



ANTERO RESOURCES CORPORATION



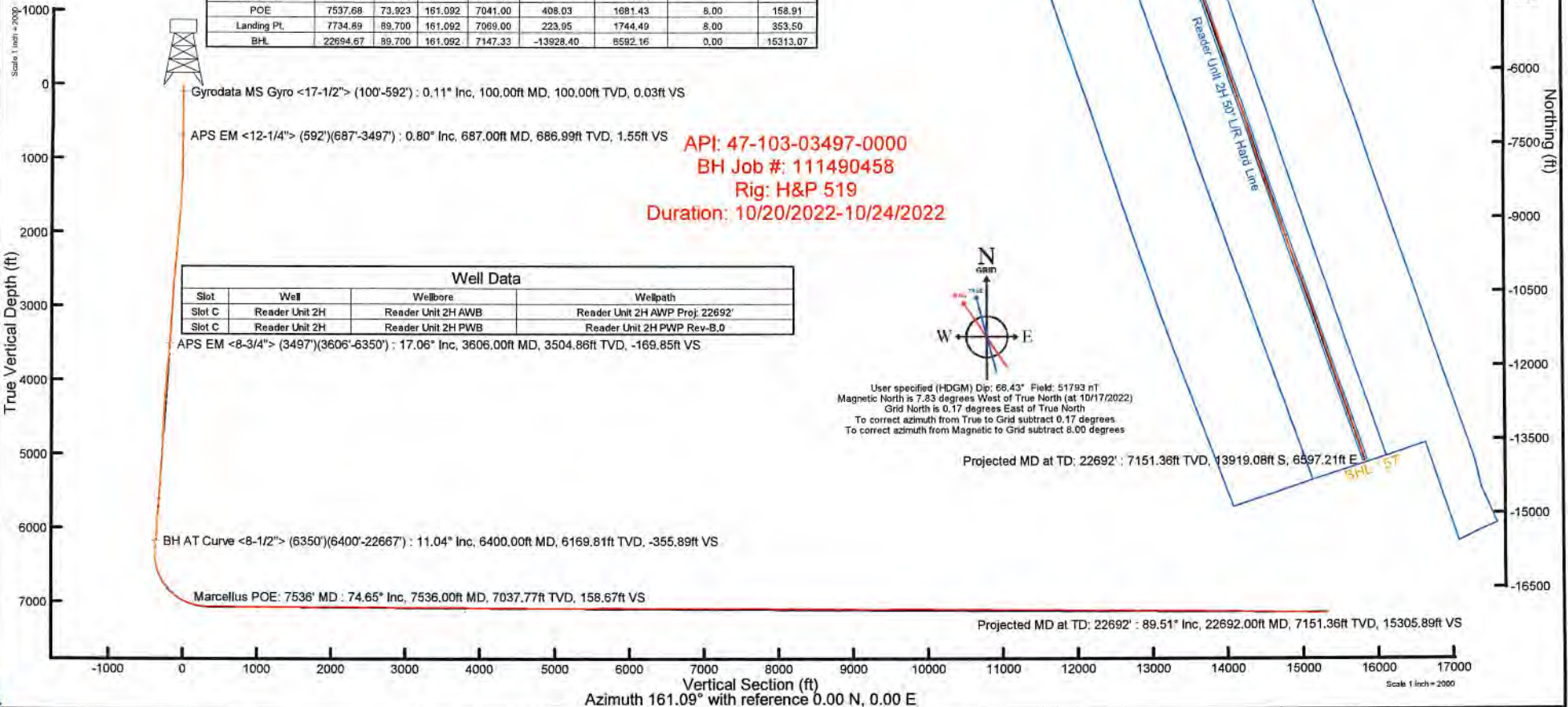
Location: Wetzel County, WV
Field: Wetzel
Facility: Furbee Pad

