



Actual Wellpath Report

Weese Unit 1H AWP Proj: 21360'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot #05
Area	Tyler County, WV	Weese Unit 1H
Field	Tyler	Weese Unit 1H AWB
Facility	Kirk Hadley Pad	

REPORT SETUP INFORMATION

Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect® 5.1
North Reference	Grid	User	Delaset
Scale	0.999600	Report Generated	10/14/2019 at 2:06:43 PM
Convergence at slot	0.04° East	Database/Source file	WA_MPL_EasternUS_DefnWeese_Unit_1H_AWP_Proj_21360_.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	39.40	6.78	1659527.43	14330619.21	39°27'47.773"N	80°55'56.239"W
Facility Reference Pt			1659520.65	14330579.82	39°27'47.384"N	80°55'56.326"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	937.00ft
Vertical Reference Pt	Patterson 342 (RKB)	Patterson 342 (RKB) to Ground Level at Slot (Slot #05)	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	341.06°



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Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #05
Area	Tyler County, WV	Well	Weese Unit 1H
Field	Tyler	Wellbore	Weese Unit 1H AWB
Facility	Kirk Hadley Pad		

WELLPATH DATA (256 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	0.000	296.600	0.00	0.00	0.00	0.00	1659527.43	14330619.21	39°27'47.773"N	80°55'56.239"W	0.00	0.000	0.00	0.00	0.00	
25.00	0.000	296.600	25.00	0.00	0.00	0.00	1659527.43	14330619.21	39°27'47.773"N	80°55'56.239"W	0.00	0.000	0.00	0.00	0.00	
49.83	0.220	296.600	49.83	0.03	0.02	-0.04	1659527.39	14330619.23	39°27'47.773"N	80°55'56.240"W	0.05	296.600	0.89	0.89	-255.34	Gyrodata MS Gyro <17-1/2"> 49.83-390.11'
75.24	0.230	323.560	75.24	0.12	0.08	-0.12	1659527.31	14330619.29	39°27'47.774"N	80°55'56.240"W	0.14	305.854	0.41	0.04	106.10	
99.32	0.320	298.880	99.32	0.21	0.16	-0.20	1659527.23	14330619.36	39°27'47.775"N	80°55'56.242"W	0.26	307.313	0.61	0.37	-102.48	
124.89	0.310	328.310	124.89	0.33	0.25	-0.30	1659527.13	14330619.45	39°27'47.775"N	80°55'56.243"W	0.39	309.405	0.63	-0.04	115.10	
149.22	0.270	324.700	149.22	0.45	0.35	-0.37	1659527.06	14330619.56	39°27'47.776"N	80°55'56.244"W	0.51	313.495	0.18	-0.16	-14.84	
175.41	0.260	313.090	175.41	0.56	0.44	-0.45	1659526.98	14330619.65	39°27'47.777"N	80°55'56.245"W	0.63	314.546	0.21	-0.04	-44.33	
199.56	0.190	343.470	199.56	0.65	0.52	-0.50	1659526.93	14330619.72	39°27'47.778"N	80°55'56.245"W	0.72	315.974	0.56	-0.29	125.80	
225.21	0.050	318.130	225.21	0.71	0.57	-0.52	1659526.91	14330619.77	39°27'47.779"N	80°55'56.246"W	0.77	317.486	0.57	-0.55	-88.73	
249.51	0.040	109.300	249.51	0.71	0.57	-0.52	1659526.91	14330619.78	39°27'47.779"N	80°55'56.246"W	0.77	317.772	0.36	-0.04	622.10	
275.21	0.050	5.800	275.21	0.72	0.58	-0.51	1659526.92	14330619.79	39°27'47.779"N	80°55'56.245"W	0.77	318.707	0.28	0.04	-402.72	
299.51	0.110	165.560	299.51	0.70	0.57	-0.50	1659526.93	14330619.77	39°27'47.779"N	80°55'56.245"W	0.76	318.498	0.65	0.25	657.45	
325.33	0.060	190.780	325.33	0.66	0.53	-0.50	1659526.93	14330619.74	39°27'47.778"N	80°55'56.245"W	0.73	316.772	0.24	-0.19	97.68	
349.89	0.110	115.310	349.89	0.64	0.51	-0.48	1659526.95	14330619.71	39°27'47.778"N	80°55'56.245"W	0.70	316.626	0.45	0.20	-307.29	
375.08	0.130	130.580	375.08	0.60	0.48	-0.44	1659526.99	14330619.69	39°27'47.778"N	80°55'56.245"W	0.65	317.688	0.15	0.08	60.62	
390.11	0.220	102.740	390.11	0.57	0.46	-0.40	1659527.04	14330619.67	39°27'47.778"N	80°55'56.244"W	0.61	319.421	0.81	0.60	-185.23	
561.00	0.130	283.370	561.00	0.50	0.43	-0.26	1659527.17	14330619.84	39°27'47.777"N	80°55'56.242"W	0.51	328.676	0.20	-0.05	-104.96	WFT EM <12-1/4"> 390.11' (561'-2530')
651.00	2.540	271.250	650.97	1.24	0.50	-2.36	1659525.07	14330619.71	39°27'47.778"N	80°55'56.269"W	2.41	282.019	2.68	2.68	-13.47	
742.00	4.580	271.460	741.79	3.20	0.64	-8.01	1659519.43	14330619.84	39°27'47.779"N	80°55'56.341"W	8.03	274.560	2.24	2.24	0.23	
833.00	6.260	271.010	832.38	6.16	0.82	-16.60	1659510.84	14330620.02	39°27'47.781"N	80°55'56.451"W	16.62	272.823	1.85	1.85	-0.49	
927.00	6.830	271.190	925.76	9.83	1.03	-27.31	1659500.13	14330620.23	39°27'47.783"N	80°55'56.567"W	27.33	272.149	0.61	0.61	0.19	
1022.00	6.470	264.510	1020.13	13.02	0.63	-38.29	1659489.16	14330619.84	39°27'47.780"N	80°55'56.727"W	38.29	270.943	0.90	-0.38	-7.03	
1116.00	5.970	267.050	1113.57	15.60	-0.13	-48.44	1659479.01	14330619.08	39°27'47.772"N	80°55'56.857"W	48.44	269.849	0.61	-0.53	2.70	
1211.00	6.050	271.410	1208.05	18.70	-0.26	-58.38	1659469.07	14330618.95	39°27'47.771"N	80°55'56.983"W	58.38	269.746	0.49	0.08	4.55	
1306.00	7.050	267.270	1302.43	22.07	-0.41	-69.21	1659458.25	14330618.79	39°27'47.769"N	80°55'57.121"W	69.21	269.658	1.16	1.05	-4.36	
1400.00	8.080	262.590	1395.61	25.00	-1.54	-81.52	1659445.94	14330617.87	39°27'47.758"N	80°55'57.278"W	81.54	268.918	1.28	1.10	-4.98	
1495.00	6.900	255.230	1489.80	26.75	-3.86	-93.66	1659433.81	14330616.35	39°27'47.736"N	80°55'57.433"W	93.74	267.642	1.60	-1.24	-7.75	
1590.00	3.670	231.730	1584.39	26.16	-7.20	-101.57	1659425.90	14330612.01	39°27'47.703"N	80°55'57.534"W	101.82	265.948	4.03	-3.40	-24.74	
1684.00	2.000	194.090	1678.28	23.79	-10.65	-104.33	1659423.14	14330608.36	39°27'47.669"N	80°55'57.569"W	104.87	264.171	2.57	-1.78	-40.04	



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Area	Tyler County, WV	Well	Weese Unit 1H
Field	Tyler	Wellbore	Weese Unit 1H AWB
Facility	Kirk Hadley Pad		

WELLPATH DATA (256 stations)

MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	Grid East (IUS ft)	Grid North (IUS ft)	Latitude	Longitude	Closure Dist (ft)	Closure Dir (°)	DLS (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Comments
1779.00	1.530	115.530	1773.25	21.51	-12.81	-103.59	1659423.88	14330606.41	39°27'47.647"N	80°55'57.560"W	104.38	262.953	2.38	-0.49	-82.63	
1874.00	2.540	87.330	1868.19	20.03	-13.25	-100.34	1659427.13	14330605.96	39°27'47.643"N	80°55'57.519"W	101.21	262.476	1.47	1.06	-29.68	
1968.00	2.000	71.630	1962.12	19.43	-12.64	-96.71	1659430.76	14330606.57	39°27'47.649"N	80°55'57.472"W	97.53	262.554	0.87	-0.57	-16.70	
2063.00	1.860	16.830	2057.07	20.67	-10.64	-94.69	1659432.78	14330608.57	39°27'47.669"N	80°55'57.446"W	95.28	263.588	1.87	-0.15	-57.68	
2157.00	3.360	357.850	2150.97	24.54	-6.43	-94.35	1659433.12	14330612.78	39°27'47.710"N	80°55'57.442"W	94.57	266.102	1.82	1.60	-20.13	
2251.00	3.270	355.640	2244.82	29.77	-1.00	-94.65	1659432.81	14330618.20	39°27'47.764"N	80°55'57.446"W	94.66	269.393	0.17	-0.10	-2.35	
2346.00	0.330	329.640	2339.76	32.67	1.94	-95.00	1659432.47	14330621.14	39°27'47.793"N	80°55'57.450"W	95.02	271.168	3.13	-3.09	-27.37	
2440.00	1.900	206.180	2433.74	31.83	0.77	-95.82	1659431.65	14330619.98	39°27'47.781"N	80°55'57.461"W	95.83	270.461	2.23	1.67	-131.34	
2530.00	1.890	227.510	2523.69	30.19	-1.57	-97.58	1659429.89	14330617.64	39°27'47.758"N	80°55'57.483"W	97.59	269.078	0.78	-0.01	23.70	
2667.00	1.450	223.760	2660.64	28.49	-4.35	-100.44	1659427.03	14330614.86	39°27'47.731"N	80°55'57.520"W	100.53	267.521	0.33	-0.32	-27.44	WFT EM <8.3/4">(2630°/2667'-5835')
2761.00	4.770	191.540	2754.49	24.57	-9.04	-102.05	1659425.51	14330610.17	39°27'47.684"N	80°55'57.540"W	102.45	264.939	3.86	3.53	-34.23	
2856.00	5.110	168.120	2849.15	16.97	-17.05	-101.97	1659425.51	14330602.16	39°27'47.605"N	80°55'57.539"W	103.38	260.508	2.14	0.36	-24.65	
2951.00	5.210	158.950	2943.76	8.46	-25.21	-99.54	1659427.93	14330594.00	39°27'47.525"N	80°55'57.508"W	102.69	255.786	0.87	0.11	-9.65	
3046.00	6.680	173.020	3038.25	-1.26	-34.73	-97.32	1659430.15	14330584.49	39°27'47.431"N	80°55'57.480"W	103.33	250.363	2.17	1.55	14.81	
3141.00	8.200	187.410	3132.46	-12.73	-46.93	-97.53	1659429.94	14330572.29	39°27'47.310"N	80°55'57.483"W	108.23	244.303	2.52	1.60	15.15	
3236.00	9.780	186.710	3225.30	-25.94	-61.51	-99.32	1659428.15	14330557.72	39°27'47.166"N	80°55'57.505"W	116.83	238.231	1.68	1.68	-0.74	
3329.00	10.650	178.410	3317.82	-41.43	-78.12	-100.02	1659427.46	14330541.12	39°27'47.002"N	80°55'57.515"W	128.91	232.007	1.82	0.93	-8.83	
3424.00	9.910	174.480	3411.29	-57.76	-95.03	-98.99	1659428.49	14330524.21	39°27'46.834"N	80°55'57.502"W	137.22	226.167	1.07	-0.78	-4.14	
3519.00	10.450	178.550	3504.80	-73.93	-111.78	-97.98	1659429.49	14330507.47	39°27'46.669"N	80°55'57.489"W	148.65	221.236	0.95	0.57	4.28	
3613.00	9.730	176.720	3597.34	-89.71	-128.24	-97.31	1659430.16	14330491.02	39°27'46.506"N	80°55'57.481"W	160.98	217.193	0.84	-0.77	-1.95	
3708.00	10.600	185.790	3690.86	-105.38	-144.94	-97.73	1659429.74	14330474.32	39°27'46.341"N	80°55'57.486"W	174.82	213.991	1.91	0.92	9.55	
3802.00	9.720	185.320	3783.38	-120.46	-161.45	-99.34	1659428.13	14330457.32	39°27'46.178"N	80°55'57.507"W	189.56	211.605	0.94	-0.94	-0.50	
3897.00	10.590	185.500	3876.89	-135.72	-178.12	-100.92	1659426.55	14330441.15	39°27'46.013"N	80°55'57.527"W	204.73	209.535	0.92	0.92	0.19	
3994.00	9.890	182.670	3972.35	-151.58	-195.32	-102.16	1659425.31	14330423.97	39°27'45.843"N	80°55'57.543"W	220.42	207.613	0.89	-0.72	-2.92	
4089.00	11.600	191.040	4065.68	-167.44	-212.84	-104.37	1659423.10	14330406.45	39°27'45.670"N	80°55'57.572"W	237.06	206.122	2.43	1.80	8.81	
4183.00	11.150	189.700	4157.84	-183.60	-231.08	-107.71	1659419.76	14330388.22	39°27'45.490"N	80°55'57.615"W	254.95	204.992	0.56	-0.48	-1.43	
4278.00	10.150	187.870	4251.20	-199.14	-248.42	-110.40	1659417.07	14330370.88	39°27'45.319"N	80°55'57.649"W	271.85	203.961	1.11	-1.05	-1.98	
4372.00	11.620	188.680	4343.51	-214.93	-265.99	-112.96	1659414.52	14330353.32	39°27'45.145"N	80°55'57.682"W	288.98	203.009	1.57	1.56	0.91	
4466.00	10.980	186.010	4435.69	-231.43	-284.25	-115.32	1659412.15	14330335.07	39°27'44.964"N	80°55'57.712"W	306.75	202.083	0.88	-0.68	-2.84	
4561.00	12.330	182.680	4528.73	-249.06	-303.38	-116.74	1659410.73	14330315.85	39°27'44.775"N	80°55'57.730"W	325.07	201.047	1.59	1.42	-3.51	



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Field	Tyler	Weese Unit 1H AWB
Facility	Kirk Hadley Pad	

