



# Actual Wellpath Report

Shimano Unit 1H AWP Proj: 15234'

Page 1 of 10



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Shimano Unit 1H
Field	Tyler	API	47-095-02616-0000
Facility	State Ridge Pad	Wellbore	Shimano Unit 1H AWB
Slot	Slot #07		

REPORT SETUP INFORMATION			
Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Delaset
Scale	0.999601	Report Generated	1/29/2020 at 11:50:05 AM
Convergence at slot	0.08° East	Database	WA_MPL_EasternUS_Defn

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	9.51	43.97	1675862.90	14347072.59	39°30'30.2800"N	80°52'27.5850"W
Facility Reference Pt			1675818.95	14347063.09	39°30'30.1867"N	80°52'28.1461"W
Field Reference Pt			0.00	0.00	0°00'0.0000"	85°29'19.3013"W

WELLPATH DATUM			
Calculation method	Minimum curvature	H&P 317 (RKB) to Facility Vertical Datum	25.50ft
Horizontal Reference Pt	Slot	H&P 317 (RKB) to Mean Sea Level	1089.50ft
Vertical Reference Pt	H&P 317 (RKB)	H&P 317 (RKB) to Ground Level at Slot (Slot #07)	25.50ft
MD Reference Pt	H&P 317 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	161.12°

RECEIVED  
 Office of Oil and Gas  
 OCT 28 2020  
 WV Department of  
 Environmental Protection



# Actual Wellpath Report

Shimano Unit 1H AWP Proj: 15234'  
Page 2 of 10



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Shimano Unit 1H
Field	Tyler	API	47-095-02616-0000
Facility	State Ridge Pad	Wellbore	Shimano Unit 1H AWB
Slot	Slot #07		

WELLPATH DATA (183 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	342.430	0.00	0.00	0.00	0.00	1675862.90	14347072.59	39°30'30.2800"N	80°52'27.5850"W	0.00	0.000	0.00	0.00	0.00	
25.50	0.000	342.430	25.50	0.00	0.00	0.00	1675862.90	14347072.59	39°30'30.2800"N	80°52'27.5850"W	0.00	0.000	0.00	0.00	0.00	
110.50	1.050	342.430	110.50	-0.78	0.74	-0.24	1675862.67	14347073.33	39°30'30.2873"N	80°52'27.5880"W	0.78	342.430	1.24	1.24	0.00	Gyrodata MS Gyro <17-1/2">(100'-357')
135.50	1.030	345.610	135.49	-1.23	1.18	-0.36	1675862.54	14347073.77	39°30'30.2917"N	80°52'27.5896"W	1.23	343.010	0.24	-0.08	12.72	
160.50	0.890	349.120	160.49	-1.65	1.59	-0.45	1675862.45	14347074.18	39°30'30.2957"N	80°52'27.5907"W	1.65	344.081	0.61	-0.56	14.04	
185.50	0.800	352.470	185.48	-2.01	1.95	-0.51	1675862.39	14347074.54	39°30'30.2993"N	80°52'27.5915"W	2.02	345.289	0.41	-0.36	13.40	
210.50	0.560	5.790	210.48	-2.29	2.25	-0.52	1675862.38	14347074.84	39°30'30.3022"N	80°52'27.5916"W	2.31	346.895	1.14	-0.96	53.28	
235.50	0.400	32.640	235.48	-2.46	2.44	-0.46	1675862.44	14347075.03	39°30'30.3041"N	80°52'27.5909"W	2.48	349.250	1.09	-0.64	107.40	
260.50	0.330	57.150	260.48	-2.53	2.55	-0.36	1675862.55	14347075.14	39°30'30.3052"N	80°52'27.5895"W	2.58	352.067	0.68	-0.28	98.04	
285.50	0.480	64.880	285.48	-2.56	2.64	-0.20	1675862.70	14347075.23	39°30'30.3061"N	80°52'27.5875"W	2.64	355.653	0.64	0.60	30.92	
