

RECEIVED

AUG 28 2019

DISTRICT/ARTESIAO.C.D.

Survey Report Landscape

Company:	XTO Energy	Local Co-ordinate Reference:	Well LOS MEDANOS 36-23-30 702H
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3415+17 @ 3432.00usft (Prec525)
Site:	Los Medanos 36-23-30 State	MD Reference:	3415+17 @ 3432.00usft (Prec525)
Well:	LOS MEDANOS 36-23-30 702H	North Reference:	Grid
Wellbore:	702H	Survey Calculation Method:	Minimum Curvature
Design:	702H 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 702H		
Well Position	+N/-S	0.00 usft	Latitude:
	+E/-W	0.00 usft	Longitude:
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
			Ground Level:
			3,415.00 usft

Wellbore	702H		
Magnetics	Model Name	Sample Date	Declination
			(°)
			Dip Angle
			(°)
			Field Strength
			(nT)
	IGRF2015	01/27/19	6.90
			60.03
			47,762.90469559

Design	702H 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)
			Direction
			(°)
	0.00	0.00	359.54

Survey Report Landscape

Company:	XTO Energy	Local Co-ordinate Reference:	Well LOS MEDANOS 36-23-30 702H
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3415+17 @ 3432.00usft (Prec525)
Site:	Los Medanos 36-23-30 State	MD Reference:	3415+17 @ 3432.00usft (Prec525)
Well:	LOS MEDANOS 36-23-30 702H	North Reference:	Grid
Wellbore:	702H	Survey Calculation Method:	Minimum Curvature
Design:	702H AsDrilled	Database:	STRYKER_EDM

Survey Program		Date	04/02/19		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
111.00	467.00	Survey #1 (702H)	MWD	OWSG MWD - Standard	
562.00	14,793.00	Survey #2 (702H)	MWD	OWSG MWD - Standard	
14,846.00	14,846.00	Survey #3 (702H)	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	456,853.50	653,753.90	
LM 36-23-30 702H SHL 3.26	0.03	335.10	3.26	0.00	0.00	0.00	335.10	0.99	456,853.50	653,753.90	
LM 36-23-30 703H SHL 111.00	1.10	335.10	110.99	0.97	-0.45	1.07	335.10	0.99	456,854.47	653,753.45	
199.00	1.50	339.90	198.97	2.81	-1.20	3.06	336.91	0.47	456,856.31	653,752.70	
290.00	1.10	339.90	289.95	4.75	-1.91	5.12	338.11	0.44	456,858.25	653,751.99	
380.00	1.00	344.90	379.93	6.32	-2.41	6.77	339.13	0.15	456,859.82	653,751.49	
467.00	1.10	331.00	466.92	7.79	-3.01	8.35	338.84	0.31	456,861.29	653,750.89	
562.00	0.40	249.10	561.91	8.47	-3.77	9.26	336.02	1.17	456,861.97	653,750.13	
650.00	0.70	254.30	649.91	8.21	-4.57	9.40	330.90	0.35	456,861.71	653,749.33	
740.00	1.00	232.80	739.90	7.59	-5.72	9.50	322.96	0.48	456,861.09	653,748.18	
829.00	1.10	150.20	828.89	6.38	-5.92	8.70	317.13	1.56	456,859.88	653,747.98	
919.00	1.50	135.50	918.86	4.79	-4.66	6.68	315.74	0.58	456,858.29	653,749.24	
1,008.00	1.60	138.10	1,007.83	3.03	-3.02	4.28	315.12	0.14	456,856.53	653,750.88	
1,098.00	1.80	131.40	1,097.79	1.16	-1.12	1.61	316.05	0.31	456,854.66	653,752.78	
1,187.00	0.80	155.40	1,186.77	-0.33	0.19	0.38	150.15	1.26	456,853.17	653,754.09	
1,277.00	0.40	148.70	1,276.76	-1.17	0.61	1.32	152.30	0.45	456,852.33	653,754.51	
1,367.00	0.50	182.20	1,366.76	-1.83	0.76	1.98	157.40	0.31	456,851.67	653,754.66	
1,456.00	0.30	168.40	1,455.76	-2.45	0.79	2.57	162.02	0.25	456,851.05	653,754.69	
1,546.00	0.70	159.30	1,545.75	-3.19	1.04	3.35	162.02	0.45	456,850.31	653,754.94	