WELLPATH DATA (256 stations) t = interpolated/extrapolated station

MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	Grid East (IUS ft)	Grid North (IUS ft)	Latitude	Longitude	Closure Dist (ft)	Closure Dir (°)	DLS (ft/100ft)	Build Rate (ft/100ft)	Turn Rate (ft/100ft)	Comments
4656.00	11.560	179.450	4621.67	-267.53	-323.03	-117.13	1659410.35	14330296.30	39°27'44.581"N	80°55'57.735"W	343.61	199.930	1.07	-0.81	-3.40	
4750.00	10.560	177.020	4713.92	-284.75	-341.05	-116.59	1659410.89	14330278.29	39°27'44.403"N	80°55'57.729"W	360.43	198.873	1.17	-1.06	-2.52	
4845.00	12.010	181.900	4807.09	-302.35	-359.63	-116.46	1659411.01	14330259.72	39°27'44.220"N	80°55'57.727"W	378.01	197.944	1.83	1.53	5.14	
4939.00	11.550	182.190	4899.11	-320.27	-378.80	-117.15	1659410.33	14330240.55	39°27'44.030"N	80°55'57.736"W	396.51	197.185	0.49	-0.49	0.31	
5034.00	10.320	180.430	4992.38	-337.17	-396.82	-117.58	1659409.90	14330222.55	39°27'43.852"N	80°55'57.742"W	413.87	196.504	1.34	-1.24	-1.85	
5128.00	9.440	175.240	5084.99	-352.59	-412.92	-117.00	1659410.48	14330206.45	39°27'43.683"N	80°55'57.735"W	429.18	195.820	1.33	-0.94	-5.52	
5223.00	10.040	183.370	5178.62	-367.80	-428.95	-116.84	1659410.64	14330190.43	39°27'43.534"N	80°55'57.733"W	444.58	195.237	1.68	0.63	8.56	
5317.00	9.190	181.540	5271.30	-382.42	-444.64	-117.52	1659409.96	14330174.75	39°27'43.379"N	80°55'57.742"W	459.90	194.805	0.96	-0.90	-1.95	
5411.00	5.350	183.360	5364.53	-393.51	-456.52	-117.98	1659409.50	14330162.87	39°27'43.262"N	80°55'57.748"W	471.52	194.490	4.09	-4.09	1.94	
5456.00	2.890	200.450	5409.41	-396.33	-459.68	-118.50	1659408.98	14330159.71	39°27'43.231"N	80°55'57.754"W	474.70	194.456	6.05	-5.47	37.98	
5506.00	1.690	277.140	5459.38	-396.98	-460.77	-119.67	1659407.81	14330158.62	39°27'43.220"N	80°55'57.769"W	476.05	194.560	5.99	-2.40	153.38	
5551.00	4.370	328.850	5504.32	-395.01	-459.22	-121.22	1659406.26	14330160.17	39°27'43.235"N	80°55'57.789"W	474.94	194.787	7.95	5.96	114.91	
5601.00	8.790	345.230	5553.98	-389.33	-453.89	-123.18	1659404.30	14330165.50	39°27'43.288"N	80°55'57.814"W	470.31	195.184	9.52	8.84	32.76	
5646.00	12.520	351.160	5598.20	-381.10	-445.74	-124.81	1659402.68	14330173.64	39°27'43.368"N	80°55'57.835"W	462.88	195.642	8.63	8.29	13.18	
5695.00	15.260	351.480	5645.76	-369.53	-434.11	-126.58	1659400.90	14330185.27	39°27'43.483"N	80°55'57.857"W	452.19	196.256	5.59	5.59	0.62	
5740.00	17.860	356.580	5688.89	-367.05	-421.37	-127.87	1659399.62	14330198.01	39°27'43.609"N	80°55'57.873"W	440.34	196.881	6.61	5.78	11.33	
5790.00	21.910	357.760	5735.90	-340.72	-404.38	-128.69	1659398.79	14330214.98	39°27'43.777"N	80°55'57.884"W	424.37	197.653	8.14	8.10	2.36	
5835.00	25.810	356.910	5777.05	-323.25	-386.20	-129.55	1659397.94	14330233.16	39°27'43.957"N	80°55'57.894"W	407.35	198.543	8.70	8.67	-1.83	
5879.00	28.710	356.890	5816.16	-303.86	-366.08	-130.64	1659396.85	14330253.27	39°27'44.166"N	80°55'57.908"W	388.69	199.639	6.59	6.59	-0.05	BHAT Curve <-8-1/2"> (5835)-(5879-21335)
5895.00	29.500	356.530	5830.13	-296.37	-358.31	-131.08	1659396.40	14330261.04	39°27'44.233"N	80°55'57.914"W	381.54	200.094	5.06	4.94	-2.25	
5942.00	29.600	353.730	5871.02	-273.89	-335.22	-133.05	1659394.43	14330284.12	39°27'44.461"N	80°55'57.939"W	360.66	201.648	2.95	0.21	-5.96	
5991.00	33.470	354.070	5912.78	-248.91	-309.74	-135.77	1659391.72	14330309.59	39°27'44.713"N	80°55'57.973"W	338.19	203.669	7.91	7.90	0.63	
6038.00	39.360	357.860	5950.59	-221.98	-281.93	-137.67	1659389.82	14330337.39	39°27'44.988"N	80°55'57.997"W	313.75	206.026	13.41	12.53	8.06	
6086.00	43.960	359.470	5986.44	-191.59	-250.05	-138.39	1659388.12	14330369.26	39°27'45.303"N	80°55'58.006"W	285.79	208.963	9.84	9.58	3.35	
6133.00	48.190	357.940	6019.04	-159.33	-216.21	-139.17	1659388.32	14330403.08	39°27'45.637"N	80°55'58.015"W	257.13	212.768	9.30	9.00	-3.25	
6168.00	51.478	355.663	6041.61	-133.59	-189.52	-140.68	1659386.81	14330429.77	39°27'45.901"N	80°55'58.034"W	236.02	216.586	10.63	9.39	-6.51	Middlesex: 6168' MD
6181.00	52.710	354.870	6049.60	-123.65	-179.29	-141.52	1659385.97	14330439.98	39°27'46.002"N	80°55'58.045"W	228.42	218.285	10.63	9.48	-6.10	
6228.00	57.670	352.670	6076.43	-86.02	-140.95	-145.73	1659381.76	14330478.31	39°27'46.381"N	80°55'58.098"W	202.74	225.955	11.23	10.55	-4.68	
6276.00	60.780	351.760	6100.98	-45.56	-100.10	-151.32	1659376.17	14330519.15	39°27'46.785"N	80°55'58.169"W	181.43	236.516	6.68	6.48	-1.90	
6323.00	63.090	351.740	6123.09	-4.81	-59.05	-157.27	1659370.22	14330560.17	39°27'47.191"N	80°55'58.245"W	167.99	249.419	4.92	4.91	-0.04	



Actual Wellpath Report

Weese Unit 1H AWP Proj: 21360'
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REFERENCE WELLPATH IDENTIFICATION

Operator	Slot #05
ANTERO RESOURCES CORPORATION	Weese Unit 1H
Area	Well
Tyler County, WV	Weese Unit 1H AWB
Field	Wellbore
Tyler	
Facility	Kirk Hadley Pad

