



ANTERO RESOURCES CORPORATION

Location: Tyler County, WV
 Field: Tyler
 Facility: Blizzard Pad

Slot: Slot #03
 Well: Whitmore Unit 1H
 Wellbore: Whitmore Unit 1H PWB

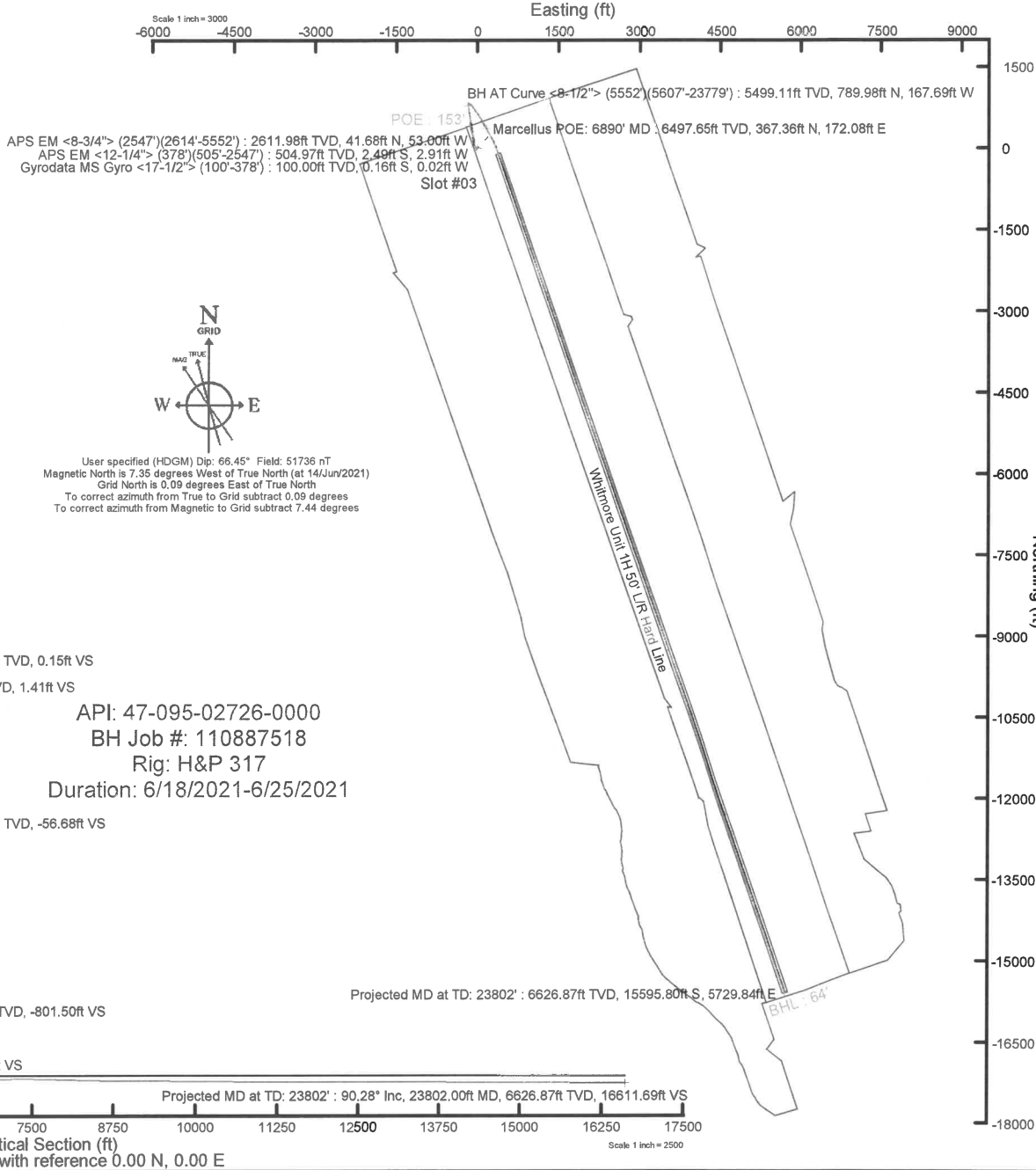
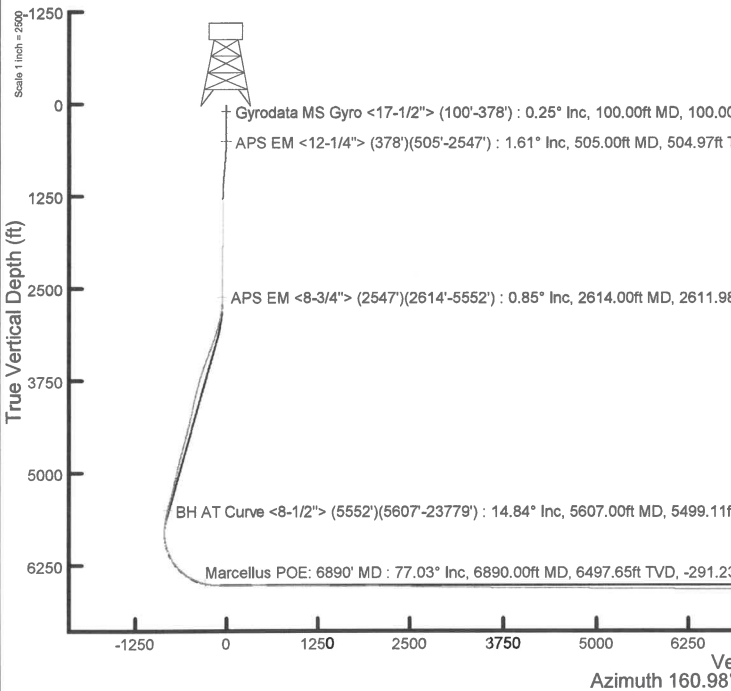


Plot reference wellpath is Whitmore Unit 1H PWP Rev-B.0	Grid System: NAD27 / UTM Zone 17 North, US feet
True vertical depths are referenced to H&P 317 (RKB)	North Reference: Grid north
Reference wellpath measured depths are referenced to H&P 317 (RKB)	Scale: True distance
H&P 317 (RKB) to Mean Sea Level: 1029.5 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (At Slot: Slot #03): -1004 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's default MD datum	Created by: edsanyar on 2021-05-26; Database: WA_MPL_EASTERNUS_Defn

Location Information					
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	
Blizzard Pad	1682398.190	14343430.420	39°29'54.1703"N	80°51'4.2494"W	
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude
Slot #03	21.86	20.54	1682418.720	14343452.270	39°29'54.3860"N
Comment: Whitmore Unit: 1H					
H&P 317 (RKB) to Ground level (At Slot: Slot #03)					25.5ft
Mean Sea Level to Ground level (At Slot: Slot #03)					-1004ft
H&P 317 (RKB) to Mean Sea Level					1029.5ft

Well Profile Data								
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	2547.00	0.960	296.770	2544.99	41.27	-52.03	0.52	-55.98
Proj to Bottom	2621.00	0.960	296.770	2618.98	41.83	-53.13	0.00	-56.86
KOP 1	2700.00	0.960	296.770	2697.97	42.43	-54.32	0.00	-57.81
End of 3D Arc	3221.85	16.188	351.693	3212.64	116.84	-68.82	3.00	-132.89
Curve KOP	5723.34	16.188	351.693	5614.95	806.91	-169.58	0.00	-818.12
POE	6847.25	74.817	150.001	6488.00	406.49	146.68	8.00	-336.49
Landing Pt.	7037.04	90.000	150.001	6514.00	244.04	240.46	8.00	-152.35
On AZI	7402.95	90.000	160.978	6514.00	-88.39	392.03	3.00	211.33
BHL	23802.99	90.000	160.978	6514.00	-15592.92	5737.20	0.00	16611.37

Well Data			
Slot	Well	Wellbore	Wellpath
Slot #03	Whitmore Unit 1H	Whitmore Unit 1H AWB	Whitmore Unit 1H AWP Proj: 23802'
Slot #03	Whitmore Unit 1H	Whitmore Unit 1H PWB	Whitmore Unit 1H PWP Rev-B.0





Actual Wellpath Report

Whitmore Unit 1H AWP Proj: 23802'
Page 1 of 13



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Whitmore Unit 1H
Field	Tyler	API	47-095-02726-0000
Facility	Blizzard Pad	Wellbore	Whitmore Unit 1H AWB
Slot	Slot #03		

REPORT SETUP INFORMATION			
Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Edsaryar
Scale	0.999602	Report Generated	26/Jun/2021 at 18:55
Convergence at slot	0.09° 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	21.86	20.54	1682418.72	14343452.27	39°29'54.3860"N	80°51'3.9870"W
Facility Reference Pt			1682398.19	14343430.42	39°29'54.1703"N	80°51'4.2494"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	1029.50ft
Horizontal Reference Pt	Slot	H&P 317 (RKB) to Mean Sea Level	1029.50ft
Vertical Reference Pt	H&P 317 (RKB)	H&P 317 (RKB) to Ground Level at Slot (Slot #03)	25.50ft
MD Reference Pt	H&P 317 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	160.98°



Actual Wellpath Report

Whitmore Unit 1H AWP Proj: 23802'
Page 2 of 13



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Field	Tyler	API	47-095-02726-0000
Facility	Blizzard Pad	Wellbore	Whitmore Unit 1H AWB
Slot	Slot #03		