Survey Report Landscape

Company:	XTO Energy	Local Co-ordinate Reference:	Well LOS MEDANOS 36-23-30 702H
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3415+17 @ 3432.00usft (Prec525)
Site:	Los Medanos 36-23-30 State	MD Reference:	3415+17 @ 3432.00usft (Prec525)
Well:	LOS MEDANOS 36-23-30 702H	North Reference:	Grid
Wellbore:	702H	Survey Calculation Method:	Minimum Curvature
Design:	702H 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)	
1,635.00	0.70	157.50	1,634.75	-4.20	1.44	4.44	161.14	0.02	456,849.30	653,755.34	
1,725.00	0.70	148.90	1,724.74	-5.18	1.93	5.53	159.57	0.12	456,848.32	653,755.83	
1,815.00	0.80	145.90	1,814.73	-6.17	2.57	6.68	157.42	0.12	456,847.33	653,756.47	
1,904.00	0.80	142.90	1,903.72	-7.18	3.29	7.90	155.39	0.05	456,846.32	653,757.19	
1,994.00	0.80	131.00	1,993.72	-8.09	4.14	9.09	152.90	0.18	456,845.41	653,758.04	
2,084.00	0.70	131.80	2,083.71	-8.87	5.03	10.20	150.47	0.11	456,844.63	653,758.93	
2,174.00	0.70	130.60	2,173.70	-9.60	5.85	11.24	148.62	0.02	456,843.90	653,759.75	
2,263.00	1.00	138.10	2,262.69	-10.53	6.79	12.53	147.20	0.36	456,842.97	653,760.69	
2,353.00	1.00	145.20	2,352.68	-11.76	7.76	14.09	146.59	0.14	456,841.74	653,761.66	
2,442.00	0.80	145.50	2,441.67	-12.91	8.55	15.49	146.47	0.22	456,840.59	653,762.45	
2,530.00	0.90	137.20	2,529.66	-13.92	9.37	16.78	146.06	0.18	456,839.58	653,763.27	
2,620.00	0.70	148.90	2,619.65	-14.91	10.13	18.03	145.80	0.29	456,838.59	653,764.03	
2,709.00	0.20	201.00	2,708.64	-15.52	10.36	18.66	146.28	0.67	456,837.98	653,764.26	
2,799.00	0.60	252.80	2,798.64	-15.81	9.85	18.63	148.06	0.56	456,837.69	653,763.75	
2,889.00	0.70	243.00	2,888.64	-16.20	8.91	18.49	151.18	0.17	456,837.30	653,762.81	
2,978.00	0.40	215.10	2,977.63	-16.70	8.25	18.63	153.71	0.44	456,836.80	653,762.15	
3,068.00	0.60	220.90	3,067.63	-17.31	7.76	18.97	155.85	0.23	456,836.19	653,761.66	
3,157.00	0.30	222.60	3,156.63	-17.84	7.30	19.27	157.74	0.34	456,835.66	653,761.20	
3,246.00	0.40	206.00	3,245.62	-18.29	7.00	19.58	159.04	0.16	456,835.21	653,760.90	
3,336.00	0.50	188.60	3,335.62	-18.96	6.81	20.14	160.24	0.19	456,834.54	653,760.71	
3,426.00	1.00	159.60	3,425.61	-20.08	7.02	21.27	160.72	0.68	456,833.42	653,760.92	
3,515.00	1.10	158.40	3,514.60	-21.60	7.61	22.90	160.60	0.12	456,831.90	653,761.51	
3,605.00	1.30	152.80	3,604.58	-23.31	8.39	24.78	160.20	0.26	456,830.19	653,762.29	
3,694.00	1.70	162.50	3,693.55	-25.47	9.25	27.10	160.04	0.53	456,828.03	653,763.15	
3,784.00	1.40	174.50	3,783.52	-27.84	9.76	29.50	160.68	0.49	456,825.66	653,763.66	
3,850.00	1.40	181.50	3,849.50	-29.45	9.81	31.04	161.57	0.26	456,824.05	653,763.71	
3,988.00	1.40	133.00	3,987.46	-32.28	11.00	34.11	161.18	0.83	456,821.22	653,764.90	

