



XTO Energy

Eddy County, NM (NAD-27)

Los Medanos 36-23-30

#706H

OH

Plan: PERMIT

Standard Planning Report

30 May, 2019

RECEIVED

JUN 03 2019

DISTRICT II-ARTESIA O.C.D.



Project: Eddy County, NM (NAD-27)
Site: Los Medanos 36-23-30
Well: #706H
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: #706H

Rig Name:
RKB = 15' @ 3420.00usft
Ground Level: 3405.00
Northing: 456882.90
Easting: 654471.80
Latitude: 32.2550998
Longitude: -103.8336430

DESIGN TARGET DETAILS

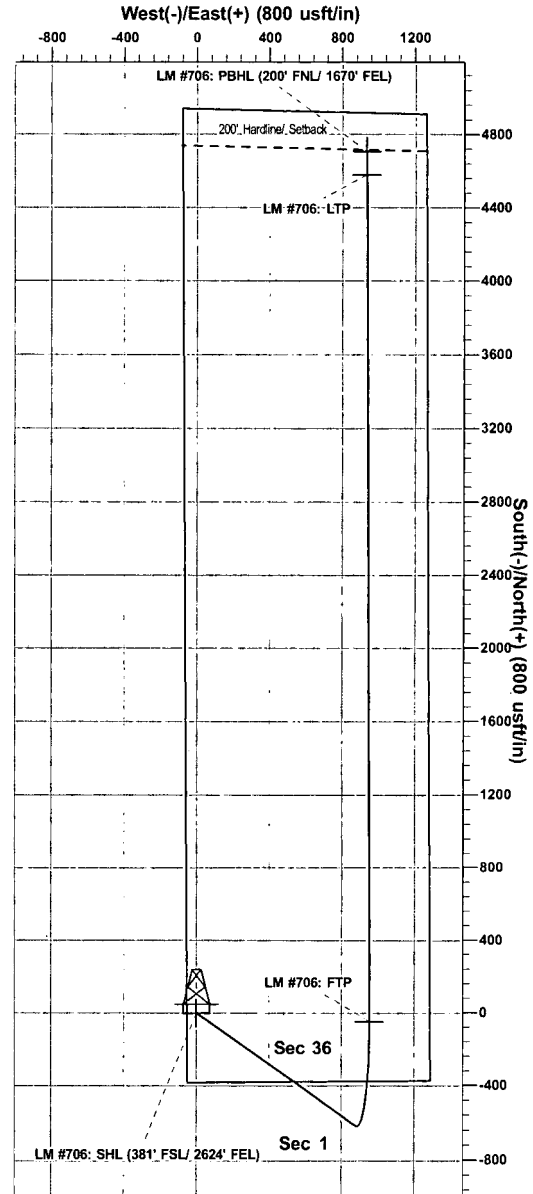
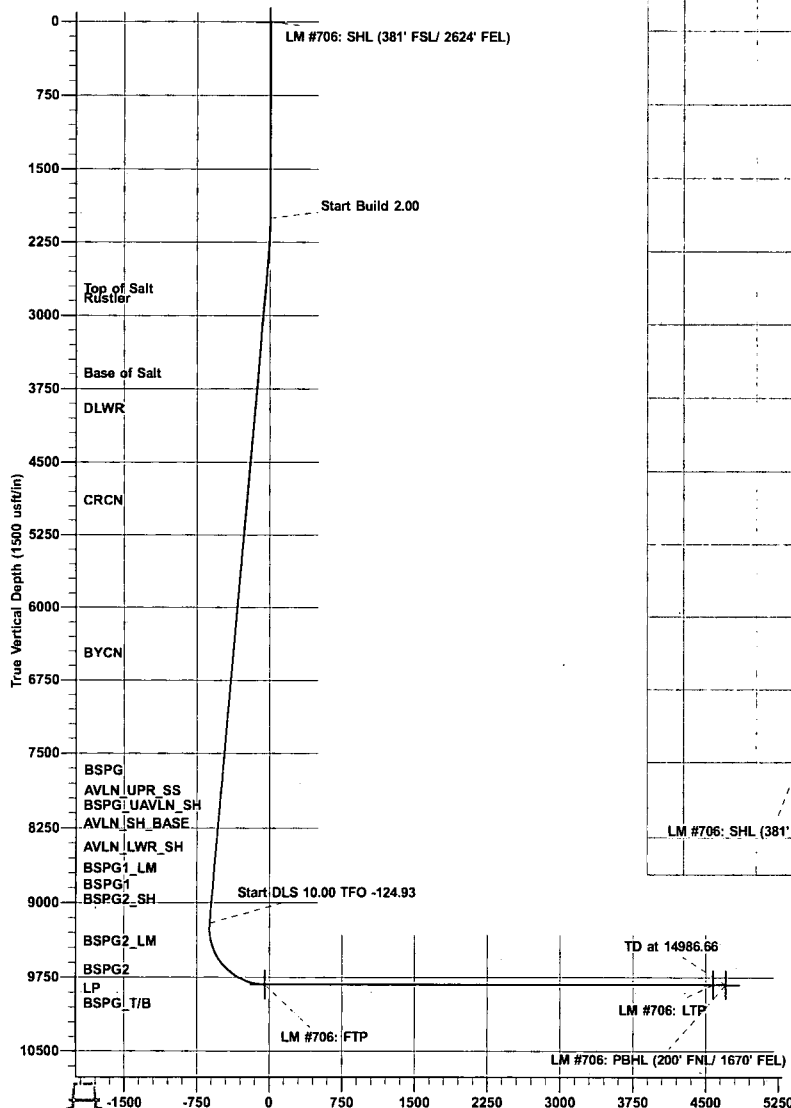
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
LM #706: SHL (381' FSL/ 2624' FEL)	0.00	0.00	0.00	456882.90	654471.80	32.2550998	-103.8336430	Point
LM #706: FTP	9820.00	-44.10	954.40	456838.80	655426.20	32.2549663	-103.8305565	Point
LM #706: LTP	9820.00	4579.40	932.80	461462.30	655404.60	32.2676760	-103.8305563	Point
LM #706: PBHL (200' FNL/ 1670' FEL)	9820.00	4709.40	932.20	461592.30	655404.00	32.2680334	-103.8305562	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	2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	0.00
3	2436.90	8.74	124.97	2435.21	-19.06	27.25	2.00	124.97	-19.19
4	3282.82	8.74	124.97	3281.67	-615.21	879.45	0.00	0.00	-619.35
5	10233.11	90.00	359.73	9820.00	-44.10	954.40	10.00	-124.93	-48.60
6	14856.66	90.00	359.73	9820.00	4579.40	932.81	0.00	0.00	4574.95
7	14986.66	90.00	359.73	9820.00	4709.40	932.20	0.00	0.00	4704.95