WELLPATH DATA (260 stations) † = interpolated, ‡ = extrapolated station																
MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate	Comments
[ft]	[°]	[°]	[ft]	[ft]	[ft]	[ft]	[US ft]	[US ft]			[ft]	[°]	[°/100ft]	[°/100ft]	[°/100ft]	
0.00†	0.000	187.540	0.00	0.00	0.00	0.00	1682418.72	14343452.27	39°29'54.3860"N	80°51'3.9870"W	0.00	0.000	0.00	0.00	0.00	
25.50	0.000	187.540	25.50	0.00	0.00	0.00	1682418.72	14343452.27	39°29'54.3860"N	80°51'3.9870"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.250	187.540	100.00	0.15	-0.16	-0.02	1682418.70	14343452.11	39°29'54.3844"N	80°51'3.9873"W	0.16	187.540	0.34	0.34	0.00	Cyrodata MS Gyro <17-1/2"> (100'-378')
200.00	0.230	191.850	200.00	0.51	-0.57	-0.09	1682418.63	14343451.70	39°29'54.3803"N	80°51'3.9882"W	0.58	189.028	0.03	-0.02	4.31	
300.00	0.440	207.620	300.00	0.95	-1.11	-0.31	1682418.41	14343451.16	39°29'54.3750"N	80°51'3.9910"W	1.15	195.616	0.23	0.21	15.77	
378.00	0.820	207.840	377.99	1.54	-1.87	-0.71	1682418.01	14343450.40	39°29'54.3675"N	80°51'3.9961"W	2.00	200.794	0.49	0.49	0.28	
505.00	1.610	275.860	504.97	1.41	-2.49	-2.91	1682415.81	14343449.78	39°29'54.3614"N	80°51'4.0242"W	3.83	229.430	1.19	0.62	53.56	APS EM <12-1/4"> (378')(505'-2547')
595.00	2.490	300.420	594.91	-0.61	-1.37	-5.85	1682412.87	14343450.90	39°29'54.3725"N	80°51'4.0617"W	6.01	256.809	1.36	0.98	27.29	
686.00	4.180	307.870	685.75	-4.89	1.67	-10.18	1682408.55	14343453.93	39°29'54.4026"N	80°51'4.1168"W	10.31	279.294	1.91	1.86	8.19	
777.00	4.840	302.000	776.47	-10.65	5.74	-16.05	1682402.68	14343458.00	39°29'54.4429"N	80°51'4.1916"W	17.04	289.665	0.88	0.73	-6.45	
868.00	5.230	319.410	867.13	-17.49	10.92	-22.00	1682396.72	14343463.19	39°29'54.4943"N	80°51'4.2675"W	24.56	296.393	1.73	0.43	19.13	
958.00	5.580	327.950	956.73	-25.57	17.74	-27.00	1682391.74	14343470.01	39°29'54.5618"N	80°51'4.3310"W	32.30	303.316	0.97	0.39	9.49	
1048.00	4.280	318.010	1046.39	-32.93	23.95	-31.56	1682387.17	14343476.21	39°29'54.6232"N	80°51'4.3891"W	39.62	307.189	1.72	-1.44	-11.04	
1142.00	2.770	317.730	1140.21	-38.24	28.24	-35.44	1682383.30	14343480.50	39°29'54.6656"N	80°51'4.4385"W	45.31	308.547	1.61	-1.61	-0.30	
1237.00	2.160	320.750	1235.13	-42.03	31.32	-38.12	1682380.62	14343483.58	39°29'54.6962"N	80°51'4.4726"W	49.33	309.412	0.66	-0.64	3.18	
1332.00	1.050	330.920	1330.09	-44.57	33.47	-39.67	1682379.06	14343485.73	39°29'54.7174"N	80°51'4.4924"W	51.90	310.153	1.20	-1.17	10.71	
1427.00	0.710	330.770	1425.08	-46.01	34.74	-40.38	1682378.35	14343487.00	39°29'54.7300"N	80°51'4.5014"W	53.27	310.708	0.36	-0.36	-0.16	
1522.00	0.750	324.070	1520.07	-47.18	35.76	-41.03	1682377.70	14343488.02	39°29'54.7401"N	80°51'4.5097"W	54.43	311.072	0.10	0.04	-7.05	
1617.00	0.840	314.080	1615.06	-48.40	36.75	-41.90	1682376.84	14343489.00	39°29'54.7499"N	80°51'4.5207"W	55.73	311.253	0.17	0.09	-10.52	
1712.00	0.840	314.010	1710.05	-49.64	37.72	-42.90	1682375.84	14343489.97	39°29'54.7595"N	80°51'4.5335"W	57.12	311.321	0.00	0.00	-0.07	
1901.00	0.880	282.470	1899.03	-51.63	38.99	-45.31	1682373.42	14343491.25	39°29'54.7721"N	80°51'4.5642"W	59.78	310.712	0.25	0.02	-16.69	
1996.00	0.660	283.310	1994.02	-52.31	39.28	-46.56	1682372.18	14343491.53	39°29'54.7749"N	80°51'4.5801"W	60.91	310.150	0.23	-0.23	0.88	
2091.00	0.330	277.010	2089.02	-52.72	39.44	-47.36	1682371.38	14343491.69	39°29'54.7765"N	80°51'4.5903"W	61.63	309.782	0.35	-0.35	-6.63	
2186.00	0.570	283.890	2184.01	-53.09	39.58	-48.09	1682370.65	14343491.84	39°29'54.7780"N	80°51'4.5997"W	62.29	309.456	0.26	0.25	7.24	
2280.00	0.680	295.930	2278.01	-53.74	39.94	-49.05	1682369.69	14343492.19	39°29'54.7815"N	80°51'4.6118"W	63.25	309.155	0.18	0.12	12.81	
2375.00	0.710	299.870	2373.00	-54.58	40.48	-50.07	1682368.67	14343492.73	39°29'54.7869"N	80°51'4.6248"W	64.38	308.955	0.06	0.03	4.15	
2470.00	0.600	283.570	2467.99	-55.30	40.89	-51.06	1682367.68	14343493.14	39°29'54.7909"N	80°51'4.6375"W	65.41	308.687	0.23	-0.12	-17.16	
2547.00	0.960	296.770	2544.99	-55.98	41.27	-52.03	1682366.71	14343493.53	39°29'54.7948"N	80°51'4.6498"W	66.41	308.425	0.52	0.47	17.14	
2614.00	0.850	288.330	2611.98	-56.68	41.68	-53.00	1682365.74	14343493.94	39°29'54.7988"N	80°51'4.6622"W	67.43	308.183	0.26	-0.16	-12.60	APS EM <8-3/4"> (2547')(2614'-5552')
2708.00	2.870	356.750	2705.93	-59.37	44.25	-53.80	1682364.95	14343496.50	39°29'54.8242"N	80°51'4.6723"W	69.66	309.440	2.85	2.15	72.79	



Actual Wellpath Report

Whitmore Unit 1H AWP Proj: 23802'
Page 3 of 13



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Whitmore Unit 1H
Field	Tyler	API	47-095-02726-0000
Facility	Blizzard Pad	Wellbore	Whitmore Unit 1H AWB
Slot	Slot #03		