Survey Report Landscape

Company:	XTO Energy	Local Co-ordinate Reference:	Well LOS MEDANOS 36-23-30 702H
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3415+17 @ 3432.00usft (Prec525)
Site:	Los Medanos 36-23-30 State	MD Reference:	3415+17 @ 3432.00usft (Prec525)
Well:	LOS MEDANOS 36-23-30 702H	North Reference:	Grid
Wellbore:	702H	Survey Calculation Method:	Minimum Curvature
Design:	702H 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)
4,077.00	1.30	118.90	4,076.44	-33.51	12.68	35.83	159.27	0.39	456,819.99	653,766.58
4,167.00	1.40	111.70	4,166.41	-34.41	14.60	37.38	157.01	0.22	456,819.09	653,768.50
4,257.00	1.50	115.10	4,256.38	-35.32	16.69	39.06	154.71	0.15	456,818.18	653,770.59
4,346.00	1.60	118.30	4,345.35	-36.40	18.83	40.99	152.64	0.15	456,817.10	653,772.73
4,436.00	0.70	161.20	4,435.33	-37.52	20.12	42.57	151.80	1.32	456,815.98	653,774.02
4,525.00	0.50	167.80	4,524.33	-38.41	20.38	43.48	152.06	0.24	456,815.09	653,774.28
4,615.00	2.20	212.90	4,614.30	-40.25	19.52	44.73	154.13	2.09	456,813.25	653,773.42
4,704.00	3.60	220.10	4,703.18	-43.82	16.79	46.93	159.03	1.62	456,809.68	653,770.69
4,794.00	4.30	220.60	4,792.97	-48.54	12.78	50.19	165.25	0.78	456,804.96	653,766.68
4,883.00	4.40	225.80	4,881.71	-53.45	8.16	54.07	171.32	0.46	456,800.05	653,762.06
4,973.00	5.10	237.30	4,971.41	-58.02	2.32	58.07	177.71	1.31	456,795.48	653,756.22
5,063.00	6.30	240.60	5,060.96	-62.61	-5.35	62.84	184.89	1.38	456,790.89	653,748.55
5,152.00	8.20	243.60	5,149.24	-67.83	-15.29	69.53	192.71	2.18	456,785.67	653,738.61
5,242.00	9.10	251.80	5,238.22	-72.90	-27.80	78.03	200.88	1.69	456,780.60	653,726.10
5,331.00	9.50	253.00	5,326.05	-77.25	-41.51	87.70	208.25	0.50	456,776.25	653,712.39
5,421.00	10.40	247.90	5,414.70	-82.48	-56.14	99.77	214.24	1.40	456,771.02	653,697.76
5,510.00	10.80	246.10	5,502.18	-88.88	-71.21	113.89	218.70	0.58	456,764.62	653,682.69
5,600.00	10.90	247.80	5,590.57	-95.51	-86.80	129.06	222.26	0.37	456,757.99	653,667.10
5,690.00	10.30	249.20	5,679.04	-101.58	-102.20	144.09	225.17	0.73	456,751.92	653,651.70
5,779.00	9.90	248.40	5,766.66	-107.22	-116.75	158.52	227.44	0.48	456,746.28	653,637.15
5,868.00	10.20	250.60	5,854.29	-112.66	-131.30	173.00	229.37	0.55	456,740.84	653,622.60
5,958.00	10.50	250.70	5,942.83	-118.02	-146.55	188.16	231.16	0.33	456,735.48	653,607.35
6,048.00	10.90	252.00	6,031.26	-123.36	-162.38	203.93	232.78	0.52	456,730.14	653,591.52
6,137.00	10.00	247.50	6,118.79	-128.91	-177.53	219.40	234.01	1.36	456,724.59	653,576.37
6,227.00	10.10	247.00	6,207.41	-134.99	-192.01	234.71	234.89	0.15	456,718.51	653,561.89
6,316.00	8.70	250.20	6,295.21	-140.32	-205.53	248.86	235.68	1.68	456,713.18	653,548.37
6,406.00	8.00	251.40	6,384.26	-144.62	-217.87	261.50	236.42	0.80	456,708.88	653,536.03

