



Actual Wellpath Report

Parachute Unit 1H AWP Proj: 19558'

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REFERENCE WELLPATH IDENTIFICATION		
Operator	ANTERO RESOURCES CORPORATION	Slot #01
Area	Tyler County, WV	Parachute Unit 1H
Field	Tyler	Parachute Unit 1H AWB
Facility	Stoneyly Pad	

REPORT SETUP INFORMATION	
Projection System	NAD27 / UTM Zone 17 North, US feet
North Reference	Grid
Scale	0.999601
Convergence at slot	0.05° East
Software System	WellArchitect® 5.1
User	Mccrerib
Report Generated	5/14/2018 at 1:17:05 PM
Database/Source file	WA_MPL_EASTERNUS_DefiniParachute_Unit_1H_AWP_Proj_19558_.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	105.20	-29.91	1662225.87	14314139.54	39°25'04.810"N	80°55'22.000"W
Facility Reference Pt			1662255.77	14314034.38	39°25'03.770"N	80°55'21.620"W
Field Reference Pt			0.00	0.00	0°00'00.000"	85°29'19.301"W

WELLPATH DATUM	
Calculation method	Minimum curvature
Horizontal Reference Pt	Slot
Vertical Reference Pt	Frontier 22 (RKB)
MD Reference Pt	Frontier 22 (RKB)
Field Vertical Reference	Mean Sea Level
	Section Azimuth
	Section Origin
	Frontier 22 (RKB) to Ground Level at Slot (Slot #01)
	Frontier 22 (RKB) to Mean Sea Level
	Frontier 22 (RKB) to Facility Vertical Datum
	1006.50ft
	1006.50ft
	24.50ft
	N 0.00, E 0.00 ft
	339.99°

04/05/2019



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REFERENCE WELLPATH IDENTIFICATION		Slot	Slot #01
Operator	ANTERO RESOURCES CORPORATION	Well	Parachute Unit 1H
Area	Tyler County, WV	Wellbore	Parachute Unit 1H AWB
Field	Tyler		
Facility	Stoneyfield Pad		

WELLPATH DATA (236 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	194.410	0.00	0.00	0.00	0.00	1662225.87	14314139.54	39°25'04.810"N	80°55'22.000"W	0.00	0.000	0.00	0.00	0.00	
24.50	0.000	194.410	24.50	0.00	0.00	0.00	1662225.87	14314139.54	39°25'04.810"N	80°55'22.000"W	0.00	0.000	0.00	0.00	0.00	
109.50	0.370	194.410	109.50	-0.23	-0.27	-0.07	1662225.80	14314139.27	39°25'04.807"N	80°55'22.001"W	0.27	194.410	0.44	0.44	0.44	-194.81 Gyrodatta MS Gyro <17.1/2">(100'-560')
209.50	0.480	203.100	209.50	-0.80	-0.96	-0.31	1662225.55	14314138.57	39°25'04.800"N	80°55'22.004"W	1.01	197.991	0.13	0.11	0.11	8.66
309.50	0.280	221.940	309.49	-1.22	-1.53	-0.64	1662225.23	14314138.01	39°25'04.795"N	80°55'22.008"W	1.66	202.708	0.23	-0.20	18.84	
409.50	0.170	254.020	409.49	-1.32	-1.75	-0.95	1662224.92	14314137.78	39°25'04.793"N	80°55'22.012"W	1.99	208.361	0.16	0.11	32.08	
509.50	0.280	242.860	509.49	-1.38	-2.04	-1.31	1662224.56	14314137.63	39°25'04.791"N	80°55'22.017"W	2.31	214.435	0.12	0.11	-11.16	
612.50	0.160	240.910	612.49	-1.39	-2.12	-1.75	1662224.12	14314137.42	39°25'04.789"N	80°55'22.022"W	2.59	217.884	0.07	0.07	4.03	
702.50	0.780	224.930	702.49	-1.67	-2.62	-2.29	1662223.58	14314136.92	39°25'04.784"N	80°55'22.029"W	3.48	221.229	0.70	0.69	-17.76	
792.50	2.750	236.840	792.44	-2.42	-4.23	-4.53	1662221.34	14314135.31	39°25'04.768"N	80°55'22.058"W	6.20	226.972	2.21	2.19	13.23	
887.50	5.430	235.270	887.19	-4.09	-8.04	-10.14	1662215.73	14314131.50	39°25'04.731"N	80°55'22.129"W	12.94	231.580	2.82	2.82	-1.65	
981.50	7.390	235.930	980.60	-6.68	-13.96	-18.80	1662207.07	14314125.58	39°25'04.672"N	80°55'22.240"W	23.42	233.403	2.09	2.09	0.70	
1076.50	9.190	237.150	1074.60	-9.86	-21.50	-30.24	1662195.64	14314118.05	39°25'04.598"N	80°55'22.385"W	37.10	234.585	1.90	1.89	1.28	
1171.50	11.390	235.730	1168.07	-13.85	-30.90	-44.36	1662181.52	14314108.55	39°25'04.505"N	80°55'22.566"W	54.06	235.143	2.33	2.32	-1.48	
1266.50	12.730	234.190	1260.97	-19.01	-42.30	-60.60	1662165.29	14314070.78	39°25'04.392"N	80°55'22.773"W	73.91	235.083	1.45	1.41	-1.62	
1360.50	14.220	235.390	1352.38	-24.74	-54.92	-78.51	1662147.39	14314084.84	39°25'04.288"N	80°55'23.001"W	95.81	235.023	1.61	1.59	1.28	
1454.50	16.130	236.000	1443.10	-30.81	-68.78	-98.83	1662127.07	14314070.78	39°25'04.131"N	80°55'23.260"W	120.41	235.164	2.04	2.03	0.65	
1549.50	17.350	235.840	1534.07	-37.46	-84.12	-121.50	1662104.42	14314055.45	39°25'03.980"N	80°55'23.549"W	147.77	235.304	1.29	1.28	-0.17	
1643.50	18.680	234.670	1623.46	-44.87	-100.69	-145.38	1662080.55	14314038.89	39°25'03.816"N	80°55'23.853"W	176.84	235.292	1.47	1.41	-1.24	
1738.50	19.070	233.360	1713.35	-53.33	-118.75	-170.24	1662055.69	14314020.83	39°25'03.638"N	80°55'24.170"W	207.57	235.102	0.61	0.41	-1.38	
1832.50	19.390	232.100	1802.11	-62.52	-137.50	-194.88	1662031.07	14314002.09	39°25'03.453"N	80°55'24.485"W	238.50	234.794	0.56	0.34	-1.34	
1927.50	18.740	235.400	1891.90	-71.21	-155.85	-219.88	1662006.07	14313983.74	39°25'03.271"N	80°55'24.803"W	269.52	234.671	1.32	-0.68	3.47	
2022.50	19.090	238.740	1981.77	-78.08	-172.58	-245.72	1661980.24	14313967.02	39°25'03.106"N	80°55'25.133"W	300.27	234.918	1.20	0.37	3.52	
2117.50	19.880	238.280	2071.33	-84.39	-189.14	-272.74	1661953.28	14313950.48	39°25'02.943"N	80°55'25.477"W	331.91	235.260	0.85	0.83	-0.48	
2210.50	17.910	234.330	2159.32	-91.46	-205.79	-297.81	1661928.17	14313933.83	39°25'02.779"N	80°55'25.797"W	362.00	235.355	2.52	-2.12	-4.25	
2305.50	16.480	229.730	2250.07	-100.07	-223.02	-319.97	1661906.03	14313916.61	39°25'02.608"N	80°55'26.079"W	390.02	235.123	2.08	-1.51	-4.84	
2400.50	17.630	229.770	2340.89	-109.71	-241.02	-341.23	1661884.77	14313898.61	39°25'02.431"N	80°55'26.350"W	417.77	234.765	1.21	1.21	0.04	
2494.50	17.300	227.500	2430.56	-119.98	-259.66	-362.40	1661863.61	14313879.98	39°25'02.247"N	80°55'26.620"W	445.82	234.379	0.81	-0.35	-2.41	
2575.50	16.100	224.260	2508.15	-129.46	-275.84	-379.12	1661846.90	14313863.81	39°25'02.087"N	80°55'26.834"W	468.85	233.961	1.87	-1.48	-4.00	