WELLPATH DATA (260 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	
2803.00	7.880	4.890	2800.48	-67.61	53.12	-53.38	1682365.37	14343505.37	39°29'54.9119"N	80°51'4.6668"W	75.30	314.863	5.32	5.27	8.57		
2898.00	12.150	3.670	2894.02	-82.80	69.59	-52.18	1682366.56	14343521.84	39°29'55.0747"N	80°51'4.6512"W	86.98	323.138	4.50	4.49	-1.28		
2997.00	16.020	0.580	2990.02	-105.29	93.66	-51.37	1682367.37	14343545.89	39°29'55.3125"N	80°51'4.6404"W	106.82	331.254	3.98	3.91	-3.12		
3091.00	17.920	355.330	3079.93	-131.52	121.05	-52.42	1682366.32	14343573.27	39°29'55.5832"N	80°51'4.6531"W	131.91	336.585	2.59	2.02	-5.59		
3185.00	19.410	348.540	3169.00	-161.02	150.77	-56.70	1682362.04	14343602.98	39°29'55.8771"N	80°51'4.7071"W	161.08	339.390	2.80	1.59	-7.22		
3280.00	19.800	344.340	3258.49	-192.73	181.74	-64.18	1682354.56	14343633.94	39°29'56.1832"N	80°51'4.8019"W	192.74	340.549	1.54	0.41	-4.42		
3375.00	20.200	341.080	3347.77	-225.20	212.75	-73.84	1682344.91	14343664.93	39°29'56.4899"N	80°51'4.9245"W	225.20	340.858	1.25	0.42	-3.43		
3469.00	20.380	338.540	3435.93	-257.78	243.33	-85.09	1682333.66	14343695.51	39°29'56.7923"N	80°51'5.0674"W	257.78	340.725	0.96	0.19	-2.70		
3564.00	20.010	339.870	3525.09	-290.56	273.99	-96.74	1682322.02	14343726.15	39°29'57.0955"N	80°51'5.2153"W	290.57	340.553	0.62	-0.39	1.40		
3659.00	18.720	343.270	3614.72	-322.04	303.85	-106.72	1682312.04	14343756.00	39°29'57.3908"N	80°51'5.3420"W	322.05	340.647	1.80	-1.36	3.58		
3753.00	17.190	345.590	3704.14	-350.96	331.75	-114.52	1682304.24	14343783.89	39°29'57.6667"N	80°51'5.4409"W	350.96	340.955	1.80	-1.63	2.47		
3848.00	15.390	350.070	3795.33	-377.41	357.77	-120.19	1682298.58	14343809.90	39°29'57.9239"N	80°51'5.5127"W	377.42	341.431	2.31	-1.89	4.72		
3942.00	14.940	348.900	3886.05	-401.73	381.95	-124.67	1682294.10	14343834.06	39°29'58.1629"N	80°51'5.5694"W	401.78	341.922	0.58	-0.48	-1.24		
4037.00	14.110	352.100	3978.02	-425.22	405.44	-128.62	1682290.15	14343857.54	39°29'58.3951"N	80°51'5.6192"W	425.35	342.399	1.22	-0.87	3.37		
4132.00	13.130	356.930	4070.35	-446.96	427.68	-130.79	1682287.98	14343879.78	39°29'58.6150"N	80°51'5.6465"W	447.23	342.995	1.58	-1.03	5.08		
4226.00	12.570	2.330	4162.00	-466.75	448.56	-130.95	1682287.82	14343900.65	39°29'58.8214"N	80°51'5.6480"W	467.29	343.726	1.41	-0.60	5.74		
4321.00	14.220	2.680	4254.41	-487.22	470.55	-129.98	1682288.79	14343922.63	39°29'59.0387"N	80°51'5.6352"W	488.17	344.558	1.74	1.74	0.37		
4416.00	15.440	2.520	4346.24	-509.83	494.84	-128.88	1682289.99	14343946.91	39°29'59.2788"N	80°51'5.6207"W	511.35	345.402	1.28	1.28	-0.17		
4511.00	15.310	357.690	4437.85	-533.60	520.01	-128.83	1682289.94	14343972.07	39°29'59.5275"N	80°51'5.6195"W	535.73	346.085	1.35	-0.14	-5.08		
4609.00	14.730	352.130	4532.50	-558.22	545.28	-131.06	1682287.71	14343997.33	39°29'59.7773"N	80°51'5.6474"W	560.81	346.485	1.58	-0.59	-5.67		
4704.00	15.000	351.380	4624.32	-582.16	569.40	-134.55	1682284.22	14344021.44	39°30'0.0157"N	80°51'5.6915"W	585.08	346.704	0.35	0.28	-0.79		
4798.00	15.900	353.080	4714.93	-606.72	594.21	-137.93	1682280.85	14344046.24	39°30'0.2610"N	80°51'5.7340"W	610.00	346.932	1.07	0.96	1.81		
4892.00	15.280	349.240	4805.47	-631.56	619.16	-141.79	1682276.98	14344071.18	39°30'0.5076"N	80°51'5.7828"W	635.19	347.101	1.28	-0.66	-4.09		
4985.00	14.610	344.150	4895.33	-655.40	642.48	-147.28	1682271.49	14344094.49	39°30'0.7382"N	80°51'5.8523"W	659.15	347.088	1.58	-0.72	-5.47		
5080.00	12.940	347.510	4987.59	-677.94	664.39	-152.86	1682265.92	14344116.40	39°30'0.9549"N	80°51'5.9230"W	681.75	347.043	1.95	-1.76	3.54		
5174.00	12.490	354.990	5079.30	-698.26	684.80	-156.02	1682262.76	14344136.79	39°30'1.1566"N	80°51'5.9629"W	702.34	347.165	1.81	-0.48	7.96		
5269.00	13.500	356.690	5171.86	-718.90	706.10	-157.56	1682261.22	14344158.09	39°30'1.3672"N	80°51'5.9821"W	723.47	347.421	1.14	1.06	1.79		
5363.00	13.850	353.640	5263.20	-740.44	728.24	-159.44	1682259.34	14344180.21	39°30'1.5860"N	80°51'6.0056"W	745.49	347.651	0.85	0.37	-3.24		
5458.00	15.260	353.150	5355.15	-763.76	751.95	-162.19	1682256.59	14344203.92	39°30'1.8204"N	80°51'6.0402"W	769.24	347.828	1.49	1.48	-0.52		
5552.00	14.790	351.430	5445.93	-787.65	776.10	-165.45	1682253.33	14344228.06	39°30'2.0591"N	80°51'6.0813"W	793.54	347.965	0.69	-0.50	-1.83		



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Page 4 of 13



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Facility	Blizzard Pad	Wellbore	Whitmore Unit 1H AWB
Slot	Slot #03		

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[ft]	[°]	[°]	[ft]	[ft]	[ft]	[ft]	[US ft]	[US ft]			[ft]	[°]	["/100ft]	["/100ft]	["/100ft]	
5607.00	14.840	350.280	5499.11	-801.50	789.98	-167.69	1682251.10	14344241.93	39°30'2.1964"N	80°51'6.1095"W	807.58	348.016	0.54	0.09	-2.09	BH AT Curve <8-1/2"> (5552')(5607'-23779')
5701.00	11.140	358.200	5590.69	-822.06	810.93	-170.01	1682248.78	14344262.88	39°30'2.4035"N	80°51'6.1387"W	828.56	348.160	4.36	-3.94	8.43	
5796.00	10.200	14.730	5684.07	-837.83	828.24	-168.16	1682250.63	14344280.18	39°30'2.5745"N	80°51'6.1147"W	845.14	348.523	3.36	-0.99	17.40	
5890.00	4.570	60.530	5777.32	-845.44	838.15	-162.77	1682256.01	14344290.08	39°30'2.6724"N	80°51'6.0458"W	853.81	349.010	8.23	-5.99	48.72	
5985.00	7.980	114.160	5871.81	-841.61	837.31	-153.45	1682265.33	14344289.25	39°30'2.6639"N	80°51'5.9269"W	851.26	349.615	6.76	3.59	56.45	
6079.00	14.780	128.200	5963.92	-827.04	827.21	-138.05	1682280.72	14344279.15	39°30'2.5639"N	80°51'5.7307"W	838.65	350.525	7.76	7.23	14.94	
6174.00	22.170	135.630	6053.97	-800.62	806.88	-115.96	1682302.80	14344258.82	39°30'2.3625"N	80°51'5.4493"W	815.17	351.822	8.15	7.78	7.82	
6268.00	29.210	141.250	6138.64	-762.95	776.27	-89.17	1682329.59	14344228.23	39°30'2.0596"N	80°51'5.1081"W	781.37	353.447	7.92	7.49	5.98	
6353.00†	35.917	143.808	6210.24	-719.55	739.93	-61.43	1682357.31	14344191.90	39°30'1.6999"N	80°51'4.7550"W	742.47	355.254	8.05	7.89	3.01	Sycamore: 6353' MD
6362.00	36.630	144.030	6217.50	-714.46	735.62	-58.29	1682360.45	14344187.60	39°30'1.6574"N	80°51'4.7151"W	737.93	355.469	8.05	7.92	2.47	
6457.00	44.110	145.590	6289.83	-655.39	685.34	-22.91	1682395.82	14344137.33	39°30'1.1598"N	80°51'4.2648"W	685.72	358.085	7.94	7.87	1.64	
6509.00†	48.250	146.605	6325.82	-619.13	654.20	-2.00	1682416.72	14344106.21	39°30'0.8517"N	80°51'3.9987"W	654.20	359.825	8.09	7.96	1.95	Middlesex: 6509' MD
6552.00	51.680	147.350	6353.48	-587.19	626.60	15.93	1682434.65	14344078.62	39°30'0.5786"N	80°51'3.7705"W	626.80	1.457	8.09	7.98	1.73	
6646.00	59.080	148.150	6406.85	-511.94	561.21	57.16	1682475.86	14344013.25	39°29'59.9317"N	80°51'3.2459"W	564.11	5.816	7.90	7.87	0.85	
6666.00†	60.498	148.475	6416.91	-495.08	546.50	66.24	1682484.93	14343998.55	39°29'59.7862"N	80°51'3.1304"W	550.50	6.911	7.23	7.09	1.63	Burkett: 6666' MD
6721.00†	64.400	149.325	6442.35	-447.40	504.75	91.42	1682510.10	14343956.82	39°29'59.3731"N	80°51'2.8102"W	512.96	10.266	7.23	7.09	1.55	Tully: 6721' MD
6741.00	65.820	149.620	6450.76	-429.62	489.12	100.63	1682519.31	14343941.20	39°29'59.2185"N	80°51'2.6929"W	499.37	11.626	7.23	7.10	1.48	
6835.00	73.300	149.420	6483.57	-343.36	413.27	145.28	1682563.94	14343865.38	39°29'58.4681"N	80°51'2.1250"W	438.06	19.369	7.96	7.96	-0.21	
6890.00†	77.034	150.029	6497.65	-291.23	367.36	172.08	1682590.73	14343819.49	39°29'58.0139"N	80°51'1.7841"W	405.67	25.099	6.87	6.79	1.11	Marcellus POE: 6890' MD
6930.00	79.750	150.460	6505.89	-252.73	333.35	191.52	1682610.17	14343785.49	39°29'57.6775"N	80°51'1.5368"W	384.45	29.879	6.87	6.79	1.08	
7024.00	86.270	153.460	6517.13	-160.64	251.05	235.34	1682653.97	14343703.22	39°29'56.8633"N	80°51'0.9796"W	344.11	43.151	7.62	6.94	3.19	
7118.00	89.570	153.470	6520.54	-67.52	167.01	277.30	1682695.91	14343619.22	39°29'56.0321"N	80°51'0.4461"W	323.71	58.940	3.51	3.51	0.01	
7212.00	89.630	155.200	6521.20	25.84	82.29	318.01	1682736.60	14343534.53	39°29'55.1941"N	80°50'59.9286"W	328.49	75.491	1.84	0.06	1.84	
7307.00	89.350	157.160	6522.04	120.50	-4.61	356.37	1682774.95	14343447.67	39°29'54.3346"N	80°50'59.4410"W	356.40	90.741	2.08	-0.29	2.06	
7401.00	89.940	157.320	6522.63	214.29	-91.28	392.74	1682811.30	14343361.02	39°29'53.4773"N	80°50'58.9790"W	403.21	103.085	0.65	0.63	0.17	
7496.00	91.790	154.850	6521.19	308.93	-178.11	431.24	1682849.79	14343274.23	39°29'52.6186"N	80°50'58.4897"W	466.57	112.441	3.25	1.95	-2.60	
7590.00	90.520	153.940	6519.30	402.28	-262.86	471.85	1682890.39	14343189.52	39°29'51.7803"N	80°50'57.9734"W	540.13	119.121	1.66	-1.35	-0.97	
7685.00	89.170	158.470	6519.55	496.93	-349.76	510.17	1682928.69	14343102.65	39°29'50.9208"N	80°50'57.4865"W	618.55	124.433	4.98	-1.42	4.77	
7779.00	89.630	162.350	6520.54	590.90	-438.29	541.68	1682960.19	14343014.15	39°29'50.0453"N	80°50'57.0864"W	696.79	128.978	4.16	0.49	4.13	
7873.00	89.480	160.490	6521.27	684.89	-527.39	571.63	1682990.12	14342925.09	39°29'49.1642"N	80°50'56.7063"W	777.75	132.695	1.99	-0.16	-1.98	