Slot: Slot C
Well: Reader Unit 2H
Wellbore: Reader Unit 2H PWB

Plot reference wellpath is Reader Unit 2H PWB Rev-B.0	Grid System: NAD27 / UTM Zone 17 North, US feet
Tie vertical depths are referenced to H&P 519 (RKB)	North Reference: Grid north
Reference wellpath measured depths are referenced to H&P 519 (RKB)	Scale: True distance
H&P 519 (RKB) to Mean Sea Level: 1242 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (At Slot: Slot C): -1212 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's default MD datum	Created by: edstaryar on 2022-11-15; Database: WA_MFL_EASTERNUS_Defn

Location Information					
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	
Furbee Pad	1716103.700	14364954.390	39°33'26.2100"N	80°43'53.2980"W	
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude
Slot C	-28.80	8.27	1716111.970	14364925.600	39°33'25.9251"N
Comment	Reader Unit 2H				
H&P 519 (RKB) to Ground level (At Slot: Slot C)					30ft
Mean Sea Level to Ground level (At Slot: Slot C)					-1212ft
H&P 519 (RKB) to Mean Sea Level					1242ft

Well Profile Data								
Design Comment	MD (ft)	Inc (")	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS ("/100ft)	VS (ft)
Tie On	3497.00	17.080	57.290	3400.85	367.11	573.87	0.27	-181.31
Proj. to Bottom	3571.00	17.080	57.290	3471.39	378.86	592.16	0.00	-166.50
Drill Out	3651.00	17.080	57.290	3547.86	391.55	611.93	0.00	-172.10
End of 3D Arc	3672.66	17.384	58.331	3568.55	394.97	617.36	2.00	-173.58
Curve KOP	6557.53	17.384	58.331	6321.65	847.49	1350.95	0.00	-363.93
POE	7537.68	73.923	161.092	7041.00	408.03	1681.43	8.00	158.91
Landing Pt.	7734.89	89.700	161.092	7069.00	223.95	1744.49	8.00	353.50
BHL	22694.67	89.700	161.092	7147.33	-13928.40	6592.16	0.00	16313.07



API: 47-103-03497-0000
BH Job #: 111490458
Rig: H&P 519
Duration: 10/20/2022-10/24/2022

Well Data			
Slot	Well	Wellbore	Wellpath
Slot C	Reader Unit 2H	Reader Unit 2H AWB	Reader Unit 2H AWP Proj. 22692'
Slot C	Reader Unit 2H	Reader Unit 2H PWB	Reader Unit 2H PWP Rev-B.0

User specified (HDGM) Dip: 68.43° Field: 51793 nT
Magnetic North is 7.83 degrees West of True North (at 10/17/2022)
Grid North is 0.17 degrees East of True North
To correct azimuth from True to Grid subtract 0.17 degrees
To correct azimuth from Magnetic to Grid subtract 8.00 degrees

Projected MD at TD: 22692' : 7151.36ft TVD, 13919.08ft S, 6597.21ft E
Projected MD at TD: 22692' : 89.51" Inc, 22692.00ft MD, 7151.36ft TVD, 15305.89ft VS

Vertical Section (ft)
Azimuth 161.09° with reference 0.00 N, 0.00 E



Actual Wellpath Report

Reader Unit 2H AWP Proj: 22692'
Page 1 of 12



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Reader Unit 2H
Field	Wetzel	API	47-103-03497-0000
Facility	Furbee Pad	Wellbore	Reader Unit 2H AWB
Slot	Slot C		

REPORT SETUP INFORMATION			
Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Edsaryar
Scale	0.999607	Report Generated	11/15/2022 at 12:45:13 PM
Convergence at slot	0.17° 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	-28.80	8.27	1716111.97	14364925.60	39°33'25.9251"N	80°43'53.1935"W
Facility Reference Pt			1716103.70	14364954.39	39°33'26.2100"N	80°43'53.2980"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 519 (RKB) to Facility Vertical Datum	1242.00ft
Horizontal Reference Pt	Slot	H&P 519 (RKB) to Mean Sea Level	1242.00ft
Vertical Reference Pt	H&P 519 (RKB)	H&P 519 (RKB) to Ground Level at Slot (Slot C)	30.00ft
MD Reference Pt	H&P 519 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	161.09°



Actual Wellpath Report

Reader Unit 2H AWP Proj: 22692'
Page 2 of 12



REFERENCE WELLPATH IDENTIFICATION			
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Field	Wetzel	API	47-103-03497-0000
Facility	Furbee Pad	Wellbore	Reader Unit 2H AWB
Slot	Slot C		

