





# Actual Wellpath Report

Edgar Unit 1H AWP Proj: 16597

Page 1 of 11



## REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot #03	Edgar Unit 1H
Area	Doddridge Co., WV	Well	Edgar Unit 1H AWB
Field	Doddridge	Wellbore	Edgar Unit 1H AWB
Facility	Alexander Pad		

## REPORT SETUP INFORMATION

Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect® 5.1
North Reference	Grid	User	Delaset
Scale	0.999605	Report Generated	31/Jul/2018 at 14:20
Convergence at slot	0.14° East	Database/Source file	WA_MPL_EasternUS_Defn/Edgar_Unit_1H_AWP_Proj_16597_.xml

## WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	18.19	-7.90	1703900.96	14284281.51	39°20'08.900"N	80°46'31.720"W
Facility Reference Pt			1703908.86	14284263.32	39°20'08.720"N	80°46'31.620"W
Field Reference Pt			0.00	0.00	0°00'00.000"	85°29'19.301"W

## WELLPATH DATUM

Calculation method	Minimum curvature	Patterson 342 (RKB) to Facility Vertical Datum	25.00ft
Horizontal Reference Pt	Slot	Patterson 342 (RKB) to Mean Sea Level	1206.00ft
Vertical Reference Pt	Patterson 342 (RKB)	Patterson 342 (RKB) to Ground Level at Slot (Slot #03)	25.00ft
MD Reference Pt	Patterson 342 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	337.94°





# Actual Wellpath Report

Edgar Unit 1H AWP Proj: 16597

Page 2 of 11



05/03/2019

REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #03
Area	Doddridge Co., WV	Well	Edgar Unit 1H
Field	Doddridge	Wellbore	Edgar Unit 1H AWB
Facility	Alexander Pad		

WELLPATH DATA (207 stations) † = interpolated/extrapolated station																
MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	Grid East (ft)	Grid North (ft)	Latitude	Longitude	Closure Dist (ft)	Closure Dir (°)	DLS (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Comments
0.00	0.00	231.560	0.00	0.00	0.00	0.00	1703900.96	14284281.51	39°20'08.900"N	80°46'31.720"W	0.00	0.000	0.00	0.00	0.00	
25.00	0.00	231.560	25.00	0.00	0.00	0.00	1703900.96	14284281.51	39°20'08.900"N	80°46'31.720"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.560	231.560	100.00	-0.10	-0.23	-0.29	1703900.67	14284281.28	39°20'08.896"N	80°46'31.724"W	0.37	231.560	0.75	-171.25	Gyrodata MS Gyro <17-1/2"> (100'-546')	
125.00	0.600	230.200	125.00	-0.18	-0.39	-0.48	1703900.47	14284281.12	39°20'08.896"N	80°46'31.726"W	0.62	231.273	0.17	0.16	-5.44	
150.00	0.220	265.280	150.00	-0.20	-0.48	-0.63	1703900.32	14284281.03	39°20'08.895"N	80°46'31.728"W	0.79	233.041	1.75	-1.52	140.32	
175.00	0.260	299.050	175.00	-0.14	-0.45	-0.73	1703900.23	14284281.06	39°20'08.896"N	80°46'31.729"W	0.86	238.220	0.58	0.16	135.08	
200.00	0.330	281.200	200.00	0.02	-0.38	-0.99	1703900.11	14284281.10	39°20'08.896"N	80°46'31.731"W	0.94	244.221	0.46	0.28	-71.40	
225.00	0.320	286.340	225.00	0.02	-0.38	-0.99	1703900.11	14284281.13	39°20'08.896"N	80°46'31.733"W	1.06	249.115	0.12	-0.04	20.56	
250.00	0.310	286.520	250.00	0.11	-0.34	-1.12	1703899.84	14284281.17	39°20'08.897"N	80°46'31.734"W	1.17	253.203	0.04	-0.04	0.72	
275.00	0.370	273.750	275.00	0.18	-0.31	-1.26	1703899.69	14284281.19	39°20'08.897"N	80°46'31.736"W	1.30	256.085	0.39	0.24	-51.08	
300.00	0.370	260.670	299.99	0.24	-0.32	-1.42	1703899.53	14284281.19	39°20'08.897"N	80°46'31.738"W	1.48	257.299	0.34	0.00	-52.32	
325.00	0.330	268.750	324.99	0.28	-0.34	-1.58	1703899.38	14284281.17	39°20'08.897"N	80°46'31.740"W	1.61	257.976	0.25	-0.16	32.32	
350.00	0.210	294.390	349.99	0.34	-0.32	-1.69	1703899.27	14284281.19	39°20'08.897"N	80°46'31.742"W	1.72	259.331	0.67	-0.48	102.56	
375.00	0.200	244.880	374.99	0.37	-0.32	-1.77	1703899.19	14284281.19	39°20'08.897"N	80°46'31.743"W	1.80	259.822	0.69	-0.04	-198.04	
400.00	0.210	262.790	399.99	0.38	-0.34	-1.86	1703899.10	14284281.16	39°20'08.897"N	80°46'31.744"W	1.89	259.563	0.26	0.04	71.64	
425.00	0.230	260.720	424.99	0.40	-0.36	-1.95	1703899.01	14284281.15	39°20'08.897"N	80°46'31.745"W	1.98	259.657	0.09	0.08	-8.28	
450.00	0.300	257.770	449.99	0.43	-0.38	-2.06	1703898.89	14284281.13	39°20'08.896"N	80°46'31.746"W	2.10	259.624	0.29	0.28	-11.80	
475.00	0.380	268.430	474.99	0.47	-0.39	-2.21	1703898.75	14284281.11	39°20'08.896"N	80°46'31.748"W	2.25	259.893	0.41	0.32	42.64	
500.00	0.480	280.050	499.99	0.55	-0.38	-2.40	1703898.56	14284281.13	39°20'08.896"N	80°46'31.751"W	2.43	261.036	0.53	0.40	46.48	
525.00	0.510	279.610	524.99	0.66	-0.34	-2.61	1703898.35	14284281.17	39°20'08.897"N	80°46'31.753"W	2.63	262.550	0.12	0.12	-1.76	
546.00	0.590	281.290	545.99	0.77	-0.30	-2.81	1703898.15	14284281.20	39°20'08.897"N	80°46'31.756"W	2.82	263.811	0.39	0.38	8.00	
623.00	0.510	290.360	622.99	1.22	-0.11	-3.52	1703897.44	14284281.40	39°20'08.899"N	80°46'31.765"W	3.62	268.247	0.15	-0.10	11.78 Gyrodata MS Gyro <12-1/4"> (546')(623'-623')	
828.00	0.490	292.460	827.98	2.45	0.54	-5.18	1703895.77	14284282.05	39°20'08.906"N	80°46'31.786"W	5.21	275.998	0.01	-0.01	1.02 WFT EM <12-1/4"> (623')(828'-2508')	
922.00	0.580	279.940	921.97	2.99	0.78	-6.02	1703894.93	14284282.29	39°20'08.908"N	80°46'31.797"W	6.07	277.381	0.16	0.10	-13.32	
1017.00	1.210	338.310	1016.96	4.24	1.80	-6.87	1703894.09	14284283.30	39°20'08.918"N	80°46'31.807"W	7.10	284.650	1.09	0.66	61.44	
1112.00	2.520	342.260	1111.91	7.33	4.72	-7.88	1703893.08	14284286.22	39°20'08.947"N	80°46'31.820"W	9.18	300.919	1.38	1.38	4.16	
1206.00	3.330	339.970	1205.79	12.12	9.25	-9.44	1703891.52	14284290.75	39°20'08.992"N	80°46'31.840"W	13.22	314.417	0.87	0.86	-2.44	
1300.00	3.650	339.380	1299.61	17.85	14.62	-11.43	1703889.53	14284296.12	39°20'09.045"N	80°46'31.865"W	18.56	321.983	0.35	0.35	-0.63	
1394.00	3.050	326.530	1393.45	23.30	19.52	-13.87	1703887.09	14284301.02	39°20'09.093"N	80°46'31.896"W	23.94	324.605	1.03	-0.65	-13.67	
1489.00	1.310	287.350	1488.39	26.46	21.95	-16.30	1703884.66	14284303.45	39°20'09.117"N	80°46'31.927"W	27.34	323.405	2.31	-1.83	-41.24	