WELLPATH DATA (256 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 (ft/100ft)	Build Rate (ft/100ft)	Turn Rate (ft/100ft)	Comments
6331.00	63.80	351.900	6126.67	2.22	-51.97	-158.29	1659369.20	14330567.25	39°27'47.261"N	80°55'58.258"W	166.60	251.824	9.11	8.93	1.95	Burkett: 6331' MD
6371.00	67.38	352.670	6143.20	37.94	-15.88	-163.18	1659364.32	14330603.33	39°27'47.617"N	80°55'58.320"W	163.95	264.441	9.11	8.94	1.93	
6388.00	68.80	352.567	6149.54	53.39	-0.24	-165.20	1659362.29	14330618.97	39°27'47.772"N	80°55'58.345"W	165.20	269.917	8.42	8.40	-0.61	Tully: 6388' MD
6418.00	71.33	352.390	6159.76	81.04	27.72	-168.89	1659358.60	14330646.91	39°27'48.048"N	80°55'58.392"W	171.15	279.320	8.42	8.40	-0.59	
6424.00	71.77	352.264	6161.66	86.62	33.36	-169.65	1659357.84	14330652.55	39°27'48.104"N	80°55'58.402"W	172.90	281.124	7.61	7.35	-2.10	Marcellus POE: 6424' MD
6466.00	74.86	351.400	6173.72	126.14	73.18	-175.37	1659352.13	14330692.35	39°27'48.498"N	80°55'58.474"W	190.03	292.649	7.61	7.35	-2.06	
6513.00	79.29	350.560	6184.23	171.25	118.41	-182.56	1659344.95	14330737.57	39°27'48.945"N	80°55'58.565"W	217.59	302.968	9.59	9.43	-1.73	
6561.00	83.09	350.210	6191.58	218.05	165.17	-190.48	1659337.03	14330784.30	39°27'49.407"N	80°55'58.666"W	252.11	310.929	7.95	7.92	-0.73	
6608.00	86.61	349.670	6195.80	264.29	211.25	-198.65	1659328.86	14330830.37	39°27'49.862"N	80°55'58.770"W	289.98	316.760	7.58	7.49	-1.15	
6656.00	89.97	348.930	6197.23	311.77	258.39	-207.56	1659319.95	14330877.49	39°27'50.328"N	80°55'58.883"W	331.43	321.225	7.17	7.00	-1.54	
6752.00	89.97	349.410	6197.28	406.81	352.68	-225.60	1659301.92	14330971.74	39°27'51.260"N	80°55'59.112"W	418.66	327.394	0.50	0.00	0.50	
6846.00	91.05	347.630	6196.44	500.00	444.79	-244.30	1659283.22	14331063.81	39°27'52.171"N	80°55'59.350"W	507.46	331.222	2.21	1.15	-1.89	
6942.00	91.29	344.540	6194.48	595.60	537.94	-267.38	1659260.16	14331156.93	39°27'53.092"N	80°55'59.643"W	600.73	333.570	3.23	0.25	-3.22	
7037.00	89.85	341.450	6193.54	690.53	628.77	-295.16	1659232.39	14331247.72	39°27'53.990"N	80°55'59.996"W	694.60	334.853	3.59	-1.52	-3.25	
7133.00	90.00	339.620	6193.66	786.52	719.28	-327.15	1659200.41	14331338.19	39°27'54.884"N	80°56'00.403"W	790.18	335.542	1.91	0.16	-1.91	
7228.00	89.91	339.020	6193.74	881.48	808.15	-360.70	1659166.88	14331427.04	39°27'55.763"N	80°56'00.830"W	885.00	335.948	0.64	-0.09	-0.63	
7322.00	89.85	337.180	6193.94	975.35	895.37	-395.76	1659131.83	14331514.21	39°27'56.625"N	80°56'01.277"W	978.93	336.154	1.96	-0.06	-1.96	
7416.00	89.88	336.050	6194.16	1069.06	981.64	-433.07	1659094.54	14331600.46	39°27'57.478"N	80°56'01.751"W	1072.93	336.195	1.20	0.03	-1.20	
7512.00	90.03	336.340	6194.23	1164.72	1069.48	-471.81	1659055.81	14331688.25	39°27'58.347"N	80°56'02.245"W	1168.93	336.195	0.34	0.16	0.30	
7607.00	89.97	334.470	6194.23	1259.25	1155.85	-511.35	1659016.28	14331774.60	39°27'59.201"N	80°56'02.748"W	1263.91	336.135	1.97	-0.06	-1.97	
7702.00	90.15	334.820	6194.13	1353.65	1241.70	-552.03	1658975.82	14331860.41	39°28'00.049"N	80°56'03.266"W	1358.88	336.031	0.41	0.19	0.37	
7797.00	89.08	335.380	6194.77	1448.14	1327.87	-592.03	1658935.64	14331946.54	39°28'00.901"N	80°56'03.775"W	1453.87	335.970	1.27	-1.13	0.59	
7891.00	91.05	336.190	6194.66	1541.73	1413.59	-630.58	1658897.10	14332032.23	39°28'01.749"N	80°56'04.266"W	1547.86	335.959	2.27	2.10	0.86	
7986.00	92.06	336.650	6192.09	1636.39	1500.63	-668.57	1658859.13	14332119.23	39°28'02.609"N	80°56'04.749"W	1642.82	335.986	1.17	1.06	0.48	
8080.00	90.03	335.300	6190.37	1729.99	1586.46	-706.83	1658820.88	14332205.03	39°28'03.458"N	80°56'05.237"W	1736.80	335.985	2.59	-2.16	-1.44	
8175.00	89.69	338.300	6190.60	1824.72	1673.77	-744.25	1658783.48	14332292.30	39°28'04.321"N	80°56'05.713"W	1831.78	336.027	3.18	-0.36	3.16	
8270.00	90.12	343.000	6190.76	1919.69	1763.38	-775.72	1658752.02	14332381.88	39°28'05.207"N	80°56'06.113"W	1926.46	336.255	4.97	0.45	4.95	
8365.00	92.43	346.680	6188.65	2014.44	1855.03	-800.55	1658727.20	14332473.49	39°28'06.113"N	80°56'06.429"W	2020.40	336.657	4.57	2.43	3.87	
8460.00	90.31	342.780	6186.38	2109.19	1946.62	-825.56	1658702.20	14332565.05	39°28'07.018"N	80°56'06.747"W	2114.45	337.018	4.67	-2.23	-4.11	
8555.00	91.72	342.080	6184.69	2204.15	2037.17	-854.23	1658673.54	14332655.56	39°28'07.913"N	80°56'07.112"W	2209.03	337.251	1.66	1.48	-0.74	



Actual Wellpath Report

Weese Unit 1H AWP Proj: 21360'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #05
Area	Tyler County, WV	Well	Weese Unit 1H
Field	Tyler	Wellbore	Weese Unit 1H AWB
Facility	Kirk Hadley Pad		

WELLPATH DATA (256 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 (P/100ft)	Build Rate (P/100ft)	Turn Rate (T/100ft)	Comments
8649.00	90.180	339.780	6183.13	2298.12	2126.00	-884.94	1658642.85	14332744.35	39°28'08.792"N	80°56'07.503"W	2302.82	337.401	2.94	-1.64	-2.45	
8744.00	90.830	340.030	6182.30	2393.10	2215.21	-917.58	1658610.22	14332833.52	39°28'09.673"N	80°56'07.918"W	2397.73	337.500	0.73	0.68	0.26	
8838.00	91.050	339.700	6180.75	2487.07	2303.45	-949.93	1658577.88	14332921.73	39°28'10.546"N	80°56'08.330"W	2491.64	337.589	0.42	0.23	-0.35	
8935.00	91.080	338.380	6178.95	2583.99	2394.02	-984.62	1658543.20	14333012.26	39°28'11.441"N	80°56'08.771"W	2588.59	337.643	1.36	0.03	-1.36	
9030.00	90.740	338.900	6177.44	2678.89	2382.48	-1019.22	1658508.62	14333100.69	39°28'12.316"N	80°56'09.212"W	2683.56	337.679	0.65	-0.36	0.55	
9125.00	91.170	341.470	6175.86	2773.86	2571.83	-1051.42	1658476.44	14333190.01	39°28'13.199"N	80°56'09.621"W	2778.45	337.764	2.74	0.45	2.71	
9220.00	91.200	344.890	6173.89	2868.76	2662.74	-1078.90	1658448.97	14333280.87	39°28'14.098"N	80°56'09.971"W	2873.01	337.943	3.60	0.03	3.61	
9316.00	90.830	345.830	6172.19	2964.47	2755.60	-1103.16	1658424.72	14333373.70	39°28'15.016"N	80°56'10.279"W	2968.22	338.182	1.05	-0.39	0.98	
9411.00	91.260	344.840	6170.46	3059.19	2847.49	-1127.20	1658400.68	14333465.55	39°28'15.924"N	80°56'10.585"W	3062.48	338.403	1.14	0.45	-1.04	
9507.00	90.340	346.040	6169.12	3154.90	2940.40	-1151.33	1658376.56	14333558.42	39°28'16.842"N	80°56'10.892"W	3157.77	338.617	1.57	-0.96	1.29	
9601.00	90.680	346.560	6168.28	3248.50	3031.72	-1173.59	1658354.31	14333649.71	39°28'17.745"N	80°56'11.175"W	3250.94	338.838	0.66	0.36	0.53	
9695.00	90.280	343.760	6167.50	3342.25	3122.57	-1197.67	1658330.25	14333740.52	39°28'18.643"N	80°56'11.481"W	3344.38	339.016	3.01	-0.43	-2.98	
9790.00	90.430	344.570	6166.91	3437.11	3213.96	-1223.59	1658304.33	14333831.88	39°28'19.547"N	80°56'11.811"W	3439.00	339.158	0.87	0.16	0.85	
9885.00	90.400	343.770	6166.22	3531.96	3305.36	-1249.50	1658278.43	14333923.24	39°28'20.450"N	80°56'12.141"W	3533.64	339.292	0.84	-0.03	-0.84	
9979.00	90.180	339.600	6165.74	3625.93	3394.57	-1279.03	1658248.91	14334012.42	39°28'21.332"N	80°56'12.516"W	3627.54	339.354	4.44	-0.23	-4.44	
10074.00	89.940	340.970	6165.64	3720.92	3484.00	-1311.08	1658216.88	14334101.81	39°28'22.216"N	80°56'12.924"W	3722.53	339.378	1.46	-0.25	1.44	
10170.00	90.060	343.340	6165.64	3816.90	3575.38	-1340.50	1658187.47	14334193.15	39°28'23.120"N	80°56'13.299"W	3818.41	339.448	2.47	0.12	2.47	
10266.00	90.830	342.910	6164.90	3912.83	3667.24	-1368.36	1658159.62	14334284.97	39°28'24.028"N	80°56'13.663"W	3914.21	339.538	0.92	0.80	-0.45	
10363.00	90.550	340.440	6163.73	4009.81	3759.31	-1398.86	1658129.14	14334377.00	39°28'24.938"N	80°56'14.041"W	4011.13	339.590	2.56	-0.23	-2.55	
10459.00	90.620	339.830	6162.75	4105.80	3849.59	-1431.48	1658096.53	14334467.25	39°28'25.830"N	80°56'14.458"W	4107.12	339.602	0.64	0.07	-0.64	
10554.00	90.310	340.350	6161.98	4200.78	3938.91	-1463.83	1658064.19	14334556.53	39°28'26.713"N	80°56'14.868"W	4202.12	339.613	0.64	-0.33	0.55	
10650.00	90.180	337.150	6161.57	4296.69	4028.37	-1498.62	1658029.42	14334645.96	39°28'27.598"N	80°56'15.311"W	4298.09	339.594	3.34	-0.14	-3.33	
10745.00	89.690	338.270	6161.68	4391.52	4116.27	-1534.65	1657993.40	14334733.82	39°28'28.467"N	80°56'15.770"W	4393.04	339.553	1.29	-0.53	1.18	
10841.00	90.650	342.380	6161.39	4487.49	4206.64	-1566.96	1657961.10	14334824.16	39°28'29.360"N	80°56'16.181"W	4489.01	339.570	4.40	1.00	4.28	
10936.00	90.340	340.280	6160.57	4582.48	4296.64	-1597.37	1657930.70	14334914.12	39°28'30.250"N	80°56'16.568"W	4583.96	339.606	2.23	-0.33	-2.21	
11031.00	90.310	338.560	6160.03	4677.44	4385.57	-1630.76	1657897.32	14335003.01	39°28'31.129"N	80°56'16.993"W	4678.95	339.602	1.81	-0.03	-1.81	
11126.00	90.120	339.790	6159.67	4772.38	4474.36	-1664.54	1657863.56	14335091.77	39°28'32.007"N	80°56'17.423"W	4773.95	339.594	1.31	-0.20	1.28	
11220.00	90.710	340.360	6158.99	4866.37	4562.73	-1696.57	1657831.54	14335180.10	39°28'32.880"N	80°56'17.830"W	4867.94	339.603	0.87	0.63	0.61	
11316.00	90.150	340.510	6158.27	4962.36	4653.18	-1728.72	1657799.41	14335270.52	39°28'33.775"N	80°56'18.240"W	4963.93	339.619	0.60	-0.58	0.16	
11411.00	90.430	342.720	6157.79	5057.35	4743.33	-1758.68	1657769.46	14335360.63	39°28'34.666"N	80°56'18.621"W	5058.86	339.657	2.34	0.23	2.33	