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Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #01
Area	Tyler County, WV	Well	Parachute Unit 1H
Field	Tyler	Wellbore	Parachute Unit 1H AWB
Facility	Stonefly Pad		

WELLPATH DATA (236 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
2693.50	16.000	220.580	2621.55	-144.55	299.91	-401.12	1661824.91	14313839.75	39°25'01.849"N	80°55'27.114"W	500.84	233.215	0.77	-0.08	-3.12	WFT EM <8-3/4">(25666)(2684-6534)
2788.50	17.490	228.130	2712.53	-156.29	-319.39	-420.27	1661805.76	14313820.28	39°25'01.657"N	80°55'27.356"W	527.86	232.767	2.77	1.57	7.95	
2882.50	20.370	235.590	2801.45	-165.63	-338.07	-444.30	1661781.75	14313801.61	39°25'01.472"N	80°55'27.665"W	558.29	232.732	4.00	3.06	7.94	
2979.50	23.380	236.650	2891.46	-174.27	-358.19	-474.31	1661751.75	14313781.49	39°25'01.274"N	80°55'28.047"W	594.36	232.940	3.13	3.10	1.09	
3073.50	24.440	235.390	2977.39	-183.47	-379.49	-505.89	1661720.18	14313760.20	39°25'01.064"N	80°55'28.450"W	632.41	233.125	1.25	1.13	-1.34	
3168.50	24.850	235.480	3063.73	-193.43	-401.96	-538.51	1661687.57	14313737.73	39°25'00.842"N	80°55'28.866"W	671.99	233.261	0.43	0.43	0.09	
3262.50	24.440	234.020	3149.17	-203.73	-424.58	-570.53	1661655.57	14313715.13	39°25'00.618"N	80°55'29.274"W	711.17	233.344	0.78	-0.44	-1.55	
3356.50	25.690	235.620	3234.32	-214.13	-447.51	-603.08	1661623.03	14313692.20	39°25'00.392"N	80°55'29.689"W	750.98	233.423	1.51	1.33	1.70	
3451.50	25.840	233.760	3319.88	-225.03	-471.38	-636.77	1661589.35	14313668.35	39°25'00.156"N	80°55'30.119"W	792.26	233.489	0.87	0.16	-1.96	
3545.50	26.430	236.750	3404.27	-235.55	-494.96	-670.79	1661555.35	14313644.77	39°24'59.924"N	80°55'30.552"W	833.63	233.577	1.54	0.63	3.18	
3643.50	26.680	235.130	3491.93	-246.19	-519.50	-707.08	1661519.07	14313620.25	39°24'59.681"N	80°55'31.015"W	877.41	233.695	0.78	0.26	-1.65	
3737.50	27.140	235.180	3575.75	-257.08	-543.81	-742.00	1661484.17	14313595.95	39°24'59.441"N	80°55'31.480"W	919.94	233.762	0.49	0.49	0.05	
3927.50	24.880	235.340	3747.78	-278.37	-590.42	-807.77	1661418.42	14313549.35	39°24'58.981"N	80°55'31.888"W	961.09	233.800	3.13	-3.08	-1.19	
4021.50	24.560	233.450	3833.17	-288.94	-613.30	-839.73	1661386.48	14313525.48	39°24'58.755"N	80°55'32.299"W	1000.54	233.836	0.90	0.71	1.36	
4116.50	24.750	233.990	3919.51	-300.04	-636.75	-871.67	1661354.54	14313503.04	39°24'58.524"N	80°55'32.706"W	1039.85	233.867	0.91	-0.34	-2.01	
4211.50	25.680	235.460	4005.45	-310.68	-660.11	-904.72	1661321.51	14313479.69	39°24'58.293"N	80°55'33.535"W	1119.94	233.884	1.18	0.98	1.55	
4305.50	25.130	233.490	4090.37	-321.46	-683.54	-937.54	1661288.71	14313456.27	39°24'58.062"N	80°55'33.953"W	1160.26	233.905	1.07	-0.59	-2.10	
4400.50	24.820	234.930	4176.48	-332.37	-707.00	-970.07	1661256.19	14313432.83	39°24'57.830"N	80°55'34.368"W	1200.37	233.915	0.72	-0.33	1.52	
4495.50	25.270	237.320	4262.55	-342.00	-729.40	-1003.46	1661222.81	14313410.43	39°24'57.609"N	80°55'34.793"W	1240.55	233.987	1.17	0.47	2.52	
4589.50	24.470	236.140	4347.84	-351.06	-751.08	-1036.51	1661189.77	14313388.76	39°24'57.395"N	80°55'35.215"W	1280.03	234.072	1.00	-0.85	-1.26	
4684.50	25.190	235.200	4434.05	-360.93	-773.58	-1069.45	1661156.84	14313366.27	39°24'57.173"N	80°55'35.636"W	1319.91	234.120	0.86	0.76	-0.99	
4779.50	26.520	235.790	4519.54	-371.30	-797.05	-1103.60	1661122.72	14313342.81	39°24'56.941"N	80°55'36.070"W	1361.32	234.162	1.43	1.40	0.82	
4874.50	26.120	234.050	4604.69	-382.24	-821.25	-1138.06	1661088.26	14313318.62	39°24'56.703"N	80°55'36.509"W	1403.44	234.185	0.91	-0.42	-1.83	
4968.50	25.130	231.590	4689.45	-394.23	-845.80	-1170.46	1661055.88	14313294.08	39°24'56.460"N	80°55'36.922"W	1444.07	234.147	1.55	-1.05	-2.62	
5063.50	25.230	232.990	4775.42	-406.51	-870.52	-1202.43	1661023.92	14313269.32	39°24'56.216"N	80°55'37.330"W	1484.47	234.097	0.64	0.11	1.47	
5157.50	24.880	231.420	4860.58	-418.67	-894.91	-1233.89	1660992.48	14313244.99	39°24'55.975"N	80°55'37.731"W	1524.25	234.048	0.80	-0.37	-1.67	
5252.50	25.970	231.980	4946.38	-431.47	-920.18	-1266.90	1660960.48	14313219.72	39°24'55.726"N	80°55'38.139"W	1565.00	233.987	1.17	1.15	0.59	
5346.50	26.370	236.140	5030.75	-442.83	-944.49	-1299.45	1660926.94	14313195.42	39°24'55.486"N	80°55'38.567"W	1606.44	233.989	2.00	0.43	4.43	
5441.50	25.940	234.370	5116.02	-453.47	-968.35	-1333.86	1660892.54	14313171.57	39°24'55.250"N	80°55'39.006"W	1648.30	234.021	0.94	-0.45	-1.86	



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Operator	ANTERO RESOURCES CORPORATION	Well	Parachute Unit 1H
Area	Tyler County, WV	Wellbore	Parachute Unit 1H AWB
Field	Tyler		
Facility	Stoneyly Pad		