# Actual Wellpath Report

Edgar Unit 1H AWP Proj: 16597

Page 3 of 11



05/03/2019

## REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #03
Area	Doddridge Co., WV	Well	Edgar Unit 1H
Field	Doddridge	Wellbore	Edgar Unit 1H AWB
Facility	Alexander Pad		

## WELLPATH DATA (207 stations)

MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	Grid East (ft)	Grid North (ft)	Latitude	Longitude	Closure Dir (ft)	DLS (ft/100ft)	Build Rate (ft/100ft)	Turn Rate (ft/100ft)	Comments
1583.00	0.980	144.570	1582.38	26.36	21.62	-16.86	1703884.10	14284303.11	39°20'09.114"N	80°46'31.934"W	27.41	322.049	2.31	-0.35	-151.89
1677.00	1.840	124.130	1676.35	24.33	20.11	-15.14	1703885.82	14284301.61	39°20'09.099"N	80°46'31.912"W	25.18	323.025	1.05	0.91	-21.74
1772.00	1.020	123.780	1771.32	22.36	18.79	-13.18	1703887.78	14284300.29	39°20'09.086"N	80°46'31.887"W	22.95	324.954	0.86	-0.86	-0.37
1866.00	0.390	249.890	1865.31	21.68	18.21	-12.78	1703888.18	14284299.71	39°20'09.080"N	80°46'31.862"W	22.25	324.937	1.37	-0.67	134.16
1960.00	1.240	288.600	1959.30	22.35	18.43	-14.05	1703886.91	14284299.93	39°20'09.082"N	80°46'31.898"W	23.17	322.681	1.03	0.90	41.18
2055.00	0.690	297.160	2054.29	23.46	19.02	-15.53	1703885.43	14284300.51	39°20'09.088"N	80°46'31.917"W	24.55	320.762	0.60	-0.58	9.01
2149.00	0.140	302.590	2148.29	23.98	19.34	-16.13	1703884.79	14284300.84	39°20'09.092"N	80°46'31.925"W	25.18	320.165	0.59	-0.59	5.78
2243.00	0.070	100.120	2242.29	24.04	19.39	-16.17	1703884.79	14284300.89	39°20'09.092"N	80°46'31.925"W	25.25	320.170	0.22	-0.07	167.59
2338.00	0.400	113.720	2337.29	23.77	19.24	-15.81	1703885.15	14284300.74	39°20'09.091"N	80°46'31.921"W	24.91	320.595	0.35	0.35	14.32
2432.00	0.230	116.530	2431.28	23.40	19.03	-15.34	1703885.62	14284300.53	39°20'09.088"N	80°46'31.915"W	24.44	321.123	0.18	-0.18	2.99
2508.00	0.200	78.470	2507.28	23.26	18.99	-15.07	1703885.89	14284300.49	39°20'09.088"N	80°46'31.911"W	24.24	321.552	0.19	-0.04	-50.08
2661.00	2.040	121.740	2660.25	21.01	17.61	-12.50	1703888.46	14284299.11	39°20'09.074"N	80°46'31.878"W	21.59	324.635	1.24	1.20	28.28 WFT EM <8.3/4> (2661'-6.441')
2756.00	4.860	130.140	2755.07	16.09	14.12	-7.98	1703892.98	14284295.62	39°20'09.040"N	80°46'31.821"W	16.22	330.528	3.01	2.97	8.84
2850.00	6.450	129.100	2848.61	7.94	8.23	-0.84	1703900.12	14284289.73	39°20'08.981"N	80°46'31.730"W	8.27	354.175	1.69	1.69	-1.11
2944.00	6.580	126.930	2942.00	-1.30	1.66	7.56	1703908.52	14284283.17	39°20'08.916"N	80°46'31.624"W	7.74	77.627	0.30	0.14	-2.31
3039.00	6.320	133.780	3036.40	-10.74	-5.23	15.69	1703916.64	14284276.28	39°20'08.848"N	80°46'31.520"W	16.54	108.432	0.85	-0.27	7.21
3133.00	6.210	133.420	3129.84	-20.09	-12.30	23.12	1703924.06	14284269.21	39°20'08.778"N	80°46'31.426"W	26.19	118.022	0.12	-0.12	-0.38
3233.00	7.780	130.010	3229.09	-30.99	-20.37	32.23	1703933.17	14284261.14	39°20'08.698"N	80°46'31.310"W	38.13	122.296	1.62	1.57	-3.41
3327.00	7.990	129.840	3322.20	-42.37	-28.65	42.12	1703942.06	14284252.87	39°20'08.616"N	80°46'31.185"W	50.94	124.222	0.22	0.22	-0.18
3422.00	7.540	129.330	3416.33	-53.67	-36.83	52.01	1703952.95	14284244.69	39°20'08.535"N	80°46'31.059"W	63.73	125.302	0.48	-0.47	-0.54
3516.00	9.000	127.700	3509.35	-65.43	-45.23	62.60	1703963.53	14284236.29	39°20'08.451"N	80°46'30.925"W	77.23	125.852	1.57	1.55	-1.73
3610.00	9.090	125.740	3602.18	-78.07	-54.07	74.44	1703975.37	14284227.46	39°20'08.364"N	80°46'30.774"W	92.01	125.990	0.34	0.10	-2.09
3705.00	9.010	124.360	3696.00	-90.62	-62.65	86.68	1703987.60	14284218.88	39°20'08.279"N	80°46'30.619"W	106.95	125.859	0.24	-0.08	-1.45
3800.00	8.670	121.730	3789.87	-102.59	-70.61	98.91	1703999.82	14284210.92	39°20'08.200"N	80°46'30.463"W	121.53	125.524	0.56	-0.36	-2.77
3895.00	8.230	127.620	3883.84	-114.24	-78.53	110.38	1704011.30	14284203.01	39°20'08.121"N	80°46'30.318"W	135.47	125.429	1.02	-0.46	6.20
3989.00	8.330	126.890	3976.86	-125.88	-86.72	121.16	1704022.07	14284194.82	39°20'08.040"N	80°46'30.181"W	149.00	125.595	0.15	0.11	-0.78
4084.00	8.320	126.660	4070.86	-137.65	-94.96	132.18	1704033.08	14284186.59	39°20'07.958"N	80°46'30.041"W	162.75	125.695	0.04	-0.01	-0.24
4178.00	8.870	126.220	4163.81	-149.63	-103.30	143.48	1704044.38	14284178.25	39°20'07.875"N	80°46'29.897"W	176.80	125.753	0.59	0.59	-0.47
4272.00	9.130	125.950	4256.65	-162.12	-111.96	155.36	1704056.26	14284169.59	39°20'07.790"N	80°46'29.746"W	191.50	125.779	0.28	0.28	-0.29
4366.00	9.200	124.250	4349.45	-174.69	-120.57	167.61	1704068.50	14284160.98	39°20'07.704"N	80°46'29.591"W	206.47	125.729	0.30	0.07	-1.81