WELLPATH DATA (248 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	220.460	0.00	0.00	0.00	0.00	1716111.97	14364925.60	39°33'25.9251"N	80°43'53.1935"W	0.00	0.000	0.00	0.00	0.00	
30.00	0.000	220.460	30.00	0.00	0.00	0.00	1716111.97	14364925.60	39°33'25.9251"N	80°43'53.1935"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.110	220.460	100.00	0.03	-0.05	-0.04	1716111.93	14364925.55	39°33'25.9246"N	80°43'53.1940"W	0.07	220.460	0.16	0.16	0.00	Gyrodata MS Gyro <17-1/2"> (100'-592')
200.00	0.180	175.120	200.00	0.24	-0.28	-0.09	1716111.88	14364925.32	39°33'25.9224"N	80°43'53.1947"W	0.30	198.246	0.13	0.07	-45.34	
300.00	0.110	115.500	300.00	0.46	-0.48	0.01	1716111.98	14364925.12	39°33'25.9204"N	80°43'53.1934"W	0.48	179.105	0.16	-0.07	-59.62	
400.00	0.050	264.900	400.00	0.51	-0.52	0.05	1716112.02	14364925.08	39°33'25.9200"N	80°43'53.1929"W	0.53	174.476	0.16	-0.06	149.40	
500.00	0.090	219.630	500.00	0.54	-0.59	-0.04	1716111.93	14364925.01	39°33'25.9193"N	80°43'53.1941"W	0.59	184.172	0.07	0.04	-45.27	
592.00	0.360	134.940	592.00	0.84	-0.85	0.12	1716112.09	14364924.75	39°33'25.9168"N	80°43'53.1920"W	0.86	172.237	0.39	0.29	-92.05	
687.00	0.800	113.450	686.99	1.55	-1.32	0.94	1716112.90	14364924.28	39°33'25.9120"N	80°43'53.1816"W	1.62	144.734	0.51	0.46	-22.62	APS EM <12-1/4"> (592')(687'-3497')
778.00	1.010	96.250	777.98	2.32	-1.66	2.32	1716114.28	14364923.94	39°33'25.9086"N	80°43'53.1640"W	2.85	125.684	0.37	0.23	-18.90	
869.00	2.130	87.480	868.95	3.14	-1.68	4.80	1716116.77	14364923.92	39°33'25.9084"N	80°43'53.1322"W	5.09	109.236	1.26	1.23	-9.64	
959.00	4.520	77.490	958.79	4.01	-0.83	9.94	1716121.90	14364924.77	39°33'25.9166"N	80°43'53.0667"W	9.97	94.797	2.72	2.66	-11.10	
1050.00	6.760	71.190	1049.34	4.42	1.67	18.51	1716130.47	14364927.27	39°33'25.9411"N	80°43'52.9571"W	18.58	84.844	2.55	2.46	-6.92	
1145.00	8.860	66.340	1143.46	3.82	6.41	30.50	1716142.46	14364932.01	39°33'25.9876"N	80°43'52.8038"W	31.17	78.133	2.31	2.21	-5.11	
1239.00	10.240	61.060	1236.16	1.77	13.36	44.45	1716156.40	14364938.95	39°33'26.0559"N	80°43'52.6255"W	46.41	73.272	1.74	1.47	-5.62	
1334.00	10.480	59.720	1329.61	-1.41	21.80	59.30	1716171.24	14364947.39	39°33'26.1389"N	80°43'52.4356"W	63.18	69.814	0.36	0.25	-1.41	
1429.00	11.680	56.420	1422.84	-5.55	31.48	74.77	1716186.71	14364957.06	39°33'26.2340"N	80°43'52.2377"W	81.13	67.170	1.43	1.26	-3.47	
1523.00	13.220	54.310	1514.62	-11.06	43.01	91.43	1716203.36	14364968.59	39°33'26.3475"N	80°43'52.0246"W	101.04	64.806	1.71	1.64	-2.24	
1617.00	14.750	55.160	1605.83	-17.45	56.12	109.98	1716221.91	14364981.70	39°33'26.4765"N	80°43'51.7872"W	123.47	62.967	1.64	1.63	0.90	
1712.00	16.590	54.520	1697.30	-24.63	70.90	130.95	1716242.87	14364996.47	39°33'26.6220"N	80°43'51.5189"W	148.91	61.568	1.95	1.94	-0.67	
1806.00	18.210	55.530	1786.99	-32.40	87.00	153.99	1716265.90	14365012.57	39°33'26.7805"N	80°43'51.2241"W	176.87	60.534	1.75	1.72	1.07	
1901.00	18.340	54.680	1877.20	-40.61	104.04	178.42	1716290.32	14365029.60	39°33'26.9482"N	80°43'50.9116"W	206.54	59.752	0.31	0.14	-0.89	
1995.00	18.300	57.360	1966.44	-48.29	120.55	202.92	1716314.81	14365046.11	39°33'27.1106"N	80°43'50.5982"W	236.03	59.285	0.90	-0.04	2.85	
2090.00	17.730	57.240	2056.78	-55.29	136.43	227.64	1716339.52	14365061.97	39°33'27.2668"N	80°43'50.2819"W	265.39	59.065	0.60	-0.60	-0.13	
2184.00	17.640	54.780	2146.34	-62.72	152.39	251.31	1716363.18	14365077.93	39°33'27.4238"N	80°43'49.9791"W	293.90	58.769	0.80	-0.10	-2.62	
2278.00	17.720	55.150	2235.90	-70.64	168.77	274.69	1716386.55	14365094.31	39°33'27.5851"N	80°43'49.6800"W	322.39	58.432	0.15	0.09	0.39	
2373.00	18.130	54.210	2326.29	-78.91	185.68	298.54	1716410.39	14365111.21	39°33'27.7514"N	80°43'49.3748"W	351.57	58.120	0.53	0.43	-0.99	
2468.00	18.180	53.740	2416.56	-87.62	203.09	322.48	1716434.32	14365128.61	39°33'27.9228"N	80°43'49.0685"W	381.10	57.799	0.16	0.05	-0.49	
2562.00	17.810	51.400	2505.96	-96.83	220.73	345.54	1716457.37	14365146.24	39°33'28.0965"N	80°43'48.7735"W	410.03	57.430	0.86	-0.39	-2.49	
2657.00	17.440	53.440	2598.51	-106.05	238.28	368.33	1716480.16	14365163.78	39°33'28.2692"N	80°43'48.4818"W	438.68	57.101	0.76	-0.39	2.15	