FORMATION TOP DETAILS

TVDPath	Formation
2800.00	Top of Salt
2900.00	Rustler
3665.00	Base of Salt
4025.00	DLWR
4964.00	CRCN
6545.00	BYCN
7987.00	BSPG
8070.00	AVLN UPR SS
8095.00	BSPG UAVLN SH
8280.00	AVLN SH BASE
8515.00	AVLN LWR SH
8726.00	BSPG1 LM
8890.00	BSPG1
9040.00	BSPG2 SH
9460.00	BSPG2 LM
9745.00	BSPG2
9820.00	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 Envision are at the sole risk and responsibility of the user.

Vertical Section at 359.73° (1500 usft/in)

Plan: PERMIT (#706H/OH)

Created By: Matthew May Date: 7:30, May 30 2019



Planning Report

Database:	EDM 5000.1.13 Single User Db	Local Co-ordinate Reference:	Well #706H
Company:	XTO Energy	TVD Reference:	RKB = 15' @ 3420.00usft
Project:	Eddy County, NM (NAD-27)	MD Reference:	RKB = 15' @ 3420.00usft
Site:	Los Medanos 36-23-30	North Reference:	Grid
Well:	#706H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PERMIT		

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:	32.2550888
		Longitude:	-103.8385289
		Grid Convergence:	0.26 °

Well	#706H		
Well Position	+N/-S	11.00 usft	Northing: 456,882.90 usft
	+E/-W	1,510.40 usft	Easting: 654,471.80 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft
		Latitude:	32.2550998
		Longitude:	-103.8336430
		Ground Level:	3,405.00 usft

Wellbore	OH		
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	05/28/19	6.87	60.02	47,729

Design	PERMIT		
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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	359.73

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	
2,436.90	8.74	124.97	2,435.21	-19.06	27.25	2.00	2.00	0.00	124.97	
9,282.82	8.74	124.97	9,201.67	-615.21	879.45	0.00	0.00	0.00	0.00	
10,233.11	90.00	359.73	9,820.00	-44.10	954.40	10.00	8.55	-13.18	-124.93	LM #706: FTP
14,856.66	90.00	359.73	9,820.00	4,579.40	932.81	0.00	0.00	0.00	0.00	LM #706: LTP
14,986.66	90.00	359.73	9,820.00	4,709.40	932.20	0.00	0.00	0.00	0.00	LM #706: PBHL (2C



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Site:	Los Medanos 36-23-30	North Reference:	Grid
Well:	#706H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PERMIT		

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
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	124.97	2,099.98	-1.00	1.43	-1.01	2.00	2.00	0.00
2,200.00	4.00	124.97	2,199.84	-4.00	5.72	-4.03	2.00	2.00	0.00
2,300.00	6.00	124.97	2,299.45	-9.00	12.86	-9.06	2.00	2.00	0.00
2,400.00	8.00	124.97	2,398.70	-15.98	22.85	-16.09	2.00	2.00	0.00
2,436.90	8.74	124.97	2,435.21	-19.06	27.25	-19.19	2.00	2.00	0.00
2,500.00	8.74	124.97	2,497.58	-24.55	35.10	-24.72	0.00	0.00	0.00
2,600.00	8.74	124.97	2,596.42	-33.26	47.55	-33.49	0.00	0.00	0.00
2,700.00	8.74	124.97	2,695.25	-41.97	60.00	-42.25	0.00	0.00	0.00
2,800.00	8.74	124.97	2,794.09	-50.68	72.45	-51.02	0.00	0.00	0.00
2,805.98	8.74	124.97	2,800.00	-51.20	73.19	-51.54	0.00	0.00	0.00
Top of Salt									
2,900.00	8.74	124.97	2,892.93	-59.39	84.89	-59.79	0.00	0.00	0.00
2,907.15	8.74	124.97	2,900.00	-60.01	85.78	-60.41	0.00	0.00	0.00
Rustler									
3,000.00	8.74	124.97	2,991.77	-68.09	97.34	-68.55	0.00	0.00	0.00
3,100.00	8.74	124.97	3,090.61	-76.80	109.79	-77.32	0.00	0.00	0.00
3,200.00	8.74	124.97	3,189.45	-85.51	122.24	-86.09	0.00	0.00	0.00
3,300.00	8.74	124.97	3,288.29	-94.22	134.69	-94.85	0.00	0.00	0.00
3,400.00	8.74	124.97	3,387.13	-102.93	147.14	-103.62	0.00	0.00	0.00
3,500.00	8.74	124.97	3,485.97	-111.64	159.58	-112.39	0.00	0.00	0.00
3,600.00	8.74	124.97	3,584.81	-120.34	172.03	-121.15	0.00	0.00	0.00
3,681.13	8.74	124.97	3,665.00	-127.41	182.13	-128.27	0.00	0.00	0.00
Base of Salt									
3,700.00	8.74	124.97	3,683.65	-129.05	184.48	-129.92	0.00	0.00	0.00
3,800.00	8.74	124.97	3,782.49	-137.76	196.93	-138.69	0.00	0.00	0.00
3,900.00	8.74	124.97	3,881.33	-146.47	209.38	-147.45	0.00	0.00	0.00
4,000.00	8.74	124.97	3,980.17	-155.18	221.83	-156.22	0.00	0.00	0.00
4,045.36	8.74	124.97	4,025.00	-159.13	227.47	-160.20	0.00	0.00	0.00
DLWR									
4,100.00	8.74	124.97	4,079.01	-163.88	234.27	-164.99	0.00	0.00	0.00
4,200.00	8.74	124.97	4,177.84	-172.59	246.72	-173.75	0.00	0.00	0.00
4,300.00	8.74	124.97	4,276.68	-181.30	259.17	-182.52	0.00	0.00	0.00
4,400.00	8.74	124.97	4,375.52	-190.01	271.62	-191.29	0.00	0.00	0.00



