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Actual Wellpath Report

Sapinero Unit 4H AWP Proj: 14181'
Page 1 of 10



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Sapinero Unit 4H
Field	Tyler	UWI	47-095-02945-0000
Facility	Delta Pad	Wellbore	Sapinero Unit 4H AWB
Slot	Slot D		

REPORT SETUP INFORMATION

Projection System	NAD27 / UTM Zone 17 North, US feet [32067]	Software System	WellArchitect® 7.0
North Reference	Grid	Report Generated By	Edsaryar on 2025-11-01 at 9:01:44 AM
Scale	0.999606	Last Updated	2025-10-31
Convergence at slot	0.16° East	Database	WA_MPL_EASTERNUS_Defn

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-44.57	6.22	1709809.12	14345159.27	39°30'10.6699"N	80°45'14.3849"W
Facility Reference Pt			1709802.90	14345203.82	39°30'11.1106"N	80°45'14.4627"W
Field Reference Pt			0.00	0.00	0°00'0.0000"	85°29'19.3013"W

WELLPATH DATUM

Calculation method	Minimum curvature	H&P 317 (RKB) to Facility Vertical Datum	1103.50ft
Horizontal Reference Pt	Slot	H&P 317 (RKB) to Mean Sea Level	1103.50ft
Vertical Reference Pt	H&P 317 (RKB)	H&P 317 (RKB) to Ground Level at Slot (Slot D)	25.50ft
MD Reference Pt	H&P 317 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	160.950°

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Page 2 of 10



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WELLPATH DATA (158 stations) † = interpolated, ‡ = extrapolated station																
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
0.00†	0.000	176.960	0.00	0.00	0.00	0.00	1709809.12	14345159.27	39°30'10.6699"N	80°45'14.3849"W	0.00	0.000	0.00	0.00	0.00	
25.50	0.000	176.960	25.50	0.00	0.00	0.00	1709809.12	14345159.27	39°30'10.6699"N	80°45'14.3849"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.250	176.960	100.00	0.16	-0.16	0.01	1709809.13	14345159.11	39°30'10.6683"N	80°45'14.3848"W	0.16	176.960	0.34	0.34	0.00	Gyrodata MS Gyro <17-1/2"> (100'-800')
200.00	0.500	228.670	200.00	0.53	-0.67	-0.31	1709808.81	14345158.60	39°30'10.6633"N	80°45'14.3888"W	0.74	204.705	0.40	0.25	51.71	
300.00	0.540	229.370	299.99	0.87	-1.26	-0.99	1709808.13	14345158.01	39°30'10.6575"N	80°45'14.3976"W	1.61	218.161	0.04	0.04	0.70	
400.00	0.260	257.160	399.99	1.02	-1.62	-1.57	1709807.55	14345157.65	39°30'10.6539"N	80°45'14.4050"W	2.26	224.121	0.33	-0.28	27.79	
500.00	0.350	260.960	499.99	0.94	-1.72	-2.09	1709807.03	14345157.55	39°30'10.6530"N	80°45'14.4116"W	2.71	230.623	0.09	0.09	3.80	
600.00	0.340	247.770	599.99	0.90	-1.88	-2.67	1709806.45	14345157.39	39°30'10.6514"N	80°45'14.4190"W	3.27	234.868	0.08	-0.01	-13.19	
700.00	0.380	231.990	699.99	1.03	-2.20	-3.21	1709805.91	14345157.08	39°30'10.6483"N	80°45'14.4258"W	3.89	235.599	0.11	0.04	-15.78	
800.00	0.530	257.580	799.98	1.08	-2.50	-3.92	1709805.20	14345156.77	39°30'10.6453"N	80°45'14.4349"W	4.65	237.476	0.25	0.15	25.59	