# Actual Wellpath Report

Edgar Unit 1H AWP Proj: 16597

Page 4 of 11



05/03/2019

REFERENCE WELLPATH IDENTIFICATION		Slot	Slot #03
Operator	ANTERO RESOURCES CORPORATION	Well	Edgar Unit 1H
Area	Doddridge Co., WV	Wellbore	Edgar Unit 1H AWB
Field	Doddridge		
Facility	Alexander Pad		

WELLPATH DATA (207 stations)																
MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	VertSect (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
4460.00	8.600	129.650	4442.32	-187.14	-129.28	179.23	1704030.12	14284152.27	39°20'07.618"N	80°46'29.443"W	221.00	125.803	1.09	-0.64	5.74	
4555.00	8.570	132.190	4536.25	-199.77	-138.57	189.95	1704030.83	14284142.99	39°20'07.526"N	80°46'29.307"W	235.12	126.111	0.40	-0.03	2.67	
4649.00	8.750	129.820	4629.18	-212.38	-147.85	200.63	1704101.50	14284133.71	39°20'07.434"N	80°46'29.171"W	249.22	126.388	0.43	0.19	-2.52	
4743.00	8.780	127.080	4722.09	-224.84	-156.76	211.84	1704112.71	14284124.81	39°20'07.345"N	80°46'29.029"W	263.53	126.500	0.45	0.03	-2.91	
4837.00	8.780	125.890	4814.98	-237.08	-165.29	223.38	1704124.25	14284116.28	39°20'07.261"N	80°46'28.882"W	277.88	126.499	0.19	0.00	-1.27	
4931.00	8.840	123.640	4907.88	-249.13	-173.49	235.20	1704136.07	14284108.08	39°20'07.179"N	80°46'28.732"W	292.27	126.414	0.37	0.06	-2.39	
5026.00	8.560	127.200	5001.78	-261.24	-181.81	246.91	1704147.77	14284099.77	39°20'07.097"N	80°46'28.583"W	306.63	126.366	0.64	-0.29	3.75	
5121.00	8.780	126.110	5095.70	-273.47	-190.36	258.40	1704159.26	14284091.22	39°20'07.012"N	80°46'28.437"W	320.95	126.379	0.29	0.23	-1.15	
5215.00	9.180	123.820	5188.55	-285.78	-198.76	270.43	1704171.28	14284082.82	39°20'06.929"N	80°46'28.285"W	335.62	126.316	0.57	0.43	-2.44	
5308.00	8.820	131.690	5280.40	-298.31	-207.63	281.92	1704182.76	14284073.96	39°20'06.841"N	80°46'28.139"W	350.13	126.372	1.38	-0.39	8.46	
5403.00	9.090	130.940	5374.25	-311.53	-217.40	293.02	1704193.86	14284064.20	39°20'06.744"N	80°46'27.998"W	364.86	126.572	0.31	0.28	-0.79	
5497.00	9.720	127.980	5466.98	-325.02	-227.14	304.89	1704205.72	14284054.45	39°20'06.647"N	80°46'27.847"W	380.20	126.687	0.84	0.67	-3.15	
5592.00	9.080	124.370	5560.71	-338.22	-236.31	317.40	1704218.23	14284045.23	39°20'06.557"N	80°46'27.688"W	395.71	126.669	0.92	-0.67	-3.80	
5686.00	8.130	128.660	5653.65	-350.20	-244.65	328.71	1704229.53	14284036.95	39°20'06.474"N	80°46'27.544"W	409.76	126.660	1.22	-1.01	4.56	
5781.00	8.680	128.280	5747.63	-362.28	-253.29	339.58	1704240.40	14284028.32	39°20'06.388"N	80°46'27.406"W	423.64	126.719	0.58	0.88	-0.40	
5875.00	9.810	127.390	5840.41	-375.34	-262.55	351.51	1704252.33	14284019.07	39°20'06.296"N	80°46'27.255"W	438.74	126.756	1.21	1.20	-0.95	
5969.00	9.260	124.390	5933.11	-388.54	-271.68	364.12	1704264.93	14284009.93	39°20'06.206"N	80°46'27.095"W	454.30	126.728	0.79	-0.59	-3.19	
6063.00	9.760	122.760	6025.82	-401.36	-280.26	377.06	1704277.86	14284001.36	39°20'06.121"N	80°46'26.930"W	469.81	126.623	0.60	0.53	-1.73	
6110.00	10.650	102.980	6072.09	-407.11	-283.40	384.64	1704285.45	14283998.22	39°20'06.030"N	80°46'26.834"W	477.77	126.382	7.65	1.89	-42.09	
6158.00	11.710	79.880	6119.20	-410.67	-283.54	393.76	1704294.56	14283998.08	39°20'06.088"N	80°46'26.718"W	485.22	125.756	9.52	2.21	-48.13	
6203.00	13.470	61.490	6163.13	-411.02	-280.23	402.87	1704303.67	14284001.39	39°20'06.120"N	80°46'26.602"W	490.75	124.822	9.68	3.91	-40.87	
6252.00	13.830	43.520	6210.77	-407.96	-273.26	411.92	1704312.71	14284008.36	39°20'06.189"N	80°46'26.486"W	494.32	123.559	8.65	0.73	-36.67	
6299.00	12.890	23.170	6256.52	-401.94	-264.36	417.86	1704322.45	14284017.25	39°20'06.277"N	80°46'26.410"W	494.46	122.320	10.15	-2.00	-43.30	
6346.00	16.240	15.410	6302.01	-393.03	-253.20	421.67	1704332.45	14284028.41	39°20'06.387"N	80°46'26.362"W	491.85	120.984	8.23	7.13	-16.51	
6393.00	21.430	11.880	6346.48	-380.68	-238.45	425.18	1704335.97	14284043.15	39°20'06.533"N	80°46'26.316"W	487.48	119.285	11.30	11.04	-7.51	
6441.00	25.990	6.770	6390.42	-364.18	-219.41	428.23	1704329.02	14284062.18	39°20'06.721"N	80°46'26.277"W	481.17	117.129	10.41	9.50	-10.65	
6491.00	29.620	358.670	6434.66	-343.02	-196.17	429.23	1704330.02	14284085.42	39°20'06.951"N	80°46'26.263"W	471.94	114.561	10.46	7.26	-16.20	BHI AT Curve <8-1/2"> (6441)-(6491)-(16566)
6554.00	32.500	351.070	6488.64	-311.95	-163.86	426.24	1704327.03	14284117.71	39°20'07.270"N	80°46'26.300"W	456.66	111.028	7.71	4.57	-12.06	
6601.00	35.000	345.260	6527.73	-286.28	-138.34	420.85	1704316.24	14284143.22	39°20'07.522"N	80°46'26.368"W	443.01	108.197	8.68	5.32	-12.36	
6649.00	36.020	344.170	6566.80	-258.59	-111.45	413.50	1704314.60	14284170.10	39°20'07.788"N	80°46'26.461"W	428.26	105.084	2.50	2.12	-2.27	