Actual Wellpath Report

Weese Unit 1H AWP Proj: 21360'

REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #05
Area	Tyler County, WV	Well	Weese Unit 1H
Field	Tyler	Wellbore	Weese Unit 1H AWB
Facility	Kirk Hadley Pad		

WELLPATH DATA (256 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 (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Comments
11505.00	90.830	343.340	6156.76	5151.28	4833.23	-1786.11	1657742.04	14335450.49	39°28'35.554"N	80°56'18.970"W	5152.70	339.718	0.78	0.43	0.66	
11601.00	90.680	341.610	6155.49	5247.24	4924.76	-1815.01	1657713.15	14335541.99	39°28'36.459"N	80°56'19.338"W	5248.58	339.769	1.81	-0.16	-1.80	
11696.00	90.800	340.680	6154.27	5342.23	5014.66	-1845.71	1657682.46	14335631.85	39°28'37.348"N	80°56'19.729"W	5343.54	339.793	0.99	0.13	-0.98	
11791.00	90.460	338.250	6153.22	5437.18	5103.61	-1879.03	1657649.15	14335720.76	39°28'38.227"N	80°56'20.153"W	5438.53	339.787	2.58	-0.36	-2.56	
11886.00	90.120	338.930	6152.74	5532.09	5192.05	-1913.71	1657614.49	14335809.17	39°28'39.102"N	80°56'20.594"W	5533.50	339.767	0.80	-0.36	0.72	
11980.00	90.060	340.190	6152.59	5626.06	5280.13	-1946.54	1657581.68	14335897.21	39°28'39.972"N	80°56'21.012"W	5627.50	339.763	1.34	-0.08	1.34	
12076.00	89.750	341.640	6152.75	5722.06	5370.85	-1977.93	1657550.30	14335987.90	39°28'40.869"N	80°56'21.411"W	5723.48	339.783	1.54	-0.32	1.51	
12171.00	90.770	344.640	6152.32	5816.98	5461.75	-2005.48	1657522.76	14336078.77	39°28'41.768"N	80°56'21.762"W	5818.31	339.838	3.34	1.07	3.16	
12266.00	90.120	342.790	6151.58	5911.87	5552.93	-2032.11	1657496.13	14336169.91	39°28'42.669"N	80°56'22.101"W	5913.08	339.900	2.06	-0.68	-1.95	
12362.00	90.520	341.910	6151.05	6007.84	5644.41	-2061.22	1657467.04	14336261.35	39°28'43.574"N	80°56'22.471"W	6009.00	339.939	1.01	0.42	-0.92	
12457.00	90.220	338.480	6150.43	6102.82	5733.78	-2093.40	1657434.87	14336350.68	39°28'44.457"N	80°56'22.881"W	6103.98	339.943	3.62	-0.32	-3.61	
12552.00	90.120	338.370	6150.15	6197.72	5822.12	-2128.33	1657399.95	14336438.99	39°28'45.330"N	80°56'23.328"W	6198.94	339.920	0.16	-0.11	-0.12	
12647.00	90.220	340.450	6149.87	6292.67	5911.05	-2161.74	1657366.56	14336527.88	39°28'46.209"N	80°56'23.751"W	6293.94	339.912	2.19	0.11	2.19	
12741.00	89.720	341.640	6149.92	6386.67	5999.95	-2192.28	1657336.04	14336616.75	39°28'47.088"N	80°56'24.140"W	6387.92	339.929	1.37	-0.53	1.27	
12837.00	89.720	344.320	6150.39	6482.61	6091.74	-2220.37	1657307.95	14336708.49	39°28'47.996"N	80°56'24.497"W	6483.77	339.974	2.79	0.00	2.79	
12931.00	89.750	345.770	6150.82	6576.38	6182.55	-2244.63	1657283.70	14336799.27	39°28'48.893"N	80°56'24.806"W	6577.41	340.046	1.54	0.03	1.54	
13026.00	89.970	346.690	6151.06	6670.99	6274.82	-2267.24	1657261.10	14336891.50	39°28'49.805"N	80°56'25.093"W	6671.86	340.134	1.00	0.23	0.97	
13120.00	89.750	344.480	6151.29	6764.69	6365.85	-2290.64	1657237.71	14336982.50	39°28'50.705"N	80°56'25.391"W	6765.43	340.210	2.36	-0.23	-2.35	
13214.00	90.060	344.360	6151.44	6858.53	6456.40	-2315.89	1657212.47	14337073.01	39°28'51.600"N	80°56'25.712"W	6859.18	340.267	0.35	0.33	-0.13	
13309.00	90.250	342.830	6151.18	6953.43	6547.53	-2342.72	1657185.66	14337164.10	39°28'52.501"N	80°56'26.054"W	6954.02	340.313	1.62	0.20	-1.61	
13404.00	89.780	342.130	6151.16	7048.40	6638.12	-2371.31	1657157.07	14337254.66	39°28'53.397"N	80°56'26.418"W	7048.95	340.342	0.89	-0.43	-0.74	
13498.00	90.150	340.540	6151.22	7142.40	6727.17	-2401.40	1657127.00	14337343.68	39°28'54.277"N	80°56'26.801"W	7142.94	340.355	1.74	0.39	-1.69	
13593.00	90.520	339.500	6150.66	7237.38	6816.45	-2433.86	1657094.55	14337432.92	39°28'55.160"N	80°56'27.214"W	7237.93	340.351	1.16	0.39	-1.09	
13689.00	89.690	339.150	6150.49	7333.33	6906.27	-2467.76	1657060.67	14337522.70	39°28'56.048"N	80°56'27.645"W	7333.92	340.337	0.94	-0.86	-0.36	
13784.00	89.720	340.510	6150.97	7428.31	6995.44	-2500.51	1657027.93	14337611.83	39°28'56.929"N	80°56'28.062"W	7428.91	340.331	1.43	0.03	1.43	
13879.00	89.660	342.230	6151.49	7523.30	7085.46	-2530.85	1656997.59	14337701.82	39°28'57.819"N	80°56'28.449"W	7523.89	340.344	1.81	-0.08	1.81	
13975.00	89.820	339.390	6151.92	7619.29	7176.11	-2562.40	1656966.06	14337792.43	39°28'58.715"N	80°56'28.850"W	7619.87	340.350	2.96	0.17	-2.96	
14069.00	90.090	337.450	6152.00	7713.18	7263.52	-2596.98	1656931.50	14337879.81	39°28'59.579"N	80°56'29.290"W	7713.82	340.326	2.08	0.29	-2.08	
14164.00	89.750	335.110	6152.13	7807.85	7350.49	-2635.19	1656893.30	14337966.74	39°29'00.439"N	80°56'29.777"W	7808.58	340.277	2.49	-0.36	-2.48	
14258.00	90.340	338.120	6152.06	7901.55	7436.75	-2672.49	1656856.01	14338052.97	39°29'01.292"N	80°56'30.252"W	7902.38	340.233	3.26	0.63	3.20	



