

Survey Report Landscape

Company:	XTO Energy	Local Co-ordinate Reference:	Well LOS MEDANOS 36-23-30 703H
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3411+18 @ 3429.00usft (Prec525703)
Site:	Los Medanos 36-23-30 State	MD Reference:	3411+18 @ 3429.00usft (Prec525703)
Well:	LOS MEDANOS 36-23-30 703H	North Reference:	Grid
Wellbore:	703H	Survey Calculation Method:	Minimum Curvature
Design:	703H (AsDrilled)	Database:	STRYKER_EDM

Project	Eddy County, NM (NAD27) NMEZ Grid		
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 State		
Site Position:		Northing:	456,871.90 usft
From:	Map	Easting:	652,961.40 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13.20 in
		Latitude:	32.25508879
		Longitude:	-103.83852891
		Grid Convergence:	0.26 °

Well	LOS MEDANOS 36-23-30 703H		
Well Position	+N/-S	0.00 usft	Northing:
	+E/-W	0.00 usft	Easting:
Position Uncertainty	0.00 usft		Wellhead Elevation:
			Latitude:
			Longitude:
			Ground Level:

Wellbore	703H		
Magnetics	Model Name	Sample Date	Declination
			(°)
			Dip Angle
			(°)
			Field Strength
			(nT)
	IGRF2015	02/12/19	6.90
			60.03
			47,758.47725166

Design	703H (AsDrilled)		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			Direction
			(°)
			0.51

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Survey Program		Date 03/06/19			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
133.00	3,843.00	Survey #1 BloodhoundMWD (703H)	MWD	OWSG MWD - Standard	
3,995.00	14,923.00	Survey #2 Stryker (703H)	MWD	OWSG MWD - Standard	
14,975.00	14,975.00	Survey #3 (703H)	Projection	Projection	

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100ft)	Northing (usft)	Easting (usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	456,883.60	653,753.90	
LM 36-23-30 703H SHL											
133.00	0.50	289.93	133.00	0.20	-0.55	0.58	289.93	0.38	456,883.80	653,753.35	
256.00	0.40	275.03	255.99	0.42	-1.48	1.54	285.81	0.12	456,884.02	653,752.42	
314.00	0.70	234.13	313.99	0.23	-1.97	1.98	276.63	0.82	456,883.83	653,751.93	
465.00	0.80	232.03	464.98	-0.96	-3.55	3.67	254.84	0.07	456,882.64	653,750.35	
537.00	0.60	213.93	536.97	-1.58	-4.15	4.44	249.13	0.41	456,882.02	653,749.75	
626.00	0.60	209.23	625.97	-2.38	-4.64	5.21	242.88	0.06	456,881.22	653,749.26	
700.00	0.50	241.23	699.97	-2.87	-5.11	5.86	240.69	0.43	456,880.73	653,748.79	
741.00	0.70	296.43	740.96	-2.84	-5.49	6.19	242.63	1.42	456,880.76	653,748.41	
822.00	0.50	274.53	821.96	-2.60	-6.29	6.80	247.57	0.37	456,881.00	653,747.61	
904.00	0.90	258.93	903.95	-2.69	-7.28	7.76	249.70	0.54	456,880.91	653,746.62	
994.00	1.10	236.03	993.94	-3.31	-8.69	9.30	249.14	0.49	456,880.29	653,745.21	
1,107.00	1.00	231.83	1,106.92	-4.53	-10.36	11.31	246.41	0.11	456,879.07	653,743.54	
1,196.00	1.10	248.19	1,195.91	-5.32	-11.77	12.91	245.66	0.35	456,878.28	653,742.13	
1,286.00	1.10	242.23	1,285.89	-6.05	-13.33	14.64	245.61	0.13	456,877.55	653,740.57	
1,376.00	1.10	231.83	1,375.87	-6.98	-14.78	16.34	244.71	0.22	456,876.62	653,739.12	
1,465.00	0.90	247.93	1,464.86	-7.77	-16.09	17.87	244.22	0.39	456,875.83	653,737.81	
1,555.00	0.80	250.63	1,554.85	-8.25	-17.34	19.20	244.57	0.12	456,875.35	653,736.56	
1,644.00	0.60	251.93	1,643.84	-8.60	-18.37	20.28	244.92	0.23	456,875.00	653,735.53	
1,734.00	0.80	248.43	1,733.84	-8.97	-19.40	21.38	245.18	0.23	456,874.63	653,734.50	

