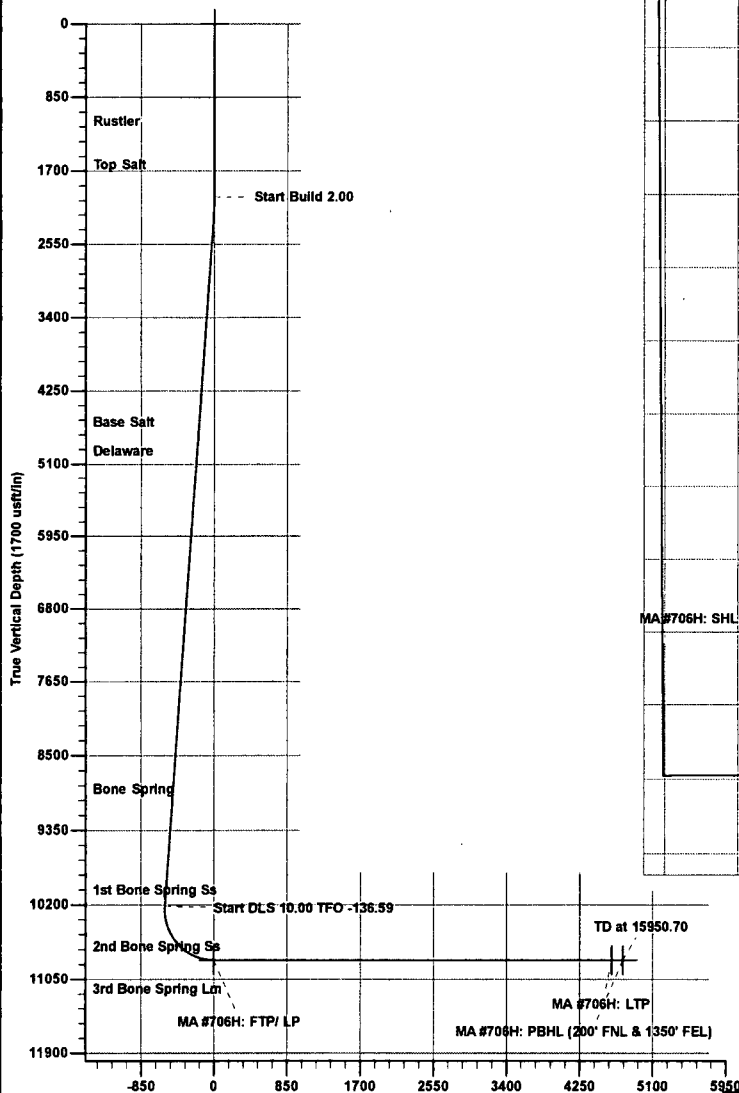
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
MA #706H: SHL (330' FSL & 1930' FEL)	0.00	0.00	0.00	457153.80	724022.60	32.254754	-103.608665	Point
MA #706H: FTP/ LP	10832.00	2.90	579.90	457156.70	724602.50	32.254751	-103.606789	Point
MA #706H: LTP	10832.00	4625.10	548.80	461778.90	724571.40	32.267457	-103.606789	Point
MA #706H: PBHL (200' FNL & 1350' FEL)	10832.00	4755.10	547.90	461908.90	724570.50	32.267815	-103.606789	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	2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	0.00
3	2277.91	5.56	136.34	2277.47	-9.74	9.30	2.00	136.34	-9.81
4	10257.95	5.56	136.34	10220.00	-568.89	542.92	0.00	0.00	-572.58
5	11198.39	90.00	359.61	10832.00	2.90	579.90	10.00	-136.59	-1.05
6	15820.70	90.00	359.61	10832.00	4625.10	548.78	0.00	0.00	4621.26
7	15950.70	90.00	359.61	10832.00	4755.10	547.90	0.00	0.00	4751.26

FORMATION TOP DETAILS

TVDPATH	Formation
1215.00	Rustler
1716.00	Top Salt
4706.00	Base Salt
5039.00	Delaware
8970.00	Bone Spring
10123.00	1st Bone Spring Ss
10765.00	2nd Bone Spring Ss
10832.00	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 Rev1 (#706H/OH)

Created By: Matthew May Date: 12:58, June 26 2018

Vertical Section at 359.61° (1700 usft/in)