Actual Wellpath Report

Weese Unit 1H AWP Proj: 21360'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #05
Area	Tyler County, WV	Well	Weese Unit 1H
Field	Tyler	Wellbore	Weese Unit 1H AWB
Facility	Kirk Hadley Pad		

WELLPATH DATA (256 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
14353.00	90.650	339.460	6151.24	7996.47	7525.31	-2706.86	1656821.66	14338141.50	39°29'02.167"N	80°56'30.690"W	7997.34	340.216	1.45	0.33	1.41	
14448.00	90.400	338.750	6150.37	8091.41	7614.06	-2740.74	1656787.79	14338230.21	39°29'03.045"N	80°56'31.121"W	8092.32	340.203	0.79	-0.29	-0.75	
14544.00	90.090	341.120	6149.96	8187.39	7704.23	-2773.68	1656754.87	14338320.34	39°29'03.936"N	80°56'31.540"W	8188.31	340.200	2.49	-0.32	2.47	
14638.00	89.970	344.130	6149.91	8281.34	7793.93	-2801.74	1656726.81	14338410.00	39°29'04.823"N	80°56'31.898"W	8282.21	340.228	3.20	-0.13	3.20	
14734.00	91.480	347.950	6148.69	8376.95	7887.07	-2824.90	1656703.67	14338503.10	39°29'05.743"N	80°56'32.192"W	8377.70	340.294	4.28	1.57	3.98	
14829.00	92.060	350.380	6145.76	8470.95	7980.32	-2842.74	1656685.83	14338596.32	39°29'06.665"N	80°56'32.419"W	8471.52	340.393	2.63	0.61	2.56	
14924.00	91.260	349.530	6143.00	8564.77	8073.82	-2859.31	1656669.27	14338689.79	39°29'07.589"N	80°56'32.629"W	8565.18	340.499	1.23	-0.84	-0.89	
15019.00	91.350	348.590	6140.84	8658.82	8167.07	-2877.33	1656651.25	14338783.00	39°29'08.511"N	80°56'32.859"W	8659.10	340.592	0.99	0.09	-0.99	
15114.00	91.380	346.590	6138.58	8753.19	8259.78	-2897.94	1656630.66	14338875.66	39°29'09.428"N	80°56'33.121"W	8753.39	340.667	2.36	0.03	-2.36	
15210.00	90.220	344.290	6137.24	8848.91	8352.63	-2922.26	1656606.35	14338968.48	39°29'10.345"N	80°56'33.430"W	8849.07	340.717	2.46	-1.21	-2.15	
15305.00	90.250	344.520	6136.85	8943.74	8444.13	-2947.80	1656580.82	14339059.94	39°29'11.260"N	80°56'33.755"W	8943.87	340.756	0.24	0.03	0.24	
15400.00	90.310	342.840	6136.38	9038.64	8535.30	-2974.49	1656554.13	14339151.07	39°29'12.151"N	80°56'34.095"W	9038.74	340.787	1.77	0.06	-1.77	
15494.00	89.750	341.270	6136.33	9132.62	8624.72	-3003.45	1656525.18	14339240.46	39°29'13.035"N	80°56'34.463"W	9132.72	340.800	1.77	-0.80	-1.67	
15589.00	89.170	340.320	6137.23	9227.62	8714.43	-3034.70	1656493.95	14339330.13	39°29'13.922"N	80°56'34.861"W	9227.71	340.800	1.17	-0.61	-1.00	
15684.00	89.380	338.610	6138.43	9322.57	8803.38	-3068.02	1656460.64	14339419.05	39°29'14.801"N	80°56'35.286"W	9322.67	340.786	1.81	0.22	-1.80	
15779.00	89.110	337.110	6139.68	9417.41	8891.37	-3103.82	1656424.86	14339507.00	39°29'15.671"N	80°56'35.741"W	9417.54	340.757	1.60	-0.28	-1.58	
15874.00	88.620	336.710	6141.56	9512.14	8978.74	-3141.07	1656387.62	14339594.34	39°29'16.535"N	80°56'36.216"W	9512.31	340.718	0.67	-0.52	-0.42	
15969.00	88.430	338.430	6144.01	9606.93	9066.52	-3177.30	1656351.40	14339682.08	39°29'17.403"N	80°56'36.677"W	9607.13	340.687	1.82	-0.20	1.81	
16063.00	87.320	338.420	6147.50	9700.76	9153.87	-3211.85	1656316.88	14339769.40	39°29'18.266"N	80°56'37.117"W	9700.99	340.665	1.18	-1.18	-0.01	
16158.00	88.120	341.950	6151.28	9795.66	9243.16	-3244.02	1656284.72	14339858.65	39°29'19.149"N	80°56'37.527"W	9795.90	340.661	3.81	0.84	3.72	
16252.00	88.520	343.080	6154.03	9889.59	9332.78	-3272.25	1656256.50	14339948.23	39°29'20.035"N	80°56'37.886"W	9889.81	340.678	1.27	0.43	1.20	
16346.00	89.230	344.040	6155.88	9983.48	9422.92	-3298.84	1656229.91	14340038.34	39°29'20.926"N	80°56'38.225"W	9983.67	340.705	1.27	0.76	1.02	
16440.00	89.260	343.080	6157.12	10077.38	9513.06	-3325.44	1656203.32	14340128.45	39°29'21.817"N	80°56'38.563"W	10077.55	340.732	1.02	0.03	-1.02	
16536.00	89.910	340.470	6157.81	10173.36	9604.24	-3355.47	1656173.31	14340219.59	39°29'22.718"N	80°56'38.945"W	10173.52	340.742	2.80	0.69	-2.72	
16631.00	89.110	338.640	6158.62	10268.32	9693.24	-3388.65	1656140.15	14340308.56	39°29'23.598"N	80°56'39.368"W	10268.49	340.731	2.10	-0.84	-1.93	
16726.00	89.420	338.410	6159.84	10363.22	9781.64	-3423.42	1656105.38	14340396.92	39°29'24.472"N	80°56'39.811"W	10363.41	340.711	0.41	0.33	-0.24	
16821.00	89.140	337.150	6161.04	10458.06	9869.58	-3459.34	1656069.48	14340484.82	39°29'25.341"N	80°56'40.268"W	10458.28	340.684	1.36	-0.29	-1.33	
16917.00	88.180	338.060	6163.28	10553.85	9958.31	-3495.91	1656032.93	14340573.52	39°29'26.219"N	80°56'40.734"W	10554.12	340.656	1.38	-1.00	0.95	
17012.00	89.850	340.760	6164.91	10648.79	10047.22	-3529.31	1655999.54	14340662.39	39°29'27.097"N	80°56'41.159"W	10649.07	340.645	3.34	1.76	2.84	
17106.00	90.030	341.730	6165.01	10742.79	10136.23	-3559.53	1655969.33	14340751.36	39°29'27.977"N	80°56'41.544"W	10743.06	340.650	1.05	0.79	1.03	