WELLPATH DATA (236 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
5535.50	25.620	231.500	5200.67	-485.45	-982.98	-1366.47	1660859.94	14313146.95	39°24'55.007"N	80°55'39.421"W	1689.16	233.995	1.37	-0.34	-3.05	
5630.50	24.900	233.120	5288.59	-477.77	-1017.77	-1398.55	1660827.88	14313122.17	39°24'54.762"N	80°55'39.830"W	1729.68	233.955	1.05	-0.76	1.71	
5725.50	24.260	231.920	5372.98	-489.63	-1041.81	-1429.91	1660796.53	14313098.14	39°24'54.525"N	80°55'40.230"W	1769.18	233.923	0.85	-0.67	-1.28	
5819.50	24.210	233.530	5458.69	-501.08	-1065.18	-1460.61	1660765.85	14313074.79	39°24'54.294"N	80°55'40.622"W	1807.76	233.898	0.71	-0.05	1.71	
5914.50	24.400	235.230	5545.27	-511.60	-1087.95	-1492.39	1660734.08	14313052.03	39°24'54.069"N	80°55'41.027"W	1846.85	233.908	0.76	0.20	1.79	
5946.50	24.440	240.090	5574.42	-514.42	-1095.02	-1503.56	1660722.91	14313044.96	39°24'54.000"N	80°55'41.169"W	1860.04	233.935	6.28	0.13	15.19	
5977.50	24.680	244.980	5602.61	-516.09	-1100.95	-1514.98	1660711.49	14313033.89	39°24'53.941"N	80°55'41.315"W	1872.77	233.994	6.60	0.77	15.77	
6009.50	25.040	250.050	5631.65	-516.67	-1106.09	-1527.41	1660699.07	14313033.89	39°24'53.890"N	80°55'41.473"W	1885.84	234.089	6.75	1.13	15.84	
6040.50	25.650	254.300	5659.67	-516.15	-1110.15	-1540.03	1660686.45	14313029.84	39°24'53.850"N	80°55'41.634"W	1898.45	234.214	6.19	1.97	13.71	
6072.50	25.700	259.200	5688.51	-514.52	-1113.32	-1553.52	1660672.97	14313026.66	39°24'53.819"N	80°55'41.806"W	1911.26	234.373	6.63	0.16	15.31	
6104.50	25.590	265.850	5717.37	-511.52	-1115.12	-1567.23	1660659.27	14313024.86	39°24'53.801"N	80°55'41.981"W	1923.46	234.567	9.00	-0.34	20.78	
6135.50	26.220	272.410	5745.26	-507.08	-1115.32	-1580.75	1660645.75	14313024.67	39°24'53.800"N	80°55'42.153"W	1934.61	234.795	9.46	2.03	21.16	
6166.50	27.610	277.510	5772.90	-501.15	-1114.09	-1594.72	1660631.79	14313025.89	39°24'53.812"N	80°55'42.331"W	1945.33	235.061	8.69	4.48	16.45	
6197.50	28.660	282.880	5800.24	-493.79	-1111.49	-1609.09	1660617.42	14313028.49	39°24'53.838"N	80°55'42.514"W	1955.66	235.365	8.84	3.39	17.32	
6229.50	30.100	287.000	5828.13	-484.79	-1107.44	-1624.25	1660602.27	14313032.55	39°24'53.878"N	80°55'42.707"W	1965.86	235.713	7.75	4.50	12.87	
6260.50	30.310	289.990	5854.92	-475.08	-1102.49	-1639.03	1660587.49	14313037.49	39°24'53.927"N	80°55'42.895"W	1975.32	236.073	4.90	0.68	9.65	
6291.50	30.270	294.830	5881.70	-464.55	-1096.53	-1653.48	1660573.05	14313043.44	39°24'53.986"N	80°55'43.079"W	1984.03	236.449	7.87	-0.13	15.61	
6323.50	31.880	299.900	5909.11	-452.39	-1088.93	-1668.12	1660558.41	14313051.04	39°24'54.061"N	80°55'43.266"W	1992.09	236.864	9.60	5.03	15.84	
6354.50	33.360	304.870	5935.22	-439.15	-1079.98	-1682.22	1660544.32	14313059.99	39°24'54.150"N	80°55'43.445"W	1999.05	237.300	9.87	4.77	16.03	
6386.50	35.440	309.750	5961.63	-423.94	-1069.01	-1696.57	1660529.97	14313070.96	39°24'54.258"N	80°55'43.628"W	2005.28	237.785	10.79	6.50	15.25	
6418.50	37.280	313.380	5987.40	-407.25	-1056.42	-1710.75	1660515.80	14313083.54	39°24'54.383"N	80°55'43.809"W	2010.65	238.304	8.85	5.75	11.34	
6449.50	39.030	316.680	6011.78	-389.89	-1042.87	-1724.28	1660502.28	14313097.09	39°24'54.517"N	80°55'43.981"W	2015.12	238.834	8.67	5.65	10.65	
6481.50	40.400	319.540	6036.40	-370.92	-1027.64	-1737.92	1660488.65	14313112.31	39°24'54.667"N	80°55'44.155"W	2019.01	239.404	7.14	4.28	8.94	
6499.00†	41.115	321.572	6049.65	-360.15	-1018.82	-1745.18	1660481.39	14313121.12	39°24'54.755"N	80°55'44.247"W	2020.80	239.724	8.61	4.08	11.61	Sycamore: 6499MD / 6049TVD
6512.50	41.690	323.100	6059.78	-351.64	-1011.75	-1750.63	1660475.94	14313128.19	39°24'54.825"N	80°55'44.316"W	2021.97	239.975	8.61	4.26	11.32	
6543.50	43.950	325.710	6082.51	-331.34	-994.61	-1762.89	1660463.69	14313145.32	39°24'54.994"N	80°55'44.472"W	2024.11	240.569	9.37	7.42	8.42	
6598.00	47.570	329.440	6120.52	-293.20	-961.64	-1783.79	1660442.80	14313178.28	39°24'55.320"N	80°55'44.738"W	2026.49	241.671	8.20	6.57	6.84	BH I AT Curve <-8-1/2"> (6543.50) (6598-19533)
6662.00	50.310	330.350	6162.55	-245.70	-919.89	-1807.98	1660418.61	14313220.01	39°24'55.733"N	80°55'45.046"W	2028.55	243.033	4.41	4.28	1.42	
6709.00	50.550	331.280	6192.49	-209.93	-888.26	-1825.65	1660400.95	14313251.63	39°24'56.046"N	80°55'45.271"W	2030.27	244.055	1.61	0.51	1.98	
6734.00†	50.468	331.992	6208.39	-190.84	-871.29	-1834.82	1660391.79	14313268.60	39°24'56.214"N	80°55'45.388"W	2031.18	244.599	2.22	-0.33	2.85	Middlesex: 6734MD / 6208TVD



Actual Wellpath Report

Parachute Unit 1H AWP Proj: 19558'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #01
Area	Tyler County, WV	Well	Parachute Unit 1H
Field	Tyler	Wellbore	Parachute Unit 1H AWB
Facility	Stoneyfield Pad		