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Project:	Eddy County, NM (NAD-27)	MD Reference:	RKB = 15' @ 3420.00usft
Site:	Los Medanos 36-23-30	North Reference:	Grid
Well:	#706H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PERMIT		

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)
4,500.00	8.74	124.97	4,474.36	-198.72	284.07	-200.05	0.00	0.00	0.00
4,600.00	8.74	124.97	4,573.20	-207.42	296.51	-208.82	0.00	0.00	0.00
4,700.00	8.74	124.97	4,672.04	-216.13	308.96	-217.59	0.00	0.00	0.00
4,800.00	8.74	124.97	4,770.88	-224.84	321.41	-226.35	0.00	0.00	0.00
4,900.00	8.74	124.97	4,869.72	-233.55	333.86	-235.12	0.00	0.00	0.00
4,995.39	8.74	124.97	4,964.00	-241.85	345.73	-243.48	0.00	0.00	0.00
CRCN									
5,000.00	8.74	124.97	4,968.56	-242.26	346.31	-243.89	0.00	0.00	0.00
5,100.00	8.74	124.97	5,067.40	-250.96	358.76	-252.65	0.00	0.00	0.00
5,200.00	8.74	124.97	5,166.24	-259.67	371.20	-261.42	0.00	0.00	0.00
5,300.00	8.74	124.97	5,265.08	-268.38	383.65	-270.19	0.00	0.00	0.00
5,400.00	8.74	124.97	5,363.92	-277.09	396.10	-278.95	0.00	0.00	0.00
5,500.00	8.74	124.97	5,462.76	-285.80	408.55	-287.72	0.00	0.00	0.00
5,600.00	8.74	124.97	5,561.59	-294.51	421.00	-296.49	0.00	0.00	0.00
5,700.00	8.74	124.97	5,660.43	-303.21	433.45	-305.25	0.00	0.00	0.00
5,800.00	8.74	124.97	5,759.27	-311.92	445.89	-314.02	0.00	0.00	0.00
5,900.00	8.74	124.97	5,858.11	-320.63	458.34	-322.79	0.00	0.00	0.00
6,000.00	8.74	124.97	5,956.95	-329.34	470.79	-331.55	0.00	0.00	0.00
6,100.00	8.74	124.97	6,055.79	-338.05	483.24	-340.32	0.00	0.00	0.00
6,200.00	8.74	124.97	6,154.63	-346.75	495.69	-349.09	0.00	0.00	0.00
6,300.00	8.74	124.97	6,253.47	-355.46	508.14	-357.85	0.00	0.00	0.00
6,400.00	8.74	124.97	6,352.31	-364.17	520.58	-366.62	0.00	0.00	0.00
6,500.00	8.74	124.97	6,451.15	-372.88	533.03	-375.39	0.00	0.00	0.00
6,594.95	8.74	124.97	6,545.00	-381.15	544.85	-383.71	0.00	0.00	0.00
BYCN									
