

Survey Report Landscape

Company:	XTO Energy	Local Co-ordinate Reference:	Well MIS AMIGOS STATE 907H
Project:	Lea County, NM (NAD27) NMEZ US	TVD Reference:	3659+18 @ 3677.00usft (P595)
Site:	Mis Amigos State	MD Reference:	3659+18 @ 3677.00usft (P595)
Well:	MIS AMIGOS STATE 907H	North Reference:	Grid
Wellbore:	907H	Survey Calculation Method:	Minimum Curvature
Design:	907H (AsDrilled)	Database:	STRYKER_EDM

Project	Lea County, NM (NAD27) NMEZ US		
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 State		
Site Position:		Northing:	457,195.20 usft
From:	Map	Easting:	725,498.90 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13.20 in
		Latitude:	32.25484056
		Longitude:	-103.60388889
		Grid Convergence:	0.39 °

Well	MIS AMIGOS STATE 907H		
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	907H		
Magnetics	Model Name	Sample Date	Declination
			Dip Angle
			Field Strength
	IGRF2015	01/07/19	6.80
			60.07
			47,791.04422083

Design	907H (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
			(°)
			353.69

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Survey Program		Date	01/17/19		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
80.00	15,873.00	Survey #1 (907H)	MWD	OWSG MWD - Standard	
15,985.00	17,524.00	Survey #2 Stryker (907H)	MWD	OWSG MWD - Standard	
17,570.00	17,570.00	Survey #3 (907H)	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	457,194.10	725,469.00	
MAS 907H SHL											
80.00	0.50	68.90	80.00	0.13	0.33	0.35	68.90	0.62	457,194.23	725,469.33	
198.00	0.60	284.10	198.00	0.46	0.21	0.51	24.13	0.89	457,194.56	725,469.21	
288.00	0.50	286.70	287.99	0.69	-0.63	0.93	317.73	0.11	457,194.79	725,468.37	
382.00	0.50	315.70	381.99	1.10	-1.31	1.71	310.13	0.27	457,195.20	725,467.69	
473.00	0.30	343.20	472.99	1.61	-1.65	2.31	314.31	0.30	457,195.71	725,467.35	
563.00	0.50	355.60	562.98	2.23	-1.75	2.83	321.87	0.24	457,196.33	725,467.25	
652.00	0.50	318.90	651.98	2.91	-2.04	3.55	325.03	0.35	457,197.01	725,466.96	
740.00	0.50	348.70	739.98	3.58	-2.36	4.29	326.54	0.29	457,197.68	725,466.64	
833.00	0.60	47.30	832.97	4.30	-2.08	4.78	334.16	0.59	457,198.40	725,466.92	
923.00	0.60	79.30	922.97	4.71	-1.28	4.88	344.85	0.37	457,198.81	725,467.72	
1,013.00	0.10	304.70	1,012.97	4.84	-0.88	4.92	349.74	0.75	457,198.94	725,468.12	
1,102.00	0.50	264.20	1,101.97	4.85	-1.33	5.03	344.69	0.48	457,198.95	725,467.67	
1,150.00	0.30	247.90	1,149.97	4.78	-1.65	5.06	340.94	0.48	457,198.88	725,467.35	
1,258.00	0.20	236.80	1,257.97	4.57	-2.07	5.02	335.62	0.10	457,198.67	725,466.93	
1,348.00	0.20	250.10	1,347.96	4.43	-2.35	5.02	332.05	0.05	457,198.53	725,466.65	
1,437.00	0.40	317.50	1,436.96	4.61	-2.71	5.34	329.57	0.42	457,198.71	725,466.29	
1,527.00	0.40	314.60	1,526.96	5.06	-3.14	5.96	328.15	0.02	457,199.16	725,465.86	
1,617.00	0.40	291.90	1,616.96	5.40	-3.66	6.52	325.87	0.17	457,199.50	725,465.34	
1,706.00	0.40	293.40	1,705.96	5.64	-4.23	7.05	323.10	0.01	457,199.74	725,464.77	