Survey Report Landscape

Company:	XTO Energy	Local Co-ordinate Reference:	Well LOS MEDANOS 36-23-30 702H
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3415+17 @ 3432.00usft (Prec525)
Site:	Los Medanos 36-23-30 State	MD Reference:	3415+17 @ 3432.00usft (Prec525)
Well:	LOS MEDANOS 36-23-30 702H	North Reference:	Grid
Wellbore:	702H	Survey Calculation Method:	Minimum Curvature
Design:	702H 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)
6,495.00	9.50	248.10	6,472.22	-149.34	-230.55	274.69	237.07	1.78	456,704.16	653,523.35
6,585.00	9.30	249.70	6,561.01	-154.63	-244.26	289.09	237.66	0.37	456,698.87	653,509.64
6,674.00	10.90	245.80	6,648.63	-160.57	-258.69	304.47	238.17	1.95	456,692.93	653,495.21
6,764.00	12.60	247.90	6,736.74	-167.76	-275.54	322.59	238.67	1.95	456,685.74	653,478.36
6,854.00	13.50	247.50	6,824.41	-175.47	-294.35	342.68	239.20	1.01	456,678.03	653,459.55
6,944.00	12.40	249.20	6,912.12	-182.92	-313.08	362.60	239.70	1.29	456,670.58	653,440.82
7,033.00	12.20	249.80	6,999.08	-189.56	-330.84	381.30	240.19	0.27	456,663.94	653,423.06
7,123.00	12.20	249.90	7,087.05	-196.11	-348.70	400.06	240.65	0.02	456,657.39	653,405.20
7,212.00	12.50	249.80	7,173.99	-202.67	-366.57	418.86	241.06	0.34	456,650.83	653,387.33
7,301.00	13.10	250.40	7,260.78	-209.38	-385.11	438.35	241.47	0.69	456,644.12	653,368.79
7,391.00	13.10	250.10	7,348.43	-216.27	-404.31	458.52	241.86	0.08	456,637.23	653,349.59
7,480.00	12.70	250.30	7,435.19	-223.00	-423.00	478.19	242.20	0.45	456,630.50	653,330.90
7,570.00	13.00	251.90	7,522.93	-229.48	-441.94	497.97	242.56	0.52	456,624.02	653,311.96
7,660.00	13.10	251.40	7,610.61	-235.88	-461.23	518.04	242.91	0.17	456,617.62	653,292.67
7,749.00	13.10	250.70	7,697.29	-242.43	-480.31	538.02	243.22	0.18	456,611.07	653,273.59
7,839.00	12.10	252.70	7,785.13	-248.61	-498.94	557.45	243.51	1.21	456,604.89	653,254.96
7,928.00	11.70	248.50	7,872.21	-254.69	-516.24	575.65	243.74	1.07	456,598.81	653,237.66
8,018.00	10.70	253.10	7,960.50	-260.46	-532.73	592.99	243.94	1.49	456,593.04	653,221.17
8,108.00	9.90	254.80	8,049.05	-264.92	-548.19	608.84	244.21	0.95	456,588.58	653,205.71
8,197.00	9.20	258.00	8,136.82	-268.41	-562.53	623.28	244.49	0.99	456,585.09	653,191.37
8,286.00	9.90	267.50	8,224.59	-270.22	-577.13	637.26	244.91	1.93	456,583.28	653,176.77
8,377.00	9.60	262.20	8,314.28	-271.59	-592.47	651.75	245.37	1.04	456,581.91	653,161.43
8,466.00	8.50	255.50	8,402.17	-274.24	-606.19	665.34	245.66	1.71	456,579.26	653,147.71
8,556.00	7.90	256.20	8,491.25	-277.39	-618.63	677.98	245.85	0.68	456,576.11	653,135.27
8,646.00	7.40	261.80	8,580.45	-279.69	-630.38	689.64	246.07	1.00	456,573.81	653,123.52
8,735.00	7.00	263.00	8,668.75	-281.17	-641.43	700.35	246.33	0.48	456,572.33	653,112.47
8,825.00	6.50	264.10	8,758.12	-282.36	-651.94	710.46	246.58	0.57	456,571.14	653,101.96