WELLPATH DATA (236 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
6756.00	50.400	332.620	6222.41	-174.04	-856.27	-1842.70	1660383.91	14313283.61	39°24'56.362"N	80°55'45.486"W	2031.93	245.077	2.22	-0.31	2.85	
6803.00	51.560	334.310	6252.00	-137.76	-823.60	-1859.00	1660367.61	14313316.27	39°24'56.685"N	80°55'45.695"W	2033.28	246.105	3.73	2.47	3.60	
6849.00	56.360	335.290	6279.06	-100.73	-789.95	-1874.83	1660351.79	14313349.90	39°24'57.018"N	80°55'45.897"W	2034.45	247.152	10.58	10.43	2.13	
6887.00†	60.232	336.139	6299.02	-68.49	-760.49	-1888.12	1660338.51	14313379.36	39°24'57.309"N	80°55'46.066"W	2035.52	248.062	10.37	10.19	2.23	Burket: 6887MD / 6299TVD
6896.00	61.150	336.330	6303.43	-60.96	-753.30	-1891.28	1660335.35	14313386.54	39°24'57.380"N	80°55'46.106"W	2035.78	248.282	10.37	10.20	2.12	
6932.00†	65.047	337.459	6319.71	-28.61	-723.78	-1903.87	1660322.76	14313416.05	39°24'57.672"N	80°55'46.266"W	2036.81	249.185	11.18	10.83	3.14	Tully: 6932MD / 6319.71
6943.00	66.240	337.790	6324.25	-18.60	-714.51	-1907.69	1660318.95	14313425.31	39°24'57.764"N	80°55'46.314"W	2037.10	249.467	11.18	10.84	3.00	
6989.00†	71.163	339.024	6340.95	24.23	-674.67	-1923.45	1660303.19	14313465.13	39°24'58.157"N	80°55'46.515"W	2038.34	250.671	10.99	10.70	2.60	POE Marcellus: 6989MD / 6341TVD
6990.00	71.270	339.050	6341.28	25.17	-673.79	-1923.78	1660302.86	14313466.02	39°24'58.166"N	80°55'46.519"W	2038.37	250.698	10.99	10.71	2.60	
7037.00	75.610	341.010	6354.67	70.21	-631.46	-1939.16	1660287.49	14313508.33	39°24'58.585"N	80°55'46.715"W	2039.38	251.963	10.06	9.23	4.17	
7084.00	81.420	341.100	6364.02	116.24	-587.91	-1954.10	1660272.55	14313551.86	39°24'59.015"N	80°55'46.905"W	2040.63	253.256	12.36	12.36	0.19	
7131.00	86.860	341.960	6368.82	162.96	-543.58	-1968.91	1660257.75	14313596.17	39°24'59.453"N	80°55'47.093"W	2042.57	254.566	11.72	11.57	1.83	
7178.00	89.970	341.600	6370.12	209.92	-498.96	-1983.60	1660243.07	14313640.78	39°24'59.895"N	80°55'47.280"W	2045.39	255.881	6.66	6.62	-0.77	
7225.00	89.940	340.810	6370.16	256.90	-454.47	-1998.74	1660227.93	14313685.25	39°25'00.334"N	80°55'47.472"W	2049.76	257.190	1.68	-0.06	-1.68	
7319.00	90.620	339.100	6369.70	350.90	-366.17	-2030.96	1660195.73	14313773.52	39°25'01.207"N	80°55'47.882"W	2063.70	259.780	1.96	0.72	-1.82	
7413.00	90.460	335.750	6368.81	444.79	-278.39	-2067.04	1660159.66	14313860.26	39°25'02.065"N	80°55'48.340"W	2085.83	262.302	3.57	-0.17	-3.56	
7507.00	90.620	334.500	6367.93	538.44	-194.11	-2106.57	1660120.14	14313945.50	39°25'02.908"N	80°55'48.843"W	2115.50	264.735	1.34	0.17	-1.33	
7601.00	90.580	333.940	6366.94	631.96	-109.47	-2147.45	1660079.28	14314030.11	39°25'03.745"N	80°55'49.363"W	2150.24	267.082	0.60	-0.04	-0.60	
7695.00	91.020	334.680	6365.63	725.49	-24.77	-2188.20	1660038.55	14314114.77	39°25'04.583"N	80°55'49.882"W	2188.34	269.351	0.92	0.47	0.79	
7788.00	92.180	335.910	6363.03	818.14	59.68	-2227.05	1659999.71	14314199.19	39°25'05.418"N	80°55'50.376"W	2227.85	271.535	1.82	1.25	1.32	
7884.00	90.060	339.000	6361.16	914.01	148.31	-2263.84	1659962.93	14314287.79	39°25'06.294"N	80°55'50.844"W	2268.70	273.748	3.90	-2.21	3.22	
7979.00	90.310	340.820	6360.85	1009.00	237.53	-2296.47	1659930.32	14314376.97	39°25'07.176"N	80°55'51.259"W	2308.73	275.905	1.93	0.26	1.92	
8074.00	90.150	338.650	6360.47	1104.00	326.64	-2329.38	1659897.43	14314466.04	39°25'08.057"N	80°55'51.677"W	2352.17	277.982	2.29	-0.17	-2.28	
8169.00	90.740	340.930	6359.73	1198.99	415.78	-2362.19	1659864.62	14314555.15	39°25'08.938"N	80°55'52.095"W	2398.50	279.983	2.48	0.62	2.40	
8265.00	90.460	342.670	6358.72	1294.93	506.97	-2392.17	1659834.65	14314646.30	39°25'09.840"N	80°55'52.476"W	2445.30	281.966	1.84	-0.29	1.81	
8360.00	90.680	345.420	6357.78	1389.68	598.30	-2418.28	1659808.55	14314737.59	39°25'10.743"N	80°55'52.807"W	2491.20	283.896	2.60	0.23	2.89	
8455.00	90.520	347.890	6356.78	1484.02	690.72	-2440.21	1659786.64	14314829.98	39°25'11.656"N	80°55'53.086"W	2536.08	285.805	2.61	-0.17	2.60	
8550.00	90.580	347.240	6355.87	1578.19	783.49	-2460.66	1659766.19	14314922.71	39°25'12.573"N	80°55'53.346"W	2582.39	287.662	0.69	0.06	-0.68	
8645.00	90.650	345.100	6354.85	1672.63	875.72	-2483.37	1659743.49	14315014.91	39°25'13.486"N	80°55'53.634"W	2633.25	289.424	2.25	0.07	-2.25	
8740.00	90.710	342.080	6353.72	1767.42	966.83	-2510.23	1659716.67	14315105.98	39°25'14.396"N	80°55'53.975"W	2689.96	291.065	3.18	0.06	-3.18	



Actual Wellpath Report

Parachute Unit 1H AWP Proj: 19558'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #01
Area	Tyler County, WV	Well	Parachute Unit 1H
Field	Tyler	Wellbore	Parachute Unit 1H AWB
Facility	Stoneyly Pad		