Actual Wellpath Report

Whitmore Unit 1H AWP Proj: 23802'
Page 5 of 13



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Whitmore Unit 1H
Field	Tyler	API	47-095-02726-0000
Facility	Blizzard Pad	Wellbore	Whitmore Unit 1H AWB
Slot	Slot #03		

WELLPATH DATA (260 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
7968.00	90.860	162.810	6520.99	779.87	-617.55	601.54	1683020.02	14342834.97	39°29'48.2726"N	80°50'56.3267"W	862.10	135.753	2.84	1.45	2.44	
8062.00	89.850	162.540	6520.40	873.83	-707.28	629.53	1683048.00	14342745.27	39°29'47.3853"N	80°50'55.9716"W	946.86	138.329	1.11	-1.07	-0.29	
8156.00	89.350	161.620	6521.06	967.81	-796.72	658.45	1683076.91	14342655.87	39°29'46.5009"N	80°50'55.6046"W	1033.59	140.428	1.11	-0.53	-0.98	
8250.00	89.720	161.870	6521.82	1061.80	-885.98	687.89	1683106.34	14342566.64	39°29'45.6182"N	80°50'55.2309"W	1121.68	142.174	0.48	0.39	0.27	
8345.00	88.490	161.300	6523.31	1156.78	-976.11	717.90	1683136.33	14342476.56	39°29'44.7270"N	80°50'54.8501"W	1211.68	143.667	1.43	-1.29	-0.60	
8440.00	88.980	161.380	6525.40	1251.75	-1066.09	748.29	1683166.71	14342386.61	39°29'43.8371"N	80°50'54.4644"W	1302.49	144.935	0.52	0.52	0.08	
8534.00	88.950	161.580	6527.10	1345.73	-1155.21	778.14	1683196.55	14342297.53	39°29'42.9558"N	80°50'54.0855"W	1392.84	146.036	0.22	-0.03	0.21	
8629.00	89.140	161.510	6528.69	1440.71	-1245.31	808.21	1683226.61	14342207.46	39°29'42.0648"N	80°50'53.7039"W	1484.59	147.016	0.21	0.20	-0.07	
8724.00	90.150	161.560	6529.27	1535.71	-1335.41	838.30	1683256.68	14342117.39	39°29'41.1738"N	80°50'53.3220"W	1576.73	147.882	1.06	1.06	0.05	
8818.00	90.120	160.700	6529.05	1629.71	-1424.36	868.70	1683287.07	14342028.48	39°29'40.2942"N	80°50'52.9361"W	1668.37	148.622	0.92	-0.03	-0.91	
8912.00	89.850	162.020	6529.08	1723.70	-1513.43	898.74	1683317.10	14341939.45	39°29'39.4134"N	80°50'52.5548"W	1760.17	149.296	1.43	-0.29	1.40	
9007.00	89.600	161.530	6529.53	1818.69	-1603.66	928.45	1683346.80	14341849.25	39°29'38.5211"N	80°50'52.1778"W	1853.04	149.931	0.58	-0.26	-0.52	
9102.00	91.750	161.430	6528.41	1913.68	-1693.73	958.62	1683376.96	14341759.22	39°29'37.6304"N	80°50'51.7949"W	1946.20	150.491	2.27	2.26	-0.11	
9196.00	89.350	162.040	6527.51	2007.66	-1782.98	988.08	1683406.41	14341670.00	39°29'36.7478"N	80°50'51.4211"W	2038.46	151.006	2.63	-2.55	0.65	
9291.00	89.290	162.160	6528.64	2102.63	-1873.38	1017.28	1683435.59	14341579.64	39°29'35.8539"N	80°50'51.0506"W	2131.76	151.497	0.14	-0.06	0.13	
9386.00	88.680	161.770	6530.32	2197.60	-1963.70	1046.69	1683464.99	14341489.36	39°29'34.9608"N	80°50'50.6774"W	2225.23	151.942	0.76	-0.64	-0.41	
9480.00	89.140	161.930	6532.11	2291.57	-2053.00	1075.96	1683494.25	14341400.09	39°29'34.0776"N	80°50'50.3059"W	2317.87	152.341	0.52	0.49	0.17	
9575.00	88.890	161.360	6533.74	2386.55	-2143.16	1105.87	1683524.15	14341309.97	39°29'33.1861"N	80°50'49.9264"W	2411.65	152.706	0.66	-0.26	-0.60	
9669.00	88.650	161.800	6535.76	2480.52	-2232.32	1135.57	1683553.83	14341220.84	39°29'32.3044"N	80°50'49.5495"W	2504.55	153.038	0.53	-0.26	0.47	
9763.00	88.860	161.430	6537.80	2574.50	-2321.50	1165.21	1683583.46	14341131.70	39°29'31.4225"N	80°50'49.1734"W	2597.51	153.347	0.45	0.22	-0.39	
9857.00	89.350	161.230	6539.27	2668.48	-2410.54	1195.30	1683613.54	14341042.69	39°29'30.5419"N	80°50'48.7915"W	2690.62	153.625	0.56	0.52	-0.21	
9952.00	88.550	159.330	6541.01	2763.45	-2499.95	1227.34	1683645.57	14340953.32	39°29'29.6577"N	80°50'48.3847"W	2784.98	153.851	2.17	-0.84	-2.00	
10046.00	88.610	158.450	6543.34	2857.36	-2587.61	1261.19	1683679.40	14340865.69	39°29'28.7908"N	80°50'47.9549"W	2878.60	154.016	0.94	0.06	-0.94	
10140.00	88.180	158.190	6545.98	2951.22	-2674.93	1295.90	1683714.10	14340778.41	39°29'27.9272"N	80°50'47.5141"W	2972.31	154.152	0.53	-0.46	-0.28	
10234.00	89.050	161.350	6548.25	3045.16	-2763.09	1328.39	1683746.58	14340690.28	39°29'27.0553"N	80°50'47.1016"W	3065.83	154.324	3.49	0.93	3.36	
10329.00	90.250	161.030	6548.83	3140.16	-2853.02	1359.02	1683777.20	14340600.39	39°29'26.1660"N	80°50'46.7128"W	3160.16	154.529	1.31	1.26	-0.34	
10424.00	88.710	160.080	6549.69	3235.15	-2942.59	1390.64	1683808.81	14340510.86	39°29'25.2802"N	80°50'46.3114"W	3254.65	154.705	1.90	-1.62	-1.00	
10518.00	89.690	160.850	6551.00	3329.13	-3031.17	1422.07	1683840.22	14340422.31	39°29'24.4042"N	80°50'45.9125"W	3348.18	154.866	1.33	1.04	0.82	
10613.00	89.690	161.990	6551.52	3424.13	-3121.22	1452.34	1683870.48	14340332.30	39°29'23.5138"N	80°50'45.5284"W	3442.57	155.047	1.20	0.00	1.20	
10708.00	89.050	159.540	6552.56	3519.11	-3210.90	1483.63	1683901.76	14340242.65	39°29'22.6269"N	80°50'45.1312"W	3537.10	155.200	2.67	-0.67	-2.58	



Actual Wellpath Report

Whitmore Unit 1H AWP Proj: 23802'

Page 6 of 13



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Whitmore Unit 1H
Field	Tyler	API	47-095-02726-0000
Facility	Blizzard Pad	Wellbore	Whitmore Unit 1H AWB
Slot	Slot #03		