6,600.00	8.74	124.97	6,549.99	-381.59	545.48	-384.15	0.00	0.00	0.00
6,700.00	8.74	124.97	6,648.83	-390.29	557.93	-392.92	0.00	0.00	0.00
6,800.00	8.74	124.97	6,747.67	-399.00	570.38	-401.69	0.00	0.00	0.00
6,900.00	8.74	124.97	6,846.51	-407.71	582.83	-410.45	0.00	0.00	0.00
7,000.00	8.74	124.97	6,945.35	-416.42	595.27	-419.22	0.00	0.00	0.00
7,100.00	8.74	124.97	7,044.18	-425.13	607.72	-427.99	0.00	0.00	0.00
7,200.00	8.74	124.97	7,143.02	-433.83	620.17	-436.75	0.00	0.00	0.00
7,300.00	8.74	124.97	7,241.86	-442.54	632.62	-445.52	0.00	0.00	0.00
7,400.00	8.74	124.97	7,340.70	-451.25	645.07	-454.29	0.00	0.00	0.00
7,500.00	8.74	124.97	7,439.54	-459.96	657.52	-463.05	0.00	0.00	0.00
7,600.00	8.74	124.97	7,538.38	-468.67	669.96	-471.82	0.00	0.00	0.00
7,700.00	8.74	124.97	7,637.22	-477.37	682.41	-480.59	0.00	0.00	0.00
7,800.00	8.74	124.97	7,736.06	-486.08	694.86	-489.35	0.00	0.00	0.00
7,900.00	8.74	124.97	7,834.90	-494.79	707.31	-498.12	0.00	0.00	0.00
8,000.00	8.74	124.97	7,933.74	-503.50	719.76	-506.89	0.00	0.00	0.00
8,053.89	8.74	124.97	7,987.00	-508.19	726.46	-511.61	0.00	0.00	0.00
BSPG									
8,100.00	8.74	124.97	8,032.58	-512.21	732.21	-515.65	0.00	0.00	0.00
8,137.86	8.74	124.97	8,070.00	-515.50	736.92	-518.97	0.00	0.00	0.00
AVLN_UPR_SS									
8,163.16	8.74	124.97	8,095.00	-517.71	740.07	-521.19	0.00	0.00	0.00
BSPG_UAVLN_SH									
8,200.00	8.74	124.97	8,131.42	-520.92	744.65	-524.42	0.00	0.00	0.00
8,300.00	8.74	124.97	8,230.26	-529.62	757.10	-533.19	0.00	0.00	0.00
8,350.33	8.74	124.97	8,280.00	-534.01	763.37	-537.60	0.00	0.00	0.00
AVLN_SH_BASE									
8,400.00	8.74	124.97	8,329.10	-538.33	769.55	-541.95	0.00	0.00	0.00
8,500.00	8.74	124.97	8,427.93	-547.04	782.00	-550.72	0.00	0.00	0.00



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Site:	Los Medanos 36-23-30	North Reference:	Grid
Well:	#706H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PERMIT		