310.50	0.420	74.570	310.48	-2.57	2.71	-0.02	1675862.88	14347075.30	39°30'30.3067"N	80°52'27.5852"W	2.71	359.634	0.39	-0.24	38.76	
335.50	0.580	85.070	335.48	-2.53	2.74	0.20	1675863.10	14347075.33	39°30'30.3071"N	80°52'27.5824"W	2.75	4.114	0.73	0.64	42.00	
360.50	0.600	86.420	360.48	-2.46	2.76	0.45	1675863.35	14347075.35	39°30'30.3073"N	80°52'27.5792"W	2.80	9.340	0.10	0.08	5.40	
367.50	0.780	93.170	367.48	-2.44	2.76	0.54	1675863.44	14347075.35	39°30'30.3073"N	80°52'27.5781"W	2.81	11.034	2.82	2.57	96.43	
471.50	1.510	40.660	471.46	-2.87	3.76	2.14	1675865.04	14347076.35	39°30'30.3171"N	80°52'27.5577"W	4.32	29.624	1.16	0.70	-50.49	WFT EM <12-1/4">(357')(461'-2620')
562.50	5.110	25.320	562.29	-6.38	8.33	4.65	1675867.55	14347080.92	39°30'30.3623"N	80°52'27.5255"W	9.54	29.176	4.04	3.96	-16.86	
654.50	8.770	21.720	653.60	-14.65	18.56	9.00	1675871.90	14347091.14	39°30'30.4633"N	80°52'27.4698"W	20.62	25.879	4.00	3.98	-3.91	
748.50	11.010	19.650	746.20	-27.11	33.67	14.67	1675877.57	14347106.25	39°30'30.6126"N	80°52'27.3972"W	36.73	23.548	2.41	2.38	-2.20	
840.50	12.280	22.610	836.31	-41.31	50.98	21.39	1675884.28	14347123.55	39°30'30.7835"N	80°52'27.3112"W	55.28	22.763	1.53	1.38	3.22	
934.50	14.080	23.020	927.83	-57.31	70.73	29.70	1675892.59	14347143.29	39°30'30.9786"N	80°52'27.2048"W	76.71	22.781	1.92	1.91	0.44	
1029.50	17.490	22.390	1019.23	-76.65	94.57	39.66	1675902.55	14347167.12	39°30'31.2141"N	80°52'27.0773"W	102.55	22.754	3.59	3.59	-0.66	
1124.50	19.920	18.710	1109.21	-100.21	123.10	50.29	1675913.18	14347195.65	39°30'31.4960"N	80°52'26.9411"W	132.98	22.223	2.84	2.56	-3.87	
1218.50	20.910	19.000	1197.30	-126.13	154.13	60.89	1675923.77	14347226.66	39°30'31.8025"N	80°52'26.8054"W	165.72	21.558	1.06	1.05	0.31	
1313.50	21.050	22.270	1286.01	-152.36	185.95	72.88	1675935.75	14347258.47	39°30'32.1168"N	80°52'26.6519"W	199.72	21.401	1.24	0.15	3.44	
1408.50	20.550	25.220	1374.82	-177.18	216.82	86.45	1675949.32	14347289.33	39°30'32.4218"N	80°52'26.4782"W	233.42	21.737	1.22	-0.53	3.11	
1502.50	19.280	25.780	1463.20	-200.07	245.73	100.23	1675963.09	14347318.22	39°30'32.7072"N	80°52'26.3019"W	265.38	22.190	1.37	-1.35	0.60	
1596.50	19.960	26.990	1551.74	-222.28	274.00	114.26	1675977.12	14347346.48	39°30'32.9864"N	80°52'26.1223"W	296.87	22.637	0.84	0.72	1.29	
1691.50	20.380	26.440	1640.91	-245.20	303.26	128.98	1675991.83	14347375.73	39°30'33.2754"N	80°52'25.9340"W	329.55	23.041	0.49	0.44	-0.58	
1786.50	20.970	23.080	1729.80	-269.48	333.71	143.01	1676005.86	14347406.17	39°30'33.5762"N	80°52'25.7544"W	363.06	23.198	1.39	0.62	-3.54	
1880.50	22.760	22.300	1817.03	-295.67	366.01	156.51	1676019.35	14347438.45	39°30'33.8952"N	80°52'25.5817"W	398.07	23.152	1.93	1.90	-0.83	