Actual Wellpath Report

Reader Unit 2H AWP Proj: 22692'

Page 3 of 12



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Reader Unit 2H
Field	Wetzel	API	47-103-03497-0000
Facility	Furbee Pad	Wellbore	Reader Unit 2H AWB
Slot	Slot C		

WELLPATH DATA (248 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	
2751.00	17.520	55.630	2686.17	-114.09	254.65	391.32	1716503.14	14365180.15	39°33'28.4304"N	80°43'48.1876"W	466.89	56.946	0.70	0.09	2.33		
2846.00	16.800	60.180	2776.94	-120.50	269.55	415.04	1716526.85	14365195.05	39°33'28.5769"N	80°43'47.8843"W	494.89	56.998	1.60	-0.76	4.79		
2940.00	16.810	61.030	2866.93	-125.44	282.89	438.72	1716550.51	14365208.38	39°33'28.7081"N	80°43'47.5815"W	522.02	57.185	0.26	0.01	0.90		
3035.00	16.470	59.420	2957.95	-130.57	296.40	462.33	1716574.12	14365221.88	39°33'28.8408"N	80°43'47.2795"W	549.18	57.336	0.60	-0.36	-1.69		
3130.00	16.380	57.690	3049.07	-136.40	310.41	485.24	1716597.02	14365235.89	39°33'28.9786"N	80°43'46.9864"W	576.03	57.393	0.52	-0.09	-1.82		
3224.00	16.090	56.110	3139.32	-142.84	324.76	507.26	1716619.03	14365250.23	39°33'29.1198"N	80°43'46.7048"W	602.31	57.372	0.56	-0.31	-1.68		
3319.00	16.600	58.390	3230.48	-149.22	339.21	529.75	1716641.51	14365264.68	39°33'29.2620"N	80°43'46.4171"W	629.04	57.367	0.86	0.54	2.40		
3414.00	17.290	57.530	3321.36	-155.51	353.90	553.21	1716664.96	14365279.36	39°33'29.4065"N	80°43'46.1169"W	656.73	57.392	0.77	0.73	-0.91		
3497.00	17.080	57.290	3400.65	-161.31	367.11	573.87	1716685.62	14365292.57	39°33'29.5364"N	80°43'45.8526"W	681.25	57.393	0.27	-0.25	-0.29		
3606.00	17.060	53.920	3504.86	-169.85	385.18	600.27	1716712.00	14365310.62	39°33'29.7142"N	80°43'45.5150"W	713.22	57.313	0.91	-0.02	-3.09	APS EM <8-3/4"> (3497')(3606'-6350')	
3701.00	16.220	52.990	3595.88	-178.09	401.37	622.12	1716733.85	14365326.81	39°33'29.8735"N	80°43'45.2353"W	740.36	57.171	0.93	-0.88	-0.98		
3796.00	17.550	54.410	3686.78	-186.32	417.69	644.37	1716756.08	14365343.13	39°33'30.0342"N	80°43'44.9507"W	767.90	57.048	1.47	1.40	1.49		
3890.00	18.110	53.450	3776.26	-194.82	434.64	667.63	1716779.33	14365360.07	39°33'30.2010"N	80°43'44.6531"W	796.64	56.935	0.67	0.60	-1.02		
3985.00	18.630	55.960	3866.42	-203.25	451.93	692.06	1716803.76	14365377.35	39°33'30.3712"N	80°43'44.3404"W	826.56	56.855	1.00	0.55	2.64		