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)
8,588.09	8.74	124.97	8,515.00	-554.71	792.96	-558.44	0.00	0.00	0.00
AVLN_LWR_SH									
8,600.00	8.74	124.97	8,526.77	-555.75	794.45	-559.49	0.00	0.00	0.00
8,700.00	8.74	124.97	8,625.61	-564.46	806.89	-568.25	0.00	0.00	0.00
8,800.00	8.74	124.97	8,724.45	-573.16	819.34	-577.02	0.00	0.00	0.00
8,801.57	8.74	124.97	8,726.00	-573.30	819.54	-577.16	0.00	0.00	0.00
BSPG1_LM									
8,900.00	8.74	124.97	8,823.29	-581.87	831.79	-585.79	0.00	0.00	0.00
8,967.49	8.74	124.97	8,890.00	-587.75	840.19	-591.70	0.00	0.00	0.00
BSPG1									
9,000.00	8.74	124.97	8,922.13	-590.58	844.24	-594.55	0.00	0.00	0.00
9,100.00	8.74	124.97	9,020.97	-599.29	856.69	-603.32	0.00	0.00	0.00
9,119.25	8.74	124.97	9,040.00	-600.96	859.08	-605.01	0.00	0.00	0.00
BSPG2_SH									
9,200.00	8.74	124.97	9,119.81	-608.00	869.14	-612.09	0.00	0.00	0.00
9,282.82	8.74	124.97	9,201.67	-615.21	879.45	-619.35	0.00	0.00	0.00
9,300.00	7.88	114.65	9,218.67	-616.45	881.59	-620.60	10.00	-4.99	-60.12
9,350.00	7.35	76.41	9,268.26	-617.13	887.81	-621.30	10.00	-1.06	-76.47
9,400.00	9.78	46.46	9,317.72	-613.45	894.01	-617.65	10.00	4.86	-59.92
9,450.00	13.68	30.78	9,366.68	-605.44	900.11	-609.67	10.00	7.79	-31.35
9,500.00	18.12	22.29	9,414.76	-593.16	906.09	-597.42	10.00	8.88	-16.98
9,548.26	22.62	17.27	9,460.00	-577.34	911.70	-581.63	10.00	9.33	-10.41
BSPG2_LM									
9,550.00	22.78	17.12	9,461.60	-576.70	911.90	-580.99	10.00	9.46	-8.36
9,600.00	27.56	13.65	9,506.84	-556.19	917.48	-560.51	10.00	9.56	-6.95
9,650.00	32.40	11.14	9,550.14	-531.79	922.80	-536.13	10.00	9.68	-5.02
9,700.00	37.28	9.22	9,591.16	-503.68	927.82	-508.05	10.00	9.76	-3.83
9,750.00	42.19	7.69	9,629.60	-472.07	932.50	-476.46	10.00	9.81	-3.06
9,800.00	47.11	6.43	9,665.16	-437.21	936.80	-441.62	10.00	9.84	-2.53
9,850.00	52.04	5.35	9,697.58	-399.36	940.69	-403.79	10.00	9.86	-2.15
9,900.00	56.98	4.41	9,726.60	-358.81	944.14	-363.26	10.00	9.88	-1.88
9,935.47	60.49	3.81	9,745.00	-328.58	946.31	-333.03	10.00	9.89	-1.71
BSPG2									
9,950.00	61.93	3.57	9,752.00	-315.87	947.13	-320.33	10.00	9.90	-1.62
10,000.00	66.88	2.80	9,773.59	-270.86	949.63	-275.33	10.00	9.90	-1.53
10,050.00	71.84	2.09	9,791.21	-224.12	951.63	-228.61	10.00	9.91	-1.42
10,100.00	76.79	1.42	9,804.73	-176.02	953.10	-180.51	10.00	9.92	-1.34
10,150.00	81.75	0.77	9,814.03	-126.92	954.04	-131.42	10.00	9.92	-1.29
10,200.00	86.71	0.15	9,819.05	-77.19	954.44	-81.69	10.00	9.92	-1.26
10,233.11	90.00	359.73	9,820.00	-44.10	954.40	-48.60	10.00	9.92	-1.25
LP									
10,300.00	90.00	359.73	9,820.00	22.79	954.09	18.29	0.00	0.00	0.00
10,400.00	90.00	359.73	9,820.00	122.79	953.62	118.29	0.00	0.00	0.00
10,500.00	90.00	359.73	9,820.00	222.79	953.15	218.29	0.00	0.00	0.00
10,600.00	90.00	359.73	9,820.00	322.78	952.69	318.29	0.00	0.00	0.00
10,700.00	90.00	359.73	9,820.00	422.78	952.22	418.29	0.00	0.00	0.00
10,800.00	90.00	359.73	9,820.00	522.78	951.75	518.29	0.00	0.00	0.00
10,900.00	90.00	359.73	9,820.00	622.78	951.29	618.29	0.00	0.00	0.00
11,000.00	90.00	359.73	9,820.00	722.78	950.82	718.29	0.00	0.00	0.00
11,100.00	90.00	359.73	9,820.00	822.78	950.35	818.29	0.00	0.00	0.00
11,200.00	90.00	359.73	9,820.00	922.78	949.88	918.29	0.00	0.00	0.00
11,300.00	90.00	359.73	9,820.00	1,022.78	949.42	1,018.29	0.00	0.00	0.00
11,400.00	90.00	359.73	9,820.00	1,122.78	948.95	1,118.29	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.1.13 Single User Db	Local Co-ordinate Reference:	Well #706H
Company:	XTO Energy	TVD Reference:	RKB = 15' @ 3420.00usft
Project:	Eddy County, NM (NAD-27)	MD Reference:	RKB = 15' @ 3420.00usft
Site:	Los Medanos 36-23-30	North Reference:	Grid
Well:	#706H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PERMIT		