900.00	0.740	256.650	899.98	0.97	-2.75	-5.00	1709804.12	14345156.52	39°30'10.6429"N	80°45'14.4487"W	5.71	241.205	0.21	0.21	-0.93	Gyrodata MS Gyro <12-1/4"> (800')(900'-917')
917.00	0.730	257.650	916.98	0.94	-2.80	-5.21	1709803.91	14345156.47	39°30'10.6424"N	80°45'14.4514"W	5.92	241.785	0.10	-0.06	5.88	
1042.00	1.060	357.920	1041.97	-0.26	-1.81	-6.03	1709803.09	14345157.46	39°30'10.6522"N	80°45'14.4619"W	6.30	253.286	1.11	0.26	80.22	APS EM <12-1/4"> (917')(1042'-3360')
1137.00	3.080	32.860	1136.90	-2.67	1.21	-4.68	1709804.44	14345160.48	39°30'10.6820"N	80°45'14.4445"W	4.83	284.512	2.41	2.13	36.78	
1231.00	5.270	34.580	1230.65	-6.79	6.89	-0.86	1709808.26	14345166.15	39°30'10.7380"N	80°45'14.3956"W	6.94	352.897	2.33	2.33	1.83	
1325.00	7.190	31.720	1324.09	-13.07	15.45	4.69	1709813.80	14345174.71	39°30'10.8225"N	80°45'14.3245"W	16.14	16.874	2.07	2.04	-3.04	
1420.00	9.360	27.980	1418.09	-22.10	27.33	11.44	1709820.55	14345186.59	39°30'10.9397"N	80°45'14.2380"W	29.62	22.709	2.35	2.28	-3.94	
1514.00	10.910	23.930	1510.62	-33.82	42.21	18.63	1709827.74	14345201.46	39°30'11.0866"N	80°45'14.1457"W	46.14	23.817	1.81	1.65	-4.31	
1609.00	12.660	22.200	1603.62	-48.22	60.07	26.21	1709835.32	14345219.31	39°30'11.2629"N	80°45'14.0484"W	65.54	23.575	1.88	1.84	-1.82	
1703.00	14.210	24.560	1695.04	-64.32	80.10	34.90	1709844.01	14345239.34	39°30'11.4606"N	80°45'13.9368"W	87.37	23.543	1.75	1.65	2.51	
1798.00	14.400	23.920	1787.10	-81.41	101.50	44.54	1709853.64	14345260.73	39°30'11.6719"N	80°45'13.8132"W	110.84	23.690	0.26	0.20	-0.67	
1893.00	14.860	27.110	1879.02	-98.49	123.14	54.88	1709863.98	14345282.37	39°30'11.8855"N	80°45'13.6805"W	134.82	24.019	0.98	0.48	3.36	
1987.00	14.910	27.890	1969.87	-115.09	144.56	66.03	1709875.12	14345303.78	39°30'12.0969"N	80°45'13.5375"W	158.93	24.548	0.22	0.05	0.83	
2082.00	14.770	26.300	2061.70	-131.95	166.22	77.11	1709886.20	14345325.42	39°30'12.3107"N	80°45'13.3954"W	183.24	24.886	0.45	-0.15	-1.67	
2177.00	15.150	27.050	2153.48	-149.07	188.13	88.12	1709897.21	14345347.33	39°30'12.5269"N	80°45'13.2541"W	207.75	25.098	0.45	0.40	0.79	
2271.00	15.500	31.090	2244.14	-165.64	209.83	100.19	1709909.27	14345369.02	39°30'12.7410"N	80°45'13.0994"W	232.52	25.524	1.20	0.37	4.30	
2366.00	15.130	30.800	2335.76	-181.77	231.35	113.10	1709922.17	14345390.53	39°30'12.9534"N	80°45'12.9340"W	257.51	26.052	0.40	-0.39	-0.31	
2460.00	14.920	29.510	2426.55	-197.68	252.42	125.34	1709934.41	14345411.59	39°30'13.1613"N	80°45'12.7771"W	281.82	26.407	0.42	-0.22	-1.37	
2555.00	14.810	29.370	2518.37	-213.84	273.64	137.32	1709946.38	14345432.80	39°30'13.3707"N	80°45'12.6235"W	306.16	26.648	0.12	-0.12	-0.15	
2649.00	14.300	27.390	2609.35	-229.81	294.42	148.55	1709957.61	14345453.57	39°30'13.5758"N	80°45'12.4795"W	329.77	26.773	0.76	-0.54	-2.11	