Actual Wellpath Report

Weese Unit 1H AWP Proj: 21360'
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REFERENCE WELLPATH IDENTIFICATION

Operator	Slot #05
ANTERO RESOURCES CORPORATION	Well
Tyler County, WV	Weese Unit 1H
Tyler	Weese Unit 1H AWB
Facility	Kirk Hadley Pad

WELLPATH DATA (256 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 (°/100ft)	Comments
17201.00	89.880	338.260	6165.09	10837.75	10225.48	-3592.03	1655936.85	14340840.58	39°29'28.860"N	80°56'41.958"W	10838.04	340.645	3.66	-0.16	-3.65	
17296.00	90.030	337.880	6165.16	10932.63	10313.61	-3627.51	1655901.38	14340928.67	39°29'29.731"N	80°56'42.410"W	10932.94	340.622	0.43	0.16	-0.40	
17391.00	89.970	337.070	6165.16	11027.44	10401.36	-3663.90	1655865.00	14341016.39	39°29'30.598"N	80°56'42.873"W	11027.80	340.595	0.85	-0.06	-0.85	
17487.00	89.540	333.820	6165.57	11122.96	10488.66	-3703.79	1655825.13	14341103.66	39°29'31.461"N	80°56'43.381"W	11123.40	340.551	3.41	-0.45	-3.39	
17582.00	89.820	336.330	6166.10	11217.44	10574.81	-3743.82	1655785.12	14341189.77	39°29'32.313"N	80°56'43.891"W	11217.96	340.504	2.66	0.29	2.64	
17678.00	89.820	338.510	6166.41	11313.24	10663.44	-3780.68	1655748.27	14341278.37	39°29'33.189"N	80°56'44.361"W	11313.82	340.478	2.27	0.00	2.27	
17773.00	89.850	339.340	6166.68	11408.17	10752.09	-3814.84	1655714.12	14341366.97	39°29'34.066"N	80°56'44.796"W	11408.78	340.465	0.87	0.03	0.87	
17864.00	90.370	338.580	6166.50	11503.11	10840.75	-3848.95	1655680.03	14341455.60	39°29'34.942"N	80°56'45.230"W	11503.75	340.453	0.97	0.55	-0.80	
17968.00	89.570	334.900	6166.55	11598.82	10928.93	-3886.85	1655642.14	14341543.75	39°29'35.814"N	80°56'45.713"W	11599.53	340.422	3.92	-0.83	-3.83	
18058.00	89.820	337.310	6167.05	11692.46	11014.87	-3924.92	1655604.09	14341629.65	39°29'36.663"N	80°56'46.198"W	11693.26	340.388	2.58	0.27	2.56	
18154.00	88.650	338.920	6168.33	11788.32	11103.94	-3960.70	1655568.32	14341718.68	39°29'37.544"N	80°56'46.654"W	11789.17	340.369	2.07	-1.22	1.68	
18249.00	89.630	343.500	6169.76	11883.28	11193.84	-3991.29	1655537.75	14341808.55	39°29'38.433"N	80°56'47.043"W	11884.13	340.376	4.93	1.03	4.82	
18345.00	89.750	345.090	6170.28	11979.12	11286.25	-4017.27	1655511.77	14341900.93	39°29'39.346"N	80°56'47.374"W	11979.90	340.407	1.66	0.13	1.66	
18440.00	89.050	347.380	6171.27	12073.72	11378.51	-4039.87	1655489.18	14341993.15	39°29'40.258"N	80°56'47.662"W	12074.40	340.453	2.52	-0.74	2.41	
18535.00	89.880	349.520	6172.16	12167.92	11471.58	-4058.89	1655470.17	14342086.18	39°29'41.178"N	80°56'47.903"W	12168.47	340.515	2.42	0.87	2.25	
18630.00	89.940	348.920	6172.31	12261.96	11564.90	-4076.66	1655452.41	14342179.46	39°29'42.101"N	80°56'48.129"W	12262.39	340.582	0.63	0.06	-0.63	
18725.00	89.970	346.480	6172.38	12356.31	11657.71	-4096.90	1655432.18	14342272.24	39°29'43.018"N	80°56'48.387"W	12356.65	340.637	2.57	0.03	-2.57	
18820.00	89.940	344.950	6172.46	12451.00	11749.77	-4120.34	1655408.75	14342364.26	39°29'43.928"N	80°56'48.685"W	12451.28	340.676	1.61	-0.03	-1.61	
18915.00	90.090	344.040	6172.43	12545.83	11841.31	-4145.73	1655383.36	14342456.76	39°29'44.833"N	80°56'49.008"W	12546.07	340.704	0.97	0.16	-0.96	
19011.00	89.880	345.110	6172.46	12641.64	11933.86	-4171.27	1655357.84	14342548.27	39°29'45.748"N	80°56'49.333"W	12641.85	340.734	1.14	-0.22	1.11	
19106.00	90.150	345.470	6172.43	12736.39	12025.74	-4195.39	1655333.73	14342640.12	39°29'46.656"N	80°56'49.640"W	12736.55	340.768	0.47	0.28	0.38	
19201.00	89.820	343.090	6172.46	12831.23	12117.18	-4221.13	1655308.00	14342731.52	39°29'47.560"N	80°56'49.968"W	12831.37	340.794	2.53	-0.35	-2.51	
19297.00	90.000	340.320	6172.61	12927.21	12208.32	-4251.26	1655277.88	14342822.62	39°29'48.461"N	80°56'50.352"W	12927.35	340.801	2.89	0.19	-2.89	
19392.00	89.850	339.120	6172.73	13022.19	12297.43	-4284.19	1655244.97	14342911.70	39°29'49.342"N	80°56'50.771"W	13022.33	340.793	1.27	-0.16	-1.26	
19487.00	89.780	338.860	6173.04	13117.12	12386.11	-4318.25	1655210.92	14343000.34	39°29'50.218"N	80°56'51.205"W	13117.28	340.780	0.28	-0.07	-0.27	
19581.00	90.090	338.320	6173.14	13211.04	12473.63	-4352.56	1655176.62	14343087.82	39°29'51.083"N	80°56'51.642"W	13211.21	340.764	0.66	0.33	-0.57	
19677.00	89.820	337.560	6173.22	13306.89	12562.60	-4388.61	1655140.58	14343176.76	39°29'51.963"N	80°56'52.101"W	13307.09	340.744	0.84	-0.28	-0.79	
19771.00	89.850	336.970	6173.49	13400.69	12649.29	-4424.94	1655104.27	14343263.42	39°29'52.820"N	80°56'52.564"W	13400.92	340.719	0.63	0.03	-0.63	
19867.00	90.000	336.570	6173.62	13496.42	12737.51	-4462.81	1655066.42	14343351.60	39°29'53.692"N	80°56'53.046"W	13496.70	340.691	0.44	0.16	-0.42	
19963.00	89.780	337.190	6173.80	13592.16	12825.80	-4500.50	1655028.74	14343439.85	39°29'54.565"N	80°56'53.527"W	13592.48	340.664	0.69	-0.23	0.65	