WELLPATH DATA (260 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
10802.00	89.480	160.430	6553.77	3613.09	-3299.21	1515.80	1683933.92	14340154.38	39°29'21.7535"N	80°50'44.7228"W	3630.77	155.324	1.05	0.46	0.95	
10897.00	89.380	161.680	6554.71	3708.08	-3389.06	1546.64	1683964.74	14340064.56	39°29'20.8650"N	80°50'44.3314"W	3725.30	155.470	1.32	-0.11	1.32	
10990.00	89.020	160.870	6556.01	3801.07	-3477.13	1576.49	1683994.58	14339976.53	39°29'19.9940"N	80°50'43.9526"W	3817.82	155.611	0.95	-0.39	-0.87	
11085.00	90.250	160.650	6556.62	3896.07	-3566.82	1607.80	1684025.88	14339886.88	39°29'19.1071"N	80°50'43.5553"W	3912.44	155.736	1.32	1.29	-0.23	
11179.00	89.110	160.460	6557.14	3990.06	-3655.46	1639.09	1684057.15	14339798.28	39°29'18.2305"N	80°50'43.1581"W	4006.12	155.849	1.23	-1.21	-0.20	
11274.00	89.660	161.200	6558.16	4085.06	-3745.18	1670.28	1684088.34	14339708.59	39°29'17.3432"N	80°50'42.7622"W	4100.76	155.964	0.97	0.58	0.78	
11369.00	89.510	160.540	6558.85	4180.05	-3834.93	1701.41	1684119.45	14339618.87	39°29'16.4556"N	80°50'42.3671"W	4195.42	156.075	0.71	-0.16	-0.69	
11463.00	89.450	159.970	6559.70	4274.04	-3923.40	1733.17	1684151.20	14339530.44	39°29'15.5807"N	80°50'41.9640"W	4289.17	156.166	0.61	-0.06	-0.61	
11558.00	90.280	161.420	6559.93	4369.04	-4013.06	1764.58	1684182.59	14339440.82	39°29'14.6941"N	80°50'41.5654"W	4383.87	156.264	1.76	0.87	1.53	
11653.00	89.630	162.580	6560.00	4464.02	-4103.41	1793.93	1684211.93	14339350.51	39°29'13.8006"N	80°50'41.1930"W	4478.41	156.386	1.40	-0.68	1.22	
11748.00	91.540	162.740	6559.03	4558.97	-4194.08	1822.24	1684240.23	14339259.87	39°29'12.9040"N	80°50'40.8339"W	4572.84	156.516	2.02	2.01	0.17	
11843.00	89.230	161.830	6558.39	4653.93	-4284.57	1851.15	1684269.13	14339169.42	39°29'12.0092"N	80°50'40.4672"W	4667.36	156.633	2.61	-2.43	-0.96	
11937.00	89.200	161.410	6559.68	4747.92	-4373.76	1880.78	1684298.75	14339080.26	39°29'11.1271"N	80°50'40.0912"W	4761.00	156.732	0.45	-0.03	-0.45	
12031.00	89.140	161.440	6561.04	4841.91	-4462.86	1910.72	1684328.68	14338991.20	39°29'10.2461"N	80°50'39.7113"W	4854.68	156.822	0.07	-0.06	0.03	
12125.00	89.510	160.860	6562.15	4935.90	-4551.81	1941.09	1684359.04	14338902.28	39°29'9.3664"N	80°50'39.3259"W	4948.41	156.904	0.73	0.39	-0.62	
12220.00	90.150	161.960	6562.43	5030.89	-4641.85	1971.38	1684389.31	14338812.28	39°29'8.4760"N	80°50'38.9417"W	5043.12	156.989	1.34	0.67	1.16	
12314.00	89.450	161.410	6562.76	5124.89	-4731.08	2000.91	1684418.83	14338723.08	39°29'7.5935"N	80°50'38.5669"W	5136.81	157.075	0.95	-0.74	-0.59	
12408.00	89.350	162.190	6563.74	5218.87	-4820.38	2030.27	1684448.18	14338633.82	39°29'6.7105"N	80°50'38.1945"W	5230.49	157.160	0.84	-0.11	0.83	
12503.00	89.690	162.370	6564.54	5313.84	-4910.87	2059.19	1684477.08	14338543.37	39°29'5.8157"N	80°50'37.8277"W	5325.12	157.251	0.40	0.36	0.19	
12598.00	89.170	161.700	6565.48	5408.82	-5001.23	2088.49	1684506.37	14338453.04	39°29'4.9221"N	80°50'37.4560"W	5419.78	157.335	0.89	-0.55	-0.71	
12692.00	89.110	159.990	6566.90	5502.81	-5090.01	2119.32	1684537.20	14338364.29	39°29'4.0441"N	80°50'37.0646"W	5513.60	157.395	1.82	-0.06	-1.82	
12787.00	89.290	160.440	6568.22	5597.79	-5179.39	2151.48	1684569.34	14338274.95	39°29'3.1601"N	80°50'36.6565"W	5608.47	157.442	0.51	0.19	0.47	
12882.00	89.600	160.410	6569.14	5692.78	-5268.90	2183.31	1684601.15	14338185.48	39°29'2.2750"N	80°50'36.2526"W	5703.34	157.492	0.33	0.33	-0.03	
12976.00	90.090	160.040	6569.40	5786.77	-5357.36	2215.11	1684632.94	14338097.06	39°29'1.4002"N	80°50'35.8490"W	5797.24	157.536	0.65	0.52	-0.39	
13071.00	89.750	160.150	6569.53	5881.76	-5446.68	2247.45	1684665.27	14338007.77	39°29'0.5168"N	80°50'35.4384"W	5892.14	157.578	0.38	-0.36	0.12	
13166.00	89.940	160.330	6569.79	5976.75	-5536.09	2279.57	1684697.38	14337918.40	39°28'59.6326"N	80°50'35.0308"W	5987.04	157.620	0.28	0.20	0.19	
13260.00	89.510	159.960	6570.24	6070.74	-5624.50	2311.50	1684729.29	14337830.02	39°28'58.7583"N	80°50'34.6256"W	6080.95	157.659	0.60	-0.46	-0.39	
13354.00	89.420	160.300	6571.11	6164.72	-5712.90	2343.44	1684761.23	14337741.66	39°28'57.8840"N	80°50'34.2201"W	6174.86	157.696	0.37	-0.10	0.36	
13448.00	89.570	160.120	6571.94	6258.71	-5801.34	2375.27	1684793.04	14337653.25	39°28'57.0093"N	80°50'33.8162"W	6268.77	157.734	0.25	0.16	-0.19	
13543.00	90.090	161.020	6572.23	6353.71	-5890.93	2406.87	1684824.63	14337563.70	39°28'56.1234"N	80°50'33.4152"W	6363.65	157.776	1.09	0.55	0.95	



Actual Wellpath Report

Whitmore Unit 1H AWP Proj: 23802'
Page 7 of 13



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Whitmore Unit 1H
Field	Tyler	API	47-095-02726-0000
Facility	Blizzard Pad	Wellbore	Whitmore Unit 1H AWB
Slot	Slot #03		