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Local Co-ordinate Reference: Well MIS AMIGOS STATE 907H
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MD Reference: 3659+18 @ 3677.00usft (P595)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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)
1,796.00	0.50	293.40	1,795.95	5.92	-4.88	7.67	320.49	0.11	457,200.02	725,464.12
1,885.00	0.40	293.90	1,884.95	6.20	-5.52	8.30	318.31	0.11	457,200.30	725,463.48
1,975.00	0.35	289.20	1,974.95	6.41	-6.07	8.83	316.60	0.07	457,200.51	725,462.93
2,065.00	0.35	284.30	2,064.95	6.57	-6.59	9.31	314.91	0.03	457,200.67	725,462.41
2,148.00	0.48	280.00	2,147.95	6.70	-7.18	9.82	313.00	0.16	457,200.80	725,461.82
2,244.00	0.48	295.40	2,243.94	6.94	-7.94	10.54	311.15	0.13	457,201.04	725,461.06
2,333.00	0.57	306.80	2,332.94	7.36	-8.63	11.35	310.47	0.15	457,201.46	725,460.37
2,423.00	0.70	298.90	2,422.93	7.90	-9.47	12.33	309.82	0.17	457,202.00	725,459.53
2,512.00	0.62	288.80	2,511.93	8.31	-10.40	13.32	308.63	0.16	457,202.41	725,458.60
2,602.00	0.70	292.20	2,601.92	8.68	-11.37	14.31	307.35	0.10	457,202.78	725,457.63
2,692.00	0.66	305.20	2,691.91	9.19	-12.31	15.36	306.74	0.18	457,203.29	725,456.69
2,781.00	0.79	306.00	2,780.91	9.84	-13.22	16.48	306.67	0.15	457,203.94	725,455.78
2,871.00	0.79	317.80	2,870.90	10.67	-14.14	17.71	307.03	0.18	457,204.77	725,454.86
2,960.00	0.79	324.90	2,959.89	11.62	-14.90	18.90	307.95	0.11	457,205.72	725,454.10
3,050.00	0.92	317.30	3,049.88	12.66	-15.75	20.21	308.79	0.19	457,206.76	725,453.25
3,140.00	0.88	315.70	3,139.87	13.69	-16.72	21.61	309.30	0.05	457,207.79	725,452.28
3,229.00	0.92	323.60	3,228.86	14.75	-17.63	22.98	309.93	0.15	457,208.85	725,451.37
3,319.00	1.01	322.50	3,318.85	15.96	-18.54	24.46	310.73	0.10	457,210.06	725,450.46
3,408.00	1.10	328.50	3,407.83	17.31	-19.46	26.05	311.66	0.16	457,211.41	725,449.54
3,498.00	1.10	328.00	3,497.81	18.78	-20.37	27.71	312.68	0.01	457,212.88	725,448.63
3,587.00	1.10	336.30	3,586.80	20.29	-21.17	29.32	313.79	0.18	457,214.39	725,447.83
3,677.00	0.60	273.20	3,676.79	21.11	-21.98	30.48	313.83	1.10	457,215.21	725,447.02
3,767.00	0.70	234.40	3,766.78	20.81	-22.90	30.95	312.26	0.49	457,214.91	725,446.10
3,856.00	1.00	235.10	3,855.77	20.05	-23.98	31.26	309.90	0.34	457,214.15	725,445.02
3,946.00	1.10	233.60	3,945.76	19.09	-25.32	31.71	307.01	0.12	457,213.19	725,443.68
4,036.00	1.10	231.90	4,035.74	18.04	-26.69	32.22	304.06	0.04	457,212.14	725,442.31
4,125.00	1.14	232.90	4,124.73	16.98	-28.07	32.81	301.17	0.05	457,211.08	725,440.93