Actual Wellpath Report

Weese Unit 1H AWP Proj: 21360'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #05
Area	Tyler County, WV	Well	Weese Unit 1H
Field	Tyler	Wellbore	Weese Unit 1H AWB
Facility	Kirk Hadley Pad		

WELLPATH DATA (256 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 (1/100ft)	Build Rate (1/100ft)	Turn Rate (1/100ft)	Comments
20058.00	89.880	337.690	6174.08	13686.97	12913.53	-4536.95	1654992.30	14343527.55	39°29'55.432"N	80°56'53.991"W	13687.33	340.642	0.54	0.11	0.53	
20154.00	89.970	338.910	6174.21	13782.86	13002.72	-4572.44	1654956.82	14343616.71	39°29'56.314"N	80°56'54.443"W	13783.25	340.626	1.27	0.03	1.27	
20249.00	90.340	337.950	6173.95	13877.75	13091.07	-4607.37	1654921.91	14343705.02	39°29'57.187"N	80°56'54.888"W	13878.18	340.611	1.08	0.35	-1.01	
20345.00	90.710	337.270	6173.07	13973.58	13179.83	-4643.93	1654885.36	14343793.74	39°29'58.065"N	80°56'55.354"W	13974.05	340.590	0.81	0.35	-0.71	
20440.00	90.770	339.200	6171.84	14068.45	13268.04	-4679.16	1654850.15	14343881.92	39°29'58.937"N	80°56'55.802"W	14068.95	340.574	2.03	0.05	2.03	
20536.00	90.770	339.810	6170.55	14164.40	13357.96	-4712.76	1654816.56	14343971.80	39°29'59.826"N	80°56'56.230"W	14164.93	340.567	0.64	0.00	0.64	
20631.00	90.740	341.500	6169.30	14259.39	13447.58	-4744.23	1654785.11	14344061.39	39°30'00.712"N	80°56'56.631"W	14259.92	340.567	1.78	-0.03	1.78	
20726.00	90.740	342.300	6168.08	14354.37	13537.87	-4773.74	1654755.61	14344151.64	39°30'01.604"N	80°56'57.007"W	14354.88	340.576	0.84	0.00	0.84	
20821.00	90.680	342.920	6166.90	14449.33	13628.52	-4802.13	1654727.23	14344242.26	39°30'02.500"N	80°56'57.369"W	14449.81	340.590	0.66	-0.05	0.65	
20916.00	90.620	343.260	6165.82	14544.26	13719.41	-4829.76	1654699.61	14344333.11	39°30'03.399"N	80°56'57.720"W	14544.72	340.606	0.36	-0.05	0.36	
21011.00	90.400	341.120	6164.98	14639.23	13809.85	-4859.82	1654670.57	14344423.51	39°30'05.181"N	80°56'58.090"W	14639.67	340.616	2.26	-0.23	-2.25	
21106.00	90.310	341.030	6164.39	14734.23	13899.71	-4889.63	1654639.77	14344513.34	39°30'05.181"N	80°56'58.483"W	14734.67	340.619	0.13	-0.03	-0.03	
21201.00	90.370	342.600	6163.82	14829.22	13989.96	-4919.27	1654610.13	14344603.55	39°30'06.073"N	80°56'58.860"W	14829.64	340.627	1.65	0.05	1.65	
21295.00	90.460	343.120	6163.14	14923.17	14079.79	-4946.98	1654582.44	14344693.34	39°30'06.961"N	80°56'59.213"W	14923.57	340.641	0.56	0.10	0.55	
21385.00	90.430	343.210	6162.83	14983.14	14118.07	-4958.56	1654570.86	14344731.61	39°30'07.339"N	80°56'59.361"W	14963.53	340.648	0.24	-0.07	0.22	
21360.00	90.430	343.210	6162.64	14988.12	14142.00	-4965.78	1654563.64	14344755.53	39°30'07.576"N	80°56'59.453"W	14988.50	340.652	0.00	0.00	0.00	Projected MD at TD: 21360'



Actual Wellpath Report

Weese Unit 1H AWP Proj: 21360'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #05
Area	Tyler County, WV	Well	Weese Unit 1H
Field	Tyler	Wellbore	Weese Unit 1H AWB
Facility	Kirk Hadley Pad		

HOLE & CASING SECTIONS - Ref Wellbore: Weese Unit 1H AWB Ref Wellpath: Weese Unit 1H AWP Proj: 21360'

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	0.17	-0.23
17.5in Open Hole	105.00	485.00	380.00	105.00	485.00	0.17	-0.23	0.42	-0.20
13.375in Casing Surface	25.00	475.90	450.90	25.00	475.90	0.00	0.00	0.42	-0.20
12.25in Open Hole	485.00	2612.00	2127.00	485.00	2605.66	0.42	-0.20	-3.30	-99.40
9.625in Casing Intermediate	25.00	2596.70	2571.70	25.00	2590.36	0.00	0.00	-2.99	-99.09
8.75in Open Hole	2612.00	5903.00	3291.00	2605.66	5837.10	-3.30	-99.40	-354.38	-131.34
8.5in Open Hole	5903.00	21360.00	15457.00	5837.10	6162.64	-354.38	-131.34	14142.00	-4965.78
5.5in Casing Production	25.00	21360.00	21335.00	25.00	6162.64	0.00	0.00	14142.00	-4965.78

TARGETS

Name	TVD (ft)	North (ft)	East (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	Shape
Weese Unit 1H - POE - Rev-2	6156.00	24.35	-164.53	1659362.97	14330643.55	39°27'48.015"N	80°55'58.336"W	point
Weese Unit 1H - LP - Rev-2	6193.00	247.40	-207.88	1659319.63	14330866.50	39°27'50.220"N	80°55'58.887"W	point
Weese Unit 1H - BHL - Rev-2	6193.00	14166.03	-4963.64	1654565.78	14344779.55	39°30'07.813"N	80°56'59.425"W	point



Actual Wellpath Report

Weese Unit 1H AWP Proj: 21360'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #05
Area	Tyler County, WV	Well	Weese Unit 1H
Field	Tyler	Wellbore	Weese Unit 1H AWB
Facility	Kirk Hadley Pad		

WELLPATH COMPOSITION - Ref Wellbore: Weese Unit 1H AWB Ref Wellpath: Weese Unit 1H AWP Proj: 21360'

Start MD (ft)	End MD (ft)	Positional Uncertainty Model	Log Name/Comment	Wellbore
25.00	390.11	Gyrodata standard - Drop gyro or Multi-shot	01 Gyrodata MS Gyro <17-1/2">(49.83'-390.11')	Weese Unit 1H AWB
390.11	2530.00	OWSG MWD rev2 + HRGM	02 WFT EM <12-1/4">(390.11')*(561'-2530')	Weese Unit 1H AWB
2530.00	5835.00	OWSG MWD rev2 + HRGM	03 WFT EM <8-3/4">(2530')*(2667'-5835')	Weese Unit 1H AWB
5835.00	21335.00	BHI AutoTrak Curve (Short)	04 BH AT Curve <8-1/2"> (5835')*(5879'-21335')	Weese Unit 1H AWB
21335.00	21360.00	Blind Drilling (std)	Protection to bit	Weese Unit 1H AWB



Actual Wellpath Report

Weese Unit 1H AWP Proj: 21360'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #05
Area	Tyler County, WV	Well	Weese Unit 1H
Field	Tyler	Wellbore	Weese Unit 1H AWB
Facility	Kirk Hadley Pad		

COMMENTS

Wellpath general comments
 API: 47-095-02552-0000
 BHI Job #: 110049956A
 Rig: Patterson 342
 Duration: 10/08/2019-10/12/2019
 Gyrodala MS Gyro <17-1/2">(49.83'-390.11')
 WFT EM <12-1/4">(390.11')(561'-2530')
 WFT EM <8-3/4">(2530')(2667'-5835')
 BH AT Curve <8-1/2"> (5835')(5879'-21335')
 Middlesex: 6168' MD
 Burket: 6331' MD
 Tully: 6388' MD
 Marcellus POE: 6424' MD
 Projected MD at TD: 21360'