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Page 3 of 10



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Field	Tyler	UWI	47-095-02945-0000
Facility	Delta Pad	Wellbore	Sapinero Unit 4H AWB
Slot	Slot D		

WELLPATH DATA (158 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
2744.00	14.050	26.320	2701.46	-246.00	315.17	159.06	1709968.12	14345474.32	39°30'13.7806"N	80°45'12.3447"W	353.04	26.779	0.38	-0.26	-1.13	
2839.00	13.280	24.630	2793.77	-261.99	335.43	168.72	1709977.77	14345494.57	39°30'13.9805"N	80°45'12.2207"W	375.47	26.702	0.91	-0.81	-1.78	
2933.00	13.110	22.920	2885.29	-277.72	355.06	177.37	1709986.42	14345514.19	39°30'14.1743"N	80°45'12.1097"W	396.90	26.545	0.45	-0.18	-1.82	
3028.00	13.160	25.920	2977.81	-293.38	374.71	186.30	1709995.34	14345533.83	39°30'14.3683"N	80°45'11.9952"W	418.47	26.435	0.72	0.05	3.16	
3122.00	12.970	25.820	3069.37	-308.43	393.83	195.57	1710004.61	14345552.94	39°30'14.5570"N	80°45'11.8762"W	439.72	26.408	0.20	-0.20	-0.11	
3217.00	13.640	27.880	3161.82	-323.64	413.33	205.45	1710014.49	14345572.44	39°30'14.7494"N	80°45'11.7495"W	461.57	26.430	0.86	0.71	2.17	
3312.00	13.230	26.460	3254.22	-338.90	432.96	215.53	1710024.57	14345592.06	39°30'14.9432"N	80°45'11.6201"W	483.64	26.464	0.55	-0.43	-1.49	
3360.00	13.180	25.380	3300.95	-346.66	442.82	220.32	1710029.36	14345601.92	39°30'15.0405"N	80°45'11.5587"W	494.61	26.452	0.52	-0.10	-2.25	
3496.00	12.280	19.140	3433.62	-369.10	470.50	231.71	1710040.74	14345629.58	39°30'15.3137"N	80°45'11.4124"W	524.46	26.219	1.21	-0.66	-4.59	APS EM <8-3/4"> (3360')(3496'-6049')
3590.00	12.570	26.110	3525.42	-384.17	489.13	239.49	1710048.52	14345648.20	39°30'15.4977"N	80°45'11.3125"W	544.61	26.088	1.62	0.31	7.41	
3684.00	14.510	32.970	3616.81	-398.63	508.20	250.40	1710059.42	14345667.26	39°30'15.6858"N	80°45'11.1726"W	566.54	26.231	2.68	2.06	7.30	
3779.00	14.760	33.340	3708.73	-413.34	528.29	263.53	1710072.55	14345687.35	39°30'15.8840"N	80°45'11.0044"W	590.37	26.512	0.28	0.26	0.39	
3873.00	14.290	31.450	3799.72	-428.03	548.19	276.17	1710085.18	14345707.24	39°30'16.0804"N	80°45'10.8426"W	613.82	26.738	0.71	-0.50	-2.01	
3968.00	13.670	28.740	3891.91	-443.03	568.04	287.68	1710096.69	14345727.08	39°30'16.2762"N	80°45'10.6950"W	636.73	26.860	0.95	-0.65	-2.85	
4062.00	12.840	25.550	3983.41	-457.93	587.20	297.53	1710106.53	14345746.24	39°30'16.4653"N	80°45'10.5687"W	658.27	26.871	1.18	-0.88	-3.39	
4157.00	13.370	29.370	4075.93	-472.74	606.29	307.47	1710116.46	14345765.32	39°30'16.6538"N	80°45'10.4412"W	679.80	26.891	1.07	0.56	4.02	
4251.00	12.920	27.930	4167.47	-487.12	625.05	317.72	1710126.71	14345784.07	39°30'16.8389"N	80°45'10.3098"W	701.17	26.945	0.59	-0.48	-1.53	
4346.00	12.930	31.320	4260.06	-501.14	643.51	328.22	1710137.21	14345802.53	39°30'17.0211"N	80°45'10.1752"W	722.38	27.023	0.80	0.01	3.57	
4441.00	13.780	30.050	4352.49	-515.33	662.39	339.41	1710148.39	14345821.40	39°30'17.2073"N	80°45'10.0317"W	744.28	27.131	0.95	0.89	-1.34	
4535.00	13.040	27.890	4443.93	-529.90	681.45	349.98	1710158.96	14345840.45	39°30'17.3955"N	80°45'9.8963"W	766.07	27.184	0.95	-0.79	-2.30	
4630.00	13.170	31.200	4536.46	-544.14	700.18	360.60	1710169.57	14345859.17	39°30'17.5803"N	80°45'9.7601"W	787.58	27.249	0.80	0.14	3.48	
4724.00	14.490	32.210	4627.73	-558.35	719.29	372.41	1710181.38	14345878.28	39°30'17.7688"N	80°45'9.6087"W	809.98	27.373	1.43	1.40	1.07	
4818.00	14.180	31.090	4718.81	-573.09	739.10	384.63	1710193.59	14345898.08	39°30'17.9643"N	80°45'9.4522"W	833.19	27.492	0.44	-0.33	-1.19	
4913.00	13.020	28.700	4811.14	-587.74	758.45	395.77	1710204.74	14345917.42	39°30'18.1553"N	80°45'9.3093"W	855.51	27.556	1.36	-1.22	-2.52	
5008.00	13.090	31.260	4903.69	-601.80	777.04	406.50	1710215.45	14345936.00	39°30'18.3386"N	80°45'9.1719"W	876.94	27.616	0.61	0.07	2.69	
5102.00	14.250	31.330	4995.02	-615.98	796.02	418.04	1710226.99	14345954.97	39°30'18.5259"N	80°45'9.0240"W	899.11	27.707	1.23	1.23	0.07	
5199.00	14.910	30.270	5088.90	-631.73	816.99	430.53	1710239.48	14345975.94	39°30'18.7329"N	80°45'8.8638"W	923.49	27.788	0.73	0.68	-1.09	
5294.00	13.740	28.590	5180.94	-647.30	837.46	442.09	1710251.04	14345996.40	39°30'18.9348"N	80°45'8.7156"W	946.99	27.830	1.31	-1.23	-1.77	
5388.00	14.680	27.270	5272.07	-663.04	857.85	452.89	1710261.83	14346016.78	39°30'19.1360"N	80°45'8.5771"W	970.06	27.831	1.06	1.00	-1.40	
5483.00	13.750	23.740	5364.16	-679.64	878.88	462.95	1710271.89	14346037.80	39°30'19.3437"N	80°45'8.4480"W	993.36	27.778	1.34	-0.98	-3.72	