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Wellbore:	703H	Survey Calculation Method:	Minimum Curvature
Design:	703H (AsDrilled)	Database:	STRYKER_EDM

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100ft)	Northing (usft)	Easting (usft)
1,824.00	0.80	244.33	1,823.83	-9.48	-20.55	22.63	245.25	0.06	456,874.12	653,733.35
1,913.00	0.80	230.03	1,912.82	-10.15	-21.59	23.86	244.83	0.22	456,873.45	653,732.31
2,003.00	0.90	246.93	2,002.81	-10.83	-22.72	25.17	244.52	0.30	456,872.77	653,731.18
2,093.00	0.80	249.63	2,092.80	-11.32	-23.96	26.50	244.71	0.12	456,872.28	653,729.94
2,183.00	1.00	241.73	2,182.79	-11.91	-25.24	27.91	244.74	0.26	456,871.69	653,728.66
2,272.00	0.70	260.93	2,271.78	-12.37	-26.46	29.21	244.95	0.46	456,871.23	653,727.44
2,362.00	0.80	261.33	2,361.77	-12.55	-27.63	30.34	245.57	0.11	456,871.05	653,726.27
2,452.00	0.90	255.23	2,451.76	-12.82	-28.93	31.65	246.10	0.15	456,870.78	653,724.97
2,541.00	1.20	272.83	2,540.75	-12.95	-30.54	33.17	247.01	0.49	456,870.65	653,723.36
2,631.00	1.00	281.23	2,630.73	-12.76	-32.25	34.68	248.42	0.28	456,870.84	653,721.65
2,720.00	1.00	279.33	2,719.72	-12.48	-33.78	36.01	249.72	0.04	456,871.12	653,720.12
2,810.00	1.10	266.33	2,809.70	-12.41	-35.42	37.53	250.69	0.29	456,871.19	653,718.48
2,899.00	1.00	241.83	2,898.69	-12.83	-36.95	39.12	250.86	0.51	456,870.77	653,716.95
2,989.00	1.20	255.03	2,988.67	-13.44	-38.56	40.83	250.78	0.36	456,870.16	653,715.34
3,078.00	1.30	257.23	3,077.65	-13.91	-40.44	42.76	251.02	0.12	456,869.69	653,713.46
3,168.00	1.30	239.93	3,167.63	-14.64	-42.32	44.78	250.91	0.43	456,868.96	653,711.58
3,257.00	1.00	243.43	3,256.61	-15.50	-43.89	46.54	250.55	0.35	456,868.10	653,710.01
3,347.00	0.70	224.33	3,346.60	-16.24	-44.97	47.82	250.14	0.45	456,867.36	653,708.93
3,436.00	1.00	191.73	3,435.59	-17.39	-45.51	48.72	249.09	0.63	456,866.21	653,708.39
3,526.00	1.20	169.73	3,525.57	-19.09	-45.50	49.34	247.24	0.51	456,864.51	653,708.40
3,615.00	1.60	166.53	3,614.55	-21.21	-45.05	49.79	244.79	0.46	456,862.39	653,708.85
3,705.00	2.40	174.83	3,704.49	-24.31	-44.59	50.78	241.40	0.94	456,859.29	653,709.31
3,795.00	3.30	173.83	3,794.38	-28.76	-44.14	52.68	236.91	1.00	456,854.84	653,709.76
3,843.00	3.10	171.43	3,842.30	-31.42	-43.80	53.90	234.34	0.50	456,852.18	653,710.10
3,995.00	1.80	168.00	3,994.16	-37.82	-42.69	57.03	228.46	0.86	456,845.78	653,711.21
4,084.00	0.50	115.40	4,083.14	-39.35	-42.05	57.59	226.89	1.74	456,844.25	653,711.85
4,174.00	0.60	87.00	4,173.14	-39.50	-41.22	57.09	226.22	0.32	456,844.10	653,712.68