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well #706H
Company:	XTO Energy	TVD Reference:	RKB = 25' @ 3680.00usft
Project:	Lea County, NM (NAD-27)	MD Reference:	RKB = 25' @ 3680.00usft
Site:	Mis Amigos	North Reference:	Grid
Well:	#706H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PERMIT Rev1		

Project	Lea 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	Mis Amigos			
Site Position:		Northing:	457,160.50 usft	Latitude: 32.254748
From:	Map	Easting:	725,352.60 usft	Longitude: -103.604363
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence: 0.39 °

Well	#706H			
Well Position	+N/-S	-6.70 usft	Northing:	457,153.80 usft
	+E/-W	-1,330.00 usft	Easting:	724,022.60 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level: 3,655.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	6/24/2018	6.86	60.07	47,846

Design	PERMIT Rev1			
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	359.61

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	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,277.91	5.56	136.34	2,277.47	-9.74	9.30	2.00	2.00	0.00	136.34	
10,257.95	5.56	136.34	10,220.00	-568.89	542.92	0.00	0.00	0.00	0.00	
11,198.39	90.00	359.61	10,832.00	2.90	579.90	10.00	8.98	-14.54	-136.59	MA #706H: FTP/ LF
15,820.70	90.00	359.61	10,832.00	4,625.10	548.78	0.00	0.00	0.00	0.00	MA #706H: LTP
15,950.70	90.00	359.61	10,832.00	4,755.10	547.90	0.00	0.00	0.00	0.00	MA #706H: PBHL (



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Site: Mis Amigos
Well: #706H
Wellbore: OH
Design: PERMIT Rev1

Local Co-ordinate Reference: Well #706H
TVD Reference: RKB = 25' @ 3680.00usft
MD Reference: RKB = 25' @ 3680.00usft
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
MA #706H: SHL (330' FSL & 1930' FEL)									
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	2.00	136.34	2,099.98	-1.26	1.20	-1.27	2.00	2.00	0.00
2,200.00	4.00	136.34	2,199.84	-5.05	4.82	-5.08	2.00	2.00	0.00
2,277.91	5.56	136.34	2,277.47	-9.74	9.30	-9.81	2.00	2.00	0.00
2,300.00	5.56	136.34	2,299.46	-11.29	10.78	-11.36	0.00	0.00	0.00
2,400.00	5.56	136.34	2,398.99	-18.30	17.46	-18.42	0.00	0.00	0.00
2,500.00	5.56	136.34	2,498.52	-25.31	24.15	-25.47	0.00	0.00	0.00
2,600.00	5.56	136.34	2,598.05	-32.31	30.84	-32.52	0.00	0.00	0.00
2,700.00	5.56	136.34	2,697.58	-39.32	37.52	-39.57	0.00	0.00	0.00
2,800.00	5.56	136.34	2,797.11	-46.33	44.21	-46.63	0.00	0.00	0.00
2,900.00	5.56	136.34	2,896.64	-53.33	50.90	-53.68	0.00	0.00	0.00
3,000.00	5.56	136.34	2,996.17	-60.34	57.59	-60.73	0.00	0.00	0.00
3,100.00	5.56	136.34	3,095.70	-67.35	64.27	-67.78	0.00	0.00	0.00
3,200.00	5.56	136.34	3,195.23	-74.35	70.96	-74.83	0.00	0.00	0.00
3,300.00	5.56	136.34	3,294.76	-81.36	77.65	-81.89	0.00	0.00	0.00
3,400.00	5.56	136.34	3,394.29	-88.37	84.33	-88.94	0.00	0.00	0.00
3,500.00	5.56	136.34	3,493.82	-95.37	91.02	-95.99	0.00	0.00	0.00
3,600.00	5.56	136.34	3,593.35	-102.38	97.71	-103.04	0.00	0.00	0.00
3,700.00	5.56	136.34	3,692.88	-109.39	104.39	-110.10	0.00	0.00	0.00
3,800.00	5.56	136.34	3,792.41	-116.39	111.08	-117.15	0.00	0.00	0.00
3,900.00	5.56	136.34	3,891.94	-123.40	117.77	-124.20	0.00	0.00	0.00
4,000.00	5.56	136.34	3,991.47	-130.41	124.45	-131.25	0.00	0.00	0.00
4,100.00	5.56	136.34	4,091.00	-137.42	131.14	-138.30	0.00	0.00	0.00
4,200.00	5.56	136.34	4,190.53	-144.42	137.83	-145.36	0.00	0.00	0.00
4,300.00	5.56	136.34	4,290.06	-151.43	144.52	-152.41	0.00	0.00	0.00
4,400.00	5.56	136.34	4,389.59	-158.44	151.20	-159.46	0.00	0.00	0.00
4,500.00	5.56	136.34	4,489.12	-165.44	157.89	-166.51	0.00	0.00	0.00
4,600.00	5.56	136.34	4,588.65	-172.45	164.58	-173.57	0.00	0.00	0.00
4,700.00	5.56	136.34	4,688.18	-179.46	171.26	-180.62	0.00	0.00	0.00
4,800.00	5.56	136.34	4,787.71	-186.46	177.95	-187.67	0.00	0.00	0.00
4,900.00	5.56	136.34	4,887.24	-193.47	184.64	-194.72	0.00	0.00	0.00
5,000.00	5.56	136.34	4,986.77	-200.48	191.32	-201.77	0.00	0.00	0.00
5,100.00	5.56	136.34	5,086.30	-207.48	198.01	-208.83	0.00	0.00	0.00