RECEIVED  
Office of Oil and Gas  
OCT 28 2020  
WV Department of  
Environmental Protection





# Actual Wellpath Report

Shimano Unit 1H AWP Proj: 15234'  
Page 3 of 10



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Shimano Unit 1H
Field	Tyler	API	47-095-02616-0000
Facility	State Ridge Pad	Wellbore	Shimano Unit 1H AWP
Slot	Slot #07		

WELLPATH DATA (183 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
1974.50	23.420	22.590	1903.50	-323.36	400.08	170.58	1676033.42	14347472.51	39°30'34.2318"N	80°52'25.4015"W	434.93	23.092	0.71	0.70	0.31	
2069.50	23.580	21.390	1990.62	-352.00	435.20	184.77	1676047.59	14347507.62	39°30'34.5787"N	80°52'25.2199"W	472.80	23.004	0.53	0.17	-1.26	
2163.50	24.210	23.710	2076.57	-380.54	470.36	199.37	1676062.20	14347542.76	39°30'34.9259"N	80°52'25.0329"W	510.87	22.971	1.20	0.67	2.47	
2258.50	24.500	25.330	2163.11	-409.00	506.00	215.64	1676078.45	14347578.39	39°30'35.2780"N	80°52'24.8248"W	550.03	23.082	0.77	0.31	1.71	
2353.50	23.440	23.080	2249.92	-437.17	541.19	231.47	1676094.28	14347613.56	39°30'35.6255"N	80°52'24.6221"W	588.61	23.157	1.47	-1.12	-2.37	
2447.50	21.980	20.010	2336.63	-464.77	574.92	244.82	1676107.62	14347647.28	39°30'35.9587"N	80°52'24.4512"W	624.87	23.066	2.00	-1.55	-3.27	
2542.50	22.060	16.820	2424.71	-493.09	608.70	256.07	1676118.87	14347681.05	39°30'36.2924"N	80°52'24.3071"W	660.37	22.815	1.26	0.08	-3.36	
2630.50	21.290	11.440	2506.49	-520.31	640.18	264.02	1676126.81	14347712.52	39°30'36.6035"N	80°52'24.2051"W	692.49	22.412	2.42	-0.88	-6.11	
2742.50	19.880	5.810	2611.35	-555.16	679.06	269.98	1676132.77	14347751.38	39°30'36.9876"N	80°52'24.1283"W	730.76	21.682	2.17	-1.26	-5.03	WFT EM <8-3/4">(2620')(2732'-6464')
2805.50	19.080	11.230	2670.75	-573.81	699.82	273.07	1676135.86	14347772.13	39°30'37.1928"N	80°52'24.0886"W	751.21	21.316	3.14	-1.27	8.60	
2900.50	19.030	21.380	2760.57	-599.06	729.48	281.74	1676144.53	14347801.78	39°30'37.4858"N	80°52'23.9774"W	782.00	21.118	3.48	-0.05	10.68	
2994.50	20.660	24.190	2848.98	-622.88	758.88	294.12	1676156.91	14347831.17	39°30'37.7762"N	80°52'23.8189"W	813.88	21.185	2.01	1.73	2.99	
3089.50	22.800	25.900	2937.23	-648.19	790.73	309.03	1676171.81	14347863.00	39°30'38.0908"N	80°52'23.6281"W	848.97	21.347	2.35	2.25	1.80	
3184.50	24.480	26.950	3024.25	-674.97	824.83	326.00	1676188.77	14347897.10	39°30'38.4276"N	80°52'23.4110"W	886.92	21.565	1.82	1.77	1.11	
3281.50	24.260	25.200	3112.61	-703.29	860.78	343.59	1676206.35	14347933.03	39°30'38.7826"N	80°52'23.1859"W	926.82	21.760	0.78	-0.23	-1.80	
3375.50	23.340	22.970	3198.62	-731.03	895.40	359.08	1676221.84	14347967.63	39°30'39.1246"N	80°52'22.9877"W	964.72	21.852	1.37	-0.98	-2.37	
3470.50	23.370	24.540	3285.84	-758.74	929.87	374.25	1676237.00	14348002.09	39°30'39.4650"N	80°52'22.7935"W	1002.35	21.924	0.66	0.03	1.65	
3565.50	22.540	22.680	3373.32	-786.05	963.81	389.10	1676251.84	14348036.01	39°30'39.8002"N	80°52'22.6035"W	1039.38	21.984	1.16	-0.87	-1.96	
3659.50	23.720	24.240	3459.76	-813.33	997.67	403.81	1676266.54	14348069.87	39°30'40.1347"N	80°52'22.4152"W	1076.29	22.035	1.41	1.26	1.66	
3754.50	23.500	24.110	3546.81	-841.13	1032.38	419.39	1676282.12	14348104.56	39°30'40.4776"N	80°52'22.2157"W	1114.32	22.109	0.24	-0.23	-0.14	
3849.50	22.590	21.480	3634.23	-868.89	1066.65	433.81	1676296.53	14348138.82	39°30'40.8161"N	80°52'22.0312"W	1151.49	22.132	1.45	-0.96	-2.77	
3943.50	19.830	25.580	3721.86	-894.03	1097.84	447.30	1676310.03	14348169.99	39°30'41.1241"N	80°52'21.8584"W	1185.47	22.168	3.33	-2.94	4.36	
4038.50	20.290	26.590	3811.09	-917.09	1127.11	461.63	1676324.35	14348199.25	39°30'41.4132"N	80°52'21.6750"W	1217.98	22.273	0.61	0.48	1.06	
4133.50	21.150	25.790	3899.95	-940.83	1157.27	476.46	1676339.17	14348229.40	39°30'41.7110"N	80°52'21.4853"W	1251.51	22.378	0.95	0.91	-0.84	
4227.50	22.170	27.310	3987.31	-965.17	1188.30	491.98	1676354.68	14348260.41	39°30'42.0175"N	80°52'21.2867"W	1286.12	22.491	1.24	1.09	1.62	
4322.50	23.520	25.230	4074.86	-991.19	1221.37	508.29	1676370.98	14348293.48	39°30'42.3442"N	80°52'21.0781"W	1322.92	22.595	1.66	1.42	-2.19	
4416.50	23.840	22.150	4160.95	-1018.98	1255.94	523.44	1676386.13	14348328.02	39°30'42.6856"N	80°52'20.8841"W	1360.65	22.625	1.36	0.34	-3.28	
4511.50	23.980	23.580	4247.79	-1047.71	1291.41	538.40	1676401.09	14348363.49	39°30'43.0360"N	80°52'20.6926"W	1399.15	22.632	0.63	0.15	1.51	
4608.50	23.110	27.570	4336.72	-1075.37	1326.35	555.10	1676417.78	14348398.41	39°30'43.3811"N	80°52'20.4789"W	1437.83	22.710	1.87	-0.90	4.11	
4703.50	21.960	24.740	4424.47	-1101.08	1359.01	571.16	1676433.84	14348431.06	39°30'43.7037"N	80°52'20.2733"W	1474.16	22.796	1.66	-1.21	-2.98	