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Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100ft)	Northing (usft)	Easting (usft)
4,264.00	0.60	84.80	4,263.13	-39.43	-40.28	56.37	225.61	0.03	456,844.17	653,713.62
4,353.00	0.80	106.50	4,352.13	-39.56	-39.22	55.71	224.75	0.37	456,844.04	653,714.68
4,443.00	1.10	94.90	4,442.11	-39.82	-37.76	54.87	223.48	0.39	456,843.78	653,716.14
4,532.00	1.30	91.40	4,531.10	-39.91	-35.90	53.68	221.97	0.24	456,843.69	653,718.00
4,622.00	1.10	84.50	4,621.08	-39.86	-34.02	52.40	220.48	0.27	456,843.74	653,719.88
4,711.00	1.30	85.30	4,710.06	-39.69	-32.16	51.08	219.02	0.23	456,843.91	653,721.74
4,801.00	1.10	83.50	4,800.04	-39.51	-30.28	49.78	217.47	0.23	456,844.09	653,723.62
4,890.00	1.10	68.60	4,889.02	-39.10	-28.64	48.47	216.22	0.32	456,844.50	653,725.26
4,980.00	1.10	82.90	4,979.00	-38.68	-26.98	47.16	214.90	0.30	456,844.92	653,726.92
5,070.00	1.00	85.10	5,068.99	-38.51	-25.34	46.09	213.35	0.12	456,845.09	653,728.56
5,159.00	1.10	84.50	5,157.97	-38.36	-23.71	45.10	211.73	0.11	456,845.24	653,730.19
5,249.00	1.00	87.90	5,247.96	-38.25	-22.07	44.16	209.99	0.13	456,845.35	653,731.83
5,338.00	1.00	82.10	5,336.94	-38.11	-20.52	43.29	208.30	0.11	456,845.49	653,733.38
5,428.00	1.00	71.40	5,426.93	-37.75	-19.00	42.26	206.72	0.21	456,845.85	653,734.90
5,517.00	1.10	78.60	5,515.92	-37.34	-17.43	41.20	205.02	0.19	456,846.26	653,736.47
5,607.00	0.90	84.00	5,605.90	-37.09	-15.88	40.35	203.18	0.25	456,846.51	653,738.02
5,697.00	1.60	193.10	5,695.89	-38.24	-15.46	41.25	202.01	2.31	456,845.36	653,738.44
5,786.00	1.50	190.90	5,784.86	-40.59	-15.96	43.62	201.47	0.13	456,843.01	653,737.94
5,875.00	1.50	193.80	5,873.83	-42.87	-16.46	45.92	201.00	0.09	456,840.73	653,737.44
5,965.00	1.70	191.30	5,963.79	-45.32	-17.00	48.41	200.56	0.24	456,838.28	653,736.90
6,055.00	1.70	190.90	6,053.75	-47.94	-17.52	51.04	200.07	0.01	456,835.66	653,736.38
6,144.00	2.70	189.40	6,142.68	-51.31	-18.11	54.41	199.44	1.13	456,832.29	653,735.79
6,234.00	3.60	175.40	6,232.55	-56.22	-18.23	59.10	197.97	1.31	456,827.38	653,735.67
6,323.00	5.50	172.00	6,321.26	-63.22	-17.41	65.58	195.40	2.16	456,820.38	653,736.49
6,413.00	5.10	171.50	6,410.88	-71.45	-16.22	73.27	192.79	0.45	456,812.15	653,737.68
6,502.00	5.00	171.30	6,499.53	-79.20	-15.05	80.62	190.76	0.11	456,804.40	653,738.85
6,592.00	4.80	170.80	6,589.21	-86.79	-13.85	87.89	189.07	0.23	456,796.81	653,740.05