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Site:	Mis Amigos	North Reference:	Grid
Well:	#706H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PERMIT Rev1		

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	5.56	136.34	5,185.83	-214.49	204.70	-215.88	0.00	0.00	0.00
5,300.00	5.56	136.34	5,285.36	-221.50	211.39	-222.93	0.00	0.00	0.00
5,400.00	5.56	136.34	5,384.89	-228.50	218.07	-229.98	0.00	0.00	0.00
5,500.00	5.56	136.34	5,484.42	-235.51	224.76	-237.04	0.00	0.00	0.00
5,600.00	5.56	136.34	5,583.95	-242.52	231.45	-244.09	0.00	0.00	0.00
5,700.00	5.56	136.34	5,683.48	-249.52	238.13	-251.14	0.00	0.00	0.00
5,800.00	5.56	136.34	5,783.00	-256.53	244.82	-258.19	0.00	0.00	0.00
5,900.00	5.56	136.34	5,882.53	-263.54	251.51	-265.24	0.00	0.00	0.00
6,000.00	5.56	136.34	5,982.06	-270.55	258.19	-272.30	0.00	0.00	0.00
6,100.00	5.56	136.34	6,081.59	-277.55	264.88	-279.35	0.00	0.00	0.00
6,200.00	5.56	136.34	6,181.12	-284.56	271.57	-286.40	0.00	0.00	0.00
6,300.00	5.56	136.34	6,280.65	-291.57	278.26	-293.45	0.00	0.00	0.00
6,400.00	5.56	136.34	6,380.18	-298.57	284.94	-300.51	0.00	0.00	0.00
6,500.00	5.56	136.34	6,479.71	-305.58	291.63	-307.56	0.00	0.00	0.00
6,600.00	5.56	136.34	6,579.24	-312.59	298.32	-314.61	0.00	0.00	0.00
6,700.00	5.56	136.34	6,678.77	-319.59	305.00	-321.66	0.00	0.00	0.00
6,800.00	5.56	136.34	6,778.30	-326.60	311.69	-328.71	0.00	0.00	0.00
6,900.00	5.56	136.34	6,877.83	-333.61	318.38	-335.77	0.00	0.00	0.00
7,000.00	5.56	136.34	6,977.36	-340.61	325.06	-342.82	0.00	0.00	0.00
7,100.00	5.56	136.34	7,076.89	-347.62	331.75	-349.87	0.00	0.00	0.00
7,200.00	5.56	136.34	7,176.42	-354.63	338.44	-356.92	0.00	0.00	0.00
7,300.00	5.56	136.34	7,275.95	-361.63	345.13	-363.97	0.00	0.00	0.00
7,400.00	5.56	136.34	7,375.48	-368.64	351.81	-371.03	0.00	0.00	0.00
7,500.00	5.56	136.34	7,475.01	-375.65	358.50	-378.08	0.00	0.00	0.00
7,600.00	5.56	136.34	7,574.54	-382.65	365.19	-385.13	0.00	0.00	0.00
7,700.00	5.56	136.34	7,674.07	-389.66	371.87	-392.18	0.00	0.00	0.00
7,800.00	5.56	136.34	7,773.60	-396.67	378.56	-399.24	0.00	0.00	0.00
7,900.00	5.56	136.34	7,873.13	-403.68	385.25	-406.29	0.00	0.00	0.00
8,000.00	5.56	136.34	7,972.66	-410.68	391.93	-413.34	0.00	0.00	0.00
8,100.00	5.56	136.34	8,072.19	-417.69	398.62	-420.39	0.00	0.00	0.00
8,200.00	5.56	136.34	8,171.72	-424.70	405.31	-427.44	0.00	0.00	0.00
8,300.00	5.56	136.34	8,271.25	-431.70	411.99	-434.50	0.00	0.00	0.00
8,400.00	5.56	136.34	8,370.78	-438.71	418.68	-441.55	0.00	0.00	0.00
8,500.00	5.56	136.34	8,470.31	-445.72	425.37	-448.60	0.00	0.00	0.00
8,600.00	5.56	136.34	8,569.84	-452.72	432.06	-455.65	0.00	0.00	0.00
8,700.00	5.56	136.34	8,669.37	-459.73	438.74	-462.71	0.00	0.00	0.00
8,800.00	5.56	136.34	8,768.90	-466.74	445.43	-469.76	0.00	0.00	0.00
8,900.00	5.56	136.34	8,868.43	-473.74	452.12	-476.81	0.00	0.00	0.00
9,000.00	5.56	136.34	8,967.96	-480.75	458.80	-483.86	0.00	0.00	0.00
9,100.00	5.56	136.34	9,067.49	-487.76	465.49	-490.91	0.00	0.00	0.00
9,200.00	5.56	136.34	9,167.02	-494.76	472.18	-497.97	0.00	0.00	0.00
9,300.00	5.56	136.34	9,266.55	-501.77	478.86	-505.02	0.00	0.00	0.00
9,400.00	5.56	136.34	9,366.08	-508.78	485.55	-512.07	0.00	0.00	0.00
9,500.00	5.56	136.34	9,465.61	-515.78	492.24	-519.12	0.00	0.00	0.00
9,600.00	5.56	136.34	9,565.14	-522.79	498.93	-526.18	0.00	0.00	0.00
9,700.00	5.56	136.34	9,664.67	-529.80	505.61	-533.23	0.00	0.00	0.00
9,800.00	5.56	136.34	9,764.20	-536.81	512.30	-540.28	0.00	0.00	0.00
9,900.00	5.56	136.34	9,863.73	-543.81	518.99	-547.33	0.00	0.00	0.00
10,000.00	5.56	136.34	9,963.26	-550.82	525.67	-554.38	0.00	0.00	0.00
10,100.00	5.56	136.34	10,062.79	-557.83	532.36	-561.44	0.00	0.00	0.00
10,200.00	5.56	136.34	10,162.32	-564.83	539.05	-568.49	0.00	0.00	0.00
10,257.95	5.56	136.34	10,220.00	-568.89	542.92	-572.58	0.00	0.00	0.00
10,300.00	3.82	87.20	10,261.92	-570.30	545.73	-574.00	10.00	-4.13	-116.87
10,350.00	6.42	36.00	10,311.74	-567.96	549.04	-571.68	10.00	5.19	-102.39