Survey Report Landscape

Company:	XTO Energy	Local Co-ordinate Reference:	Well LOS MEDANOS 36-23-30 702H
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3415+17 @ 3432.00usft (Prec525)
Site:	Los Medanos 36-23-30 State	MD Reference:	3415+17 @ 3432.00usft (Prec525)
Well:	LOS MEDANOS 36-23-30 702H	North Reference:	Grid
Wellbore:	702H	Survey Calculation Method:	Minimum Curvature
Design:	702H 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)
8,914.00	7.30	264.40	8,846.48	-283.43	-662.58	720.66	246.84	0.90	456,570.07	653,091.32
8,950.00	7.82	264.62	8,882.16	-283.88	-667.30	725.17	246.95	1.45	456,569.62	653,086.60
Wellpath Crosses into Unit Boundary										
9,004.00	8.60	264.90	8,935.61	-284.58	-674.98	732.52	247.14	1.45	456,568.92	653,078.92
9,093.00	9.80	268.80	9,023.46	-285.33	-689.18	745.91	247.51	1.52	456,568.17	653,064.72
9,183.00	10.20	270.20	9,112.10	-285.47	-704.80	760.42	247.95	0.52	456,568.03	653,049.10
9,215.00	10.40	270.70	9,143.58	-285.42	-710.52	765.71	248.11	0.68	456,568.08	653,043.38
9,265.00	10.49	273.37	9,192.75	-285.10	-719.58	774.00	248.39	0.98	456,568.40	653,034.32
9,310.00	10.78	289.25	9,236.99	-283.47	-727.65	780.91	248.72	6.52	456,570.03	653,026.25
9,355.00	11.10	298.62	9,281.18	-280.01	-735.42	786.92	249.16	4.01	456,573.49	653,018.48
9,400.00	11.67	308.26	9,325.29	-275.11	-742.80	792.11	249.68	4.41	456,578.39	653,011.10
9,444.00	13.11	314.39	9,368.27	-268.87	-749.86	796.60	250.27	4.43	456,584.63	653,004.04
9,475.00	16.10	323.92	9,398.27	-262.93	-754.91	799.38	250.80	12.35	456,590.57	652,998.99
Wellpath Crosses FTP										
9,489.00	17.56	327.14	9,411.67	-259.59	-757.20	800.46	251.08	12.35	456,593.91	652,996.70
9,534.00	22.78	336.47	9,453.91	-245.88	-764.36	802.94	252.17	13.59	456,607.62	652,989.54
9,579.00	27.49	343.22	9,494.64	-227.94	-770.84	803.84	253.53	12.24	456,625.56	652,983.06
9,624.00	29.33	350.28	9,534.23	-207.12	-775.71	802.88	255.05	8.50	456,646.38	652,978.19
9,669.00	30.92	3.66	9,573.20	-184.70	-776.83	798.48	256.63	15.31	456,668.80	652,977.07
9,713.00	36.04	5.65	9,609.88	-160.52	-774.83	791.28	258.30	11.90	456,692.98	652,979.07
9,758.00	41.63	5.38	9,644.92	-132.44	-772.13	783.40	260.27	12.43	456,721.06	652,981.77
9,803.00	46.84	6.16	9,677.15	-101.22	-768.96	775.59	262.50	11.64	456,752.28	652,984.94
LM 36-23-30 702H FTP_100FSL_1210FWL										
9,848.00	51.94	5.76	9,706.44	-67.25	-765.42	768.37	264.98	11.35	456,786.25	652,988.48
9,893.00	56.88	2.00	9,732.62	-30.76	-762.98	763.60	267.69	12.91	456,822.74	652,990.92
LM 36-23-30 703H FTP_100FSL_586FWL										
9,937.00	60.68	357.11	9,755.44	6.84	-763.31	763.34	270.51	12.84	456,860.34	652,990.59
9,982.00	65.12	352.75	9,775.94	46.72	-766.87	768.30	273.49	13.10	456,900.22	652,987.03