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Survey											
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6,681.00	4.70	170.60	6,677.90	-94.07	-12.66	94.91	187.67	0.11	456,789.53	653,741.24	
6,771.00	4.40	168.40	6,767.62	-101.08	-11.37	101.72	186.42	0.39	456,782.52	653,742.53	
6,861.00	5.50	169.70	6,857.28	-108.71	-9.90	109.16	185.20	1.23	456,774.89	653,744.00	
6,951.00	5.30	171.10	6,946.88	-117.06	-8.49	117.37	184.15	0.27	456,766.54	653,745.41	
7,040.00	5.10	173.20	7,035.51	-125.05	-7.38	125.27	183.38	0.31	456,758.55	653,746.52	
7,130.00	5.10	173.50	7,125.16	-133.00	-6.45	133.15	182.78	0.03	456,750.60	653,747.45	
7,219.00	5.00	173.10	7,213.81	-140.78	-5.54	140.89	182.25	0.12	456,742.82	653,748.36	
7,308.00	5.00	173.60	7,302.47	-148.48	-4.64	148.55	181.79	0.05	456,735.12	653,749.26	
7,398.00	4.70	174.20	7,392.15	-156.05	-3.83	156.09	181.41	0.34	456,727.55	653,750.07	
7,487.00	5.50	166.70	7,480.80	-163.83	-2.48	163.84	180.87	1.17	456,719.77	653,751.42	
7,577.00	6.00	163.80	7,570.35	-172.54	-0.18	172.54	180.06	0.64	456,711.06	653,753.72	
7,667.00	5.60	167.10	7,659.88	-181.34	2.11	181.35	179.33	0.58	456,702.26	653,756.01	
7,756.00	5.30	165.20	7,748.48	-189.55	4.13	189.59	178.75	0.39	456,694.05	653,758.03	
7,846.00	5.00	167.70	7,838.12	-197.40	6.03	197.49	178.25	0.42	456,686.20	653,759.93	
7,935.00	4.40	168.20	7,926.82	-204.53	7.56	204.67	177.88	0.68	456,679.07	653,761.46	
8,025.00	4.00	171.10	8,016.58	-211.01	8.75	211.19	177.63	0.50	456,672.59	653,762.65	
8,115.00	4.50	163.60	8,106.33	-217.50	10.23	217.74	177.31	0.83	456,666.10	653,764.13	
8,204.00	4.20	158.20	8,195.07	-223.87	12.43	224.22	176.82	0.57	456,659.73	653,766.33	
8,294.00	4.70	153.50	8,284.80	-230.23	15.29	230.74	176.20	0.69	456,653.37	653,769.19	
8,383.00	4.10	157.20	8,373.54	-236.43	18.15	237.12	175.61	0.75	456,647.17	653,772.05	
8,473.00	3.30	152.80	8,463.35	-241.70	20.59	242.57	175.13	0.94	456,641.90	653,774.49	
8,563.00	2.70	151.40	8,553.23	-245.86	22.78	246.92	174.71	0.67	456,637.74	653,776.68	
8,652.00	2.20	172.20	8,642.15	-249.40	24.02	250.55	174.50	1.14	456,634.20	653,777.92	
8,742.00	2.20	180.40	8,732.08	-252.83	24.24	253.99	174.52	0.35	456,630.77	653,778.14	
8,832.00	1.60	182.30	8,822.03	-255.82	24.18	256.96	174.60	0.67	456,627.78	653,778.08	
8,921.00	1.60	195.90	8,911.00	-258.25	23.79	259.35	174.74	0.43	456,625.35	653,777.69	
9,011.00	1.60	206.20	9,000.96	-260.59	22.89	261.59	174.98	0.32	456,623.01	653,776.79	