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MD Reference: 3659+18 @ 3677.00usft (P595)
North Reference: Grid
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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)
4,215.00	1.23	239.50	4,214.71	15.95	-29.62	33.64	298.31	0.18	457,210.05	725,439.38
4,305.00	1.05	217.80	4,304.69	14.81	-30.96	34.32	295.57	0.52	457,208.91	725,438.04
4,394.00	1.20	193.40	4,393.67	13.26	-31.67	34.34	292.72	0.56	457,207.36	725,437.33
4,484.00	1.20	187.80	4,483.65	11.41	-32.02	33.99	289.61	0.13	457,205.51	725,436.98
4,574.00	1.50	182.20	4,573.63	9.30	-32.19	33.51	286.11	0.36	457,203.40	725,436.81
4,663.00	1.70	171.30	4,662.59	6.83	-32.04	32.76	282.03	0.41	457,200.93	725,436.96
4,753.00	2.10	165.60	4,752.54	3.91	-31.43	31.67	277.10	0.49	457,198.01	725,437.57
4,842.00	2.20	158.30	4,841.48	0.75	-30.39	30.40	271.41	0.33	457,194.85	725,438.61
4,932.00	1.70	184.00	4,931.43	-2.19	-29.84	29.92	265.80	1.11	457,191.91	725,439.16
5,023.00	1.70	192.90	5,022.39	-4.85	-30.24	30.63	260.88	0.29	457,189.25	725,438.76
5,151.00	1.43	191.50	5,150.34	-8.27	-30.98	32.06	255.06	0.21	457,185.83	725,438.02
5,242.00	1.49	186.75	5,241.31	-10.56	-31.35	33.08	251.39	0.15	457,183.54	725,437.65
5,331.00	1.44	187.40	5,330.28	-12.81	-31.63	34.12	247.94	0.06	457,181.29	725,437.37
5,421.00	1.40	185.72	5,420.26	-15.03	-31.88	35.25	244.76	0.06	457,179.07	725,437.12
5,510.00	1.14	198.38	5,509.23	-16.95	-32.27	36.45	242.29	0.43	457,177.15	725,436.73
5,600.00	0.89	224.65	5,599.22	-18.30	-33.04	37.77	241.02	0.58	457,175.80	725,435.96
5,690.00	0.93	232.19	5,689.21	-19.24	-34.11	39.16	240.57	0.14	457,174.86	725,434.89
5,779.00	0.91	231.44	5,778.20	-20.13	-35.23	40.58	240.26	0.03	457,173.97	725,433.77
5,869.00	0.82	246.19	5,868.19	-20.83	-36.38	41.92	240.20	0.27	457,173.27	725,432.62
5,959.00	0.80	248.76	5,958.18	-21.32	-37.56	43.19	240.42	0.05	457,172.78	725,431.44
6,048.00	0.77	242.42	6,047.17	-21.82	-38.67	44.40	240.56	0.10	457,172.28	725,430.33
6,138.00	0.82	247.17	6,137.16	-22.35	-39.80	45.64	240.68	0.09	457,171.75	725,429.20
6,227.00	0.80	240.69	6,226.15	-22.90	-40.92	46.90	240.77	0.11	457,171.20	725,428.08
6,317.00	1.06	231.00	6,316.14	-23.73	-42.12	48.35	240.60	0.34	457,170.37	725,426.88
6,407.00	1.54	217.60	6,406.12	-25.22	-43.50	50.28	239.90	0.63	457,168.88	725,425.50
6,496.00	1.97	210.95	6,495.08	-27.48	-45.02	52.74	238.60	0.53	457,166.62	725,423.98
6,586.00	3.36	213.59	6,584.98	-31.00	-47.28	56.53	236.75	1.55	457,163.10	725,421.72

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 Wellbore: 907H
 Design: 907H (AsDrilled)