# Actual Wellpath Report

Edgar Unit 1H AWP Proj: 16597  
Page 5 of 11



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #03
Area	Doddridge Co., WV	Well	Edgar Unit 1H
Field	Doddridge	Wellbore	Edgar Unit 1H AWB
Facility	Alexander Pad		

WELLPATH DATA (207 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
6696.00	36.780	345.100	6604.63	-230.89	-84.56	406.11	1704306.91	14284196.98	39°20'08.054"N	80°46'26.554"W	414.82	101.762	2.00	1.62	1.98	
6743.00	40.470	344.730	6641.34	-201.78	-56.24	398.47	1704299.27	14284225.29	39°20'08.334"N	80°46'26.650"W	402.42	98.033	7.87	7.85	-0.79	
6790.00	44.350	344.510	6676.04	-170.30	-25.68	390.07	1704290.87	14284255.84	39°20'08.637"N	80°46'26.757"W	390.91	93.766	8.26	8.26	-0.47	
6837.00	48.230	342.530	6708.51	-136.49	6.88	380.41	1704281.22	14284288.39	39°20'08.959"N	80°46'26.878"W	380.48	88.963	8.80	8.26	-4.21	
6884.00	52.970	340.460	6738.33	-100.26	41.31	368.87	1704269.68	14284322.80	39°20'09.299"N	80°46'27.024"W	371.18	83.611	10.64	10.09	-4.40	
6931.00	56.570	338.870	6765.44	-61.89	77.29	355.52	1704256.33	14284358.77	39°20'09.655"N	80°46'27.193"W	363.83	77.734	8.14	7.66	-3.38	
6938.00†	56.962	338.785	6769.28	-56.04	82.75	353.41	1704254.22	14284364.23	39°20'09.709"N	80°46'27.220"W	362.96	76.821	5.69	5.59	-1.22	Burkett: 6938' MD
6978.00	59.200	338.310	6790.43	-22.09	114.35	340.99	1704241.81	14284395.81	39°20'10.022"N	80°46'27.377"W	359.65	71.461	5.69	5.60	-1.19	
6997.00†	60.440	337.816	6799.98	-5.67	129.58	334.85	1704235.67	14284411.04	39°20'10.173"N	80°46'27.454"W	359.05	68.844	6.53	6.53	-2.60	Tully: 6997' MD
7025.00	62.270	337.110	6813.40	18.91	152.28	325.43	1704226.26	14284433.72	39°20'10.397"N	80°46'27.573"W	359.30	64.924	6.90	6.54	-2.52	
7072.00	67.110	335.750	6833.49	61.36	191.21	308.44	1704209.27	14284472.64	39°20'10.782"N	80°46'27.788"W	362.90	58.205	10.62	10.30	-2.89	
7083.00†	68.215	335.875	6837.67	71.53	200.48	304.25	1704205.09	14284481.91	39°20'10.874"N	80°46'27.841"W	364.37	56.618	10.06	10.04	-0.68	Hamilton: 7083' MD
7110.00†	70.926	335.495	6847.09	96.81	223.52	293.80	1704194.64	14284504.93	39°20'11.102"N	80°46'27.974"W	369.16	52.737	10.06	10.04	-0.67	Marcellus POE: 7110' MD
7120.00	71.930	335.430	6850.28	106.28	232.14	289.86	1704190.70	14284513.55	39°20'11.187"N	80°46'28.024"W	371.36	51.310	10.06	10.04	-0.65	
7167.00	75.830	337.260	6863.33	151.40	273.49	271.75	1704172.60	14284554.89	39°20'11.596"N	80°46'28.253"W	385.55	44.818	9.10	8.30	3.89	
7214.00	79.050	338.110	6873.55	197.27	315.92	254.34	1704155.19	14284597.31	39°20'12.016"N	80°46'28.473"W	405.58	38.836	7.07	6.85	1.81	
7261.00	82.850	338.970	6880.94	243.68	359.11	237.36	1704138.23	14284640.48	39°20'12.444"N	80°46'28.688"W	430.47	33.484	8.28	8.09	1.83	
7309.00	87.850	339.430	6884.83	291.49	403.82	220.38	1704121.25	14284685.17	39°20'12.886"N	80°46'28.902"W	460.04	28.623	10.46	10.42	0.96	
7403.00	90.460	342.440	6886.21	385.33	492.64	189.69	1704090.57	14284773.95	39°20'13.764"N	80°46'29.290"W	527.90	21.059	4.24	2.78	3.20	
7498.00	90.310	339.470	6885.58	480.19	582.43	158.69	1704059.58	14284863.70	39°20'14.653"N	80°46'29.682"W	603.66	15.241	3.13	-0.16	-3.13	
7592.00	90.220	336.810	6885.14	574.18	669.66	123.70	1704024.60	14284950.90	39°20'15.516"N	80°46'30.125"W	680.99	10.465	2.83	-0.10	-2.83	
7686.00	90.950	337.390	6884.18	668.16	756.25	87.12	1703988.04	14285037.45	39°20'16.372"N	80°46'30.587"W	761.25	6.572	0.99	0.78	0.62	
7781.00	90.890	338.800	6882.66	763.15	844.37	51.68	1703952.62	14285125.55	39°20'17.244"N	80°46'31.036"W	845.95	3.503	1.49	-0.06	1.48	
7876.00	90.680	340.960	6881.35	858.08	933.56	19.01	1703919.96	14285214.70	39°20'18.127"N	80°46'31.449"W	933.76	1.167	2.28	-0.22	2.27	
7971.00	90.710	342.700	6880.20	952.85	1023.82	-10.61	1703890.35	14285304.92	39°20'19.019"N	80°46'31.823"W	1023.87	359.406	1.83	0.03	1.83	
8065.00	90.580	343.900	6879.14	1046.43	1113.84	-37.62	1703863.35	14285394.91	39°20'19.910"N	80°46'32.164"W	1114.48	358.066	1.28	-0.14	1.28	
8160.00	90.460	343.560	6878.28	1140.94	1205.04	-64.24	1703836.75	14285486.06	39°20'20.812"N	80°46'32.499"W	1206.75	356.949	0.38	-0.13	-0.36	
8254.00	90.580	340.920	6877.43	1234.66	1294.54	-92.90	1703808.09	14285575.54	39°20'21.697"N	80°46'32.862"W	1297.87	355.895	2.81	0.13	-2.81	
8348.00	90.430	338.770	6876.60	1328.60	1382.78	-125.29	1703775.72	14285663.74	39°20'22.570"N	80°46'33.271"W	1388.44	354.823	2.29	-0.16	-2.29	
8444.00	90.400	337.800	6875.90	1424.60	1471.96	-160.81	1703740.21	14285752.89	39°20'23.452"N	80°46'33.720"W	1480.72	353.765	1.01	-0.03	-1.01	