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Survey										
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9,100.00	1.60	196.70	9,089.93	-262.89	21.98	263.81	175.22	0.30	456,620.71	653,775.88
9,190.00	1.50	177.10	9,179.90	-265.27	21.68	266.16	175.33	0.60	456,618.33	653,775.58
9,279.00	1.10	179.40	9,268.87	-267.29	21.75	268.18	175.35	0.45	456,616.31	653,775.65
9,369.00	1.30	225.30	9,358.86	-268.87	21.03	269.70	175.53	1.06	456,614.73	653,774.93
9,440.00	0.73	253.63	9,429.84	-269.57	20.03	270.31	175.75	1.04	456,614.03	653,773.93
Wellpath is ~117°FSL										
9,446.00	0.70	257.90	9,435.84	-269.59	19.95	270.32	175.77	1.04	456,614.01	653,773.85
9,490.00	5.70	17.80	9,479.78	-267.56	20.36	268.33	175.65	13.82	456,616.04	653,774.26
9,535.00	11.40	14.80	9,524.26	-261.13	22.18	262.07	175.15	12.70	456,622.47	653,776.08
9,580.00	16.40	17.80	9,567.93	-250.77	25.26	252.04	174.25	11.22	456,632.83	653,779.16
9,625.00	20.10	23.30	9,610.66	-237.62	30.26	239.54	172.74	9.06	456,645.98	653,784.16
9,670.00	22.70	26.60	9,652.55	-222.75	37.21	225.84	170.52	6.37	456,660.85	653,791.11
9,715.00	24.50	29.90	9,693.79	-206.89	45.75	211.89	167.53	4.96	456,676.71	653,799.65
9,760.00	28.70	29.00	9,734.02	-189.35	55.64	197.35	163.62	9.38	456,694.25	653,809.54
9,804.00	33.40	22.20	9,771.71	-168.88	65.35	181.08	158.84	13.31	456,714.72	653,819.25
9,849.00	35.10	16.60	9,808.92	-145.00	73.73	162.67	153.05	7.95	456,738.60	653,827.63
9,894.00	34.80	9.60	9,845.82	-119.93	79.57	143.93	146.44	8.93	456,763.67	653,833.47
9,939.00	36.20	2.40	9,882.47	-93.98	82.27	124.90	138.80	9.79	456,789.62	653,836.17
9,957.24	37.04	359.56	9,897.11	-83.11	82.45	117.07	135.23	10.37	456,800.49	653,836.35
LM 36-23-30 703H FTP_100FSL_586FWL p3										
9,984.00	38.40	355.60	9,918.28	-66.76	81.75	105.55	129.23	10.37	456,816.84	653,835.65
10,028.00	42.70	354.50	9,951.70	-38.27	79.27	88.03	115.77	9.91	456,845.33	653,833.17
10,073.00	47.60	354.60	9,983.43	-6.52	76.24	76.52	94.89	10.89	456,877.08	653,830.14
10,119.00	54.10	354.80	10,012.46	28.98	72.95	78.50	68.33	14.13	456,912.58	653,826.85
10,164.00	60.00	354.10	10,036.92	66.55	69.30	96.08	46.16	13.18	456,950.15	653,823.20
10,209.00	66.10	353.40	10,057.31	106.41	64.92	124.65	31.39	13.63	456,990.01	653,818.82
10,253.00	72.30	353.20	10,072.93	147.24	60.13	159.04	22.21	14.10	457,030.84	653,814.03

Survey Report Landscape

Company:	XTO Energy	Local Co-ordinate Reference:	Well LOS MEDANOS 36-23-30 703H
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3411+18 @ 3429.00usft (Prec525703)
Site:	Los Medanos 36-23-30 State	MD Reference:	3411+18 @ 3429.00usft (Prec525703)
Well:	LOS MEDANOS 36-23-30 703H	North Reference:	Grid
Wellbore:	703H	Survey Calculation Method:	Minimum Curvature
Design:	703H (AsDrilled)	Database:	STRYKER_EDM