WELLPATH DATA (236 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
8836.00	90.580	340.880	6352.64	1863.38	1057.86	-2540.69	1659686.19	14315196.97	39°25'15.286"N	80°55'54.363"W	2752.12	292.605	1.26	-0.14	-1.25	
8931.00	90.520	342.300	6351.73	1958.34	1147.99	-2570.69	1659656.21	14315287.06	39°25'16.177"N	80°55'54.744"W	2815.38	294.084	1.50	-0.06	1.49	
9026.00	90.520	344.880	6350.87	2053.14	1239.11	-2597.53	1659629.38	14315378.15	39°25'17.077"N	80°55'55.085"W	2877.94	295.503	2.72	0.00	2.72	
9121.00	90.620	346.540	6349.92	2147.66	1331.16	-2620.98	1659606.94	14315470.16	39°25'17.987"N	80°55'55.383"W	2939.64	296.925	1.75	0.11	1.75	
9217.00	90.400	345.420	6349.07	2243.13	1424.29	-2644.23	1659582.70	14315563.26	39°25'18.908"N	80°55'55.679"W	3003.43	298.309	1.19	-0.23	-1.17	
9312.00	90.340	344.710	6348.46	2337.75	1518.08	-2668.71	1659558.22	14315655.01	39°25'19.815"N	80°55'55.990"W	3069.29	299.601	0.75	-0.06	-0.75	
9407.00	90.520	343.530	6347.74	2432.50	1607.45	-2694.71	1659532.24	14315746.34	39°25'20.719"N	80°55'56.320"W	3137.73	300.817	1.26	0.19	-1.24	
9502.00	90.520	342.800	6346.88	2527.35	1698.38	-2722.22	1659504.74	14315837.23	39°25'21.617"N	80°55'56.670"W	3208.58	301.960	0.77	0.00	-0.77	
9598.00	90.520	340.520	6346.01	2623.30	1789.49	-2752.42	1659474.55	14315928.31	39°25'22.518"N	80°55'57.054"W	3283.00	303.030	2.37	0.00	-2.38	
9693.00	90.620	335.290	6345.06	2718.20	1877.48	-2788.14	1659438.84	14316016.26	39°25'23.388"N	80°55'57.508"W	3361.35	303.956	5.51	0.11	-5.51	
9788.00	90.520	331.480	6344.12	2812.55	1967.39	-2830.69	1659396.31	14316101.14	39°25'24.228"N	80°55'58.049"W	3444.39	304.732	4.01	-0.11	-4.01	
9882.00	90.490	327.990	6343.29	2905.03	2043.56	-2878.06	1659348.96	14316182.28	39°25'25.030"N	80°55'58.652"W	3529.78	305.377	3.71	-0.03	-3.71	
9977.00	90.400	327.990	6342.55	2997.95	2124.12	-2928.41	1659298.63	14316262.80	39°25'25.827"N	80°55'59.293"W	3617.66	305.955	0.09	-0.09	0.00	
10071.00	90.400	332.650	6341.90	3090.58	2205.76	-2974.94	1659252.12	14316344.41	39°25'26.634"N	80°55'59.885"W	3703.47	306.555	4.96	0.00	4.96	
10167.00	90.520	336.780	6341.12	3186.15	2292.54	-3015.94	1659211.14	14316431.16	39°25'27.492"N	80°56'00.407"W	3788.35	307.240	4.30	0.12	4.30	
10261.00	90.520	339.410	6340.27	3280.09	2379.74	-3051.00	1659176.09	14316518.33	39°25'28.354"N	80°56'00.853"W	3869.34	307.954	2.80	0.00	2.80	
10356.00	90.550	339.450	6339.38	3375.08	2468.68	-3084.38	1659142.73	14316607.23	39°25'29.233"N	80°56'01.277"W	3950.67	308.673	0.05	0.03	0.04	
10450.00	90.370	339.450	6338.63	3469.07	2556.70	-3117.37	1659109.74	14316695.21	39°25'30.104"N	80°56'01.697"W	4031.72	309.357	0.19	-0.19	0.00	
10544.00	90.580	340.360	6337.85	3563.07	2644.97	-3149.67	1659077.46	14316783.45	39°25'30.976"N	80°56'02.108"W	4112.94	310.022	0.99	0.22	0.97	
10640.00	90.620	340.040	6336.84	3659.06	2735.29	-3182.19	1659044.96	14316873.73	39°25'31.869"N	80°56'02.521"W	4196.20	310.681	0.34	0.04	-0.33	
10735.00	90.370	337.160	6336.02	3754.02	2823.73	-3216.84	1659010.31	14316962.13	39°25'32.744"N	80°56'02.962"W	4280.37	311.276	3.04	-0.26	-3.03	
10828.00	90.520	337.430	6335.30	3846.92	2909.52	-3252.74	1658974.43	14317047.89	39°25'33.592"N	80°56'03.419"W	4364.13	311.812	0.33	0.16	0.29	
10922.00	90.490	337.300	6334.47	3940.81	2996.28	-3288.92	1658938.27	14317134.61	39°25'34.449"N	80°56'03.879"W	4449.12	312.334	0.14	-0.03	-0.14	
11017.00	90.490	337.370	6333.66	4035.71	3083.94	-3325.52	1658901.68	14317222.24	39°25'35.316"N	80°56'04.345"W	4535.39	312.841	0.07	0.00	0.07	
11112.00	90.490	338.430	6332.85	4130.64	3171.95	-3361.26	1658865.96	14317310.22	39°25'36.186"N	80°56'04.799"W	4621.62	313.340	1.12	0.00	1.12	
11206.00	90.460	340.550	6332.07	4224.63	3259.99	-3394.19	1658833.04	14317398.21	39°25'37.057"N	80°56'05.218"W	4706.17	313.845	2.26	-0.03	2.26	
11300.00	90.580	341.190	6331.22	4318.61	3348.79	-3425.00	1658802.25	14317486.98	39°25'37.934"N	80°56'05.610"W	4790.09	314.355	0.69	0.13	0.68	
11394.00	90.400	340.750	6330.41	4412.60	3437.65	-3455.65	1658771.61	14317575.81	39°25'38.813"N	80°56'06.000"W	4874.31	314.850	0.51	-0.18	-0.47	
11487.00	90.550	340.530	6329.64	4505.59	3525.39	-3486.47	1658740.79	14317663.51	39°25'39.680"N	80°56'06.392"W	4958.21	315.318	0.29	0.16	-0.24	
11582.00	90.460	343.990	6328.80	4600.49	3615.85	-3515.41	1658711.86	14317753.94	39°25'40.575"N	80°56'06.760"W	5043.07	315.807	3.64	-0.09	3.64	



Actual Wellpath Report

Parachute Unit 1H AWP Proj: 19558'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #01
Area	Tyler County, WV	Well	Parachute Unit 1H
Field	Tyler	Wellbore	Parachute Unit 1H AWB
Facility	Stonefly Pad		