# Actual Wellpath Report

Edgar Unit 1H AWP Proj: 16597

Page 6 of 11



05/03/2019

## REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #03
Area	Doddridge Co., WV	Well	Edgar Unit 1H
Field	Doddridge	Wellbore	Edgar Unit 1H AWB
Facility	Alexander Pad		

## WELLPATH DATA (207 stations)

MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	Grid East (ft)	Grid North (ft)	Latitude	Longitude	Closure Dist (ft)	Closure Dir (°)	DLS (ft/100ft)	Build Rate (ft/100ft)	Turn Rate (ft/100ft)	Comments
8538.00	90.430	335.180	6875.22	1518.56	1558.15	-198.30	1703702.73	14285839.04	39°20'24.305"N	80°46'34.195"W	1570.72	352.747	2.79	0.03	-2.79	
8633.00	90.370	331.650	6874.56	1613.24	1643.09	-240.81	1703660.24	14285923.94	39°20'25.146"N	80°46'34.733"W	1660.64	351.662	3.72	-0.06	-3.72	
8729.00	90.310	329.600	6873.99	1708.46	1726.74	-287.89	1703613.18	14286007.56	39°20'25.973"N	80°46'35.330"W	1750.58	350.534	2.14	-0.06	-2.14	
8824.00	89.820	329.780	6873.88	1802.47	1808.76	-335.84	1703565.25	14286089.54	39°20'26.785"N	80°46'35.937"W	1839.67	349.481	0.55	-0.92	0.19	
8919.00	90.280	335.580	6873.80	1897.03	1893.12	-379.42	1703521.69	14286173.88	39°20'27.620"N	80°46'36.489"W	1930.77	348.667	6.12	0.48	6.11	
9014.00	90.340	335.890	6873.29	1991.96	1979.73	-418.46	1703482.66	14286260.45	39°20'28.477"N	80°46'36.984"W	2023.47	348.065	0.33	0.06	0.33	
9109.00	90.250	332.850	6872.80	2086.76	2065.37	-459.55	1703441.59	14286346.06	39°20'29.325"N	80°46'37.504"W	2115.88	347.456	3.20	-0.09	-3.20	
9204.00	90.340	332.370	6872.31	2181.35	2149.72	-503.25	1703397.94	14286430.37	39°20'30.159"N	80°46'38.057"W	2207.84	346.824	0.51	0.09	-0.51	
9299.00	90.370	334.620	6871.72	2276.06	2234.73	-545.65	1703355.53	14286515.35	39°20'31.001"N	80°46'38.594"W	2300.38	346.279	2.37	0.03	2.37	
9394.00	90.490	338.300	6871.01	2371.01	2321.80	-583.58	1703317.61	14286602.39	39°20'31.862"N	80°46'39.074"W	2394.02	345.891	3.88	0.13	3.87	
9488.00	89.660	339.770	6870.88	2464.99	2409.58	-617.21	1703283.99	14286680.13	39°20'32.730"N	80°46'39.500"W	2487.37	345.633	1.80	-0.88	1.56	
9583.00	90.120	340.160	6871.06	2559.93	2498.83	-649.76	1703251.46	14286767.34	39°20'33.613"N	80°46'39.911"W	2581.92	345.424	0.63	0.48	0.41	
9678.00	90.060	341.280	6870.91	2654.81	2588.50	-681.13	1703220.10	14286856.98	39°20'34.500"N	80°46'40.308"W	2676.61	345.258	1.18	-0.06	1.18	
9773.00	90.060	345.300	6870.82	2749.38	2679.47	-708.43	1703192.80	14286949.91	39°20'35.400"N	80°46'40.652"W	2771.54	345.190	4.23	0.00	4.23	
9867.00	90.740	345.810	6870.16	2842.55	2770.49	-731.88	1703169.36	14287030.90	39°20'36.300"N	80°46'40.948"W	2865.53	345.202	0.90	0.72	0.54	
9961.00	89.910	341.760	6869.63	2936.04	2860.73	-758.13	1703143.13	14287114.10	39°20'37.193"N	80°46'41.279"W	2959.48	345.157	4.40	-0.88	-4.31	
10056.00	90.000	339.840	6869.70	3030.91	2950.44	-789.37	1703111.90	14287200.78	39°20'38.080"N	80°46'41.674"W	3054.21	345.022	2.02	0.09	-2.02	
10150.00	90.000	338.140	6869.70	3124.89	3038.19	-823.07	1703078.22	14287318.49	39°20'38.948"N	80°46'42.100"W	3147.71	344.842	1.81	0.00	-1.81	
10244.00	90.030	336.180	6869.68	3218.88	3124.82	-859.55	1703041.75	14287405.08	39°20'39.805"N	80°46'42.562"W	3240.88	344.620	2.09	0.03	-2.09	
10338.00	89.880	335.800	6869.75	3312.83	3210.68	-897.80	1703003.51	14287490.91	39°20'40.655"N	80°46'43.046"W	3333.85	344.377	0.43	-0.16	-0.40	
10432.00	90.060	333.320	6869.80	3406.66	3295.56	-938.18	1702963.15	14287575.76	39°20'41.495"N	80°46'43.557"W	3426.50	344.109	2.65	0.19	-2.64	
10525.00	89.750	332.990	6869.95	3499.33	3378.54	-980.17	1702921.17	14287658.70	39°20'42.316"N	80°46'44.089"W	3517.85	343.822	0.49	-0.33	-0.35	
10619.00	89.690	333.030	6870.41	3592.98	3462.30	-1022.83	1702878.53	14287742.43	39°20'43.145"N	80°46'44.630"W	3610.22	343.542	0.08	-0.06	0.04	
10713.00	89.290	335.550	6871.25	3686.78	3546.98	-1063.61	1702837.77	14287827.08	39°20'43.983"N	80°46'45.146"W	3703.02	343.308	2.71	-0.43	2.68	
10808.00	90.220	336.180	6871.66	3781.72	3633.68	-1102.45	1702798.94	14287913.74	39°20'44.841"N	80°46'45.638"W	3797.24	343.122	1.18	0.98	0.66	
10903.00	90.150	335.780	6871.35	3876.66	3720.45	-1141.12	1702760.29	14288000.48	39°20'45.699"N	80°46'46.127"W	3891.52	342.948	0.43	-0.07	-0.42	
10998.00	90.000	336.790	6871.22	3971.62	3807.43	-1179.33	1702722.10	14288087.42	39°20'46.560"N	80°46'46.611"W	3985.89	342.790	1.07	-0.16	1.06	
11092.00	89.970	339.560	6871.25	4065.61	3894.68	-1214.27	1702687.17	14288174.64	39°20'47.423"N	80°46'47.053"W	4079.58	342.684	2.95	-0.03	2.95	
11186.00	90.150	341.350	6871.15	4159.51	3983.26	-1245.72	1702656.73	14288263.19	39°20'48.299"N	80°46'47.451"W	4173.51	342.634	1.91	0.19	1.90	
11281.00	90.180	340.630	6870.80	4254.38	4073.08	-1276.66	1702624.80	14288352.97	39°20'49.188"N	80°46'47.842"W	4268.47	342.597	0.76	0.03	-0.76	