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Page 4 of 10



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5577.00	13.880	25.810	5455.44	-695.83	899.26	472.36	1710281.29	14346058.17	39°30'19.5448"N	80°45'8.3273"W	1015.77	27.712	0.54	0.14	2.20	
5672.00	14.860	30.740	5547.47	-711.78	919.99	483.55	1710292.48	14346078.89	39°30'19.7494"N	80°45'8.1838"W	1039.33	27.727	1.65	1.03	5.19	
5766.00	14.260	30.690	5638.45	-727.04	940.30	495.62	1710304.54	14346099.20	39°30'19.9498"N	80°45'8.0291"W	1062.93	27.793	0.64	-0.64	-0.05	
5860.00	12.590	27.650	5729.88	-741.55	959.34	506.28	1710315.20	14346118.23	39°30'20.1376"N	80°45'7.8924"W	1084.73	27.823	1.93	-1.78	-3.23	
5955.00	12.030	33.090	5822.70	-754.73	976.80	516.49	1710325.41	14346135.68	39°30'20.3100"N	80°45'7.7615"W	1104.95	27.868	1.36	-0.59	5.73	
6049.00	11.130	33.010	5914.78	-766.32	992.62	526.78	1710335.70	14346151.49	39°30'20.4660"N	80°45'7.6297"W	1123.74	27.955	0.96	-0.96	-0.09	
6104.00	9.930	30.000	5968.86	-772.69	1001.18	532.05	1710340.96	14346160.05	39°30'20.5504"N	80°45'7.5622"W	1133.77	27.987	2.40	-2.18	-5.47	BH Lucida <8-1/2"> (6049')(6104'-14156')
6173.00	10.840	35.550	6036.73	-780.35	1011.61	538.80	1710347.70	14346170.48	39°30'20.6534"N	80°45'7.4758"W	1146.15	28.040	1.96	1.32	8.04	
6268.00	10.880	57.550	6130.07	-787.60	1023.69	551.56	1710360.46	14346182.56	39°30'20.7724"N	80°45'7.3125"W	1162.83	28.316	4.34	0.04	23.16	
6362.00	10.910	95.400	6222.49	-785.98	1027.62	567.92	1710376.82	14346186.48	39°30'20.8108"N	80°45'7.1036"W	1174.11	28.928	7.48	0.03	40.27	
6457.00	15.530	122.990	6315.03	-772.21	1019.84	587.57	1710396.46	14346178.70	39°30'20.7334"N	80°45'6.8532"W	1176.99	29.948	8.10	4.86	29.04	
6551.00	22.280	138.200	6403.97	-745.81	999.67	610.04	1710418.92	14346158.54	39°30'20.5334"N	80°45'6.5673"W	1171.10	31.393	8.84	7.18	16.18	
6646.00	29.360	144.630	6489.44	-706.79	967.20	635.56	1710444.43	14346126.09	39°30'20.2119"N	80°45'6.2428"W	1157.33	33.310	8.00	7.45	6.77	
6668.00†	31.117	145.378	6508.45	-696.14	958.13	641.92	1710450.78	14346117.02	39°30'20.1220"N	80°45'6.1621"W	1153.28	33.821	8.17	7.98	3.40	Sycamore: 6668' MD
6741.00	36.970	147.400	6568.91	-656.59	924.08	664.48	1710473.34	14346082.98	39°30'19.7849"N	80°45'5.8754"W	1138.18	35.719	8.17	8.02	2.77	
6824.00†	42.496	148.976	6632.72	-604.86	878.99	692.40	1710501.24	14346037.92	39°30'19.3385"N	80°45'5.5208"W	1118.95	38.228	6.77	6.66	1.90	Middlesex: 6824' MD
6835.00	43.230	149.160	6640.78	-597.54	872.58	696.24	1710505.09	14346031.50	39°30'19.2750"N	80°45'5.4720"W	1116.31	38.587	6.77	6.67	1.67	
6930.00	53.020	153.470	6704.14	-527.88	810.53	729.96	1710538.79	14345969.47	39°30'18.6608"N	80°45'5.0440"W	1090.78	42.006	10.84	10.31	4.54	
6990.00†	57.832	154.220	6738.17	-478.87	766.19	751.72	1710560.55	14345925.16	39°30'18.2220"N	80°45'4.7679"W	1073.38	44.454	8.08	8.02	1.25	Burkett: 6990' MD
7024.00	60.560	154.610	6755.58	-449.86	739.85	764.33	1710573.15	14345898.83	39°30'17.9614"N	80°45'4.6080"W	1063.76	45.932	8.08	8.02	1.15	
7062.00†	62.477	155.812	6773.71	-416.63	709.53	778.33	1710587.14	14345868.52	39°30'17.6613"N	80°45'4.4305"W	1053.20	47.648	5.76	5.04	3.16	Tully: 7062' MD
7119.00	65.370	157.540	6798.76	-365.58	662.52	798.59	1710607.40	14345821.53	39°30'17.1961"N	80°45'4.1737"W	1037.63	50.321	5.76	5.08	3.03	
7213.00	73.050	161.300	6832.11	-277.82	580.30	829.38	1710638.18	14345739.34	39°30'16.3827"N	80°45'3.7837"W	1012.24	55.020	8.98	8.17	4.00	
7252.00†	75.689	160.908	6842.62	-240.26	544.77	841.55	1710650.33	14345703.83	39°30'16.0312"N	80°45'3.6298"W	1002.49	57.083	6.84	6.77	-1.01	Marcellus POE: 7252' MD
7308.00	79.480	160.360	6854.66	-185.58	493.19	859.68	1710668.46	14345652.26	39°30'15.5209"N	80°45'3.4003"W	991.10	60.158	6.84	6.77	-0.98	
7402.00	86.710	160.200	6865.95	-92.33	405.40	891.15	1710699.92	14345564.51	39°30'14.6524"N	80°45'3.0020"W	979.03	65.538	7.69	7.69	-0.17	
7497.00	89.600	161.140	6869.01	2.61	315.81	922.57	1710731.33	14345474.96	39°30'13.7661"N	80°45'2.6042"W	975.13	71.103	3.20	3.04	0.99	
7592.00	89.420	161.040	6869.82	97.60	225.94	953.36	1710762.10	14345385.12	39°30'12.8771"N	80°45'2.2146"W	979.77	76.667	0.22	-0.19	-0.11	
7687.00	89.260	160.840	6870.91	192.60	136.16	984.38	1710793.11	14345295.37	39°30'11.9888"N	80°45'1.8221"W	993.75	82.125	0.27	-0.17	-0.21	
7781.00	89.320	160.260	6872.08	286.59	47.53	1015.68	1710824.40	14345206.78	39°30'11.1120"N	80°45'1.4259"W	1016.79	87.321	0.62	0.06	-0.62	

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Actual Wellpath Report

Sapinero Unit 4H AWP Proj: 14181'

Page 5 of 10



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Sapinero Unit 4H
Field	Tyler	UWI	47-095-02945-0000
Facility	Delta Pad	Wellbore	Sapinero Unit 4H AWB
Slot	Slot D		