RECEIVED  
Office of Oil and Gas  
OCT 28 2020  
WV Department of  
Environmental Protection





# Actual Wellpath Report

Shimano Unit 1H AWP Proj: 15234'  
Page 4 of 10



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Shimano Unit 1H
Field	Tyler	API	47-095-02616-0000
Facility	State Ridge Pad	Wellbore	Shimano Unit 1H AWB
Slot	Slot #07		

WELLPATH DATA (183 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
4797.50	21.600	27.930	4511.76	-1125.64	1390.27	586.63	1676449.29	14348462.30	39°30'44.0123"N	80°52'20.0755"W	1508.96	22.877	1.32	-0.38	3.39	
4892.50	22.040	26.340	4599.96	-1150.17	1421.69	602.72	1676465.38	14348493.71	39°30'44.3226"N	80°52'19.8695"W	1544.17	22.974	0.78	0.46	-1.67	
4987.50	21.320	24.230	4688.24	-1175.33	1453.41	617.72	1676480.37	14348525.42	39°30'44.6360"N	80°52'19.6776"W	1579.24	23.026	1.12	-0.76	-2.22	
5082.50	22.450	20.610	4776.39	-1201.94	1486.14	631.19	1676493.84	14348558.14	39°30'44.9592"N	80°52'19.5051"W	1614.63	23.012	1.85	1.19	-3.81	
5176.50	24.410	20.340	4862.64	-1230.84	1521.16	644.27	1676506.91	14348593.14	39°30'45.3051"N	80°52'19.3377"W	1651.97	22.954	2.09	2.09	-0.29	
5271.50	24.240	24.860	4949.21	-1260.14	1557.26	659.29	1676521.93	14348629.23	39°30'45.6617"N	80°52'19.1454"W	1691.07	22.946	1.97	-0.18	4.76	
5366.50	23.360	25.100	5036.13	-1287.78	1592.01	675.48	1676538.11	14348663.97	39°30'46.0050"N	80°52'18.9382"W	1729.38	22.991	0.93	-0.93	0.25	
5464.50	22.690	20.760	5126.33	-1316.32	1627.28	690.42	1676553.04	14348699.22	39°30'46.3534"N	80°52'18.7469"W	1767.69	22.990	1.86	-0.68	-4.43	
5559.50	22.290	23.890	5214.11	-1343.66	1660.89	704.21	1676566.83	14348732.82	39°30'46.6853"N	80°52'18.5703"W	1804.01	22.977	1.33	-0.42	3.29	
5654.50	21.730	23.570	5302.19	-1369.86	1693.48	718.54	1676581.15	14348765.40	39°30'47.0072"N	80°52'18.3869"W	1839.61	22.991	0.60	-0.59	-0.34	
5748.50	22.160	21.780	5389.38	-1396.15	1725.89	732.08	1676594.68	14348797.80	39°30'47.3274"N	80°52'18.2136"W	1874.74	22.985	0.85	0.46	-1.90	
5843.50	22.040	24.900	5477.40	-1422.61	1758.70	746.23	1676608.83	14348830.59	39°30'47.6514"N	80°52'18.0324"W	1910.47	22.992	1.24	-0.13	3.28	
5906.50	21.520	24.180	5535.90	-1439.59	1779.96	755.94	1676618.54	14348851.84	39°30'47.8614"N	80°52'17.9082"W	1933.83	23.011	0.93	-0.83	-1.14	
5969.50	21.260	22.730	5594.56	-1456.57	1801.04	765.09	1676627.68	14348872.91	39°30'48.0696"N	80°52'17.7911"W	1956.81	23.016	0.94	-0.41	-2.30	
6032.50	19.320	29.420	5653.66	-1472.05	1820.66	774.62	1676637.21	14348892.52	39°30'48.2634"N	80°52'17.6691"W	1978.59	23.048	4.80	-3.08	10.62	
6095.50	15.390	42.360	5713.80	-1483.01	1835.92	785.38	1676647.97	14348907.78	39°30'48.4141"N	80°52'17.5315"W	1996.86	23.160	8.71	-6.24	20.54	
6158.50	13.200	67.190	5774.90	-1487.53	1844.90	797.66	1676660.24	14348916.75	39°30'48.5026"N	80°52'17.3747"W	2009.95	23.382	10.24	-3.48	39.41	
6221.50	11.310	93.480	5836.51	-1485.67	1847.32	810.46	1676673.04	14348919.17	39°30'48.5263"N	80°52'17.2112"W	2017.28	23.688	9.26	-3.00	41.73	
6284.50	14.900	111.130	5897.89	-1478.11	1844.02	824.20	1676686.77	14348915.87	39°30'48.4935"N	80°52'17.0361"W	2019.83	24.083	8.47	5.70	28.02	
6348.50	22.150	115.820	5958.53	-1464.31	1835.79	842.76	1676705.32	14348907.64	39°30'48.4119"N	80°52'16.7994"W	2019.99	24.658	11.56	11.33	7.33	
6411.50	26.290	121.700	6015.98	-1445.17	1823.27	865.33	1676727.89	14348895.14	39°30'48.2879"N	80°52'16.5116"W	2018.20	25.389	7.60	6.57	9.33	
6460.50	28.430	124.980	6059.50	-1427.36	1810.88	884.12	1676746.67	14348882.75	39°30'48.1652"N	80°52'16.2721"W	2015.19	26.023	5.34	4.37	6.69	
6474.50	29.060	125.840	6071.78	-1421.90	1806.98	889.61	1676752.16	14348878.85	39°30'48.1266"N	80°52'16.2021"W	2014.10	26.212	5.38	4.50	6.14	
6533.00	31.840	131.290	6122.21	-1396.90	1788.47	912.73	1676775.27	14348860.35	39°30'47.9433"N	80°52'15.9075"W	2007.91	27.037	6.69	4.75	9.32	BH AT Curve <8-1/2"> (6475.5')(6533'-15208')
6581.00	33.630	134.650	6162.59	-1374.02	1770.77	931.70	1676794.23	14348842.66	39°30'47.7681"N	80°52'15.6657"W	2000.93	27.751	5.31	3.73	7.00	
6676.00	39.290	142.490	6239.01	-1321.89	1728.37	968.78	1676831.30	14348800.27	39°30'47.3485"N	80°52'15.1934"W	1981.36	29.271	7.71	5.96	8.25	
6771.00	45.330	148.440	6309.26	-1260.35	1675.65	1004.83	1676867.33	14348747.58	39°30'46.8270"N	80°52'14.7344"W	1953.84	30.950	7.62	6.36	6.26	
6785.00†	46.613	149.089	6318.99	-1250.52	1667.05	1010.05	1676872.54	14348738.97	39°30'46.7419"N	80°52'14.6680"W	1949.16	31.211	9.76	9.17	4.64	Middlesex: 6785' MD
6866.00	54.100	152.380	6370.64	-1189.21	1612.64	1040.42	1676902.91	14348684.59	39°30'46.2037"N	80°52'14.2814"W	1919.14	32.829	9.76	9.24	4.06	
6914.00	58.000	153.320	6397.44	-1149.81	1577.21	1058.58	1676921.06	14348649.18	39°30'45.8533"N	80°52'14.0504"W	1899.53	33.868	8.29	8.12	1.96	

RECEIVED  
Office of Oil and Gas  
OCT 28 2020  
WV Department of  
Environmental Protection





# Actual Wellpath Report

Shimano Unit 1H AWP Proj: 15234'

Page 5 of 10



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Shimano Unit 1H
Field	Tyler	API	47-095-02616-0000
Facility	State Ridge Pad	Wellbore	Shimano Unit 1H AWB
Slot	Slot #07		