# Actual Wellpath Report

Edgar Unit 1H AWP Proj: 16597

Page 7 of 11



05/03/2019

REFERENCE WELLPATH IDENTIFICATION		Slot	Slot #03
Operator	ANTERO RESOURCES CORPORATION	Well	Edgar Unit 1H
Area	Doddridge Co., WV	Wellbore	Edgar Unit 1H AWB
Field	Doddridge		
Facility	Alexander Pad		

WELLPATH DATA (207 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 (ft/100ft)	Build Rate (ft/100ft)	Turn Rate (ft/100ft)	Comments
11376.00	90.120	341.790	6870.63	4349.22	4163.01	-1307.26	1702594.22	14288442.87	39°20'50.077"N	80°46'48.228"W	4363.44	342.567	1.22	-0.06	1.22	
11471.00	89.910	342.790	6870.60	4443.95	4293.51	-1336.16	1702565.33	14288533.33	39°20'50.972"N	80°46'48.593"W	4458.44	342.561	1.08	-0.22	1.05	
11565.00	90.180	339.840	6870.53	4537.77	4342.55	-1366.27	1702535.23	14288622.33	39°20'51.853"N	80°46'48.974"W	4552.41	342.535	3.15	0.29	-3.14	
11660.00	90.090	339.280	6870.31	4632.73	4431.56	-1399.45	1702502.07	14288711.31	39°20'52.734"N	80°46'49.393"W	4647.28	342.474	0.60	-0.09	-0.59	
11754.00	90.180	341.670	6870.08	4726.64	4520.15	-1430.86	1702470.67	14288799.86	39°20'53.610"N	80°46'49.791"W	4741.22	342.435	2.54	0.10	2.54	
11849.00	90.250	342.310	6869.73	4821.40	4610.50	-1460.23	1702441.30	14288890.17	39°20'54.504"N	80°46'50.162"W	4836.21	342.426	0.68	0.07	0.67	
11942.00	90.280	342.100	6869.30	4914.14	4699.05	-1488.65	1702412.89	14289068.69	39°20'55.360"N	80°46'50.521"W	4929.21	342.422	0.23	0.03	-0.23	
12037.00	90.310	341.400	6868.81	5008.93	4789.27	-1518.40	1702383.16	14289243.40	39°20'56.272"N	80°46'50.897"W	5024.20	342.409	0.74	0.03	-0.74	
12131.00	90.220	338.250	6868.37	5102.86	4877.49	-1550.82	1702350.75	14289317.05	39°20'57.145"N	80°46'51.307"W	5118.10	342.362	3.35	-0.10	-3.35	
12225.00	90.220	335.330	6868.01	5196.83	4963.87	-1587.86	1702313.73	14289393.53	39°20'57.999"N	80°46'51.775"W	5211.65	342.261	3.11	0.00	-3.11	
12320.00	90.180	334.840	6867.68	5291.71	5050.03	-1627.88	1702273.72	14289429.53	39°20'58.852"N	80°46'52.282"W	5305.92	342.133	0.52	-0.04	-0.52	
12414.00	90.120	333.250	6867.43	5385.49	5134.54	-1669.02	1702232.60	14289494.01	39°20'59.688"N	80°46'52.803"W	5399.00	341.993	1.69	-0.06	-1.69	
12508.00	90.220	334.090	6867.16	5479.23	5218.79	-1710.71	1702190.92	14289498.22	39°21'00.522"N	80°46'53.331"W	5492.02	341.851	0.90	0.11	0.89	
12602.00	90.180	331.870	6866.83	5572.87	5302.52	-1753.41	1702148.24	14289581.92	39°21'01.350"N	80°46'53.872"W	5584.91	341.702	2.36	-0.04	-2.36	
12696.00	90.220	333.940	6866.50	5666.50	5386.20	-1796.22	1702105.45	14289665.57	39°21'02.179"N	80°46'54.415"W	5677.82	341.557	2.20	0.04	2.20	
12789.00	90.250	335.020	6866.12	5759.33	5470.13	-1836.29	1702065.40	14289749.46	39°21'03.009"N	80°46'54.922"W	5770.12	341.443	1.16	0.03	1.16	
12883.00	90.250	337.320	6865.71	5853.28	5556.11	-1874.27	1702027.44	14289835.41	39°21'03.860"N	80°46'55.403"W	5863.72	341.359	2.45	0.00	2.45	
12977.00	90.060	335.410	6865.45	5947.24	5642.22	-1911.95	1701989.77	14289921.48	39°21'04.712"N	80°46'55.880"W	5957.36	341.280	2.04	-0.20	-2.03	
13071.00	90.180	335.420	6865.26	6041.15	5727.69	-1951.06	1701950.67	14290006.93	39°21'05.557"N	80°46'56.375"W	6050.88	341.189	0.13	0.13	0.01	
13164.00	90.580	336.990	6864.84	6134.10	5812.78	-1988.58	1701913.17	14290091.98	39°21'06.399"N	80°46'56.850"W	6143.53	341.114	1.74	0.43	1.69	
13259.00	90.460	337.810	6863.78	6229.09	5900.49	-2025.08	1701876.68	14290179.65	39°21'07.267"N	80°46'57.312"W	6238.32	341.057	0.87	-0.13	0.86	
13352.00	90.580	338.560	6862.93	6322.09	5986.82	-2059.64	1701842.13	14290265.95	39°21'08.121"N	80°46'57.749"W	6331.20	341.015	0.82	0.13	0.81	
13446.00	90.650	340.750	6861.92	6416.03	6074.95	-2092.32	1701809.47	14290354.04	39°21'08.993"N	80°46'58.163"W	6425.17	340.995	2.33	0.07	2.33	
13540.00	90.580	344.170	6860.92	6509.72	6164.56	-2120.64	1701781.16	14290443.62	39°21'09.879"N	80°46'58.521"W	6519.12	341.017	3.64	-0.07	3.64	
13634.00	90.710	343.500	6859.86	6603.22	6254.84	-2146.81	1701755.00	14290533.86	39°21'10.772"N	80°46'58.851"W	6613.00	341.057	0.73	0.14	-0.71	
13728.00	91.230	341.760	6858.27	6696.89	6344.53	-2174.87	1701726.95	14290623.52	39°21'11.659"N	80°46'59.205"W	6706.95	341.079	1.93	0.55	-1.85	
13822.00	91.140	342.240	6856.32	6790.63	6433.91	-2203.91	1701697.92	14290712.86	39°21'12.543"N	80°46'59.572"W	6800.91	341.091	0.52	-0.10	0.51	
13917.00	91.230	340.090	6854.36	6885.45	6523.80	-2234.57	1701667.27	14290802.71	39°21'13.433"N	80°46'59.960"W	6895.89	341.092	2.26	0.09	-2.26	
14012.00	91.540	338.650	6852.06	6980.39	6612.68	-2268.03	1701633.83	14290891.56	39°21'14.312"N	80°47'00.383"W	6990.82	341.069	1.55	0.33	-1.52	
14106.00	90.830	335.500	6850.12	7074.35	6699.23	-2304.63	1701597.24	14290978.07	39°21'15.188"N	80°47'00.846"W	7084.56	341.016	3.43	-0.76	-3.35	