WELLPATH DATA (158 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
7876.00	89.720	161.220	6872.87	381.58	-42.15	1047.01	1710855.72	14345117.14	39°30'10.2249"N	80°45'1.0293"W	1047.86	92.305	1.09	0.42	1.01	
7971.00	91.380	161.580	6871.96	476.57	-132.18	1077.31	1710886.01	14345027.14	39°30'9.3342"N	80°45'0.6460"W	1085.39	96.995	1.79	1.75	0.38	
8066.00	89.630	160.840	6871.13	571.56	-222.11	1107.91	1710916.59	14344937.25	39°30'8.4446"N	80°45'0.2588"W	1129.95	101.336	2.00	-1.84	-0.78	
8160.00	89.910	160.240	6871.50	665.56	-310.74	1139.23	1710947.89	14344848.65	39°30'7.5678"N	80°44'59.8625"W	1180.84	105.257	0.70	0.30	-0.64	
8255.00	89.720	160.510	6871.81	760.55	-400.22	1171.13	1710979.79	14344759.21	39°30'6.6825"N	80°44'59.4586"W	1237.63	108.867	0.35	-0.20	0.28	
8349.00	90.370	160.180	6871.74	854.55	-488.74	1202.75	1711011.39	14344670.72	39°30'5.8068"N	80°44'59.0584"W	1298.26	112.115	0.78	0.69	-0.35	
8444.00	90.030	160.570	6871.40	949.54	-578.22	1234.66	1711043.29	14344581.28	39°30'4.9215"N	80°44'58.6546"W	1363.35	115.095	0.54	-0.36	0.41	
8539.00	90.220	160.810	6871.20	1044.54	-667.88	1266.07	1711074.69	14344491.66	39°30'4.0346"N	80°44'58.2570"W	1431.43	117.813	0.32	0.20	0.25	
8728.00	90.030	160.710	6870.78	1233.54	-846.32	1328.35	1711136.94	14344313.28	39°30'2.2693"N	80°44'57.4688"W	1575.05	122.502	0.11	-0.10	-0.05	
8823.00	90.740	160.770	6870.15	1328.53	-936.00	1359.69	1711168.27	14344223.64	39°30'1.3821"N	80°44'57.0723"W	1650.71	124.543	0.75	0.75	0.06	
8917.00	90.280	160.910	6869.31	1422.53	-1024.79	1390.54	1711199.10	14344134.88	39°30'0.5037"N	80°44'56.6819"W	1727.36	126.389	0.51	-0.49	0.15	
9012.00	89.600	161.030	6869.41	1517.53	-1114.60	1421.51	1711230.07	14344045.11	39°29'59.6152"N	80°44'56.2899"W	1806.39	128.100	0.73	-0.72	0.13	
9107.00	89.750	161.050	6869.95	1612.53	-1204.44	1452.38	1711260.92	14343955.30	39°29'58.7264"N	80°44'55.8994"W	1886.82	129.669	0.16	0.16	0.02	
9201.00	89.630	161.270	6870.46	1706.52	-1293.41	1482.73	1711291.26	14343866.38	39°29'57.8463"N	80°44'55.5153"W	1967.59	131.099	0.27	-0.13	0.23	
9296.00	89.450	160.660	6871.22	1801.52	-1383.21	1513.71	1711322.23	14343776.61	39°29'56.9579"N	80°44'55.1233"W	2050.51	132.421	0.67	-0.19	-0.64	
9390.00	88.890	161.410	6872.58	1895.51	-1472.09	1544.26	1711352.77	14343687.76	39°29'56.0786"N	80°44'54.7368"W	2133.50	133.629	1.00	-0.60	0.80	
9485.00	88.550	161.130	6874.70	1990.48	-1562.04	1574.76	1711383.25	14343597.85	39°29'55.1888"N	80°44'54.3509"W	2218.07	134.768	0.46	-0.36	-0.29	
9580.00	88.710	161.140	6876.97	2085.46	-1651.91	1605.47	1711413.95	14343508.01	39°29'54.2997"N	80°44'53.9624"W	2303.55	135.817	0.17	0.17	0.01	
9674.00	88.550	161.930	6879.22	2179.42	-1741.05	1635.23	1711443.70	14343418.91	39°29'53.4179"N	80°44'53.5859"W	2388.56	136.795	0.86	-0.17	0.84	
9769.00	88.490	162.040	6881.68	2274.38	-1831.36	1664.60	1711473.06	14343328.64	39°29'52.5245"N	80°44'53.2145"W	2474.83	137.731	0.13	-0.06	0.12	
9864.00	88.550	161.940	6884.13	2369.33	-1921.67	1693.96	1711502.41	14343238.36	39°29'51.6311"N	80°44'52.8431"W	2561.71	138.604	0.12	0.06	-0.11	
9958.00	88.430	162.050	6886.61	2463.28	-2011.04	1723.01	1711531.45	14343149.03	39°29'50.7471"N	80°44'52.4758"W	2648.21	139.411	0.17	-0.13	0.12	
10053.00	88.520	162.110	6889.13	2558.23	-2101.40	1752.23	1711560.65	14343058.70	39°29'49.8532"N	80°44'52.1063"W	2736.09	140.177	0.11	0.09	0.06	
10148.00	88.370	161.120	6891.71	2653.19	-2191.52	1782.18	1711590.59	14342968.62	39°29'48.9617"N	80°44'51.7275"W	2824.70	140.881	1.05	-0.16	-1.04	
10242.00	89.630	162.020	6893.35	2747.16	-2280.68	1811.89	1711620.29	14342879.50	39°29'48.0797"N	80°44'51.3516"W	2912.81	141.535	1.65	1.34	0.96	
10337.00	89.690	162.340	6893.92	2842.14	-2371.12	1840.96	1711649.35	14342789.09	39°29'47.1850"N	80°44'50.9840"W	3001.89	142.174	0.34	0.06	0.34	
10431.00	89.450	161.670	6894.62	2936.12	-2460.52	1870.00	1711678.38	14342699.73	39°29'46.3007"N	80°44'50.6168"W	3090.48	142.765	0.76	-0.26	-0.71	
10526.00	89.450	159.270	6895.53	3031.11	-2550.04	1901.76	1711710.12	14342610.24	39°29'45.4150"N	80°44'50.2149"W	3181.10	143.285	2.53	0.00	-2.53	
10621.00	89.480	161.150	6896.42	3126.09	-2639.42	1933.92	1711742.27	14342520.89	39°29'44.5307"N	80°44'49.8079"W	3272.09	143.770	1.98	0.03	1.98	
10715.00	89.690	161.830	6897.10	3220.08	-2728.56	1963.76	1711772.10	14342431.79	39°29'43.6490"N	80°44'49.4304"W	3361.75	144.257	0.76	0.22	0.72	