WELLPATH DATA (183 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
6931.00†	59.326	153.816	6406.28	-1135.42	1564.21	1065.05	1676927.52	14348636.18	39°30'45.7247"N	80°52'13.9682"W	1892.38	34.250	8.19	7.80	2.92	Burkett: 6931' MD
6961.00	61.670	154.660	6421.05	-1109.50	1540.70	1076.39	1676938.86	14348612.67	39°30'45.4922"N	80°52'13.8238"W	1879.46	34.940	8.19	7.81	2.81	
6978.00†	63.145	155.093	6428.93	-1094.52	1527.06	1082.79	1676945.26	14348599.04	39°30'45.3573"N	80°52'13.7425"W	1871.99	35.339	8.96	8.67	2.55	Tully: 6978' MD
7008.00	65.750	155.830	6441.87	-1067.59	1502.44	1094.03	1676956.49	14348574.43	39°30'45.1138"N	80°52'13.5996"W	1858.55	36.061	8.96	8.68	2.46	
7055.00	69.560	157.780	6459.73	-1024.25	1462.49	1111.13	1676973.59	14348534.49	39°30'44.7187"N	80°52'13.3820"W	1836.71	37.226	8.97	8.11	4.15	
7115.00†	74.272	159.881	6478.36	-967.28	1409.31	1131.71	1676994.16	14348481.34	39°30'44.1929"N	80°52'13.1204"W	1807.47	38.765	8.53	7.85	3.50	Marcellus POE: 7115' MD
7150.00	77.030	161.060	6487.03	-933.38	1377.36	1143.04	1677005.49	14348449.40	39°30'43.8769"N	80°52'12.9764"W	1789.88	39.689	8.53	7.88	3.37	
7245.00	83.090	164.590	6503.42	-839.91	1288.01	1170.63	1677033.06	14348360.08	39°30'42.9934"N	80°52'12.6261"W	1740.50	42.267	7.35	6.38	3.72	
7340.00	89.970	162.250	6509.17	-745.22	1197.19	1197.68	1677060.10	14348269.30	39°30'42.0954"N	80°52'12.2827"W	1693.43	45.012	7.65	7.24	-2.46	
7434.00	89.940	160.640	6509.25	-651.23	1108.08	1227.59	1677090.00	14348180.22	39°30'41.2143"N	80°52'11.9027"W	1653.73	47.929	1.71	-0.03	-1.71	
7529.00	89.540	157.430	6509.68	-556.30	1019.38	1261.58	1677123.97	14348091.56	39°30'40.3371"N	80°52'11.4707"W	1621.94	51.061	3.41	-0.42	-3.38	
7624.00	89.720	156.690	6510.29	-461.54	931.89	1298.60	1677160.98	14348004.11	39°30'39.4720"N	80°52'10.9999"W	1598.37	54.336	0.80	0.19	-0.78	
7719.00	89.850	155.850	6510.65	-366.89	844.93	1336.83	1677199.20	14347917.18	39°30'38.6119"N	80°52'10.5137"W	1581.46	57.706	0.89	0.14	-0.88	
7813.00	89.510	155.520	6511.17	-273.31	759.27	1375.54	1677237.89	14347831.55	39°30'37.7647"N	80°52'10.0215"W	1571.17	61.102	0.50	-0.36	-0.35	
7908.00	89.480	158.880	6512.01	-178.55	671.71	1412.34	1677274.68	14347744.03	39°30'36.8988"N	80°52'9.5535"W	1563.94	64.564	3.54	-0.03	3.54	
8003.00	89.600	161.160	6512.77	-83.58	582.43	1444.80	1677307.12	14347654.79	39°30'36.0160"N	80°52'9.1410"W	1557.78	68.045	2.40	0.13	2.40	
8098.00	89.630	161.790	6513.41	11.42	492.36	1474.98	1677337.29	14347564.75	39°30'35.1254"N	80°52'8.7576"W	1554.99	71.541	0.66	0.03	0.66	
8192.00	89.010	162.110	6514.53	105.40	402.99	1504.11	1677366.41	14347475.42	39°30'34.2417"N	80°52'8.3877"W	1557.16	75.001	0.74	-0.66	0.34	
8287.00	89.690	163.110	6515.60	200.36	312.34	1532.50	1677394.79	14347384.81	39°30'33.3454"N	80°52'8.0272"W	1564.00	78.480	1.27	0.72	1.05	
8382.00	89.630	163.710	6516.17	295.28	221.30	1559.62	1677421.90	14347293.80	39°30'32.4452"N	80°52'7.6828"W	1575.24	81.924	0.63	-0.06	0.63	
8477.00	89.600	163.410	6516.81	390.20	130.18	1586.51	1677448.77	14347202.72	39°30'31.5443"N	80°52'7.3415"W	1591.84	85.309	0.32	-0.03	-0.32	
8572.00	89.720	162.870	6517.37	485.13	39.27	1614.06	1677476.31	14347111.84	39°30'30.6453"N	80°52'6.9917"W	1614.54	88.606	0.58	0.13	-0.57	
8667.00	89.880	160.660	6517.70	580.12	-50.96	1643.78	1677506.03	14347021.66	39°30'29.7532"N	80°52'6.6141"W	1644.57	91.776	2.33	0.17	-2.33	
8762.00	89.510	159.770	6518.21	675.11	-140.35	1675.94	1677538.17	14346932.30	39°30'28.8693"N	80°52'6.2055"W	1681.81	94.787	1.01	-0.39	-0.94	
8856.00	89.570	160.560	6518.96	769.09	-228.77	1707.83	1677570.05	14346843.92	39°30'27.9949"N	80°52'5.8003"W	1723.09	97.629	0.84	0.06	0.84	
8951.00	89.600	160.310	6519.65	864.08	-318.28	1739.65	1677601.85	14346754.44	39°30'27.1098"N	80°52'5.3961"W	1768.52	100.368	0.27	0.03	-0.26	
9046.00	89.600	158.590	6520.31	959.03	-407.23	1772.99	1677635.18	14346665.53	39°30'26.2302"N	80°52'4.9723"W	1819.16	102.936	1.81	0.00	-1.81	
9141.00	89.540	157.310	6521.03	1053.88	-495.27	1808.65	1677670.83	14346577.52	39°30'25.3595"N	80°52'4.5190"W	1875.24	105.314	1.35	-0.06	-1.35	
9236.00	89.540	157.240	6521.79	1148.67	-582.90	1845.35	1677707.52	14346489.93	39°30'24.4929"N	80°52'4.0524"W	1935.23	107.530	0.07	0.00	-0.07	
9331.00	89.540	159.610	6522.55	1243.55	-671.23	1880.28	1677742.43	14346401.63	39°30'23.6194"N	80°52'3.6084"W	1996.50	109.646	2.49	0.00	2.49	

RECEIVED  
 Office of Oil and Gas  
 OCT 28 2020  
 WV Department of  
 Environmental Protection





# Actual Wellpath Report

Shimano Unit 1H AWP Proj: 15234'  
Page 6 of 10



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Shimano Unit 1H
Field	Tyler	API	47-095-02616-0000
Facility	State Ridge Pad	Wellbore	Shimano Unit 1H AWB
Slot	Slot #07		