# Actual Wellpath Report

Edgar Unit 1H AWP Proj: 16597

Page 8 of 11



05/03/2019

## REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #03
Area	Doddridge Co., WV	Well	Edgar Unit 1H
Field	Doddridge	Wellbore	Edgar Unit 1H AWB
Facility	Alexander Pad		

## WELLPATH DATA (207 stations)

MD ft	Inclination °	Azimuth °	TVD ft	Vert Sect ft	North ft	East ft	Grid East US RL	Grid North US RL	Latitude	Longitude	Closure Dist ft	Closure Dir °	DLS °/100ft	Build Rate °/100ft	Turn Rate °/100ft	Comments
14201.00	90.620	335.610	6848.91	7169.26	6785.70	-2343.94	1701557.94	14291064.51	39°21'16.024"N	80°47'01.344"W	7179.12	340.944	0.25	-0.22	0.12	
14296.00	90.950	339.200	6847.81	7264.23	6873.39	-2380.44	1701521.47	14291152.16	39°21'16.891"N	80°47'01.806"W	7273.92	340.898	3.79	0.35	3.78	
14390.00	90.710	340.460	6846.25	7358.17	6961.61	-2412.84	1701489.07	14291240.35	39°21'17.764"N	80°47'02.216"W	7367.89	340.884	1.36	-0.26	1.34	
14484.00	90.710	338.220	6845.09	7452.13	7049.55	-2446.00	1701455.92	14291328.26	39°21'18.634"N	80°47'02.635"W	7461.85	340.865	2.38	0.00	-2.38	
14579.00	90.740	337.100	6843.88	7547.12	7137.42	-2482.11	1701419.83	14291416.09	39°21'19.503"N	80°47'03.092"W	7556.69	340.824	1.18	0.03	-1.18	
14674.00	90.650	332.190	6842.73	7641.92	7223.23	-2522.78	1701379.18	14291501.87	39°21'20.352"N	80°47'03.608"W	7651.11	340.748	5.17	-0.09	-5.17	
14769.00	90.710	333.490	6841.60	7736.54	7307.75	-2566.14	1701335.84	14291586.35	39°21'21.189"N	80°47'04.157"W	7745.21	340.651	1.37	0.06	1.37	
14864.00	90.120	333.660	6840.91	7831.26	7392.82	-2608.41	1701293.58	14291671.39	39°21'22.030"N	80°47'04.693"W	7839.49	340.566	0.65	-0.62	0.18	
14958.00	90.430	335.610	6840.46	7925.10	7477.75	-2648.68	1701253.33	14291756.29	39°21'22.871"N	80°47'05.203"W	7932.99	340.495	2.10	0.33	2.07	
15053.00	89.290	338.370	6840.70	8020.08	7565.19	-2685.81	1701216.21	14291843.69	39°21'23.736"N	80°47'05.673"W	8027.80	340.454	3.14	-1.20	2.91	
15148.00	89.260	337.070	6841.90	8115.06	7653.08	-2721.82	1701180.21	14291931.55	39°21'24.605"N	80°47'06.128"W	8122.69	340.422	1.37	-0.03	-1.37	
15243.00	89.420	337.210	6842.99	8210.05	7740.62	-2758.73	1701143.33	14292019.05	39°21'25.471"N	80°47'06.596"W	8217.52	340.384	0.22	0.17	0.15	
15338.00	89.170	338.650	6844.16	8305.04	7828.65	-2794.42	1701107.65	14292107.04	39°21'26.342"N	80°47'07.047"W	8312.43	340.356	1.54	-0.26	1.52	
15433.00	89.450	342.420	6845.31	8399.92	7918.19	-2826.07	1701076.01	14292196.55	39°21'27.228"N	80°47'07.448"W	8407.40	340.358	3.98	0.29	3.97	
15528.00	89.630	341.730	6846.07	8494.67	8008.58	-2855.30	1701046.79	14292286.90	39°21'28.122"N	80°47'07.817"W	8502.36	340.377	0.75	0.19	-0.73	
15622.00	89.480	338.270	6846.80	8588.59	8096.89	-2887.45	1701014.66	14292375.18	39°21'28.996"N	80°47'08.224"W	8596.34	340.373	3.68	-0.16	-3.68	
15717.00	89.510	338.220	6847.64	8683.58	8185.12	-2922.66	1700979.46	14292463.38	39°21'29.869"N	80°47'08.669"W	8691.27	340.350	0.06	0.03	-0.05	
15811.00	89.450	338.100	6848.49	8777.58	8272.37	-2957.83	1700944.51	14292550.59	39°21'30.732"N	80°47'09.112"W	8785.20	340.326	0.14	-0.06	-0.13	
15906.00	89.420	337.750	6849.43	8872.57	8360.41	-2993.33	1700908.82	14292638.59	39°21'31.603"N	80°47'09.564"W	8880.11	340.301	0.37	-0.03	-0.37	
16001.00	89.510	339.860	6850.31	8967.55	8448.97	-3027.87	1700874.49	14292727.12	39°21'32.479"N	80°47'09.998"W	8975.07	340.285	2.22	0.09	2.22	
16095.00	89.450	339.620	6851.17	9061.50	8537.15	-3060.22	1700841.95	14292815.27	39°21'33.351"N	80°47'10.410"W	9069.06	340.279	0.26	-0.06	-0.26	
16189.00	89.510	336.060	6852.02	9155.48	8624.19	-3095.87	1700806.52	14292902.27	39°21'34.212"N	80°47'10.859"W	9162.96	340.254	3.79	0.06	-3.79	
16283.00	89.380	332.700	6852.93	9249.29	8708.93	-3136.31	1700765.90	14292986.98	39°21'35.051"N	80°47'11.373"W	9256.45	340.195	3.58	-0.14	-3.57	
16377.00	89.510	333.530	6853.84	9342.95	8792.77	-3178.81	1700723.41	14293070.78	39°21'35.880"N	80°47'11.912"W	9349.74	340.124	0.89	0.14	0.88	
16472.00	89.450	335.250	6854.70	9437.76	8878.43	-3219.87	1700682.37	14293156.41	39°21'36.728"N	80°47'12.432"W	9444.26	340.066	1.81	-0.06	1.81	
16566.00	89.450	335.130	6855.61	9531.64	8963.75	-3259.31	1700642.94	14293241.69	39°21'37.572"N	80°47'12.932"W	9537.92	340.018	0.13	0.00	-0.13	
16597.00	89.450	335.130	6855.90	9562.61	8991.87	-3272.35	1700629.91	14293269.81	39°21'37.850"N	80°47'13.097"W	9568.80	340.002	0.00	0.00	0.00	Projected MD at TD: 16597'