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6,676.00	3.83	214.11	6,674.80	-35.69	-50.42	61.77	234.71	0.52	457,158.41	725,418.58
6,765.00	3.48	217.09	6,763.62	-40.30	-53.72	67.15	233.12	0.45	457,153.80	725,415.28
6,855.00	3.79	216.23	6,853.44	-44.88	-57.12	72.64	231.84	0.35	457,149.22	725,411.88
6,945.00	4.34	213.83	6,943.21	-50.11	-60.77	78.77	230.49	0.64	457,143.99	725,408.23
7,035.00	4.39	213.49	7,032.95	-55.81	-64.57	85.35	229.16	0.06	457,138.29	725,404.43
7,124.00	4.48	214.15	7,121.68	-61.53	-68.40	92.00	228.03	0.12	457,132.57	725,400.60
7,215.00	4.68	215.74	7,212.39	-67.48	-72.57	99.09	227.08	0.26	457,126.62	725,396.43
7,304.00	4.76	215.49	7,301.09	-73.44	-76.83	106.28	226.29	0.09	457,120.66	725,392.17
7,393.00	4.89	218.90	7,389.77	-79.39	-81.36	113.68	225.70	0.35	457,114.71	725,387.64
7,483.00	4.73	219.08	7,479.46	-85.26	-86.10	121.17	225.28	0.18	457,108.84	725,382.90
7,573.00	4.23	222.52	7,569.18	-90.59	-90.69	128.18	225.03	0.63	457,103.51	725,378.31
7,662.00	3.84	220.99	7,657.96	-95.26	-94.86	134.43	224.88	0.45	457,098.84	725,374.14
7,752.00	3.64	223.65	7,747.77	-99.60	-98.81	140.30	224.77	0.29	457,094.50	725,370.19
7,842.00	3.57	223.15	7,837.59	-103.71	-102.70	145.95	224.72	0.09	457,090.39	725,366.30
7,931.00	3.50	224.80	7,926.42	-107.66	-106.51	151.44	224.69	0.14	457,086.44	725,362.49
8,021.00	3.23	223.77	8,016.27	-111.44	-110.20	156.72	224.68	0.31	457,082.66	725,358.80
8,110.00	3.64	225.43	8,105.11	-115.23	-113.94	162.05	224.68	0.47	457,078.87	725,355.06
8,200.00	4.00	224.58	8,194.91	-119.47	-118.18	168.05	224.69	0.40	457,074.63	725,350.82
8,290.00	4.01	223.76	8,284.69	-123.98	-122.56	174.34	224.67	0.06	457,070.12	725,346.44
8,379.00	3.98	224.95	8,373.47	-128.41	-126.90	180.54	224.66	0.10	457,065.69	725,342.10
8,469.00	3.85	221.66	8,463.26	-132.88	-131.11	186.68	224.62	0.29	457,061.22	725,337.89
8,558.00	3.92	223.05	8,552.06	-137.34	-135.17	192.70	224.55	0.13	457,056.76	725,333.83
8,648.00	3.78	221.71	8,641.85	-141.80	-139.25	198.74	224.48	0.18	457,052.30	725,329.75
8,738.00	3.60	222.29	8,731.67	-146.11	-143.12	204.53	224.41	0.20	457,047.99	725,325.88
8,827.00	3.18	223.47	8,820.51	-149.96	-146.70	209.79	224.37	0.48	457,044.14	725,322.30
8,917.00	3.37	223.32	8,910.36	-153.70	-150.23	214.93	224.35	0.21	457,040.40	725,318.77
9,007.00	3.52	222.45	9,000.20	-157.66	-153.91	220.33	224.31	0.18	457,036.44	725,315.09