WELLPATH DATA (260 stations)																
MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate	Comments
[ft]	[°]	[°]	[ft]	[ft]	[ft]	[ft]	[US ft]	[US ft]	[°]	[°]	[ft]	[°]	[°/100ft]	[°/100ft]	[°/100ft]	
13638.00	89.780	160.590	6572.33	6448.71	-5980.65	2438.10	1684855.85	14337474.01	39°28'55.2361"N	80°50'33.0188"W	6458.52	157.821	0.56	-0.33	-0.45	
13732.00	89.630	160.420	6572.82	6542.70	-6069.26	2469.47	1684887.21	14337385.44	39°28'54.3598"N	80°50'32.6207"W	6552.42	157.859	0.24	-0.16	-0.18	
13827.00	90.000	160.570	6573.12	6637.70	-6158.80	2501.19	1684918.91	14337295.93	39°28'53.4742"N	80°50'32.2182"W	6647.32	157.897	0.42	0.39	0.16	
13922.00	89.480	159.510	6573.55	6732.68	-6248.10	2533.62	1684951.33	14337206.67	39°28'52.5912"N	80°50'31.8066"W	6742.25	157.927	1.24	-0.55	-1.12	
14016.00	90.120	160.640	6573.88	6826.67	-6336.47	2565.65	1684983.35	14337118.34	39°28'51.7172"N	80°50'31.4001"W	6836.18	157.957	1.38	0.68	1.20	
14111.00	89.880	160.550	6573.88	6921.67	-6426.07	2597.22	1685014.90	14337028.77	39°28'50.8311"N	80°50'30.9995"W	6931.08	157.993	0.27	-0.25	-0.09	
14205.00	90.890	161.050	6573.25	7015.66	-6514.84	2628.13	1685045.80	14336940.04	39°28'49.9532"N	80°50'30.6073"W	7024.97	158.031	1.20	1.07	0.53	
14299.00	91.080	159.800	6571.64	7109.64	-6603.39	2659.62	1685077.27	14336851.52	39°28'49.0775"N	80°50'30.2077"W	7118.87	158.062	1.34	0.20	-1.33	
14394.00	91.080	160.320	6569.84	7204.61	-6692.68	2692.01	1685109.65	14336762.27	39°28'48.1944"N	80°50'29.7966"W	7213.80	158.088	0.55	0.00	0.55	
14488.00	90.310	160.100	6568.70	7298.60	-6781.12	2723.83	1685141.47	14336673.86	39°28'47.3198"N	80°50'29.3927"W	7307.73	158.116	0.85	-0.82	-0.23	
14583.00	90.220	160.800	6568.27	7393.59	-6870.64	2755.62	1685173.24	14336584.38	39°28'46.4345"N	80°50'28.9893"W	7402.65	158.146	0.74	-0.09	0.74	
14678.00	88.460	161.700	6569.36	7488.58	-6960.59	2786.16	1685203.76	14336494.47	39°28'45.5449"N	80°50'28.6020"W	7497.50	158.185	2.08	-1.85	0.95	
14773.00	88.680	161.650	6571.73	7583.54	-7050.74	2816.02	1685233.61	14336404.35	39°28'44.6534"N	80°50'28.2232"W	7592.29	158.229	0.24	0.23	-0.05	
14868.00	88.550	161.520	6574.03	7678.51	-7140.85	2846.02	1685263.60	14336314.27	39°28'43.7623"N	80°50'27.8426"W	7687.11	158.270	0.19	-0.14	-0.14	
14962.00	88.650	161.500	6576.32	7772.48	-7229.97	2875.82	1685293.39	14336225.19	39°28'42.8810"N	80°50'27.4646"W	7780.93	158.309	0.11	0.11	-0.02	
15057.00	88.860	161.560	6578.39	7867.45	-7320.06	2905.91	1685323.47	14336135.14	39°28'41.9901"N	80°50'27.0829"W	7875.76	158.348	0.23	0.22	0.06	
15151.00	88.650	161.480	6580.43	7961.42	-7409.19	2935.70	1685353.24	14336046.04	39°28'41.1086"N	80°50'26.7050"W	7969.59	158.385	0.24	-0.22	-0.09	
15246.00	88.490	162.020	6582.80	8056.38	-7499.38	2965.44	1685382.97	14335955.89	39°28'40.2167"N	80°50'26.3277"W	8064.40	158.425	0.59	-0.17	0.57	
15341.00	87.840	160.970	6585.84	8151.33	-7589.42	2995.58	1685413.10	14335865.88	39°28'39.3263"N	80°50'25.9455"W	8159.22	158.461	1.30	-0.68	-1.11	
15436.00	87.720	160.880	6589.52	8246.26	-7679.14	3026.60	1685444.11	14335776.20	39°28'38.4390"N	80°50'25.5519"W	8254.06	158.489	0.16	-0.13	-0.09	
15530.00	89.260	160.870	6592.00	8340.22	-7767.92	3057.38	1685474.88	14335687.46	39°28'37.5611"N	80°50'25.1613"W	8347.94	158.516	1.64	1.64	-0.01	
15625.00	88.980	161.220	6593.46	8435.21	-7857.76	3088.24	1685505.72	14335597.66	39°28'36.6726"N	80°50'24.7698"W	8442.84	158.544	0.47	-0.29	0.37	
15719.00	89.290	161.790	6594.88	8529.20	-7946.89	3118.05	1685535.53	14335508.56	39°28'35.7912"N	80°50'24.3916"W	8536.70	158.577	0.69	0.33	0.61	
15814.00	88.980	161.580	6596.31	8624.18	-8037.07	3147.90	1685565.36	14335418.42	39°28'34.8994"N	80°50'24.0130"W	8631.56	158.611	0.39	-0.33	-0.22	
15908.00	89.480	161.360	6597.58	8718.17	-8126.19	3177.77	1685595.22	14335329.33	39°28'34.0181"N	80°50'23.6341"W	8725.43	158.642	0.58	0.53	-0.23	
16002.00	89.660	161.550	6598.28	8812.16	-8215.30	3207.67	1685625.11	14335240.25	39°28'33.1368"N	80°50'23.2549"W	8819.32	158.672	0.28	0.19	0.20	
16095.00	89.540	161.690	6598.93	8905.15	-8303.56	3236.99	1685654.42	14335152.04	39°28'32.2640"N	80°50'22.8829"W	8912.19	158.703	0.20	-0.13	0.15	
16190.00	89.690	161.610	6599.57	9000.14	-8393.72	3266.90	1685684.31	14335061.90	39°28'31.3723"N	80°50'22.5036"W	9007.07	158.734	0.18	0.16	-0.08	
16285.00	89.660	161.660	6600.11	9095.14	-8483.88	3296.83	1685714.23	14334971.78	39°28'30.4807"N	80°50'22.1240"W	9101.94	158.764	0.06	-0.03	0.05	
16378.00	89.480	161.620	6600.80	9188.13	-8572.15	3326.12	1685743.51	14334883.55	39°28'29.6079"N	80°50'21.7524"W	9194.82	158.793	0.20	-0.19	-0.04	



Actual Wellpath Report
Whitmore Unit 1H AWP Proj: 23802'
Page 8 of 13



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Whitmore Unit 1H
Field	Tyler	API	47-095-02726-0000
Facility	Blizzard Pad	Wellbore	Whitmore Unit 1H AWB
Slot	Slot #03		

WELLPATH DATA (260 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
16472.00	90.060	161.280	6601.18	9282.12	-8661.26	3356.03	1685773.41	14334794.47	39°28'28.7266"N	80°50'21.3731"W	9288.72	158.820	0.72	0.62	-0.36	
16567.00	89.630	161.400	6601.44	9377.12	-8751.27	3386.42	1685803.79	14334704.50	39°28'27.8365"N	80°50'20.9876"W	9383.63	158.845	0.47	-0.45	0.13	
16661.00	89.510	161.950	6602.14	9471.11	-8840.50	3415.98	1685833.33	14334615.31	39°28'26.9541"N	80°50'20.6127"W	9477.52	158.873	0.60	-0.13	0.59	
16755.00	89.480	161.780	6602.97	9565.10	-8929.82	3445.23	1685862.58	14334526.02	39°28'26.0707"N	80°50'20.2417"W	9571.38	158.903	0.18	-0.03	-0.18	
16850.00	89.540	161.620	6603.79	9660.08	-9020.02	3475.06	1685892.39	14334435.86	39°28'25.1787"N	80°50'19.8634"W	9666.27	158.930	0.18	0.06	-0.17	
16945.00	89.420	161.480	6604.65	9755.08	-9110.13	3505.13	1685922.44	14334345.78	39°28'24.2876"N	80°50'19.4820"W	9761.17	158.956	0.19	-0.13	-0.15	
17039.00	89.480	161.990	6605.55	9849.06	-9199.39	3534.59	1685951.89	14334256.56	39°28'23.4049"N	80°50'19.1084"W	9855.05	158.982	0.55	0.06	0.54	
17133.00	89.480	161.760	6606.40	9943.05	-9288.72	3563.83	1685981.12	14334167.26	39°28'22.5215"N	80°50'18.7376"W	9948.93	159.010	0.24	0.00	-0.24	
17228.00	89.660	161.660	6607.12	10038.04	-9378.92	3593.64	1686010.92	14334077.10	39°28'21.6295"N	80°50'18.3595"W	10043.82	159.035	0.22	0.19	-0.11	
17321.00	89.540	161.480	6607.77	10131.03	-9467.15	3623.04	1686040.31	14333988.91	39°28'20.7570"N	80°50'17.9866"W	10136.73	159.058	0.23	-0.13	-0.19	
17416.00	89.480	161.760	6608.58	10226.02	-9557.30	3652.99	1686070.25	14333898.80	39°28'19.8654"N	80°50'17.6067"W	10231.63	159.082	0.30	-0.06	0.29	
17510.00	89.290	162.010	6609.59	10320.00	-9646.63	3682.22	1686099.47	14333809.50	39°28'18.9820"N	80°50'17.2361"W	10325.52	159.108	0.33	-0.20	0.27	
17604.00	89.600	161.410	6610.50	10413.99	-9735.88	3711.72	1686128.95	14333720.28	39°28'18.0994"N	80°50'16.8620"W	10419.41	159.131	0.72	0.33	-0.64	
17699.00	89.420	161.810	6611.31	10508.98	-9826.02	3741.69	1686158.91	14333630.18	39°28'17.2079"N	80°50'16.4819"W	10514.32	159.153	0.46	-0.19	0.42	
17793.00	89.690	161.470	6612.04	10602.97	-9915.24	3771.30	1686188.51	14333541.00	39°28'16.3257"N	80°50'16.1064"W	10608.23	159.176	0.46	0.29	-0.36	
17888.00	89.850	161.940	6612.42	10697.96	-10005.43	3801.12	1686218.32	14333450.84	39°28'15.4337"N	80°50'15.7282"W	10703.14	159.198	0.52	0.17	0.49	
17981.00	89.690	162.050	6612.79	10790.95	-10093.88	3829.86	1686247.05	14333362.43	39°28'14.5591"N	80°50'15.3636"W	10796.03	159.222	0.21	-0.17	0.12	
18076.00	89.780	161.900	6613.23	10885.93	-10184.22	3859.26	1686276.43	14333272.13	39°28'13.6657"N	80°50'14.9909"W	10890.92	159.246	0.18	0.09	-0.16	
18170.00	89.690	161.530	6613.67	10979.92	-10273.47	3888.75	1686305.91	14333182.91	39°28'12.7831"N	80°50'14.6169"W	10984.83	159.267	0.41	-0.10	-0.39	
18264.00	89.720	161.590	6614.15	11073.92	-10362.64	3918.48	1686335.64	14333093.77	39°28'11.9012"N	80°50'14.2398"W	11078.76	159.287	0.07	0.03	0.06	
18359.00	89.750	161.550	6614.59	11168.91	-10452.77	3948.52	1686365.66	14333003.68	39°28'11.0099"N	80°50'13.8589"W	11173.68	159.306	0.05	0.03	-0.04	
18453.00	89.720	161.110	6615.03	11262.91	-10541.82	3978.61	1686395.74	14332914.67	39°28'10.1292"N	80°50'13.4773"W	11267.62	159.323	0.47	-0.03	-0.47	
18548.00	89.780	161.660	6615.44	11357.90	-10631.85	4008.93	1686426.05	14332824.67	39°28'9.2389"N	80°50'13.0927"W	11362.56	159.340	0.58	0.06	0.58	
18642.00	89.880	161.680	6615.72	11451.90	-10721.08	4038.49	1686455.60	14332735.48	39°28'8.3565"N	80°50'12.7178"W	11456.48	159.359	0.11	0.11	0.02	
18737.00	89.910	161.210	6615.89	11546.89	-10811.14	4068.72	1686485.82	14332645.45	39°28'7.4658"N	80°50'12.3344"W	11551.42	159.376	0.50	0.03	-0.49	
18830.00	90.030	161.570	6615.94	11639.89	-10899.28	4098.40	1686515.48	14332557.35	39°28'6.5942"N	80°50'11.9580"W	11644.36	159.392	0.41	0.13	0.39	
18924.00	89.970	161.870	6615.94	11733.88	-10988.53	4127.89	1686544.96	14332468.13	39°28'5.7115"N	80°50'11.5841"W	11738.28	159.411	0.33	-0.06	0.32	
19019.00	89.660	161.500	6616.25	11828.88	-11078.72	4157.74	1686574.80	14332377.98	39°28'4.8196"N	80°50'11.2056"W	11833.21	159.429	0.51	-0.33	-0.39	
19113.00	90.090	161.840	6616.45	11922.87	-11167.95	4187.30	1686604.35	14332288.79	39°28'3.9372"N	80°50'10.8307"W	11927.14	159.447	0.58	0.46	0.36	
19207.00	90.250	161.640	6616.18	12016.86	-11257.22	4216.75	1686633.79	14332199.56	39°28'3.0544"N	80°50'10.4572"W	12021.06	159.465	0.27	0.17	-0.21	