WELLPATH DATA (236 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
11672.00	90.490	347.580	6328.02	4694.99	3707.93	-3538.74	1658688.55	14317845.98	39°25'41.485"N	80°56'07.056"W	5125.56	316.337	3.78	0.03	3.78	
11772.00	90.580	351.660	6327.13	4788.63	3801.35	-3555.85	1658671.44	14317939.36	39°25'42.408"N	80°56'07.273"W	5205.22	316.911	4.30	0.09	4.29	
11867.00	90.580	354.170	6326.17	4881.21	3895.61	-3567.57	1658659.73	14318033.58	39°25'43.340"N	80°56'07.422"W	5282.36	317.517	2.64	0.00	2.64	
11962.00	91.230	350.010	6324.66	4974.07	3989.67	-3580.84	1658646.67	14318127.61	39°25'44.270"N	80°56'07.587"W	5360.82	318.093	4.43	0.68	-4.38	
12056.00	90.430	343.710	6323.30	5067.33	4081.16	-3601.99	1658625.32	14318219.05	39°25'45.174"N	80°56'07.859"W	5443.36	318.569	6.76	-0.85	-6.70	
12150.00	90.460	341.890	6322.57	5161.21	4170.95	-3629.79	1658597.54	14318308.61	39°25'46.062"N	80°56'08.212"W	5529.21	318.988	1.94	0.03	-1.94	
12244.00	90.460	340.710	6321.82	5255.18	4259.98	-3659.92	1658567.41	14318397.81	39°25'46.942"N	80°56'08.595"W	5616.27	319.333	1.26	0.00	-1.26	
12338.00	90.460	341.170	6321.05	5350.17	4349.77	-3690.94	1658536.40	14318487.56	39°25'47.829"N	80°56'08.990"W	5704.70	319.684	0.48	0.00	0.48	
12434.00	90.430	340.130	6320.32	5445.16	4439.40	-3722.42	1658504.94	14318577.15	39°25'48.716"N	80°56'09.390"W	5793.50	320.020	1.10	-0.03	-1.09	
12530.00	90.520	337.630	6319.52	5541.13	4528.94	-3757.01	1658470.37	14318666.66	39°25'49.601"N	80°56'09.830"W	5884.42	320.322	2.61	0.09	-2.60	
12625.00	90.460	339.020	6318.71	5636.08	4617.22	-3792.09	1658435.30	14318754.90	39°25'50.473"N	80°56'10.276"W	5974.83	320.604	1.46	-0.06	1.46	
12719.00	90.460	340.840	6317.95	5730.07	4705.50	-3824.35	1658403.05	14318843.15	39°25'51.346"N	80°56'10.687"W	6063.61	320.898	1.94	0.00	1.94	
12814.00	90.400	342.310	6317.24	5825.03	4795.63	-3854.37	1658373.04	14318933.24	39°25'52.237"N	80°56'11.069"W	6152.58	321.210	1.55	-0.06	1.55	
12909.00	90.520	341.130	6316.48	5919.99	4885.83	-3884.17	1658343.26	14319023.40	39°25'53.129"N	80°56'11.447"W	6241.64	321.516	1.25	0.13	-1.24	
13005.00	90.550	338.280	6315.58	6015.97	4975.85	-3917.46	1658309.98	14319113.39	39°25'54.019"N	80°56'11.871"W	6332.90	321.787	2.97	0.03	-2.97	
13100.00	90.460	335.160	6314.74	6110.80	5063.11	-3955.00	1658272.45	14319200.61	39°25'54.882"N	80°56'12.349"W	6424.72	322.005	3.29	-0.09	-3.28	
13194.00	90.520	335.410	6313.94	6204.48	5148.49	-3994.30	1658233.17	14319285.96	39°25'55.726"N	80°56'12.849"W	6516.24	322.195	0.27	0.06	0.27	
13288.00	90.550	335.210	6313.06	6298.16	5233.89	-4033.56	1658193.92	14319371.33	39°25'56.570"N	80°56'13.348"W	6607.82	322.380	0.22	0.03	-0.21	
13383.00	90.340	335.040	6312.32	6392.82	5320.08	-4073.52	1658153.98	14319457.48	39°25'57.422"N	80°56'13.857"W	6700.51	322.569	0.28	-0.22	-0.18	
13478.00	90.580	334.870	6311.56	6487.45	5406.14	-4113.74	1658113.78	14319543.51	39°25'58.273"N	80°56'14.369"W	6793.32	322.731	0.31	0.25	-0.18	
13572.00	90.490	335.970	6310.68	6581.14	5491.62	-4152.84	1658074.70	14319628.95	39°25'59.118"N	80°56'14.866"W	6885.05	322.903	1.17	-0.10	1.17	
13666.00	90.770	338.620	6309.65	6675.02	5575.32	-4189.12	1658038.43	14319715.62	39°25'59.975"N	80°56'15.328"W	6976.13	323.095	2.83	0.30	2.82	
13760.00	90.680	336.160	6308.46	6768.91	5665.08	-4225.25	1658002.32	14319802.35	39°26'00.833"N	80°56'15.787"W	7067.24	323.283	2.82	-0.10	-2.62	
13854.00	90.740	337.500	6307.30	6862.76	5751.49	-4262.23	1657965.35	14319888.72	39°26'01.687"N	80°56'16.258"W	7158.65	323.459	1.43	0.06	1.43	
13948.00	90.830	338.510	6306.01	6956.69	5838.64	-4297.43	1657930.16	14319975.84	39°26'02.549"N	80°56'16.706"W	7249.67	323.646	1.08	0.10	1.07	
14042.00	90.770	337.740	6304.69	7050.63	5925.87	-4332.45	1657895.16	14320063.02	39°26'03.411"N	80°56'17.151"W	7340.71	323.829	0.82	-0.06	-0.82	
14136.00	90.740	338.160	6303.43	7144.57	6012.98	-4367.74	1657859.88	14320150.11	39°26'04.272"N	80°56'17.600"W	7431.90	324.006	0.45	0.00	0.45	
14231.00	90.740	335.410	6302.18	7239.40	6100.27	-4405.18	1657822.46	14320237.36	39°26'05.135"N	80°56'18.077"W	7524.56	324.166	2.89	-0.03	-2.89	
14325.00	90.890	335.960	6300.84	7333.13	6185.93	-4443.88	1657783.77	14320322.98	39°26'05.982"N	80°56'18.569"W	7616.68	324.307	0.61	0.16	0.59	
14419.00	91.020	337.070	6299.28	7426.94	6272.13	-4481.33	1657746.33	14320409.15	39°26'06.835"N	80°56'19.046"W	7708.56	324.455	1.19	0.14	1.18	



Actual Wellpath Report

Parachute Unit 1H AWP Proj: 19558'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #01
Area	Tyler County, WV	Well	Parachute Unit 1H
Field	Tyler	Wellbore	Parachute Unit 1H AWB
Facility	Stonefly Pad		