Survey Report Landscape

Company: XTO Energy								Local Co-ordinate Reference:		Well LOS MEDANOS 36-23-30 702H	
Project: Eddy County, NM (NAD27) NMEZ Grid								TVD Reference:		3415+17 @ 3432.00usft (Prec525)	
Site: Los Medanos 36-23-30 State								MD Reference:		3415+17 @ 3432.00usft (Prec525)	
Well: LOS MEDANOS 36-23-30 702H								North Reference:		Grid	
Wellbore: 702H								Survey Calculation Method:		Minimum Curvature	
Design: 702H 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)	
10,027.00	70.46	354.02	9,792.94	88.09	-771.66	776.67	276.51	12.15	456,941.59	652,982.24	
10,071.00	74.05	353.86	9,806.35	129.75	-776.09	786.86	279.49	8.17	456,983.25	652,977.81	
10,116.00	77.62	355.12	9,817.36	173.17	-780.27	799.26	282.51	8.38	457,026.67	652,973.63	
10,161.00	80.83	356.52	9,825.77	217.26	-783.49	813.05	285.50	7.76	457,070.76	652,970.41	
10,187.83	82.18	356.64	9,829.74	243.74	-785.07	822.04	287.25	5.04	457,097.24	652,968.83	
LM 36-23-30 703H LP											
10,206.00	83.09	356.72	9,832.07	261.73	-786.12	828.54	288.41	5.04	457,115.23	652,967.78	
10,219.19	83.55	356.97	9,833.60	274.81	-786.84	833.45	289.25	3.95	457,128.31	652,967.06	
LM 36-23-30 702H LP											
10,251.00	84.66	357.56	9,836.87	306.42	-788.35	845.81	291.24	3.95	457,159.92	652,965.55	
10,340.00	85.85	359.32	9,844.23	395.08	-790.76	883.96	296.55	2.38	457,248.58	652,963.14	
10,430.00	87.76	1.26	9,849.25	484.93	-790.31	927.22	301.53	3.02	457,338.43	652,963.59	
10,520.00	88.57	0.21	9,852.13	574.87	-789.15	976.34	306.07	1.47	457,428.37	652,964.75	
10,609.00	89.58	0.32	9,853.57	663.86	-788.74	1,030.93	310.09	1.14	457,517.36	652,965.16	
10,699.00	90.02	359.31	9,853.88	753.85	-789.03	1,091.27	313.69	1.22	457,607.35	652,964.87	
10,789.00	90.95	358.92	9,853.12	843.84	-790.42	1,156.21	316.87	1.12	457,697.34	652,963.48	
10,878.00	91.43	358.26	9,851.27	932.79	-792.61	1,224.06	319.64	0.92	457,786.29	652,961.29	
10,968.00	90.17	357.89	9,850.01	1,022.73	-795.63	1,295.77	322.12	1.46	457,876.23	652,958.27	
11,058.00	90.20	357.86	9,849.72	1,112.67	-798.97	1,369.81	324.32	0.05	457,966.17	652,954.93	
11,147.00	90.73	356.58	9,849.00	1,201.56	-803.29	1,445.34	326.24	1.56	458,055.06	652,950.61	
11,237.00	89.66	357.75	9,848.69	1,291.44	-807.74	1,523.24	327.98	1.76	458,144.94	652,946.16	
11,327.00	90.70	357.02	9,848.41	1,381.35	-811.84	1,602.25	329.56	1.41	458,234.85	652,942.06	
11,416.00	91.82	356.36	9,846.45	1,470.18	-816.98	1,681.93	330.94	1.46	458,323.68	652,936.92	
11,506.00	91.46	356.76	9,843.88	1,559.98	-822.38	1,763.47	332.20	0.60	458,413.48	652,931.52	
11,596.00	92.30	356.54	9,840.93	1,649.77	-827.64	1,845.73	333.36	0.96	458,503.27	652,926.26	
11,685.00	92.55	355.61	9,837.16	1,738.49	-833.72	1,928.06	334.38	1.08	458,591.99	652,920.18	
11,777.00	94.10	356.97	9,831.82	1,830.13	-839.67	2,013.56	335.35	2.24	458,683.63	652,914.23	