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Actual Wellpath Report

Sapinero Unit 4H AWP Proj: 14181'
Page 6 of 10



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Sapinero Unit 4H
Field	Tyler	UWI	47-095-02945-0000
Facility	Delta Pad	Wellbore	Sapinero Unit 4H AWB
Slot	Slot D		

WELLPATH DATA (158 stations)																
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
10810.00	91.350	161.860	6896.24	3315.06	-2818.82	1993.36	1711801.69	14342341.57	39°29'42.7560"N	80°44'49.0561"W	3452.42	144.734	1.75	1.75	0.03	
10904.00	89.750	161.370	6895.34	3409.05	-2908.02	2023.00	1711831.32	14342252.41	39°29'41.8737"N	80°44'48.6812"W	3542.47	145.175	1.78	-1.70	-0.52	
10999.00	89.660	161.980	6895.83	3504.04	-2998.20	2052.87	1711861.18	14342162.26	39°29'40.9816"N	80°44'48.3034"W	3633.66	145.600	0.65	-0.09	0.64	
11093.00	90.980	162.580	6895.30	3598.01	-3087.73	2081.48	1711889.78	14342072.76	39°29'40.0958"N	80°44'47.9417"W	3723.80	146.016	1.54	1.40	0.64	
11187.00	90.090	162.480	6894.42	3691.97	-3177.39	2109.70	1711917.98	14341983.14	39°29'39.2089"N	80°44'47.5850"W	3814.01	146.417	0.95	-0.95	-0.11	
11282.00	88.890	161.360	6895.27	3786.95	-3267.69	2139.18	1711947.45	14341892.87	39°29'38.3156"N	80°44'47.2122"W	3905.63	146.789	1.73	-1.26	-1.18	
11376.00	89.570	161.420	6896.53	3880.94	-3356.77	2169.18	1711977.44	14341803.83	39°29'37.4344"N	80°44'46.8328"W	3996.65	147.129	0.73	0.72	0.06	
11471.00	90.370	160.860	6896.58	3975.94	-3446.67	2199.88	1712008.13	14341713.97	39°29'36.5451"N	80°44'46.4443"W	4088.89	147.451	1.03	0.84	-0.59	
11566.00	89.480	161.910	6896.71	4070.93	-3536.70	2230.21	1712038.44	14341623.97	39°29'35.6544"N	80°44'46.0607"W	4181.16	147.765	1.45	-0.94	1.11	
11660.00	89.750	161.840	6897.34	4164.92	-3626.03	2259.45	1712067.67	14341534.68	39°29'34.7707"N	80°44'45.6909"W	4272.38	148.072	0.30	0.29	-0.07	
11755.00	89.750	159.540	6897.75	4259.91	-3715.68	2290.86	1712099.07	14341445.06	39°29'33.8838"N	80°44'45.2935"W	4365.13	148.345	2.42	0.00	-2.42	
11849.00	89.880	161.330	6898.06	4353.90	-3804.25	2322.34	1712130.54	14341356.53	39°29'33.0076"N	80°44'44.8952"W	4457.08	148.598	1.91	0.14	1.90	
11944.00	90.150	164.560	6898.03	4448.83	-3895.06	2350.20	1712158.39	14341265.76	39°29'32.1093"N	80°44'44.5431"W	4549.17	148.894	3.41	0.28	3.40	
12039.00	89.750	159.170	6898.11	4543.78	-3985.31	2379.76	1712187.93	14341175.54	39°29'31.2165"N	80°44'44.1693"W	4641.76	149.157	5.69	-0.42	-5.67	
12133.00	89.660	161.620	6898.60	4637.77	-4073.85	2411.29	1712219.46	14341087.04	39°29'30.3405"N	80°44'43.7702"W	4733.98	149.379	2.61	-0.10	2.61	
12228.00	89.820	161.830	6899.03	4732.76	-4164.06	2441.08	1712249.24	14340996.86	39°29'29.4482"N	80°44'43.3935"W	4826.83	149.620	0.28	0.17	0.22	
12322.00	90.310	162.640	6898.92	4826.74	-4253.57	2469.76	1712277.90	14340907.38	39°29'28.5626"N	80°44'43.0309"W	4918.60	149.859	1.01	0.52	0.86	
12417.00	90.340	162.580	6898.38	4921.69	-4344.23	2498.16	1712306.29	14340816.76	39°29'27.6659"N	80°44'42.6721"W	5011.30	150.099	0.07	0.03	-0.06	
12511.00	90.250	161.810	6897.90	5015.67	-4433.72	2526.90	1712335.02	14340727.30	39°29'26.7805"N	80°44'42.3087"W	5103.25	150.320	0.82	-0.10	-0.82	
12606.00	90.150	161.630	6897.57	5110.66	-4523.93	2556.70	1712364.80	14340637.13	39°29'25.8882"N	80°44'41.9319"W	5196.41	150.527	0.22	-0.11	-0.19	
12700.00	90.000	160.490	6897.45	5204.66	-4612.84	2587.21	1712395.30	14340548.26	39°29'25.0086"N	80°44'41.5459"W	5288.85	150.713	1.22	-0.16	-1.21	
12795.00	90.180	159.210	6897.30	5299.64	-4702.02	2619.93	1712428.01	14340459.11	39°29'24.1263"N	80°44'41.1317"W	5382.66	150.874	1.36	0.19	-1.35	
12890.00	90.550	162.720	6896.69	5394.62	-4791.81	2650.91	1712458.98	14340369.36	39°29'23.2380"N	80°44'40.7399"W	5476.20	151.048	3.72	0.39	3.69	
12984.00	90.220	160.840	6896.06	5488.61	-4881.09	2680.30	1712488.36	14340280.11	39°29'22.3548"N	80°44'40.3682"W	5568.58	151.228	2.03	-0.35	-2.00	
13079.00	90.550	163.440	6895.42	5583.58	-4971.50	2709.43	1712517.48	14340189.74	39°29'21.4604"N	80°44'39.9999"W	5661.88	151.410	2.76	0.35	2.74	
13174.00	90.120	160.530	6894.87	5678.55	-5061.84	2738.81	1712546.84	14340099.44	39°29'20.5668"N	80°44'39.6285"W	5755.28	151.584	3.10	-0.45	-3.06	
13268.00	90.430	159.710	6894.41	5772.54	-5150.23	2770.77	1712578.79	14340011.08	39°29'19.6922"N	80°44'39.2240"W	5848.25	151.720	0.93	0.33	-0.87	
13363.00	90.180	159.210	6893.91	5867.50	-5239.19	2804.10	1712612.11	14339922.16	39°29'18.8121"N	80°44'38.8021"W	5942.40	151.844	0.59	-0.26	-0.53	
13458.00	90.220	158.770	6893.58	5962.45	-5327.87	2838.16	1712646.16	14339833.51	39°29'17.9346"N	80°44'38.3709"W	6036.67	151.956	0.47	0.04	-0.46	
13552.00	90.220	159.600	6893.22	6056.40	-5415.74	2871.57	1712679.55	14339745.68	39°29'17.0653"N	80°44'37.9481"W	6129.94	152.066	0.88	0.00	0.88	