4080.00	19.640	61.950	3956.18	-209.75	467.93	718.73	1716830.42	14365393.35	39°33'30.5285"N	80°43'43.9993"W	857.63	56.934	2.32	1.06	6.31		
4174.00	20.020	61.320	4044.61	-214.99	483.08	746.79	1716858.46	14365408.49	39°33'30.6774"N	80°43'43.6405"W	889.42	57.102	0.46	0.40	-0.67		
4269.00	18.610	58.140	4134.26	-221.15	498.89	773.93	1716885.60	14365424.29	39°33'30.8328"N	80°43'43.2934"W	920.80	57.193	1.85	-1.48	-3.35		
4364.00	17.420	55.050	4224.61	-228.47	515.04	798.46	1716910.12	14365440.44	39°33'30.9917"N	80°43'42.9795"W	950.16	57.176	1.61	-1.25	-3.25		
4458.00	17.470	56.900	4314.28	-235.82	530.81	821.82	1716933.46	14365456.20	39°33'31.1468"N	80°43'42.6808"W	978.33	57.142	0.59	0.05	1.97		
4553.00	18.230	62.440	4404.72	-241.55	545.47	846.94	1716958.57	14365470.85	39°33'31.2910"N	80°43'42.3595"W	1007.39	57.217	1.96	0.80	5.83		
4648.00	16.820	61.030	4495.30	-246.19	559.00	872.14	1716983.76	14365484.38	39°33'31.4240"N	80°43'42.0372"W	1035.91	57.342	1.55	-1.48	-1.48		
4743.00	17.350	60.040	4586.11	-251.30	572.73	896.44	1717008.05	14365498.11	39°33'31.5590"N	80°43'41.7265"W	1063.78	57.425	0.64	0.56	-1.04		
4838.00	18.340	64.010	4676.54	-255.86	586.36	922.14	1717033.75	14365511.73	39°33'31.6929"N	80°43'41.3977"W	1092.78	57.549	1.65	1.04	4.18		
4932.00	19.860	66.640	4765.37	-258.92	599.17	950.10	1717061.69	14365524.53	39°33'31.8187"N	80°43'41.0403"W	1123.25	57.763	1.86	1.62	2.80		
5027.00	19.030	63.660	4854.95	-262.18	612.44	978.79	1717090.38	14365537.80	39°33'31.9490"N	80°43'40.6734"W	1154.61	57.965	1.36	-0.87	-3.14		
5121.00	17.520	59.690	4944.21	-266.96	626.38	1004.74	1717116.32	14365551.74	39°33'32.0860"N	80°43'40.3416"W	1184.00	58.060	2.08	-1.61	-4.22		
5216.00	17.690	59.080	5034.76	-272.79	641.02	1029.47	1717141.03	14365566.36	39°33'32.2299"N	80°43'40.0253"W	1212.73	58.091	0.26	0.18	-0.64		
5310.00	19.190	58.820	5123.93	-279.04	656.35	1054.94	1717166.50	14365581.89	39°33'32.3807"N	80°43'39.6995"W	1242.46	58.111	1.60	1.60	-0.28		
5405.00	18.440	55.140	5213.86	-286.49	673.03	1080.63	1717192.17	14365598.36	39°33'32.5447"N	80°43'39.3709"W	1273.08	58.085	1.48	-0.79	-3.87		
5500.00	17.300	59.950	5304.28	-293.35	688.69	1105.19	1717216.72	14365614.02	39°33'32.6988"N	80°43'39.0567"W	1302.20	58.071	1.96	-1.20	5.06		