WELLPATH DATA (236 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
14513.00	91.170	340.210	6297.48	7520.88	6359.64	-4515.56	1657712.12	14320496.63	39°26'07.700"N	80°56'19.481"W	7799.70	324.624	3.34	0.16	3.34	
14608.00	91.290	343.080	6295.44	7615.81	6449.78	-4545.46	1657682.23	14320586.73	39°26'08.591"N	80°56'19.862"W	7890.56	324.826	3.02	0.13	3.02	
14702.00	91.170	343.960	6293.42	7709.61	6539.90	-4572.12	1657655.58	14320676.81	39°26'09.482"N	80°56'20.201"W	7979.63	325.042	0.94	-0.13	0.94	
14796.00	90.860	346.630	6291.76	7803.18	6630.80	-4695.98	1657613.73	14320767.67	39°26'10.380"N	80°56'20.508"W	8067.87	325.273	2.86	-0.33	2.84	
14892.00	90.920	345.510	6290.26	7898.63	6723.96	-4619.09	1657608.63	14320860.80	39°26'11.301"N	80°56'20.798"W	8157.67	325.513	1.17	0.06	-1.17	
14985.00	91.010	341.520	6288.70	7991.42	6813.11	-4645.47	1657582.26	14320949.91	39°26'12.182"N	80°56'21.133"W	8246.14	325.712	4.29	0.10	-4.29	
15079.00	90.950	339.870	6287.09	8085.40	6901.80	-4676.54	1657551.21	14321038.57	39°26'13.059"N	80°56'21.528"W	8336.96	325.879	1.76	-0.06	-1.76	
15173.00	90.890	338.970	6285.58	8179.38	6989.79	-4709.58	1657518.18	14321126.52	39°26'13.929"N	80°56'21.949"W	8428.36	326.029	0.96	-0.06	-0.96	
15267.00	91.020	336.780	6284.01	8273.30	7076.85	-4744.97	1657482.80	14321213.55	39°26'14.790"N	80°56'22.399"W	8520.37	326.158	2.33	0.14	-2.33	
15362.00	90.860	336.780	6282.46	8368.14	7164.15	-4782.42	1657445.37	14321300.81	39°26'15.653"N	80°56'22.876"W	8613.74	326.275	0.17	-0.17	0.00	
15456.00	90.550	339.730	6281.30	8462.08	7251.44	-4817.24	1657410.56	14321388.07	39°26'16.516"N	80°56'23.319"W	8705.70	326.403	3.16	-0.33	3.14	
15551.00	90.580	341.200	6280.36	8557.07	7340.97	-4849.00	1657378.81	14321477.56	39°26'17.401"N	80°56'23.723"W	8797.88	326.554	1.55	0.03	1.55	
15646.00	90.650	343.190	6279.34	8651.99	7431.41	-4878.05	1657349.78	14321567.96	39°26'18.295"N	80°56'24.092"W	8889.39	326.719	2.10	0.07	2.09	
15741.00	90.650	345.090	6278.26	8746.73	7522.78	-4904.01	1657323.83	14321659.30	39°26'19.198"N	80°56'24.422"W	8980.06	326.900	2.00	0.00	2.00	
15837.00	90.620	344.420	6277.20	8842.39	7615.40	-4929.25	1657298.60	14321751.88	39°26'20.114"N	80°56'24.743"W	9071.48	327.086	0.70	-0.03	-0.70	
15932.00	90.680	341.730	6276.12	8937.24	7706.27	-4956.90	1657270.95	14321842.71	39°26'21.012"N	80°56'25.095"W	9162.83	327.250	2.83	0.06	-2.83	
16026.00	90.520	340.410	6275.14	9031.21	7795.18	-4987.39	1657240.47	14321931.58	39°26'21.891"N	80°56'25.483"W	9254.13	327.389	1.41	-0.17	-1.40	
16121.00	90.680	341.020	6274.14	9126.20	7884.84	-5018.77	1657209.11	14322021.21	39°26'22.777"N	80°56'25.882"W	9346.59	327.523	0.66	0.17	0.64	
16216.00	90.650	341.780	6273.04	9221.16	7974.87	-5049.07	1657178.83	14322111.21	39°26'23.667"N	80°56'26.267"W	9438.84	327.661	0.80	-0.03	0.80	
16311.00	90.550	339.750	6272.05	9316.14	8064.56	-5080.36	1657147.55	14322200.86	39°26'24.554"N	80°56'26.665"W	9531.38	327.791	2.14	-0.11	-2.14	
16405.00	90.680	336.810	6271.04	9410.09	8151.87	-5115.14	1657112.78	14322288.13	39°26'25.417"N	80°56'27.108"W	9623.81	327.893	3.13	0.14	-3.13	
16499.00	90.620	332.980	6269.97	9503.69	8236.97	-5155.01	1657072.92	14322373.20	39°26'26.258"N	80°56'27.615"W	9717.09	327.960	4.07	-0.06	-4.07	
16593.00	90.550	331.380	6269.01	9596.81	8320.10	-5198.88	1657029.07	14322456.29	39°26'27.080"N	80°56'28.174"W	9810.83	328.000	1.70	-0.07	-1.70	
16687.00	90.620	332.960	6268.05	9689.93	8403.22	-5242.76	1656985.21	14322539.38	39°26'27.902"N	80°56'28.732"W	9904.57	328.040	1.68	0.07	1.68	
16782.00	90.550	331.570	6267.08	9784.06	8487.30	-5286.97	1656941.02	14322623.43	39°26'28.733"N	80°56'29.295"W	9999.31	328.080	1.46	-0.07	-1.46	
16875.00	90.030	334.800	6266.61	9876.39	8570.28	-5328.92	1656899.09	14322706.38	39°26'29.554"N	80°56'29.829"W	10091.93	328.127	3.52	-0.56	3.47	
16969.00	90.370	338.680	6266.28	9970.22	8656.63	-5366.03	1656861.99	14322792.69	39°26'30.407"N	80°56'30.302"W	10184.86	328.206	4.14	0.36	4.13	
17062.00	90.310	340.600	6265.73	10063.21	8743.81	-5398.38	1656829.65	14322879.84	39°26'31.269"N	80°56'30.713"W	10276.03	328.309	2.07	-0.06	2.06	
17156.00	90.400	341.880	6265.15	10157.19	8832.81	-5428.61	1656799.43	14322968.80	39°26'32.149"N	80°56'31.098"W	10367.66	328.425	1.37	0.10	1.36	
17249.00	90.430	342.300	6264.47	10250.12	8921.30	-5457.21	1656770.85	14323057.26	39°26'33.024"N	80°56'31.482"W	10458.05	328.546	0.45	0.03	0.45	



Actual Wellpath Report

Parachute Unit 1H AWP Proj: 19558'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #01
Area	Tyler County, WV	Well	Parachute Unit 1H
Field	Tyler	Wellbore	Parachute Unit 1H AWB
Facility	Stonely Pad		