Actual Wellpath Report

Whitmore Unit 1H AWP Proj: 23802'
Page 9 of 13



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Whitmore Unit 1H
Field	Tyler	API	47-095-02726-0000
Facility	Blizzard Pad	Wellbore	Whitmore Unit 1H AWB
Slot	Slot #03		

WELLPATH DATA (260 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
19302.00	90.120	161.550	6615.87	12111.85	-11347.36	4246.75	1686663.77	14332109.45	39°28'2.1630"N	80°50'10.0769"W	12116.00	159.482	0.17	-0.14	-0.09	
19396.00	90.280	161.790	6615.54	12205.85	-11436.59	4276.31	1686693.32	14332020.26	39°28'1.2806"N	80°50'9.7020"W	12209.93	159.498	0.31	0.17	0.26	
19490.00	90.250	161.520	6615.11	12299.84	-11525.81	4305.89	1686722.89	14331931.07	39°28'0.3982"N	80°50'9.3268"W	12303.86	159.515	0.29	-0.03	-0.29	
19585.00	90.060	161.300	6614.85	12394.83	-11615.85	4336.18	1686753.17	14331841.07	39°27'59.5077"N	80°50'8.9428"W	12398.81	159.529	0.31	-0.20	-0.23	
19680.00	90.000	160.460	6614.80	12489.83	-11705.61	4367.30	1686784.27	14331751.34	39°27'58.6201"N	80°50'8.5481"W	12493.78	159.540	0.89	-0.06	-0.88	
19774.00	90.000	160.800	6614.80	12583.83	-11794.29	4398.47	1686815.43	14331662.70	39°27'57.7431"N	80°50'8.1526"W	12587.76	159.548	0.36	0.00	0.36	
19869.00	90.090	160.380	6614.73	12678.83	-11883.89	4430.04	1686846.99	14331573.13	39°27'56.8569"N	80°50'7.7522"W	12682.75	159.556	0.45	0.09	-0.44	
19964.00	90.430	160.680	6614.29	12773.83	-11973.45	4461.71	1686878.64	14331483.60	39°27'55.9711"N	80°50'7.3505"W	12777.73	159.563	0.48	0.36	0.32	
20058.00	90.280	160.100	6613.71	12867.82	-12062.00	4493.26	1686910.18	14331395.09	39°27'55.0954"N	80°50'6.9503"W	12871.72	159.569	0.64	-0.16	-0.62	
20152.00	90.180	160.620	6613.33	12961.81	-12150.53	4524.85	1686941.76	14331306.60	39°27'54.2199"N	80°50'6.5496"W	12965.71	159.575	0.56	-0.11	0.55	
20247.00	90.340	160.910	6612.90	13056.81	-12240.23	4556.15	1686973.04	14331216.94	39°27'53.3328"N	80°50'6.1526"W	13060.69	159.583	0.35	0.17	0.31	
20341.00	89.750	161.060	6612.83	13150.81	-12329.10	4586.77	1687003.66	14331128.10	39°27'52.4539"N	80°50'5.7642"W	13154.66	159.593	0.65	-0.63	0.16	
20436.00	89.820	160.510	6613.19	13245.81	-12418.80	4618.04	1687034.91	14331038.43	39°27'51.5668"N	80°50'5.3677"W	13249.64	159.602	0.58	0.07	-0.58	
20530.00	88.650	160.300	6614.44	13339.79	-12507.35	4649.56	1687066.42	14330949.92	39°27'50.6910"N	80°50'4.9678"W	13343.62	159.608	1.26	-1.24	-0.22	
20625.00	89.690	160.650	6615.82	13434.78	-12596.88	4681.31	1687098.15	14330860.43	39°27'49.8056"N	80°50'4.5651"W	13438.60	159.614	1.16	1.09	0.37	
20720.00	89.510	160.780	6616.48	13529.77	-12686.54	4712.68	1687129.52	14330770.80	39°27'48.9189"N	80°50'4.1672"W	13533.58	159.621	0.23	-0.19	0.14	
20814.00	89.260	160.910	6617.49	13623.77	-12775.33	4743.52	1687160.35	14330682.05	39°27'48.0407"N	80°50'3.7760"W	13627.55	159.630	0.30	-0.27	0.14	
20909.00	89.320	160.660	6618.67	13718.76	-12865.03	4774.79	1687191.60	14330592.38	39°27'47.1536"N	80°50'3.3795"W	13722.53	159.638	0.27	0.06	-0.26	
21003.00	89.350	160.550	6619.76	13812.75	-12953.69	4806.00	1687222.80	14330503.76	39°27'46.2768"N	80°50'2.9837"W	13816.51	159.644	0.12	0.03	-0.12	
21098.00	89.480	160.770	6620.73	13907.75	-13043.33	4837.46	1687254.24	14330414.16	39°27'45.3903"N	80°50'2.5846"W	13911.49	159.651	0.27	0.14	0.23	
21193.00	89.630	160.580	6621.46	14002.74	-13132.97	4868.90	1687285.67	14330324.55	39°27'44.5038"N	80°50'2.1859"W	14006.47	159.658	0.25	0.16	-0.20	
21287.00	89.660	160.730	6622.05	14096.74	-13221.66	4900.03	1687316.79	14330235.89	39°27'43.6266"N	80°50'1.7910"W	14100.45	159.665	0.16	0.03	0.16	
21381.00	89.660	160.810	6622.61	14190.74	-13310.42	4930.99	1687347.74	14330147.18	39°27'42.7489"N	80°50'1.3984"W	14194.43	159.672	0.09	0.00	0.09	
21475.00	89.780	160.780	6623.06	14284.73	-13399.19	4961.91	1687378.65	14330058.44	39°27'41.8710"N	80°50'1.0062"W	14288.41	159.680	0.13	0.13	-0.03	
21570.00	89.630	160.540	6623.55	14379.73	-13488.82	4993.38	1687410.10	14329968.84	39°27'40.9845"N	80°50'0.6072"W	14383.40	159.686	0.30	-0.16	-0.25	
21663.00	89.660	160.730	6624.13	14472.73	-13576.56	5024.21	1687440.92	14329881.14	39°27'40.1168"N	80°50'0.2161"W	14476.38	159.692	0.21	0.03	0.20	
21758.00	89.660	160.720	6624.69	14567.73	-13666.23	5055.57	1687472.27	14329791.50	39°27'39.2299"N	80°49'59.8184"W	14571.37	159.699	0.01	0.00	-0.01	
21853.00	89.510	160.580	6625.38	14662.72	-13755.86	5087.05	1687503.73	14329701.91	39°27'38.3435"N	80°49'59.4192"W	14666.35	159.705	0.22	-0.16	-0.15	
21947.00	89.450	160.720	6626.23	14756.72	-13844.55	5118.19	1687534.86	14329613.26	39°27'37.4664"N	80°49'59.0243"W	14760.33	159.711	0.16	-0.06	0.15	
22042.00	89.630	160.780	6627.00	14851.71	-13934.24	5149.51	1687566.17	14329523.61	39°27'36.5794"N	80°49'58.6271"W	14855.32	159.718	0.20	0.19	0.06	



Actual Wellpath Report

Whitmore Unit 1H AWP Proj: 23802'
Page 10 of 13



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Whitmore Unit 1H
Field	Tyler	API	47-095-02726-0000
Facility	Blizzard Pad	Wellbore	Whitmore Unit 1H AWB
Slot	Slot #03		