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Page 4 of 12



REFERENCE WELLPATH IDENTIFICATION			
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Field	Wetzel	API	47-103-03497-0000
Facility	Furbee Pad	Wellbore	Reader Unit 2H AWB
Slot	Slot C		

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5595.00	15.100	57.100	5395.50	-299.07	702.48	1127.81	1717239.33	14365627.81	39°33'32.8344"N	80°43'38.7674"W	1328.70	58.082	2.46	-2.32	-3.00	
5689.00	15.640	58.140	5486.14	-304.87	715.82	1148.85	1717260.37	14365641.14	39°33'32.9656"N	80°43'38.4982"W	1353.61	58.074	0.64	0.57	1.11	
5784.00	16.820	58.540	5577.35	-310.72	729.76	1171.45	1717282.96	14365655.07	39°33'33.1027"N	80°43'38.2091"W	1380.16	58.079	1.25	1.24	0.42	
5878.00	18.890	60.320	5666.82	-316.52	744.39	1196.28	1717307.77	14365669.70	39°33'33.2466"N	80°43'37.8916"W	1408.97	58.108	2.28	2.20	1.89	
5973.00	18.220	57.870	5756.88	-322.79	759.91	1222.21	1717333.70	14365685.20	39°33'33.3991"N	80°43'37.5599"W	1439.19	58.129	1.08	-0.71	-2.58	
6067.00	16.060	53.150	5846.71	-330.16	775.52	1245.07	1717356.54	14365700.81	39°33'33.5528"N	80°43'37.2675"W	1466.84	58.082	2.73	-2.30	-5.02	
6162.00	14.250	54.310	5938.40	-337.58	790.22	1265.08	1717376.55	14365715.51	39°33'33.6975"N	80°43'37.0114"W	1491.60	58.009	1.93	-1.91	1.22	
6257.00	13.650	51.480	6030.60	-344.72	804.03	1283.35	1717394.81	14365729.31	39°33'33.8333"N	80°43'36.7776"W	1514.41	57.933	0.96	-0.63	-2.98	
6350.00	13.650	51.880	6120.97	-352.02	817.64	1300.57	1717412.02	14365742.91	39°33'33.9673"N	80°43'36.5573"W	1536.23	57.843	0.10	0.00	0.43	
6400.00	11.040	47.340	6169.81	-355.89	824.52	1308.73	1717420.18	14365749.80	39°33'34.0351"N	80°43'36.4528"W	1546.81	57.788	5.57	-5.22	-9.08	BH AT Curve <8-1/2"> (6350')(6400'-22667')
6467.00	11.970	60.980	6235.48	-359.69	832.24	1319.52	1717430.97	14365757.51	39°33'34.1111"N	80°43'36.3146"W	1560.05	57.760	4.28	1.39	20.36	
6561.00	18.530	60.680	6326.12	-364.10	844.30	1341.10	1717452.53	14365769.56	39°33'34.2296"N	80°43'36.0388"W	1584.73	57.807	6.98	6.98	-0.32	
6656.00	20.510	84.470	6415.80	-362.98	853.31	1370.87	1717482.30	14365778.57	39°33'34.3178"N	80°43'35.6582"W	1614.75	58.100	8.56	2.08	25.04	
6750.00	20.540	108.340	6503.98	-349.16	849.70	1402.97	1717514.39	14365774.97	39°33'34.2811"N	80°43'35.2485"W	1640.22	58.799	8.85	0.03	25.39	