WELLPATH DATA (236 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
17343.00	90.310	343.810	6263.87	10343.98	9011.22	-5484.61	1656743.46	14323147.14	39°26'33.913"N	80°56'31.810"W	10549.07	328.674	1.61	-0.13	1.61	
17436.00	90.400	344.500	6263.29	10436.73	9100.68	-5510.00	1656718.08	14323236.57	39°26'34.797"N	80°56'32.133"W	10638.73	328.807	0.75	0.10	0.74	
17530.00	90.520	345.540	6262.53	10530.37	9191.48	-5534.29	1656693.79	14323327.33	39°26'35.695"N	80°56'32.442"W	10729.02	328.947	1.11	0.13	1.11	
17624.00	90.340	343.510	6261.83	10624.07	9282.07	-5559.37	1656668.73	14323417.88	39°26'36.590"N	80°56'32.761"W	10819.59	329.081	2.17	-0.19	-2.16	
17718.00	90.370	341.650	6261.25	10717.96	9371.75	-5587.51	1656640.60	14323507.53	39°26'37.477"N	80°56'33.119"W	10911.00	329.196	1.98	0.03	-1.98	
17812.00	90.460	342.290	6260.57	10811.91	9461.13	-5616.61	1656611.52	14323596.87	39°26'38.360"N	80°56'33.489"W	11002.70	329.304	0.69	0.10	0.68	
17906.00	90.460	343.240	6259.81	10905.79	9550.91	-5644.46	1656583.68	14323686.61	39°26'39.248"N	80°56'33.843"W	11094.13	329.417	1.01	0.00	1.01	
17999.00	90.340	342.250	6259.16	10998.68	9639.72	-5672.04	1656556.10	14323775.39	39°26'40.126"N	80°56'34.194"W	11184.64	329.527	1.07	-0.13	-1.06	
18093.00	90.430	340.000	6258.53	11092.65	9728.66	-5702.45	1656525.71	14323864.29	39°26'41.005"N	80°56'34.581"W	11276.73	329.623	2.40	0.10	-2.39	
18188.00	90.280	339.440	6257.94	11187.65	9817.77	-5735.38	1656492.79	14323953.36	39°26'41.888"N	80°56'35.000"W	11370.27	329.707	0.61	-0.16	-0.59	
18283.00	90.280	340.480	6257.48	11282.65	9907.01	-5767.93	1656460.25	14324042.57	39°26'42.768"N	80°56'35.414"W	11463.76	329.792	1.09	0.00	1.09	
18377.00	90.180	339.510	6257.10	11378.65	9995.34	-5800.09	1656428.11	14324130.86	39°26'43.641"N	80°56'35.823"W	11556.29	329.874	1.04	-0.11	-1.03	
18472.00	90.250	339.090	6256.74	11471.64	10084.19	-5833.71	1656394.50	14324219.68	39°26'44.520"N	80°56'36.251"W	11650.02	329.951	0.51	0.07	-0.51	
18565.00	90.250	338.470	6256.34	11564.61	10170.86	-5867.42	1656360.80	14324306.32	39°26'45.376"N	80°56'36.680"W	11741.94	330.020	0.60	0.00	-0.60	
18659.00	90.220	337.440	6255.95	11658.55	10257.99	-5902.70	1656325.54	14324393.41	39°26'46.238"N	80°56'37.129"W	11835.04	330.083	1.10	-0.03	-1.10	
18753.00	90.220	339.200	6255.59	11752.51	10345.33	-5937.42	1656290.83	14324480.72	39°26'47.101"N	80°56'37.571"W	11928.07	330.148	1.87	0.00	1.87	
18848.00	90.180	340.240	6255.26	11847.51	10434.44	-5970.35	1656257.91	14324569.79	39°26'47.982"N	80°56'37.990"W	12021.76	330.223	1.10	-0.04	1.09	
18943.00	90.220	340.210	6254.93	11942.50	10523.84	-6002.49	1656225.79	14324659.15	39°26'48.866"N	80°56'38.399"W	12115.33	330.301	0.05	0.04	-0.03	
19037.00	90.220	340.360	6254.57	12036.50	10612.33	-6034.20	1656194.09	14324747.61	39°26'49.741"N	80°56'38.803"W	12207.91	330.377	0.16	0.00	0.16	
19131.00	90.180	340.780	6254.24	12130.50	10700.98	-6065.47	1656162.83	14324836.22	39°26'50.617"N	80°56'39.201"W	12300.44	330.455	0.45	-0.04	0.45	
19225.00	90.400	342.360	6253.76	12224.46	10790.15	-6095.19	1656133.13	14324925.36	39°26'51.499"N	80°56'39.579"W	12392.69	330.539	1.70	0.23	1.68	
19319.00	90.740	344.370	6252.82	12319.28	10881.17	-6122.38	1656105.95	14325016.33	39°26'52.398"N	80°56'39.925"W	12485.32	330.635	2.15	0.36	2.12	
19414.00	90.710	345.080	6251.63	12412.95	10971.84	-6147.14	1656081.19	14325106.97	39°26'53.295"N	80°56'40.240"W	12578.51	330.740	0.76	-0.03	0.76	
19507.00	90.620	342.290	6250.55	12505.74	11061.08	-6173.26	1656055.08	14325196.17	39°26'54.177"N	80°56'40.572"W	12671.15	330.834	3.00	-0.10	-3.00	
19533.00	90.680	341.790	6250.25	12531.73	11085.81	-6181.28	1656047.07	14325220.90	39°26'54.421"N	80°56'40.674"W	12692.65	330.857	1.94	0.23	-1.92	
19558.00	90.680	341.790	6249.96	12556.71	11109.55	-6189.09	1656039.26	14325244.63	39°26'54.656"N	80°56'40.773"W	12717.20	330.878	0.00	0.00	0.00	Projected MD @ TD: 19558



Actual Wellpath Report

Parachute Unit 1H AWP Proj: 19558'

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REFERENCE WELLPATH IDENTIFICATION

Operator	Slot	Slot #01
ANTERO RESOURCES CORPORATION	Well	Parachute Unit 1H
Tyler County, WV	Wellbore	Parachute Unit 1H AWB
Tyler		
Stoneyly Pad		

HOLE & CASING SECTIONS - Ref Wellbore: Parachute Unit 1H AWB Ref Wellpath: Parachute Unit 1H AWP Proj: 19558'

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	24.50	104.50	80.00	24.50	104.50	0.00	0.00	-0.24	-0.06
17.5in Open Hole	104.50	585.50	481.00	104.50	585.49	-0.24	-0.06	-2.08	-1.66
13.375in Casing Surface	24.50	585.50	561.00	24.50	585.49	0.00	0.00	-2.08	-1.66
12.25in Open Hole	585.50	2658.50	2073.00	585.49	2587.91	-2.08	-1.66	-292.64	-394.77
9.625in Casing Intermediate	24.50	2658.50	2634.00	24.50	2587.91	0.00	0.00	-292.64	-394.77
8.75in Open Hole	2658.50	6620.50	3962.00	2587.91	6135.56	-292.64	-394.77	-947.21	-1792.25
8.5in Open Hole	6620.50	19558.00	12937.50	6135.56	6249.96	-947.21	-1792.25	11109.55	-6189.09
5.5in Casing Production	24.50	19558.00	19533.50	24.50	6249.96	0.00	0.00	11109.55	-6189.09

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Parachute Unit 1H POE Rev-2	6341.00	-663.17	-1917.40	1660309.24	14313476.63	39°24'58.271"N	80°55'46.438"W	point
Parachute Unit 1H BHL Rev-2	6371.00	11133.50	-6212.34	1656016.02	14325268.57	39°26'54.893"N	80°56'41.069"W	point
Parachute Unit 1H LP Rev-1	6371.00	-492.21	-1979.64	1660247.02	14313647.52	39°24'59.961"N	80°55'47.229"W	point



Actual Wellpath Report

Parachute Unit 1H AWP Proj: 19558'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #01
Area	Tyler County, WV	Well	Parachute Unit 1H
Field	Tyler	Wellbore	Parachute Unit 1H AWB
Facility	Stonefly Pad		

WELLPATH COMPOSITION - Ref Wellbore: Parachute Unit 1H AWB Ref Wellpath: Parachute Unit 1H AWP Proj: 19558'

Start MD (ft)	End MD (ft)	Positional Uncertainty Model	Log Name/Comment	Wellbore
24.50	569.50	Gyrodata standard - Drop gyro or Multi-shot	01_Gyrodata MS Gyro <1'-1/2">{(100'-560')}	Parachute Unit 1H AWB
569.50	2575.50	ISCSWA MWD, Rev. 4 (Standard)	02_WFT EM <12'-1/4">{(560'){(603'-2566')}	Parachute Unit 1H AWB
2575.50	6543.50	ISCSWA MWD, Rev. 4 (Standard)	03_WFT EM <8'-3/4">{(2566'){(2684'-6534')}	Parachute Unit 1H AWB
6543.50	19533.00	BHI AutoTrak Curve (Short)	04_BHI AT Curve <8'-1/2">{(6543.50'){(6538'-19533')}	Parachute Unit 1H AWB
19533.00	19558.00	Blind Drilling (std)	Projection to bit	Parachute Unit 1H AWB



Actual Wellpath Report

Parachute Unit 1H AWP Proj: 19558'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #01
Area	Tyler County, WV	Well	Parachute Unit 1H
Field	Tyler	Wellbore	Parachute Unit 1H AWB
Facility	Stonesfly Pad		

COMMENTS
<p>Wellpath general comments API: 47-095-02429-0000 BH Job #: 9030535 Rig: Frontier 22 Duration: 02/27/18 - 03/02/18 Gyrodatta MS Gyro <17'-1/2">(100'-560') WFT EM <12'-1/4">(560')(603'-2566') WFT EM <8'-3/4">(2566')(2684'-6534') Sycamore: 6499'MD / 6049'TVD BHI AT Curve <8'-1/2">(6543.50')(6598'-19533') Middlesex: 6734'MD / 6208'TVD Burket: 6887'MD / 6299'TVD Tully: 6932'MD / 6319.71 POE Marcellus: 6989'MD / 6341'TVD Projected MD @ TD: 19558'</p>

04/05/2019