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9,096.00	3.54	221.71	9,089.03	-161.73	-157.59	225.81	224.26	0.06	457,032.37	725,311.41	
9,186.00	3.61	218.33	9,178.86	-166.03	-161.19	231.40	224.15	0.25	457,028.07	725,307.81	
9,276.00	3.35	216.23	9,268.69	-170.37	-164.50	236.83	224.00	0.32	457,023.73	725,304.50	
9,365.00	3.15	217.73	9,357.55	-174.40	-167.54	241.84	223.85	0.24	457,019.70	725,301.46	
9,455.00	3.65	214.25	9,447.39	-178.73	-170.66	247.12	223.68	0.60	457,015.37	725,298.34	
9,544.00	5.00	216.33	9,536.13	-184.19	-174.55	253.76	223.46	1.53	457,009.91	725,294.45	
9,634.00	4.92	213.57	9,625.80	-190.57	-179.01	261.46	223.21	0.28	457,003.53	725,289.99	
9,724.00	4.70	206.83	9,715.48	-197.07	-182.81	268.81	222.85	0.67	456,997.03	725,286.19	
9,813.00	5.64	204.40	9,804.12	-204.31	-186.26	276.47	222.35	1.08	456,989.79	725,282.74	
9,903.00	5.04	200.19	9,893.73	-212.05	-189.45	284.35	221.78	0.80	456,982.05	725,279.55	
9,993.00	4.01	192.41	9,983.45	-218.83	-191.49	290.79	221.19	1.33	456,975.27	725,277.51	
10,082.00	3.24	197.32	10,072.27	-224.27	-192.91	295.83	220.70	0.93	456,969.83	725,276.09	
10,172.00	3.31	212.28	10,162.12	-228.90	-195.06	300.74	220.44	0.95	456,965.20	725,273.94	
10,262.00	4.01	216.25	10,251.94	-233.63	-198.31	306.45	220.32	0.83	456,960.47	725,270.69	
10,352.00	3.68	214.41	10,341.74	-238.55	-201.80	312.46	220.23	0.39	456,955.55	725,267.20	
10,441.00	3.45	212.64	10,430.56	-243.16	-204.86	317.96	220.11	0.29	456,950.94	725,264.14	
10,531.00	4.30	219.30	10,520.36	-248.06	-208.45	324.01	220.04	1.07	456,946.04	725,260.55	
10,621.00	3.67	224.15	10,610.14	-252.73	-212.60	330.26	220.07	0.79	456,941.37	725,256.40	
10,710.00	3.42	201.41	10,698.97	-257.25	-215.55	335.62	219.96	1.59	456,936.85	725,253.45	
10,800.00	3.80	182.39	10,788.80	-262.73	-216.66	340.54	219.51	1.39	456,931.37	725,252.34	
10,889.00	5.20	188.14	10,877.52	-269.67	-217.35	346.36	218.87	1.65	456,924.43	725,251.65	
10,979.00	5.87	192.18	10,967.10	-278.20	-218.90	354.00	218.20	0.86	456,915.90	725,250.10	
11,068.00	5.53	206.09	11,055.67	-286.50	-221.74	362.29	217.74	1.59	456,907.60	725,247.26	
11,158.00	6.25	220.79	11,145.20	-294.11	-226.85	371.43	217.64	1.85	456,899.99	725,242.15	
11,248.00	5.08	234.53	11,234.76	-300.13	-233.30	380.14	217.86	1.98	456,893.97	725,235.70	
11,337.00	3.57	253.43	11,323.51	-303.21	-239.16	386.18	218.27	2.31	456,890.89	725,229.84	
11,427.00	3.30	267.35	11,413.35	-304.13	-244.44	390.18	218.79	0.97	456,889.97	725,224.56	

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Well: MIS AMIGOS STATE 907H
Wellbore: 907H
Design: 907H (AsDrilled)