6845.00	24.470	123.590	6591.81	-323.43	833.55	1435.22	1717546.62	14365758.82	39°33'34.1206"N	80°43'34.8374"W	1659.72	59.853	7.38	4.14	16.05	
6940.00	29.890	134.450	6676.34	-286.62	806.05	1468.55	1717579.94	14365731.33	39°33'33.8478"N	80°43'34.4129"W	1675.22	61.239	7.71	5.71	11.43	
6963.00†	31.471	136.672	6696.12	-276.03	797.67	1476.77	1717588.15	14365722.96	39°33'33.7647"N	80°43'34.3084"W	1678.43	61.624	8.46	6.87	9.66	Sycamore: 6963' MD
7034.00	36.550	142.410	6754.97	-239.09	767.41	1502.40	1717613.78	14365692.71	39°33'33.4649"N	80°43'33.9822"W	1687.05	62.943	8.46	7.15	8.08	
7129.00	42.280	147.310	6828.35	-181.19	718.05	1536.95	1717648.32	14365643.36	39°33'32.9760"N	80°43'33.5430"W	1696.41	64.959	6.86	6.03	5.16	Middlesex: 7129' MD
7223.00	49.530	151.550	6893.73	-115.12	659.91	1571.12	1717682.47	14365585.25	39°33'32.4003"N	80°43'33.1091"W	1704.08	67.216	8.36	7.71	4.51	
7274.00†	53.704	153.140	6925.39	-75.62	624.50	1589.66	1717701.00	14365549.85	39°33'32.0498"N	80°43'32.8738"W	1707.92	68.553	8.54	8.18	3.12	Burkett: 7274' MD
7318.00	57.320	154.380	6950.30	-39.65	591.97	1605.68	1717717.01	14365517.34	39°33'31.7279"N	80°43'32.6705"W	1711.33	69.762	8.54	8.22	2.82	
7326.00†	57.999	154.643	6954.58	-32.94	585.87	1608.59	1717719.92	14365511.24	39°33'31.6675"N	80°43'32.6336"W	1711.96	69.988	8.93	8.49	3.29	Tully: 7326' MD
7412.00	65.330	157.260	6995.38	42.40	516.78	1639.35	1717750.68	14365442.17	39°33'30.9837"N	80°43'32.2435"W	1718.88	72.503	8.93	8.52	3.04	
7423.00†	66.155	157.526	6999.90	52.41	507.52	1643.21	1717754.53	14365432.92	39°33'30.8921"N	80°43'32.1946"W	1719.80	72.836	7.82	7.50	2.42	Hamilton: 7423' MD
7507.00	72.470	159.460	7029.56	130.87	434.44	1671.98	1717783.29	14365359.87	39°33'30.1689"N	80°43'31.8302"W	1727.50	75.435	7.82	7.52	2.30	
7536.00†	74.651	159.750	7037.77	158.67	408.37	1681.67	1717792.97	14365333.81	39°33'29.9110"N	80°43'31.7074"W	1730.54	76.351	7.58	7.52	1.00	Marcellus POE: 7536' MD
7601.00	79.540	160.380	7052.28	222.00	348.82	1703.26	1717814.56	14365274.29	39°33'29.3218"N	80°43'31.4341"W	1738.61	78.426	7.58	7.52	0.97	
7696.00	87.600	160.260	7062.91	316.32	260.01	1735.03	1717846.31	14365185.51	39°33'28.4431"N	80°43'31.0320"W	1754.40	81.477	8.49	8.48	-0.13	
7790.00	89.690	160.220	7065.13	410.27	171.57	1766.80	1717878.07	14365097.11	39°33'27.5681"N	80°43'30.6298"W	1775.11	84.463	2.22	2.22	-0.04	