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Page 7 of 10



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Field	Tyler	UWI	47-095-02945-0000
Facility	Delta Pad	Wellbore	Sapinero Unit 4H AWB
Slot	Slot D		

WELLPATH DATA (158 stations) † = interpolated, ‡ = extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
13647.00	90.090	159.390	6892.96	6151.37	-5504.72	2904.84	1712712.81	14339656.73	39°29'16.1849"N	80°44'37.5268"W	6224.15	152.179	0.26	-0.14	-0.22	
13741.00	90.430	159.540	6892.53	6245.34	-5592.74	2937.82	1712745.77	14339568.74	39°29'15.3140"N	80°44'37.1095"W	6317.40	152.287	0.40	0.36	0.16	
13836.00	92.150	161.320	6890.39	6340.30	-5682.23	2969.63	1712777.57	14339479.30	39°29'14.4288"N	80°44'36.7070"W	6411.43	152.408	2.61	1.81	1.87	
13930.00	90.150	158.920	6888.51	6434.26	-5770.60	3001.58	1712809.51	14339390.96	39°29'13.5545"N	80°44'36.3027"W	6504.56	152.519	3.32	-2.13	-2.55	
14025.00	90.250	159.780	6888.18	6529.22	-5859.49	3035.08	1712843.00	14339302.10	39°29'12.6749"N	80°44'35.8786"W	6598.89	152.617	0.91	0.11	0.91	
14120.00	90.370	159.890	6887.66	6624.20	-5948.67	3067.83	1712875.74	14339212.96	39°29'11.7927"N	80°44'35.4641"W	6693.15	152.719	0.17	0.13	0.12	
14156.00	90.220	159.430	6887.48	6660.19	-5982.42	3080.34	1712888.24	14339179.22	39°29'11.4587"N	80°44'35.3058"W	6728.89	152.756	1.34	-0.42	-1.28	
14181.00†	90.220	159.430	6887.38	6685.18	-6005.83	3089.13	1712897.02	14339155.82	39°29'11.2271"N	80°44'35.1946"W	6753.72	152.781	0.00	0.00	0.00	Projected MD at TD: 14181'

DIRECTIONAL DIFFICULTY INDEX

Directional Difficulty Index @ TD = 6.62				Reference: IADC/SPE 59196			
Values	Wellpath characterized as:			Values	Wellpath characterized as:		
< 6.0	Relatively short or simple profiles with low tortuosity			6.4-6.8	Longer with relatively tortuous well paths		
< 6.0-6.4	Shorter with high tortuosity or longer with lower tortuosity			> 6.8	Long tortuous profiles, high degree of difficulty		

HOLE & CASING SECTIONS - Ref Wellbore: Sapinero Unit 4H AWB Ref Wellpath: Sapinero Unit 4H AWP Proj: 14181'