WELLPATH DATA (183 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
9425.00	89.720	161.230	6523.16	1337.54	-759.79	1911.78	1677773.92	14346313.11	39°30'22.7437"N	80°52'3.2082"W	2057.23	111.674	1.73	0.19	1.72	
9519.00	89.540	163.880	6523.77	1431.50	-849.46	1939.96	1677802.08	14346223.48	39°30'21.8570"N	80°52'2.8504"W	2117.79	113.647	2.83	-0.19	2.82	
9613.00	89.820	168.140	6524.29	1525.14	-940.65	1962.68	1677824.79	14346132.32	39°30'20.9555"N	80°52'2.5623"W	2176.45	115.607	4.54	0.30	4.53	
9708.00	89.780	168.780	6524.62	1619.36	-1033.73	1981.68	1677843.79	14346039.28	39°30'20.0353"N	80°52'2.3216"W	2235.10	117.548	0.67	-0.04	0.67	
9803.00	89.750	169.640	6525.01	1713.41	-1127.04	1999.47	1677861.57	14345946.00	39°30'19.1127"N	80°52'2.0964"W	2295.23	119.409	0.91	-0.03	0.91	
9898.00	90.030	168.120	6525.20	1807.54	-1220.26	2017.79	1677879.88	14345852.82	39°30'18.1912"N	80°52'1.8645"W	2358.07	121.163	1.63	0.29	-1.60	
9993.00	89.880	166.030	6525.27	1902.02	-1312.85	2039.04	1677901.12	14345760.27	39°30'17.2758"N	80°52'1.5951"W	2425.13	122.776	2.21	-0.16	-2.20	
10088.00	89.850	161.560	6525.49	1996.89	-1404.05	2065.54	1677927.62	14345669.11	39°30'16.3740"N	80°52'1.2587"W	2497.56	124.206	4.71	-0.03	-4.71	
10183.00	89.600	158.530	6525.95	2091.86	-1493.33	2097.96	1677960.02	14345579.86	39°30'15.4911"N	80°52'0.8468"W	2575.17	125.443	3.20	-0.26	-3.19	
10277.00	89.750	156.490	6526.48	2185.67	-1580.18	2133.92	1677995.96	14345493.05	39°30'14.6323"N	80°52'0.3898"W	2655.29	126.520	2.18	0.16	-2.17	
10372.00	89.780	154.910	6526.87	2280.24	-1666.76	2173.01	1678035.04	14345406.50	39°30'13.7760"N	80°51'59.8927"W	2738.62	127.489	1.66	0.03	-1.66	
10467.00	89.630	156.860	6527.36	2374.84	-1753.46	2211.82	1678073.83	14345319.83	39°30'12.9185"N	80°51'59.3992"W	2822.55	128.406	2.06	-0.16	2.05	
10562.00	89.570	158.740	6528.03	2469.67	-1841.41	2247.71	1678109.71	14345231.92	39°30'12.0487"N	80°51'58.9429"W	2905.69	129.326	1.98	-0.06	1.98	
10657.00	89.780	161.030	6528.56	2564.64	-1930.61	2280.38	1678142.37	14345142.76	39°30'11.1667"N	80°51'58.5279"W	2987.87	130.252	2.42	0.22	2.41	
10752.00	89.570	162.990	6529.10	2659.62	-2020.96	2309.72	1678171.69	14345052.44	39°30'10.2733"N	80°51'58.1553"W	3069.05	131.185	2.07	-0.22	2.06	
10846.00	89.690	163.270	6529.71	2753.56	-2110.91	2337.00	1678198.96	14344962.53	39°30'9.3838"N	80°51'57.8090"W	3149.21	132.090	0.32	0.13	0.30	
10941.00	89.600	163.010	6530.30	2848.50	-2201.83	2364.55	1678226.50	14344871.65	39°30'8.4849"N	80°51'57.4592"W	3230.97	132.959	0.29	-0.09	-0.27	
11036.00	89.660	162.370	6530.91	2943.47	-2292.52	2392.82	1678254.76	14344780.99	39°30'7.5881"N	80°51'57.1004"W	3313.79	133.774	0.68	0.06	-0.67	
11131.00	89.820	163.950	6531.34	3038.40	-2383.44	2420.34	1678282.27	14344690.10	39°30'6.6891"N	80°51'56.7510"W	3396.89	134.560	1.67	0.17	1.66	
11225.00	89.750	165.850	6531.70	3132.19	-2474.19	2444.82	1678306.74	14344599.39	39°30'5.7918"N	80°51'56.4404"W	3478.33	135.342	2.02	-0.07	2.02	
11320.00	89.570	162.420	6532.26	3227.04	-2565.56	2470.79	1678332.70	14344508.06	39°30'4.8884"N	80°51'56.1109"W	3561.87	136.078	3.62	-0.19	-3.61	
11415.00	89.820	159.200	6532.77	3322.03	-2655.27	2502.01	1678363.91	14344418.39	39°30'4.0014"N	80°51'55.7143"W	3648.36	136.702	3.40	0.26	-3.39	
11510.00	89.230	157.750	6533.55	3416.92	-2743.64	2536.86	1678398.75	14344330.05	39°30'3.1275"N	80°51'55.2713"W	3736.74	137.242	1.65	-0.62	-1.53	
11605.00	89.200	158.040	6534.85	3511.76	-2831.65	2572.61	1678434.48	14344242.08	39°30'2.2571"N	80°51'54.8170"W	3825.77	137.744	0.31	-0.03	0.31	
11700.00	89.170	161.210	6536.21	3606.71	-2920.68	2605.68	1678467.53	14344153.08	39°30'1.3767"N	80°51'54.3969"W	3914.07	138.262	3.34	-0.03	3.34	
11795.00	89.480	162.370	6537.33	3701.69	-3010.92	2635.36	1678497.21	14344062.88	39°30'0.4844"N	80°51'54.0199"W	4001.34	138.805	1.26	0.33	1.22	
11890.00	89.320	161.780	6538.32	3796.67	-3101.30	2664.60	1678526.43	14343972.54	39°29'59.5907"N	80°51'53.6487"W	4088.78	139.331	0.64	-0.17	-0.62	
11984.00	89.780	161.390	6539.06	3890.67	-3190.48	2694.29	1678556.11	14343883.39	39°29'58.7088"N	80°51'53.2716"W	4175.93	139.820	0.64	0.49	-0.41	
12079.00	89.970	158.520	6539.27	3985.64	-3279.72	2726.85	1678588.66	14343794.19	39°29'57.8264"N	80°51'52.8580"W	4265.24	140.259	3.03	0.20	-3.02	
12174.00	89.820	156.010	6539.44	4080.42	-3367.33	2763.56	1678625.36	14343706.61	39°29'56.9599"N	80°51'52.3913"W	4356.17	140.624	2.65	-0.16	-2.64	

RECEIVED  
 Office of Oil and Gas  
 OCT 28 7:020  
 WV Department of  
 Environmental Protection





# Actual Wellpath Report

Shimano Unit 1H AWP Proj: 15234'  
Page 7 of 10



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Shimano Unit 1H
Field	Tyler	API	47-095-02616-0000
Facility	State Ridge Pad	Wellbore	Shimano Unit 1H AWB
Slot	Slot #07		