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100ft)	Northing (usft)	Easting (usft)	
10,298.00	80.10	352.70	10,083.65	190.57	54.76	198.29	16.03	17.37	457,074.17	653,808.66	
10,332.55	84.89	352.78	10,088.16	224.54	50.44	230.14	12.66	13.87	457,108.14	653,804.34	
LM 36-23-30 703H LP											
10,342.00	86.20	352.80	10,088.90	233.89	49.25	239.02	11.89	13.87	457,117.49	653,803.15	
10,387.00	87.30	356.50	10,091.45	278.61	45.07	282.24	9.19	8.57	457,162.21	653,798.97	
10,432.00	89.50	358.60	10,092.70	323.55	43.14	326.41	7.60	6.76	457,207.15	653,797.04	
10,476.00	91.90	0.00	10,092.17	367.54	42.61	370.00	6.61	6.31	457,251.14	653,796.51	
10,521.00	93.00	0.60	10,090.24	412.50	42.84	414.72	5.93	2.78	457,296.10	653,796.74	
10,611.00	93.30	0.00	10,085.30	502.36	43.31	504.22	4.93	0.74	457,385.96	653,797.21	
10,700.00	93.40	359.10	10,080.10	591.20	42.61	592.74	4.12	1.02	457,474.80	653,796.51	
10,790.00	93.60	359.90	10,074.60	681.03	41.83	682.31	3.51	0.91	457,564.63	653,795.73	
10,880.00	93.20	1.10	10,069.27	770.87	42.61	772.04	3.16	1.40	457,654.47	653,796.51	
10,969.00	92.30	1.90	10,065.00	859.73	44.94	860.91	2.99	1.35	457,743.33	653,798.84	
11,059.00	93.40	1.90	10,060.52	949.57	47.92	950.78	2.89	1.22	457,833.17	653,801.82	
11,149.00	90.50	1.50	10,057.46	1,039.47	50.59	1,040.70	2.79	3.25	457,923.07	653,804.49	
11,239.00	89.10	2.10	10,057.77	1,129.42	53.42	1,130.68	2.71	1.69	458,013.02	653,807.32	
11,328.00	90.30	2.60	10,058.24	1,218.34	57.07	1,219.68	2.68	1.46	458,101.94	653,810.97	
11,418.00	88.80	3.20	10,058.95	1,308.22	61.62	1,309.67	2.70	1.80	458,191.82	653,815.52	
11,508.00	87.60	2.10	10,061.77	1,398.08	65.78	1,399.63	2.69	1.81	458,281.68	653,819.68	
11,597.00	88.30	0.40	10,064.96	1,487.00	67.72	1,488.54	2.61	2.06	458,370.60	653,821.62	
11,687.00	90.20	359.50	10,066.13	1,576.98	67.64	1,578.43	2.46	2.34	458,460.58	653,821.54	
11,777.00	92.50	359.10	10,064.01	1,666.95	66.54	1,668.27	2.29	2.59	458,550.55	653,820.44	
11,866.00	90.50	358.60	10,061.68	1,755.89	64.76	1,757.09	2.11	2.32	458,639.49	653,818.66	
11,956.00	91.30	358.50	10,060.27	1,845.85	62.48	1,846.91	1.94	0.90	458,729.45	653,816.38	
12,046.00	91.40	359.50	10,058.15	1,935.81	60.91	1,936.77	1.80	1.12	458,819.41	653,814.81	
12,135.00	89.50	0.60	10,057.45	2,024.80	60.99	2,025.72	1.73	2.47	458,908.40	653,814.89	
12,225.00	91.60	1.40	10,056.59	2,114.78	62.56	2,115.71	1.69	2.50	458,998.38	653,816.46	

Survey Report Landscape

Company:	XTO Energy	Local Co-ordinate Reference:	Well LOS MEDANOS 36-23-30 703H
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3411+18 @ 3429.00usft (Prec525703)
Site:	Los Medanos 36-23-30 State	MD Reference:	3411+18 @ 3429.00usft (Prec525703)
Well:	LOS MEDANOS 36-23-30 703H	North Reference:	Grid
Wellbore:	703H	Survey Calculation Method:	Minimum Curvature
Design:	703H (AsDrilled)	Database:	STRYKER_EDM