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Company:	XTO Energy	TVD Reference:	RKB = 25' @ 3680.00usft
Project:	Lea County, NM (NAD-27)	MD Reference:	RKB = 25' @ 3680.00usft
Site:	Mis Amigos	North Reference:	Grid
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Wellbore:	OH		
Design:	PERMIT Rev1		

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)
10,400.00	10.85	19.99	10,361.17	-561.27	552.29	-565.02	10.00	8.86	-32.03
10,450.00	15.62	13.42	10,409.83	-550.29	555.46	-554.06	10.00	9.55	-13.15
10,500.00	20.50	9.89	10,457.35	-535.11	558.53	-538.90	10.00	9.76	-7.05
10,550.00	25.43	7.68	10,503.37	-515.83	561.47	-519.64	10.00	9.85	-4.42
10,600.00	30.38	6.15	10,547.55	-492.61	564.26	-496.44	10.00	9.90	-3.06
10,650.00	35.34	5.01	10,589.53	-465.61	566.88	-469.46	10.00	9.92	-2.27
10,700.00	40.31	4.12	10,629.01	-435.06	569.31	-438.92	10.00	9.94	-1.78
10,750.00	45.29	3.40	10,665.69	-401.17	571.53	-405.05	10.00	9.95	-1.45
10,800.00	50.27	2.79	10,699.28	-364.21	573.52	-368.10	10.00	9.96	-1.22
10,850.00	55.25	2.27	10,729.53	-324.45	575.27	-328.36	10.00	9.96	-1.05
10,900.00	60.23	1.80	10,756.21	-282.21	576.76	-286.13	10.00	9.97	-0.93
10,950.00	65.22	1.38	10,779.11	-237.80	577.99	-241.73	10.00	9.97	-0.84
11,000.00	70.21	0.99	10,798.07	-191.56	578.95	-195.50	10.00	9.97	-0.78
11,050.00	75.19	0.62	10,812.93	-143.84	579.62	-147.78	10.00	9.98	-0.73
11,100.00	80.18	0.28	10,823.59	-95.01	580.00	-98.96	10.00	9.98	-0.70
11,150.00	85.17	359.94	10,829.96	-45.43	580.09	-49.38	10.00	9.98	-0.68
11,198.39	90.00	359.61	10,832.00	2.90	579.90	-1.05	10.00	9.98	-0.67
MA #706H: FTP/ LP									
11,200.00	90.00	359.61	10,832.00	4.51	579.89	0.56	0.00	0.00	0.00
11,300.00	90.00	359.61	10,832.00	104.51	579.22	100.56	0.00	0.00	0.00
11,400.00	90.00	359.61	10,832.00	204.50	578.54	200.56	0.00	0.00	0.00
11,500.00	90.00	359.61	10,832.00	304.50	577.87	300.56	0.00	0.00	0.00
11,600.00	90.00	359.61	10,832.00	404.50	577.20	400.56	0.00	0.00	0.00
11,700.00	90.00	359.61	10,832.00	504.50	576.52	500.56	0.00	0.00	0.00
11,800.00	90.00	359.61	10,832.00	604.50	575.85	600.56	0.00	0.00	0.00