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)
11,500.00	90.00	359.73	9,820.00	1,222.78	948.48	1,218.29	0.00	0.00	0.00
11,600.00	90.00	359.73	9,820.00	1,322.77	948.02	1,318.29	0.00	0.00	0.00
11,700.00	90.00	359.73	9,820.00	1,422.77	947.55	1,418.29	0.00	0.00	0.00
11,800.00	90.00	359.73	9,820.00	1,522.77	947.08	1,518.29	0.00	0.00	0.00
11,900.00	90.00	359.73	9,820.00	1,622.77	946.62	1,618.29	0.00	0.00	0.00
12,000.00	90.00	359.73	9,820.00	1,722.77	946.15	1,718.29	0.00	0.00	0.00
12,100.00	90.00	359.73	9,820.00	1,822.77	945.68	1,818.29	0.00	0.00	0.00
12,200.00	90.00	359.73	9,820.00	1,922.77	945.21	1,918.29	0.00	0.00	0.00
12,300.00	90.00	359.73	9,820.00	2,022.77	944.75	2,018.29	0.00	0.00	0.00
12,400.00	90.00	359.73	9,820.00	2,122.77	944.28	2,118.29	0.00	0.00	0.00
12,500.00	90.00	359.73	9,820.00	2,222.76	943.81	2,218.29	0.00	0.00	0.00
12,600.00	90.00	359.73	9,820.00	2,322.76	943.35	2,318.29	0.00	0.00	0.00
12,700.00	90.00	359.73	9,820.00	2,422.76	942.88	2,418.29	0.00	0.00	0.00
12,800.00	90.00	359.73	9,820.00	2,522.76	942.41	2,518.29	0.00	0.00	0.00
12,900.00	90.00	359.73	9,820.00	2,622.76	941.95	2,618.29	0.00	0.00	0.00
13,000.00	90.00	359.73	9,820.00	2,722.76	941.48	2,718.29	0.00	0.00	0.00
13,100.00	90.00	359.73	9,820.00	2,822.76	941.01	2,818.29	0.00	0.00	0.00
13,200.00	90.00	359.73	9,820.00	2,922.76	940.54	2,918.29	0.00	0.00	0.00
13,300.00	90.00	359.73	9,820.00	3,022.76	940.08	3,018.29	0.00	0.00	0.00
13,400.00	90.00	359.73	9,820.00	3,122.75	939.61	3,118.29	0.00	0.00	0.00
13,500.00	90.00	359.73	9,820.00	3,222.75	939.14	3,218.29	0.00	0.00	0.00
13,600.00	90.00	359.73	9,820.00	3,322.75	938.68	3,318.29	0.00	0.00	0.00
13,700.00	90.00	359.73	9,820.00	3,422.75	938.21	3,418.29	0.00	0.00	0.00
13,800.00	90.00	359.73	9,820.00	3,522.75	937.74	3,518.29	0.00	0.00	0.00
13,900.00	90.00	359.73	9,820.00	3,622.75	937.27	3,618.29	0.00	0.00	0.00
14,000.00	90.00	359.73	9,820.00	3,722.75	936.81	3,718.29	0.00	0.00	0.00
14,100.00	90.00	359.73	9,820.00	3,822.75	936.34	3,818.29	0.00	0.00	0.00
14,200.00	90.00	359.73	9,820.00	3,922.75	935.87	3,918.29	0.00	0.00	0.00
14,300.00	90.00	359.73	9,820.00	4,022.74	935.41	4,018.29	0.00	0.00	0.00
14,400.00	90.00	359.73	9,820.00	4,122.74	934.94	4,118.29	0.00	0.00	0.00
14,500.00	90.00	359.73	9,820.00	4,222.74	934.47	4,218.29	0.00	0.00	0.00
14,600.00	90.00	359.73	9,820.00	4,322.74	934.01	4,318.29	0.00	0.00	0.00
14,700.00	90.00	359.73	9,820.00	4,422.74	933.54	4,418.29	0.00	0.00	0.00
14,800.00	90.00	359.73	9,820.00	4,522.74	933.07	4,518.29	0.00	0.00	0.00
14,856.66	90.00	359.73	9,820.00	4,579.40	932.81	4,574.95	0.00	0.00	0.00
14,900.00	90.00	359.73	9,820.00	4,622.74	932.60	4,618.29	0.00	0.00	0.00
14,986.66	90.00	359.73	9,820.00	4,709.40	932.20	4,704.95	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.1.13 Single User Db	Local Co-ordinate Reference:	Well #706H
Company:	XTO Energy	TVD Reference:	RKB = 15' @ 3420.00usft
Project:	Eddy County, NM (NAD-27)	MD Reference:	RKB = 15' @ 3420.00usft
Site:	Los Medanos 36-23-30	North Reference:	Grid
Well:	#706H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PERMIT		