Local Co-ordinate Reference: Well MIS AMIGOS STATE 907H
TVD Reference: 3659+18 @ 3677.00usft (P595)
MD Reference: 3659+18 @ 3677.00usft (P595)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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)
11,517.00	3.16	267.39	11,503.20	-304.36	-249.50	393.56	219.34	0.16	456,889.74	725,219.50
11,606.00	3.42	254.28	11,592.06	-305.19	-254.51	397.39	219.83	0.89	456,888.91	725,214.49
11,702.00	2.92	250.00	11,687.91	-306.80	-259.56	401.87	220.23	0.58	456,887.30	725,209.44
11,809.00	2.10	241.56	11,794.81	-308.67	-263.85	406.07	220.52	0.84	456,885.43	725,205.15
11,903.00	3.22	280.35	11,888.71	-309.01	-267.96	409.01	220.93	2.19	456,885.09	725,201.04
11,948.00	4.20	281.32	11,933.62	-308.46	-270.82	410.48	221.28	2.18	456,885.64	725,198.18
11,997.00	4.63	303.65	11,982.48	-307.02	-274.23	411.65	221.77	3.59	456,887.08	725,194.77
12,016.00	5.23	306.56	12,001.41	-306.07	-275.56	411.84	222.00	3.42	456,888.03	725,193.44
12,062.00	8.29	313.93	12,047.08	-302.52	-279.63	411.97	222.75	6.90	456,891.58	725,189.37
12,110.00	13.43	317.15	12,094.21	-296.03	-285.92	411.56	224.00	10.78	456,898.07	725,183.08
12,157.00	17.87	315.77	12,139.45	-286.86	-294.67	411.24	225.77	9.48	456,907.24	725,174.33
12,204.00	23.30	315.74	12,183.44	-275.03	-306.19	411.57	228.07	11.55	456,919.07	725,162.81
12,248.00	27.54	315.18	12,223.17	-261.57	-319.44	412.87	230.69	9.65	456,932.53	725,149.56
12,298.00	30.20	314.35	12,266.95	-244.58	-336.59	416.06	234.00	5.38	456,949.52	725,132.41
12,345.00	35.05	316.66	12,306.52	-226.49	-354.31	420.52	237.41	10.65	456,967.61	725,114.69
12,392.00	38.15	317.57	12,344.25	-205.95	-373.37	426.41	241.12	6.70	456,988.15	725,095.63
12,439.00	41.24	319.56	12,380.41	-183.44	-393.22	433.91	244.99	7.11	457,010.66	725,075.78
12,487.00	46.70	323.38	12,414.95	-157.36	-413.92	442.82	249.19	12.64	457,036.74	725,055.08
12,534.00	52.08	328.35	12,445.54	-127.82	-433.87	452.31	253.59	13.98	457,066.28	725,035.13
12,581.00	58.46	330.67	12,472.31	-94.54	-453.43	463.18	258.22	14.17	457,099.56	725,015.57
12,628.00	66.68	335.41	12,493.95	-57.37	-472.27	475.74	263.07	19.64	457,136.73	724,996.73
12,652.00	71.13	337.38	12,502.59	-36.86	-481.22	482.63	265.62	20.06	457,157.24	724,987.78
Wellpath Crosses FTP										
12,672.94	75.03	339.02	12,508.68	-18.26	-488.66	489.00	267.86	20.06	457,175.84	724,980.34
MAS 907H FTP										
12,675.00	75.41	339.18	12,509.21	-16.40	-489.37	489.64	268.08	20.06	457,177.70	724,979.63
12,718.00	81.86	345.19	12,517.68	23.70	-502.23	502.79	272.70	20.31	457,217.80	724,966.77