Survey Report Landscape

Company:	XTO Energy	Local Co-ordinate Reference:	Well LOS MEDANOS 36-23-30 702H
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3415+17 @ 3432.00usft (Prec525)
Site:	Los Medanos 36-23-30 State	MD Reference:	3415+17 @ 3432.00usft (Prec525)
Well:	LOS MEDANOS 36-23-30 702H	North Reference:	Grid
Wellbore:	702H	Survey Calculation Method:	Minimum Curvature
Design:	702H 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)
11,866.00	91.93	358.44	9,827.14	1,918.93	-843.22	2,096.03	336.28	2.94	458,772.43	652,910.68
11,956.00	88.49	358.80	9,826.81	2,008.89	-845.39	2,179.52	337.18	3.84	458,862.39	652,908.51
12,046.00	89.22	358.45	9,828.61	2,098.85	-847.55	2,263.51	338.01	0.90	458,952.35	652,906.35
12,136.00	90.17	359.98	9,829.09	2,188.83	-848.78	2,347.64	338.80	2.00	459,042.33	652,905.12
12,225.00	90.28	1.47	9,828.74	2,277.82	-847.66	2,430.43	339.59	1.68	459,131.32	652,906.24
12,315.00	88.99	2.27	9,829.31	2,367.77	-844.72	2,513.94	340.37	1.69	459,221.27	652,909.18
12,405.00	89.16	2.28	9,830.77	2,457.69	-841.15	2,597.64	341.11	0.19	459,311.19	652,912.75
12,494.00	89.94	2.47	9,831.47	2,546.61	-837.46	2,680.77	341.80	0.90	459,400.11	652,916.44
12,584.00	89.44	3.11	9,831.95	2,636.50	-833.08	2,764.99	342.46	0.90	459,490.00	652,920.82
12,674.00	89.80	3.05	9,832.55	2,726.37	-828.24	2,849.40	343.10	0.41	459,579.87	652,925.66
12,763.00	90.73	2.32	9,832.14	2,815.27	-824.07	2,933.40	343.68	1.33	459,668.77	652,929.83
12,853.00	92.50	2.72	9,829.60	2,905.14	-820.12	3,018.68	344.24	2.02	459,758.64	652,933.78
12,943.00	89.33	1.23	9,828.17	2,995.06	-817.02	3,104.50	344.74	3.89	459,848.56	652,936.88
13,032.00	92.80	0.71	9,826.51	3,084.02	-815.51	3,190.02	345.19	3.94	459,937.52	652,938.39
13,122.00	89.44	0.86	9,824.75	3,173.98	-814.28	3,276.77	345.61	3.74	460,027.48	652,939.62
13,212.00	89.86	1.18	9,825.30	3,263.96	-812.68	3,363.61	346.02	0.59	460,117.46	652,941.22
13,301.00	87.45	359.53	9,827.39	3,352.93	-812.13	3,449.88	346.38	3.28	460,206.43	652,941.77
13,391.00	88.12	358.44	9,830.87	3,442.84	-813.72	3,537.70	346.70	1.42	460,296.34	652,940.18
13,481.00	89.89	358.26	9,832.43	3,532.79	-816.31	3,625.87	346.99	1.98	460,386.29	652,937.59
13,570.00	90.03	359.50	9,832.49	3,621.77	-818.05	3,713.01	347.27	1.40	460,475.27	652,935.85
13,660.00	88.65	0.28	9,833.53	3,711.76	-818.22	3,800.88	347.57	1.76	460,565.26	652,935.68
13,750.00	88.94	0.71	9,835.42	3,801.74	-817.45	3,888.63	347.87	0.58	460,655.24	652,936.45
13,839.00	90.98	0.35	9,835.49	3,890.73	-816.62	3,975.51	348.15	2.33	460,744.23	652,937.28
13,929.00	90.93	1.24	9,833.99	3,980.71	-815.37	4,063.36	348.42	0.99	460,834.21	652,938.53
14,019.00	93.06	0.81	9,830.85	4,070.63	-813.76	4,151.18	348.69	2.41	460,924.13	652,940.14
14,108.00	92.02	2.09	9,826.91	4,159.51	-811.51	4,237.94	348.96	1.85	461,013.01	652,942.39
14,198.00	93.45	1.93	9,822.61	4,249.35	-808.36	4,325.56	349.23	1.60	461,102.85	652,945.54