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 #706: SHL (381' F - plan hits target center - Point	0.00	0.00	0.00	0.00	0.00	456,882.90	654,471.80	32.2550998	-103.8336430
LM #706: FTP - plan hits target center - Point	0.00	0.00	9,820.00	-44.10	954.40	456,838.80	655,426.20	32.2549663	-103.8305564
LM #706: LTP - plan misses target center by 0.01usft at 14856.66usft MD (9820.00 TVD, 4579.40 N, 932.81 E) - Point	0.00	0.00	9,820.00	4,579.40	932.80	461,462.30	655,404.60	32.2676760	-103.8305563
LM #706: PBHL (200' - plan hits target center - Point	0.00	0.00	9,820.00	4,709.40	932.20	461,592.30	655,404.00	32.2680334	-103.8305562

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
2,805.98	2,800.00	Top of Salt			
2,907.15	2,900.00	Rustler			
3,681.13	3,665.00	Base of Salt			
4,045.36	4,025.00	DLWR			
4,995.39	4,964.00	CRCN			
6,594.95	6,545.00	BYCN			
8,053.89	7,987.00	BSPG			
8,137.86	8,070.00	AVLN_UPR_SS			
8,163.16	8,095.00	BSPG_UAVLN_SH			
8,350.33	8,280.00	AVLN_SH_BASE			
8,588.09	8,515.00	AVLN_LWR_SH			
8,801.57	8,726.00	BSPG1_LM			
8,967.49	8,890.00	BSPG1			
9,119.25	9,040.00	BSPG2_SH			
9,548.26	9,460.00	BSPG2_LM			
9,935.47	9,745.00	BSPG2			
10,233.11	9,820.00	LP			