11,900.00	90.00	359.61	10,832.00	704.49	575.18	700.56	0.00	0.00	0.00
12,000.00	90.00	359.61	10,832.00	804.49	574.50	800.56	0.00	0.00	0.00
12,100.00	90.00	359.61	10,832.00	904.49	573.83	900.56	0.00	0.00	0.00
12,200.00	90.00	359.61	10,832.00	1,004.49	573.16	1,000.56	0.00	0.00	0.00
12,300.00	90.00	359.61	10,832.00	1,104.48	572.48	1,100.56	0.00	0.00	0.00
12,400.00	90.00	359.61	10,832.00	1,204.48	571.81	1,200.56	0.00	0.00	0.00
12,500.00	90.00	359.61	10,832.00	1,304.48	571.14	1,300.56	0.00	0.00	0.00
12,600.00	90.00	359.61	10,832.00	1,404.48	570.46	1,400.56	0.00	0.00	0.00
12,700.00	90.00	359.61	10,832.00	1,504.48	569.79	1,500.56	0.00	0.00	0.00
12,800.00	90.00	359.61	10,832.00	1,604.47	569.12	1,600.56	0.00	0.00	0.00
12,900.00	90.00	359.61	10,832.00	1,704.47	568.44	1,700.56	0.00	0.00	0.00
13,000.00	90.00	359.61	10,832.00	1,804.47	567.77	1,800.56	0.00	0.00	0.00
13,100.00	90.00	359.61	10,832.00	1,904.47	567.10	1,900.56	0.00	0.00	0.00
13,200.00	90.00	359.61	10,832.00	2,004.46	566.42	2,000.56	0.00	0.00	0.00
13,300.00	90.00	359.61	10,832.00	2,104.46	565.75	2,100.56	0.00	0.00	0.00
13,400.00	90.00	359.61	10,832.00	2,204.46	565.08	2,200.56	0.00	0.00	0.00
13,500.00	90.00	359.61	10,832.00	2,304.46	564.40	2,300.56	0.00	0.00	0.00
13,600.00	90.00	359.61	10,832.00	2,404.45	563.73	2,400.56	0.00	0.00	0.00
13,700.00	90.00	359.61	10,832.00	2,504.45	563.06	2,500.56	0.00	0.00	0.00
13,800.00	90.00	359.61	10,832.00	2,604.45	562.38	2,600.56	0.00	0.00	0.00
13,900.00	90.00	359.61	10,832.00	2,704.45	561.71	2,700.56	0.00	0.00	0.00
14,000.00	90.00	359.61	10,832.00	2,804.45	561.04	2,800.56	0.00	0.00	0.00
14,100.00	90.00	359.61	10,832.00	2,904.44	560.36	2,900.56	0.00	0.00	0.00
14,200.00	90.00	359.61	10,832.00	3,004.44	559.69	3,000.56	0.00	0.00	0.00
14,300.00	90.00	359.61	10,832.00	3,104.44	559.02	3,100.56	0.00	0.00	0.00
14,400.00	90.00	359.61	10,832.00	3,204.44	558.34	3,200.56	0.00	0.00	0.00
14,500.00	90.00	359.61	10,832.00	3,304.43	557.67	3,300.56	0.00	0.00	0.00
14,600.00	90.00	359.61	10,832.00	3,404.43	557.00	3,400.56	0.00	0.00	0.00
14,700.00	90.00	359.61	10,832.00	3,504.43	556.32	3,500.56	0.00	0.00	0.00