Survey Report Landscape

Company:	XTO Energy	Local Co-ordinate Reference:	Well LOS MEDANOS 36-23-30 702H
Project:	Eddy County, NM (NAD27) NMEZ Grid	TVD Reference:	3415+17 @ 3432.00usft (Prec525)
Site:	Los Medanos 36-23-30 State	MD Reference:	3415+17 @ 3432.00usft (Prec525)
Well:	LOS MEDANOS 36-23-30 702H	North Reference:	Grid
Wellbore:	702H	Survey Calculation Method:	Minimum Curvature
Design:	702H 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)	
14,288.00	93.31	4.23	9,817.31	4,339.06	-803.53	4,412.84	349.51	2.56	461,192.56	652,950.37	
14,377.00	88.06	3.52	9,816.24	4,427.82	-797.52	4,499.07	349.79	5.95	461,281.32	652,956.38	
14,467.00	85.90	359.86	9,820.99	4,517.64	-794.87	4,587.03	350.02	4.72	461,371.14	652,959.03	
14,557.00	86.36	357.46	9,827.06	4,607.40	-796.97	4,675.82	350.19	2.71	461,460.90	652,956.93	
14,647.00	86.33	356.53	9,832.80	4,697.09	-801.68	4,765.01	350.31	1.03	461,550.59	652,952.22	
14,736.00	87.08	356.55	9,837.92	4,785.78	-807.04	4,853.35	350.43	0.84	461,639.28	652,946.86	
LM 36-23-30 703H LTP_100FNL_586FWL											
14,772.00	87.69	356.39	9,839.56	4,821.68	-809.25	4,889.12	350.47	1.74	461,675.18	652,944.65	
Wellpath Crosses LTP											
14,773.00	87.70	356.39	9,839.60	4,822.67	-809.32	4,890.11	350.47	1.74	461,676.17	652,944.58	
LM 36-23-30 702H LTP_100FNL_1210FWL											
14,780.47	87.83	356.35	9,839.89	4,830.12	-809.79	4,897.53	350.48	1.74	461,683.62	652,944.11	
LM 36-23-30 703H PBHL_50FNL_586FWL											
14,793.00	88.04	356.30	9,840.34	4,842.62	-810.59	4,909.99	350.50	1.74	461,696.12	652,943.31	
14,821.87	88.04	356.30	9,841.33	4,871.41	-812.45	4,938.70	350.53	0.00	461,724.91	652,941.45	
LM 36-23-30 702H PBHL_50FNL_1210FWL											
14,846.00	88.04	356.30	9,842.15	4,895.48	-814.01	4,962.69	350.56	0.00	461,748.98	652,939.89	
TD @ 25°FNL, 110°FEL - LM 36-23-30 702H BHL_25FNL_110FEL											

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
8,950.00	8,882.16	-283.88	-667.30	Wellpath Crosses into Unit Boundary
9,475.00	9,398.27	-262.93	-754.91	Wellpath Crosses FTP
14,772.00	9,839.56	4,821.68	-809.25	Wellpath Crosses LTP
14,846.00	9,842.15	4,895.48	-814.01	TD @ 25°FNL, 110°FEL

Checked By: _____	Approved By: _____	Date: _____
-------------------	--------------------	-------------