# Actual Wellpath Report

Edgar Unit 1H AWP Proj: 16597

Page 9 of 11



## REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #03
Area	Doddridge Co., WV	Well	Edgar Unit 1H
Field	Doddridge	Wellbore	Edgar Unit 1H AWB
Facility	Alexander Pad		

## HOLE & CASING SECTIONS - Ref Wellbore: Edgar Unit 1H AWB Ref Wellpath: Edgar Unit 1H AWP Proj: 16597

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	25.00	105.00	80.00	25.00	105.00	0.00	0.00	-0.26	-0.33
17.5in Open Hole	105.00	561.40	456.40	105.00	561.39	-0.26	-0.33	-0.27	-2.96
13.375in Casing Surface	25.00	561.40	536.40	25.00	561.39	0.00	0.00	-0.27	-2.96
12.25in Open Hole	561.40	2536.10	1974.70	561.39	2535.38	-0.27	-2.96	18.96	-14.91
9.625in Casing Intermediate	25.00	2536.10	2511.10	25.00	2535.38	0.00	0.00	18.96	-14.91
8.75in Open Hole	2536.10	6517.00	3980.90	2535.38	6457.13	18.96	-14.91	-183.11	428.55
8.5in Open Hole	6517.00	16597.00	10080.00	6457.13	6855.90	-183.11	428.55	8991.87	-3272.35
5.5in Casing Production	25.00	16597.00	16572.00	25.00	6855.90	0.00	0.00	8991.87	-3272.35

## TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Edgar Unit 1H POE Rev-2	6845.00	207.69	304.85	1704205.68	14284489.11	39°20'10.945"N	80°46'27.834"W	point
Edgar Unit 1H BHL Rev-2	6886.00	8958.40	-3241.07	1700861.17	14293236.35	39°21'37.519"N	80°47'12.700"W	point
Edgar Unit 1H LP Rev-1	6886.00	422.25	217.91	1704118.78	14284703.59	39°20'13.068"N	80°46'28.933"W	point





# Actual Wellpath Report

Edgar Unit 1H AWP Proj: 16597

Page 10 of 11



## REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #03
Area	Doddridge Co., WV	Well	Edgar Unit 1H
Field	Doddridge	Wellbore	Edgar Unit 1H AWB
Facility	Alexander Pad		

## WELLPATH COMPOSITION - Ref Wellbore: Edgar Unit 1H AWB Ref Wellpath: Edgar Unit 1H AWP Proj: 16597

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
25.00	546.00	Gyrodata standard - Drop gyro or Multi-shot	01. Gyrodata MS Gyro <17-1/2">(100'-546')	Edgar Unit 1H AWB
546.00	623.00	Gyrodata standard - Drop gyro or Multi-shot	02. Gyrodata MS Gyro <12-1/4">(646')(623')	Edgar Unit 1H AWB
623.00	2508.00	ISCWSA MWD, Rev. 4 (Standard)	03. WFT EM <12-1/4">(623')(828'-2508')	Edgar Unit 1H AWB
2508.00	6441.00	ISCWSA MWD, Rev. 4 (Standard)	04. WFT EM <8-3/4">(2508')(2661'-6441')	Edgar Unit 1H AWB
6441.00	16566.00	BHT AutoTrak Curve (Short)	05. BH AT Curve <8-1/2">(6441')(6491'-16566')	Edgar Unit 1H AWB
16566.00	16597.00	Blind Drilling (std)	Projection to bit	Edgar Unit 1H AWB





# Actual Wellpath Report

Edgar Unit 1H AWP Proj: 16597  
Page 11 of 11



## REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #03
Area	Doddridge Co., WV	Well	Edgar Unit 1H
Field	Doddridge	Wellbore	Edgar Unit 1H AWB
Facility	Alexander Pad		

## COMMENTS

### Wellpath general comments

API: 47-017-06854-0000  
 BHI Job #: 9184961  
 Rig: Patterson 342  
 Duration: 05/29/2018-06/02/2018  
 Gyrodatta MS Gyro <17-1/2"> (100'-546')  
 Gyrodatta MS Gyro <12-1/4"> (546')(623'-623')  
 WFT EM <12-1/4"> (623')(828'-2508')  
 WFT EM <8-3/4"> (2508')(2661'-6441')  
 BHI AT Curve <8-1/2"> (6441')(6491'-16566')  
 Burkett: 6938' MD  
 Tully: 6997' MD  
 Hamilton: 7083' MD  
 Marcellus POE: 7110' MD  
 Projected MD at TD: 16597'