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
20in Conductor	25.50	125.50	100.00	25.50	125.50	0.00	0.00	-0.28	-0.01
17 1/2in Open Hole	125.50	803.00	677.50	125.50	802.98	-0.28	-0.01	-2.51	-3.95
13 3/8in Casing Surface	25.50	783.00	757.50	25.50	782.98	0.00	0.00	-2.46	-3.77
12 1/4in Open Hole	803.00	3436.00	2633.00	802.98	3375.03	-2.51	-3.95	458.37	227.16
9 5/8in Casing Intermediate	25.50	3406.00	3380.50	25.50	3345.77	0.00	0.00	452.26	224.60
8 3/4in Open Hole	3436.00	6129.00	2693.00	3375.03	5993.47	458.37	227.16	1004.93	534.31
8 1/2in Open Hole	6129.00	14181.00	8052.00	5993.47	6887.38	1004.93	534.31	-6005.83	3089.13
5 1/2in Casing Production	25.50	14161.00	14135.50	25.50	6887.46	0.00	0.00	-5987.10	3082.10

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Actual Wellpath Report

Sapinero Unit 4H AWP Proj: 14181'
Page 8 of 10



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Sapinero Unit 4H
Field	Tyler	UWI	47-095-02945-0000
Facility	Delta Pad	Wellbore	Sapinero Unit 4H AWB
Slot	Slot D		

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Sapinero Unit 4H POE Rev-3	6837.00	585.43	811.23	1710620.03	14345744.47	39°30'16.4339"N	80°45'4.0151"W	point
Sapinero Unit 4H POE Rev-1	6844.00	585.43	811.23	1710620.03	14345744.47	39°30'16.4339"N	80°45'4.0151"W	point
Sapinero Unit 4H POE Rev-2	6864.00	585.43	811.23	1710620.03	14345744.47	39°30'16.4339"N	80°45'4.0151"W	point
Sapinero Unit 4H LP Rev-3	6865.00	401.50	874.73	1710683.50	14345560.61	39°30'14.6143"N	80°45'3.2115"W	point
Sapinero Unit 4H BHL Rev-1	6870.00	-9885.22	4423.45	1714230.82	14335277.97	39°28'32.8478"N	80°44'18.3200"W	point
Sapinero Unit 4H BHL Short	6870.00	-6037.73	3096.13	1712904.02	14339123.93	39°29'10.9116"N	80°44'35.1065"W	point
Sapinero Unit 4H BHL Rev-2	6891.00	-9791.20	4393.58	1714200.96	14335371.96	39°28'33.7779"N	80°44'18.6974"W	point
Sapinero Unit 4H LP Rev-2	6891.00	401.30	874.80	1710683.57	14345560.41	39°30'14.6123"N	80°45'3.2107"W	point

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Actual Wellpath Report

Sapinero Unit 4H AWP Proj: 14181'

Page 9 of 10



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Sapinero Unit 4H
Field	Tyler	UWI	47-095-02945-0000
Facility	Delta Pad	Wellbore	Sapinero Unit 4H AWB
Slot	Slot D		

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Sapinero Unit 4H BHL Rev-3	6900.65	-6034.54	3096.66	1712904.55	14339127.12	39°29'10.9432"N	80°44'35.0996"W	point
Sapinero Unit 4H 50' L/R Hard Line	7000.00	-4602.88	2602.41	1712410.50	14340558.21	39°29'25.1066"N	80°44'41.3517"W	rectangle
	2D Rectangle: 10977.6 x 100.							
Sapinero Unit 4H 50' L/R Hard Line R-2	7000.00	-2724.55	1953.95	1711762.29	14342435.80	39°29'43.6888"N	80°44'49.5555"W	rectangle
	2D Rectangle: 7003.37 x 100.							

WELLPATH COMPOSITION - Ref Wellbore: Sapinero Unit 4H AWB Ref Wellpath: Sapinero Unit 4H AWP Proj: 14181'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
25.50	800.00	Gyrodata 2015 - GC+WMR+DPIPE	01_Gyrodata MS Gyro <17-1/2"> (100'-800')	Sapinero Unit 4H AWB	2025-09-23
800.00	917.00	Gyrodata 2015 - GC+WMR+DPIPE	02_Gyrodata MS Gyro <12-1/4"> (800')(900'-917')	Sapinero Unit 4H AWB	2025-09-25
917.00	3360.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03_APS EM <12-1/4"> (917')(1042'-3360')	Sapinero Unit 4H AWB	2025-09-23
3360.00	6049.00	BH NaviTrak (2019) (Axial Corr+HRGM)	04_APS EM <8-3/4"> (3360')(3496'-6049')	Sapinero Unit 4H AWB	2025-10-27
6049.00	14181.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	05_BH Lucida <8-1/2"> (6049')(6104'-14156')	Sapinero Unit 4H AWB	2025-10-27

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Actual Wellpath Report

Sapinero Unit 4H AWP Proj: 14181'
Page 10 of 10



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Sapinero Unit 4H
Field	Tyler	UWI	47-095-02945-0000
Facility	Delta Pad	Wellbore	Sapinero Unit 4H AWB
Slot	Slot D		

COMMENTS

Wellpath general comments

API: 47-095-02945-0000

BH Job #: 112820260

Rig: H&P 317

Duration: 10/28/2025-10/30/2025

Gyrodata MS Gyro <17-1/2"> (100'-800')

Gyrodata MS Gyro <12-1/4"> (800')(900'-917')

APS EM <12-1/4"> (917')(1042'-3360')

APS EM <8-3/4"> (3360')(3496'-6049')

BH Lucida <8-1/2"> (6049')(6104'-14156')

Sycamore: 6668' MD

Middlesex: 6824' MD

Burkett: 6990' MD

Tully: 7062' MD

Marcellus POE: 7252' MD

Projected MD at TD: 14181'

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