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100ft)	Northing (usft)	Easting (usft)
12,315.00	89.80	2.00	10,055.49	2,204.73	65.23	2,205.69	1.69	2.11	459,088.33	653,819.13
12,405.00	91.20	2.60	10,054.70	2,294.65	68.84	2,295.68	1.72	1.69	459,178.25	653,822.74
12,494.00	92.60	2.60	10,051.75	2,383.51	72.87	2,384.62	1.75	1.57	459,267.11	653,826.77
12,584.00	90.80	1.80	10,049.08	2,473.40	76.33	2,474.58	1.77	2.19	459,357.00	653,830.23
12,674.00	92.30	1.40	10,046.65	2,563.33	78.84	2,564.54	1.76	1.72	459,446.93	653,832.74
12,763.00	90.80	1.40	10,044.24	2,652.27	81.01	2,653.50	1.75	1.69	459,535.87	653,834.91
12,853.00	92.10	1.70	10,041.96	2,742.20	83.44	2,743.47	1.74	1.48	459,625.80	653,837.34
12,943.00	89.10	359.70	10,041.02	2,832.18	84.54	2,833.44	1.71	4.01	459,715.78	653,838.44
13,032.00	90.30	359.40	10,041.49	2,921.17	83.84	2,922.37	1.64	1.39	459,804.77	653,837.74
13,122.00	89.80	359.30	10,041.41	3,011.16	82.82	3,012.30	1.58	0.57	459,894.76	653,836.72
13,211.00	90.30	359.70	10,041.33	3,100.16	82.05	3,101.25	1.52	0.72	459,983.76	653,835.95
13,301.00	90.20	359.90	10,040.94	3,190.16	81.73	3,191.21	1.47	0.25	460,073.76	653,835.63
13,391.00	88.80	0.00	10,041.72	3,280.15	81.65	3,281.17	1.43	1.56	460,163.75	653,835.55
13,481.00	87.30	358.50	10,044.79	3,370.09	80.48	3,371.05	1.37	2.36	460,253.69	653,834.38
13,570.00	89.00	357.50	10,047.66	3,458.98	77.37	3,459.85	1.28	2.22	460,342.58	653,831.27
13,660.00	89.30	356.90	10,048.99	3,548.87	72.98	3,549.62	1.18	0.75	460,432.47	653,826.88
13,749.00	90.50	356.50	10,049.15	3,637.72	67.85	3,638.35	1.07	1.42	460,521.32	653,821.75
13,839.00	88.00	356.20	10,050.33	3,727.52	62.12	3,728.04	0.95	2.80	460,611.12	653,816.02
13,929.00	90.90	358.60	10,051.19	3,817.41	58.04	3,817.85	0.87	4.18	460,701.01	653,811.94
14,019.00	91.80	358.30	10,049.07	3,907.35	55.61	3,907.74	0.82	1.05	460,790.95	653,809.51
14,108.00	89.90	358.40	10,047.75	3,996.30	53.05	3,996.65	0.76	2.14	460,879.90	653,806.95
14,198.00	90.00	358.20	10,047.83	4,086.26	50.38	4,086.57	0.71	0.25	460,969.86	653,804.28
14,288.00	90.90	358.30	10,047.12	4,176.21	47.63	4,176.48	0.65	1.01	461,059.81	653,801.53
14,377.00	92.00	359.70	10,044.87	4,265.16	46.08	4,265.41	0.62	2.00	461,148.76	653,799.98
14,467.00	90.40	0.00	10,042.98	4,355.14	45.84	4,355.38	0.60	1.81	461,238.74	653,799.74
14,557.00	91.20	359.70	10,041.73	4,445.13	45.61	4,445.37	0.59	0.95	461,328.73	653,799.51
14,646.00	91.80	359.40	10,039.40	4,534.10	44.91	4,534.32	0.57	0.75	461,417.70	653,798.81

Survey Report Landscape

Company:	XTO Energy	Local Co-ordinate Reference:	Well LOS MEDANOS 36-23-30 703H
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3411+18 @ 3429.00usft (Prec525703)
Site:	Los Medanos 36-23-30 State	MD Reference:	3411+18 @ 3429.00usft (Prec525703)
Well:	LOS MEDANOS 36-23-30 703H	North Reference:	Grid
Wellbore:	703H	Survey Calculation Method:	Minimum Curvature
Design:	703H (AsDrilled)	Database:	STRYKER_EDM

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100ft)	Northing (usft)	Easting (usft)	
14,736.00	90.10	359.90	10,037.91	4,624.08	44.36	4,624.29	0.55	1.97	461,507.68	653,798.26	
14,826.00	91.20	359.30	10,036.89	4,714.07	43.73	4,714.27	0.53	1.39	461,597.67	653,797.63	
14,908.00	91.12	0.15	10,035.23	4,796.05	43.33	4,796.25	0.52	1.04	461,679.65	653,797.23	
Wellpath Crosses LTP (100'FNL)											
14,908.78	91.11	0.15	10,035.21	4,796.83	43.33	4,797.03	0.52	1.04	461,680.43	653,797.23	
LM 36-23-30 703H LTP_100FNL_586FWL p3											
14,923.00	91.10	0.30	10,034.94	4,811.05	43.39	4,811.24	0.52	1.04	461,694.65	653,797.29	
14,958.84	91.10	0.30	10,034.25	4,846.88	43.58	4,847.07	0.52	0.00	461,730.48	653,797.48	
LM 36-23-30 703H PBHL_50FNL_586FWL p3											
14,975.00	91.10	0.30	10,033.94	4,863.04	43.66	4,863.23	0.51	0.00	461,746.64	653,797.56	

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
9,440.00	9,429.84	-269.57	20.03	Wellpath is ~117'FSL	
14,908.00	10,035.23	4,796.05	43.33	Wellpath Crosses LTP (100'FNL)	

Checked By: _____ Approved By: _____ Date: _____