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MD Reference: 3659+18 @ 3677.00usft (P595)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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)
12,769.00	84.32	347.45	12,523.82	72.89	-514.20	519.34	278.07	6.53	457,266.99	724,954.80
12,816.00	89.65	349.75	12,526.29	118.88	-523.47	536.80	282.79	12.35	457,312.98	724,945.53
12,863.00	93.99	353.46	12,524.80	165.33	-530.33	555.50	287.32	12.14	457,359.43	724,938.67
12,957.00	94.41	353.56	12,517.92	258.48	-540.92	599.51	295.54	0.46	457,452.58	724,928.08
13,051.00	92.38	356.52	12,512.35	351.95	-549.03	652.15	302.66	3.81	457,546.05	724,919.97
13,145.00	90.07	359.73	12,510.34	445.86	-552.10	709.65	308.92	4.21	457,639.96	724,916.90
13,240.00	90.49	0.06	12,509.87	540.85	-552.28	773.00	314.40	0.56	457,734.95	724,916.72
13,334.00	90.98	359.73	12,508.67	634.85	-552.45	841.57	318.97	0.63	457,828.95	724,916.55
13,428.00	90.00	1.26	12,507.86	728.84	-551.64	914.06	322.88	1.93	457,922.94	724,917.36
13,523.00	88.81	1.07	12,508.85	823.81	-549.71	990.37	326.29	1.27	458,017.91	724,919.29
13,617.00	88.04	1.15	12,511.43	917.75	-547.89	1,068.86	329.16	0.82	458,111.85	724,921.11
13,712.00	88.67	2.10	12,514.16	1,012.68	-545.19	1,150.11	331.70	1.20	458,206.78	724,923.81
13,805.00	87.83	2.37	12,517.00	1,105.56	-541.57	1,231.08	333.90	0.95	458,299.66	724,927.43
13,899.00	89.58	2.04	12,519.13	1,199.46	-537.95	1,314.58	335.84	1.89	458,393.56	724,931.05
13,993.00	91.33	3.02	12,518.38	1,293.36	-533.80	1,399.19	337.57	2.13	458,487.46	724,935.20
14,087.00	88.60	1.76	12,518.44	1,387.27	-529.89	1,485.03	339.10	3.20	458,581.37	724,939.11
14,181.00	87.48	1.73	12,521.65	1,481.17	-527.02	1,572.14	340.41	1.19	458,675.27	724,941.98
14,276.00	89.93	1.85	12,523.80	1,576.09	-524.06	1,660.94	341.61	2.58	458,770.19	724,944.94
14,370.00	90.63	2.40	12,523.34	1,670.03	-520.57	1,749.28	342.69	0.95	458,864.13	724,948.43
14,465.00	88.32	2.41	12,524.21	1,764.93	-516.59	1,838.98	343.69	2.43	458,959.03	724,952.41
14,560.00	89.37	1.80	12,526.12	1,859.85	-513.10	1,929.33	344.58	1.28	459,053.95	724,955.90
14,654.00	90.21	1.55	12,526.47	1,953.81	-510.35	2,019.36	345.36	0.93	459,147.91	724,958.65
14,748.00	90.35	0.80	12,526.01	2,047.78	-508.42	2,109.96	346.06	0.81	459,241.88	724,960.58
14,841.00	87.55	359.85	12,527.71	2,140.76	-507.90	2,200.18	346.65	3.18	459,334.86	724,961.10
14,935.00	89.72	358.88	12,529.95	2,234.72	-508.94	2,291.94	347.17	2.53	459,428.82	724,960.06
15,029.00	89.79	357.16	12,530.35	2,328.66	-512.18	2,384.32	347.60	1.83	459,522.76	724,956.82
15,124.00	90.21	356.64	12,530.35	2,423.52	-517.32	2,478.12	347.95	0.70	459,617.62	724,951.68