WELLPATH DATA (183 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
12269.00	89.690	155.230	6539.85	4174.98	-3453.86	2802.78	1678664.55	14343620.12	39°29'56.1042"N	80°51'51.8928"W	4448.00	140.941	0.83	-0.14	-0.82	
12364.00	89.780	154.390	6540.29	4269.40	-3539.82	2843.21	1678704.97	14343534.19	39°29'55.2540"N	80°51'51.3786"W	4540.28	141.228	0.89	0.09	-0.88	
12459.00	89.290	154.580	6541.06	4363.76	-3625.55	2884.13	1678745.88	14343448.49	39°29'54.4060"N	80°51'50.8583"W	4632.80	141.498	0.55	-0.52	0.20	
12553.00	89.780	156.470	6541.82	4457.30	-3711.10	2923.07	1678784.80	14343362.98	39°29'53.5600"N	80°51'50.3632"W	4724.04	141.774	2.08	0.52	2.01	
12648.00	89.720	158.440	6542.23	4552.10	-3798.83	2959.49	1678821.21	14343275.28	39°29'52.6923"N	80°51'49.9003"W	4815.57	142.080	2.07	-0.06	2.07	
12743.00	89.570	158.870	6542.82	4647.01	-3887.32	2994.07	1678855.77	14343186.83	39°29'51.8173"N	80°51'49.4609"W	4906.70	142.396	0.48	-0.16	0.45	
12838.00	89.600	160.480	6543.51	4741.98	-3976.40	3027.06	1678888.75	14343097.79	39°29'50.9364"N	80°51'49.0417"W	4997.48	142.719	1.69	0.03	1.69	
12933.00	89.540	162.630	6544.22	4836.97	-4066.51	3057.12	1678918.80	14343007.71	39°29'50.0453"N	80°51'48.6601"W	5087.48	143.065	2.26	-0.06	2.26	
13028.00	89.750	164.820	6544.81	4931.86	-4157.69	3083.74	1678945.41	14342916.56	39°29'49.1437"N	80°51'48.3222"W	5176.47	143.436	2.32	0.22	2.31	
13122.00	89.750	166.460	6545.22	5025.56	-4248.75	3107.05	1678968.71	14342825.54	39°29'48.2434"N	80°51'48.0266"W	5263.62	143.823	1.74	0.00	1.74	
13217.00	89.750	165.080	6545.64	5120.25	-4340.83	3130.41	1678992.05	14342733.50	39°29'47.3330"N	80°51'47.7305"W	5351.85	144.203	1.45	0.00	-1.45	
13312.00	89.910	163.430	6545.92	5215.10	-4432.27	3156.18	1679017.82	14342642.10	39°29'46.4289"N	80°51'47.4035"W	5441.18	144.546	1.74	0.17	-1.74	
13407.00	89.750	162.330	6546.20	5310.06	-4523.05	3184.15	1679045.77	14342551.35	39°29'45.5312"N	80°51'47.0485"W	5531.44	144.855	1.17	-0.17	-1.16	
13502.00	89.750	162.250	6546.62	5405.04	-4613.55	3213.05	1679074.66	14342460.89	39°29'44.6364"N	80°51'46.6816"W	5622.15	145.145	0.08	0.00	-0.08	
13596.00	89.750	163.060	6547.03	5499.00	-4703.28	3241.07	1679102.67	14342371.20	39°29'43.7492"N	80°51'46.3259"W	5711.86	145.429	0.86	0.00	0.86	
13691.00	89.820	162.510	6547.38	5593.96	-4794.02	3269.19	1679130.78	14342280.49	39°29'42.8519"N	80°51'45.9690"W	5802.60	145.709	0.58	0.07	-0.58	
13786.00	89.850	163.630	6547.66	5688.90	-4884.90	3296.85	1679158.43	14342189.65	39°29'41.9533"N	80°51'45.6179"W	5893.34	145.984	1.18	0.03	1.18	
13881.00	89.750	163.150	6547.99	5783.83	-4975.93	3324.01	1679185.58	14342098.65	39°29'41.0531"N	80°51'45.2733"W	5984.06	146.256	0.52	-0.11	-0.51	
13975.00	89.660	161.370	6548.47	5877.80	-5065.46	3352.65	1679214.20	14342009.16	39°29'40.1679"N	80°51'44.9097"W	6074.46	146.501	1.90	-0.10	-1.89	
14070.00	89.820	160.290	6548.90	5972.80	-5155.19	3383.84	1679245.39	14341919.47	39°29'39.2806"N	80°51'44.5136"W	6166.55	146.719	1.15	0.17	-1.14	
14165.00	89.850	159.200	6549.18	6067.77	-5244.31	3416.73	1679278.26	14341830.38	39°29'38.3993"N	80°51'44.0958"W	6259.14	146.915	1.15	0.03	-1.15	
14260.00	89.480	159.070	6549.73	6162.71	-5333.08	3450.56	1679312.08	14341741.65	39°29'37.5214"N	80°51'43.6659"W	6352.02	147.097	0.41	-0.39	-0.14	
14355.00	89.750	159.610	6550.37	6257.66	-5421.97	3484.08	1679345.59	14341652.79	39°29'36.6424"N	80°51'43.2401"W	6444.89	147.276	0.64	0.28	0.57	
14450.00	89.750	158.050	6550.78	6352.58	-5510.56	3518.39	1679379.88	14341564.24	39°29'35.7664"N	80°51'42.8043"W	6537.99	147.443	1.64	0.00	-1.64	
14544.00	89.850	159.270	6551.11	6446.49	-5598.11	3552.59	1679414.07	14341476.73	39°29'34.9005"N	80°51'42.3697"W	6630.21	147.601	1.30	0.11	1.30	
14639.00	89.630	161.960	6551.54	6541.48	-5687.71	3584.12	1679445.59	14341387.16	39°29'34.0144"N	80°51'41.9693"W	6722.80	147.783	2.84	-0.23	2.83	
14734.00	89.750	163.470	6552.06	6636.44	-5778.42	3612.35	1679473.80	14341296.49	39°29'33.1175"N	80°51'41.6110"W	6814.63	147.989	1.59	0.13	1.59	
14829.00	89.880	164.960	6552.36	6731.30	-5869.83	3638.19	1679499.63	14341205.11	39°29'32.2137"N	80°51'41.2832"W	6905.89	148.209	1.57	0.14	1.57	
14924.00	90.280	166.780	6552.23	6825.97	-5961.96	3661.38	1679522.81	14341113.03	39°29'31.3028"N	80°51'40.9892"W	6996.47	148.445	1.96	0.42	1.92	
15019.00	90.400	164.500	6551.67	6920.66	-6053.98	3684.94	1679546.36	14341021.04	39°29'30.3930"N	80°51'40.6905"W	7087.27	148.672	2.40	0.13	-2.40	