WELLPATH DATA (260 stations) † = interpolated, ‡ = extrapolated station																
MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate	Comments
[ft]	[°]	[°]	[ft]	[ft]	[ft]	[ft]	[US ft]	[US ft]			[ft]	[°]	[°/100ft]	[°/100ft]	[°/100ft]	
22135.00	89.850	160.840	6627.42	14944.71	-14022.07	5180.08	1687596.73	14329435.81	39°27'35.7108"N	80°49'58.2394"W	14948.30	159.725	0.25	0.24	0.06	
22230.00	89.970	160.830	6627.57	15039.71	-14111.80	5211.27	1687627.90	14329346.11	39°27'34.8233"N	80°49'57.8439"W	15043.28	159.732	0.13	0.13	-0.01	
22324.00	89.780	160.580	6627.77	15133.71	-14200.52	5242.33	1687658.95	14329257.43	39°27'33.9459"N	80°49'57.4500"W	15137.27	159.738	0.33	-0.20	-0.27	
22419.00	89.970	160.730	6627.98	15228.71	-14290.16	5273.80	1687690.41	14329167.83	39°27'33.0594"N	80°49'57.0509"W	15232.25	159.743	0.25	0.20	0.16	
22514.00	89.850	161.080	6628.13	15323.71	-14379.93	5304.88	1687721.47	14329078.09	39°27'32.1716"N	80°49'56.6568"W	15327.23	159.751	0.39	-0.13	0.37	
22607.00	89.910	160.730	6628.33	15416.71	-14467.81	5335.30	1687751.88	14328990.24	39°27'31.3025"N	80°49'56.2710"W	15420.22	159.758	0.38	0.06	-0.38	
22702.00	89.940	160.220	6628.45	15511.70	-14557.35	5367.05	1687783.62	14328900.74	39°27'30.4170"N	80°49'55.8684"W	15515.21	159.762	0.54	0.03	-0.54	
22796.00	90.030	161.010	6628.47	15605.70	-14646.02	5398.25	1687814.81	14328812.11	39°27'29.5400"N	80°49'55.4727"W	15609.20	159.767	0.85	0.10	0.84	
22891.00	90.150	160.690	6628.32	15700.70	-14735.76	5429.41	1687845.96	14328722.40	39°27'28.6525"N	80°49'55.0775"W	15704.18	159.774	0.36	0.13	-0.34	
22985.00	89.940	160.600	6628.25	15794.70	-14824.45	5460.57	1687877.10	14328633.75	39°27'27.7754"N	80°49'54.6825"W	15798.17	159.779	0.24	-0.22	-0.10	
23079.00	90.120	160.700	6628.20	15888.70	-14913.14	5491.71	1687908.24	14328545.09	39°27'26.8982"N	80°49'54.2875"W	15892.16	159.784	0.22	0.19	0.11	
23174.00	90.150	160.940	6627.98	15983.69	-15002.87	5522.92	1687939.43	14328455.40	39°27'26.0109"N	80°49'53.8917"W	15987.14	159.790	0.25	0.03	0.25	
23268.00	89.940	160.740	6627.90	16077.69	-15091.66	5553.77	1687970.27	14328366.65	39°27'25.1327"N	80°49'53.5005"W	16081.13	159.796	0.31	-0.22	-0.21	
23363.00	90.090	160.930	6627.88	16172.69	-15181.39	5584.96	1688001.45	14328276.95	39°27'24.2452"N	80°49'53.1050"W	16176.11	159.802	0.25	0.16	0.20	
23457.00	90.120	160.430	6627.71	16266.69	-15270.10	5616.06	1688032.54	14328188.28	39°27'23.3680"N	80°49'52.7107"W	16270.10	159.807	0.53	0.03	-0.53	
23552.00	90.060	160.710	6627.56	16361.69	-15359.69	5647.66	1688064.12	14328098.72	39°27'22.4819"N	80°49'52.3099"W	16365.09	159.812	0.30	-0.06	0.29	
23646.00	90.180	160.760	6627.36	16455.69	-15448.43	5678.68	1688095.13	14328010.02	39°27'21.6043"N	80°49'51.9167"W	16459.08	159.817	0.14	0.13	0.05	
23740.00	90.120	161.040	6627.11	16549.69	-15537.25	5709.44	1688125.87	14327921.23	39°27'20.7259"N	80°49'51.5267"W	16553.06	159.823	0.30	-0.06	0.30	
23779.00	90.280	160.670	6626.98	16588.69	-15574.09	5722.23	1688138.66	14327884.41	39°27'20.3615"N	80°49'51.3645"W	16592.05	159.826	1.03	0.41	-0.95	
23802.00†	90.280	160.670	6626.87	16611.69	-15595.80	5729.84	1688146.27	14327862.71	39°27'20.1469"N	80°49'51.2679"W	16615.05	159.827	0.00	0.00	0.00	Projected MD at TD: 23802'



Actual Wellpath Report
 Whitmore Unit 1H AWP Proj: 23802'
 Page 11 of 13



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Whitmore Unit 1H
Field	Tyler	API	47-095-02726-0000
Facility	Blizzard Pad	Wellbore	Whitmore Unit 1H AWB
Slot	Slot #03		

HOLE & CASING SECTIONS - Ref Wellbore: Whitmore Unit 1H AWB Ref Wellpath: Whitmore Unit 1H AWP Proj: 23802'										
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	106.00	80.50	25.50	106.00	0.00	0.00	-0.19	-0.02	
17.5in Open Hole	106.00	403.00	297.00	106.00	402.99	-0.19	-0.02	-2.15	-0.93	
13.375in Casing Surface	25.50	384.00	358.50	25.50	383.99	0.00	0.00	-1.94	-0.75	
12.25in Open Hole	403.00	2621.00	2218.00	402.99	2618.98	-2.15	-0.93	41.73	-53.10	
9.625in Casing Intermediate	25.50	2601.00	2575.50	25.50	2598.98	0.00	0.00	41.62	-52.82	
8.75in Open Hole	2621.00	5619.00	2998.00	2618.98	5510.72	41.73	-53.10	792.97	-168.18	
8.5in Open Hole	5619.00	23802.00	18183.00	5510.72	6626.87	792.97	-168.18	-15595.80	5729.84	
5.5in Casing Production	25.50	23802.00	23776.50	25.50	6626.87	0.00	0.00	-15595.80	5729.84	



Actual Wellpath Report

Whitmore Unit 1H AWP Proj: 23802'

Page 12 of 13



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Whitmore Unit 1H
Field	Tyler	API	47-095-02726-0000
Facility	Blizzard Pad	Wellbore	Whitmore Unit 1H AWB
Slot	Slot #03		

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Whitmore Unit 1H POE Rev-3	6489.00	406.49	146.68	1682565.34	14343858.60	39°29'58.4011"N	80°51'2.1073"W	point
Whitmore Unit 1H AZI Rev-3	6514.00	-88.39	392.03	1682810.60	14343363.92	39°29'53.5060"N	80°50'58.9879"W	point
Whitmore Unit 1H BHL Rev-3	6514.00	-15592.92	5737.20	1688153.63	14327865.59	39°27'20.1752"N	80°49'51.1740"W	point
Whitmore Unit 1H LP Rev-3	6514.00	244.04	240.47	1682659.09	14343696.21	39°29'56.7940"N	80°51'0.9143"W	point
Whitmore Unit 1H 50' L/R Hard Line	7000.00	-7841.26	3064.82	1685482.32	14335614.15	39°28'36.8361"N	80°50'25.0680"W	rectangle
	2D Rectangle 16398.8 x 100.							

WELLPATH COMPOSITION - Ref Wellbore: Whitmore Unit 1H AWB Ref Wellpath: Whitmore Unit 1H AWP Proj: 23802'						
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date	
25.50	378.00	Gyrodatta 2015 - GC+WIR+DPIPE	01 Gyrodatta MS Gyro <17-1/2"> (100'-378')	Whitmore Unit 1H AWB	12/May/2021	
378.00	2547.00	BH NaviTrak (2019) (Axial Corr+HRGM)	02 APS EM <12-1/4"> (378')(505'-2547')	Whitmore Unit 1H AWB	12/May/2021	
2547.00	5552.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03 APS EM <8-3/4"> (2547')(2614'-5552')	Whitmore Unit 1H AWB	14/Jun/2021	
5552.00	23802.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	04 BH AT Curve <8-1/2"> (5552')(5607'-23779')	Whitmore Unit 1H AWB	14/Jun/2021	



Actual Wellpath Report
Whitmore Unit 1H AWP Proj: 23802'
Page 13 of 13



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Whitmore Unit 1H
Field	Tyler	API	47-095-02726-0000
Facility	Blizzard Pad	Wellbore	Whitmore Unit 1H AWB
Slot	Slot #03		

COMMENTS
<p>Wellpath general comments API: 47-095-02726-0000 BH Job #: 110887518 Rig: H&P 317 Duration: 6/18/2021-6/25/2021 Gyrodatta MS Gyro <17-1/2"> (100'-378') APS EM <12-1/4"> (378')(505'-2547') APS EM <8-3/4"> (2547')(2614'-5552') BH AT Curve <8-1/2"> (5552')(5607'-23779') Sycamore: 6353' MD Middlesex: 6509' MD Burkett: 6666' MD Tully: 6721' MD Marcellus POE: 6890' MD Projected MD at TD: 23802'</p>