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well #706H
Company:	XTO Energy	TVD Reference:	RKB = 25' @ 3680.00usft
Project:	Lea County, NM (NAD-27)	MD Reference:	RKB = 25' @ 3680.00usft
Site:	Mis Amigos	North Reference:	Grid
Well:	#706H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PERMIT Rev1		

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	359.61	10,832.00	3,604.43	555.65	3,600.56	0.00	0.00	0.00
14,900.00	90.00	359.61	10,832.00	3,704.43	554.97	3,700.56	0.00	0.00	0.00
15,000.00	90.00	359.61	10,832.00	3,804.42	554.30	3,800.56	0.00	0.00	0.00
15,100.00	90.00	359.61	10,832.00	3,904.42	553.63	3,900.56	0.00	0.00	0.00
15,200.00	90.00	359.61	10,832.00	4,004.42	552.95	4,000.56	0.00	0.00	0.00
15,300.00	90.00	359.61	10,832.00	4,104.42	552.28	4,100.56	0.00	0.00	0.00
15,400.00	90.00	359.61	10,832.00	4,204.41	551.61	4,200.56	0.00	0.00	0.00
15,500.00	90.00	359.61	10,832.00	4,304.41	550.93	4,300.56	0.00	0.00	0.00
15,600.00	90.00	359.61	10,832.00	4,404.41	550.26	4,400.56	0.00	0.00	0.00
15,700.00	90.00	359.61	10,832.00	4,504.41	549.59	4,500.56	0.00	0.00	0.00
15,800.00	90.00	359.61	10,832.00	4,604.40	548.91	4,600.56	0.00	0.00	0.00
15,820.70	90.00	359.61	10,832.00	4,625.10	548.78	4,621.26	0.00	0.00	0.00
MA #706H: LTP									
15,900.00	90.00	359.61	10,832.00	4,704.40	548.24	4,700.56	0.00	0.00	0.00
15,950.70	90.00	359.61	10,832.00	4,755.10	547.90	4,751.26	0.00	0.00	0.00
MA #706H: PBHL (200' FNL & 1350' FEL)									

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
MA #706H: SHL (330' - hit/miss target - Shape - Point)	0.00	0.00	0.00	0.00	0.00	457,153.80	724,022.60	32.254754	-103.608665
MA #706H: LTP - plan misses target center by 0.02usft at 15820.70usft MD (10832.00 TVD, 4625.10 N, 548.78 E) - Point	0.00	0.00	10,832.00	4,625.10	548.80	461,778.90	724,571.40	32.267457	-103.606789
MA #706H: FTP/ LP - plan hits target center - Point	0.00	0.00	10,832.00	2.90	579.90	457,156.70	724,602.50	32.254752	-103.606789
MA #706H: PBHL (20 - plan hits target center - Point)	0.00	0.00	10,832.00	4,755.10	547.90	461,908.90	724,570.50	32.267815	-103.606789

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,215.00	1,215.00	Rustler			
1,716.00	1,716.00	Top Salt			
4,717.91	4,706.00	Base Salt			
5,052.48	5,039.00	Delaware			
9,002.05	8,970.00	Bone Spring			
10,160.50	10,123.00	1st Bone Spring Ss			
10,918.21	10,765.00	2nd Bone Spring Ss			
11,198.39	10,832.00	LP			



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Project:	Lea County, NM (NAD-27)	MD Reference:	RKB = 25' @ 3680.00usft
Site:	Mis Amigos	North Reference:	Grid
Well:	#706H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PERMIT Rev1		