RECEIVED  
 Office of Oil and Gas  
 OCT 28 2020  
 WV Department of  
 Environmental Protection



# Actual Wellpath Report

Shimano Unit 1H AWP Proj: 15234'

Page 8 of 10



## REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Shimano Unit 1H
Field	Tyler	API	47-095-02616-0000
Facility	State Ridge Pad	Wellbore	Shimano Unit 1H AWB
Slot	Slot #07		

## WELLPATH DATA (183 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
15113.00	90.460	160.200	6550.96	7014.62	-6143.53	3713.43	1679574.85	14340931.52	39°29'29.5075"N	80°51'40.3288"W	7178.62	148.849	4.57	0.06	-4.57	
15208.00	90.400	159.270	6550.25	7109.59	-6232.65	3746.34	1679607.74	14340842.44	39°29'28.6262"N	80°51'39.9109"W	7271.93	148.991	0.98	-0.06	-0.98	
15234.00‡	90.400	159.270	6550.07	7135.57	-6256.96	3755.54	1679616.94	14340818.14	39°29'28.3857"N	80°51'39.7940"W	7297.51	149.027	0.00	0.00	0.00	Projected MD at TD: 15234'

## HOLE & CASING SECTIONS - Ref Wellbore: Shimano Unit 1H AWB Ref Wellpath: Shimano Unit 1H AWP Proj: 15234'

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
20in Conductor	25.50	105.50	80.00	25.50	105.50	0.00	0.00	0.66	-0.21
17.5in Open Hole	105.50	389.50	284.00	105.50	389.48	0.66	-0.21	2.79	0.85
13.375in Casing Surface	25.50	389.50	364.00	25.50	389.48	0.00	0.00	2.79	0.85
12.25in Open Hole	389.50	2675.50	2286.00	389.48	2548.51	2.79	0.85	656.04	266.92
9.625in Casing Intermediate	25.50	2675.50	2650.00	25.50	2548.51	0.00	0.00	656.04	266.92
8.75in Open Hole	2675.50	6548.50	3873.00	2548.51	6135.34	656.04	266.92	1782.97	918.87
8.5in Open Hole	6548.50	15234.00	8685.50	6135.34	6550.07	1782.97	918.87	-6256.96	3755.54
5.5in Casing Production	25.50	15234.00	15208.50	25.50	6550.07	0.00	0.00	-6256.96	3755.54

RECEIVED  
 Office of Oil and Gas  
 WV Department of  
 Environmental Protection  
 OCT 28 2020





# Actual Wellpath Report

Shimano Unit 1H AWP Proj: 15234'  
Page 9 of 10



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Shimano Unit 1H
Field	Tyler	API	47-095-02616-0000
Facility	State Ridge Pad	Wellbore	Shimano Unit 1H AWB
Slot	Slot #07		

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Shimano Unit 1H - POE - Plat	6463.00	1446.90	1112.71	1676975.17	14348518.91	39°30'44.5646"N	80°52'13.3621"W	point
Shimano Unit 1H - POE - Rev-1	6473.00	1430.70	1118.69	1676981.14	14348502.72	39°30'44.4044"N	80°52'13.2862"W	point
Shimano Unit 1H - BHL - Plat	6503.00	-6282.91	3771.26	1679632.65	14340792.20	39°29'28.1291"N	80°51'39.5940"W	point
Shimano Unit 1H - BHL - Rev-1	6506.00	-6282.89	3771.24	1679632.63	14340792.21	39°29'28.1292"N	80°51'39.5942"W	point

WELLPATH COMPOSITION - Ref Wellbore: Shimano Unit 1H AWB Ref Wellpath: Shimano Unit 1H AWP Proj: 15234'					
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
25.50	367.50	Gyrodatta 2015 - GC+WIR+DPIPE	01 Gyrodatta MS Gyro <17-1/2">(100'-357')	Shimano Unit 1H AWB	1/2/2020
367.50	2630.50	OWSG MWD rev2 + HRGM	02 WFT EM <12-1/4">(357')(461'-2620')	Shimano Unit 1H AWB	1/2/2020
2630.50	6474.50	OWSG MWD rev2 + HRGM	03 WFT EM <8-3/4">(2620')(2732'-6464')	Shimano Unit 1H AWB	1/2/2020
6474.50	15234.00	BH AutoTrak Curve (2019) (Short spacing)	04 BH AT Curve <8-1/2"> (6475.5')(6533'-15208')	Shimano Unit 1H AWB	1/17/2020

RECEIVED  
Office of Oil and Gas  
OCT 28 2020  
WV Department of  
Environmental Protection





# Actual Wellpath Report

Shimano Unit 1H AWP Proj: 15234'

Page 10 of 10



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Shimano Unit 1H
Field	Tyler	API	47-095-02616-0000
Facility	State Ridge Pad	Wellbore	Shimano Unit 1H AWB
Slot	Slot #07		

COMMENTS
<p><b>Wellpath general comments</b> API: 47-095-02616-0000 BHI Job #: 110238520A Rig: H&amp;P 317 Duration: 01/18/2020-01/20/2020 Gyrodata MS Gyro &lt;17-1/2"&gt;(100'-357') WFT EM &lt;12-1/4"&gt;(357')(461'-2620') WFT EM &lt;8-3/4"&gt;(2620')(2732'-6464') BH AT Curve &lt;8-1/2"&gt; (6475.5')(6533'-15208') Middlesex: 6785' MD Burkett: 6931' MD Tully: 6978' MD Marcellus POE: 7115' MD Projected MD at TD: 15234'</p>

RECEIVED  
Office of Oil and Gas  
OCT 28 2020  
WV Department of  
Environmental Protection