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Local Co-ordinate Reference: Well MIS AMIGOS STATE 907H
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 MD Reference: 3659+18 @ 3677.00usft (P595)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 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)
15,218.00	91.61	357.62	12,528.86	2,517.38	-522.03	2,570.94	348.28	1.82	459,711.48	724,946.97
15,312.00	91.19	358.48	12,526.56	2,611.30	-525.23	2,663.60	348.63	1.02	459,805.40	724,943.77
15,406.00	88.67	357.91	12,526.68	2,705.25	-528.19	2,756.33	348.95	2.75	459,899.35	724,940.81
15,500.00	96.31	359.30	12,522.60	2,799.06	-530.47	2,848.88	349.27	8.26	459,993.16	724,938.53
15,594.00	100.33	359.08	12,509.00	2,892.04	-531.79	2,940.53	349.58	4.28	460,086.14	724,937.21
15,688.00	99.99	0.03	12,492.42	2,984.56	-532.51	3,031.69	349.88	1.06	460,178.66	724,936.49
15,782.00	100.54	0.71	12,475.67	3,077.05	-531.91	3,122.69	350.19	0.92	460,271.15	724,937.09
15,873.00	96.23	2.97	12,462.40	3,167.01	-529.01	3,210.89	350.52	5.34	460,361.11	724,939.99
15,985.00	93.30	6.20	12,453.09	3,278.24	-520.08	3,319.23	350.99	3.89	460,472.34	724,948.92
First Stryker Survey										
16,017.00	92.40	6.20	12,451.50	3,310.01	-516.63	3,350.08	351.13	2.81	460,504.11	724,952.37
16,050.00	88.90	6.40	12,451.13	3,342.80	-513.01	3,381.94	351.28	10.62	460,536.90	724,955.99
16,079.00	87.60	5.20	12,452.01	3,371.64	-510.08	3,410.01	351.40	6.10	460,565.74	724,958.92
16,111.00	86.30	3.10	12,453.72	3,403.51	-507.77	3,441.18	351.51	7.71	460,597.61	724,961.23
16,138.00	84.84	0.52	12,455.80	3,430.41	-506.92	3,467.66	351.59	10.95	460,624.51	724,962.08
16,170.00	84.57	0.26	12,458.75	3,462.27	-506.70	3,499.15	351.67	1.17	460,656.37	724,962.30
16,202.00	85.89	0.43	12,461.42	3,494.16	-506.51	3,530.68	351.75	4.16	460,688.26	724,962.49
16,233.00	87.30	0.79	12,463.26	3,525.10	-506.18	3,561.26	351.83	4.69	460,719.20	724,962.82
16,264.00	87.43	0.87	12,464.68	3,556.07	-505.73	3,591.85	351.91	0.49	460,750.17	724,963.27
16,310.00	87.69	1.14	12,466.64	3,602.02	-504.92	3,637.24	352.02	0.81	460,796.12	724,964.08
16,358.00	86.95	0.87	12,468.88	3,649.96	-504.08	3,684.60	352.14	1.64	460,844.06	724,964.92
16,452.00	88.57	0.26	12,472.56	3,743.88	-503.16	3,777.54	352.35	1.84	460,937.98	724,965.84
16,546.00	86.59	357.36	12,476.53	3,837.76	-505.11	3,870.86	352.50	3.73	461,031.86	724,963.89
16,640.00	87.47	355.86	12,481.40	3,931.47	-510.66	3,964.49	352.60	1.85	461,125.57	724,958.34
16,734.00	89.76	356.20	12,483.67	4,025.21	-517.16	4,058.29	352.68	2.46	461,219.31	724,951.84
16,828.00	89.01	356.04	12,484.68	4,118.99	-523.52	4,152.12	352.76	0.82	461,313.09	724,945.48
16,922.00	89.49	355.86	12,485.91	4,212.74	-530.16	4,245.97	352.83	0.55	461,406.84	724,938.84

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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)
17,017.00	89.23	357.88	12,486.97	4,307.59	-535.35	4,340.73	352.92	2.14	461,501.69	724,933.65
17,110.00	90.02	358.24	12,487.58	4,400.53	-538.50	4,433.36	353.02	0.93	461,594.63	724,930.50
17,204.00	89.93	358.41	12,487.62	4,494.49	-541.24	4,526.97	353.13	0.20	461,688.59	724,927.76
17,298.00	92.75	359.99	12,485.42	4,588.45	-542.56	4,620.41	353.26	3.44	461,782.55	724,926.44
17,392.00	90.81	1.75	12,482.50	4,682.38	-541.13	4,713.55	353.41	2.79	461,876.48	724,927.87
17,486.00	86.86	1.40	12,484.41	4,776.31	-538.55	4,806.57	353.57	4.22	461,970.41	724,930.45
17,524.00	86.64	0.26	12,486.57	4,814.24	-538.00	4,844.21	353.62	3.05	462,008.34	724,931.00
17,527.00	86.64	0.26	12,486.74	4,817.24	-537.98	4,847.18	353.63	0.00	462,011.34	724,931.02
Wellpath Crosses LTP - MAS 907H LTP										
17,570.00	86.64	0.26	12,489.26	4,860.16	-537.79	4,889.83	353.69	0.00	462,054.26	724,931.21
TD @ 57'FNL 332'FWL - MAS 907H PBHL										

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
12,652.00	12,502.59	-36.86	-481.22	Wellpath Crosses FTP
15,985.00	12,453.09	3,278.24	-520.08	First Stryker Survey
17,527.00	12,486.74	4,817.24	-537.98	Wellpath Crosses LTP
17,570.00	12,489.26	4,860.16	-537.79	TD @ 57'FNL 332'FWL

Checked By: _____ Approved By: _____ Date: _____