Actual Wellpath Report

Reader Unit 2H AWP Proj: 22692'
Page 5 of 12



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Reader Unit 2H
Field	Wetzel	API	47-103-03497-0000
Facility	Furbee Pad	Wellbore	Reader Unit 2H AWB
Slot	Slot C		

WELLPATH DATA (248 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
7885.00	89.170	159.920	7066.08	505.25	82.27	1799.18	1717910.44	14365007.84	39°33'26.6845"N	80°43'30.2199"W	1801.06	87.382	0.63	-0.55	-0.32	
7980.00	89.320	160.400	7067.33	600.23	-7.08	1831.42	1717942.66	14364918.52	39°33'25.8004"N	80°43'29.8118"W	1831.43	90.222	0.53	0.16	0.51	
8074.00	88.920	159.590	7068.77	694.20	-95.40	1863.57	1717974.80	14364830.24	39°33'24.9266"N	80°43'29.4047"W	1866.01	92.931	0.96	-0.43	-0.86	
8168.00	90.220	159.640	7069.48	788.17	-183.51	1896.31	1718007.53	14364742.16	39°33'24.0548"N	80°43'28.9901"W	1905.17	95.527	1.38	1.38	0.05	
8263.00	89.880	161.300	7069.40	883.16	-273.04	1928.07	1718039.28	14364652.67	39°33'23.1690"N	80°43'28.5882"W	1947.31	98.060	1.78	-0.36	1.75	
8357.00	90.620	158.660	7068.98	977.13	-361.35	1960.25	1718071.44	14364564.39	39°33'22.2953"N	80°43'28.1808"W	1993.27	100.445	2.92	0.79	-2.81	
8452.00	88.860	159.980	7069.42	1072.08	-450.22	1993.79	1718104.98	14364475.55	39°33'21.4159"N	80°43'27.7560"W	2043.99	102.725	2.32	-1.85	1.39	
8547.00	88.980	158.400	7071.21	1167.01	-539.01	2027.54	1718138.71	14364386.81	39°33'20.5374"N	80°43'27.3287"W	2097.96	104.887	1.67	0.13	-1.66	
8641.00	90.490	161.530	7071.64	1260.97	-627.31	2059.74	1718170.89	14364298.54	39°33'19.6638"N	80°43'26.9211"W	2153.14	106.938	3.70	1.61	3.33	
8735.00	90.180	158.070	7071.09	1354.93	-715.51	2092.19	1718203.33	14364210.37	39°33'18.7910"N	80°43'26.5102"W	2211.15	108.880	3.70	-0.33	-3.68	
8830.00	87.780	161.110	7072.78	1449.87	-804.51	2125.31	1718236.44	14364121.41	39°33'17.9104"N	80°43'26.0909"W	2272.48	110.734	4.08	-2.53	3.20	
8925.00	90.090	162.100	7074.55	1544.84	-894.64	2155.28	1718266.40	14364031.32	39°33'17.0188"N	80°43'25.7118"W	2333.58	112.543	2.65	2.43	1.04	
9019.00	89.780	162.700	7074.66	1638.81	-984.24	2183.70	1718294.81	14363941.75	39°33'16.1324"N	80°43'25.3524"W	2395.26	114.262	0.72	-0.33	0.64	
9114.00	88.770	162.110	7075.86	1733.78	-1074.78	2212.42	1718323.51	14363851.24	39°33'15.2366"N	80°43'24.9894"W	2459.66	115.910	1.23	-1.06	-0.62	
9208.00	91.480	163.640	7075.65	1827.72	-1164.60	2240.09	1718351.18	14363761.46	39°33'14.3481"N	80°43'24.6396"W	2524.74	117.470	3.31	2.88	1.63	
9303.00	90.090	160.940	7074.35	1922.68	-1255.08	2268.98	1718380.06	14363671.01	39°33'13.4530"N	80°43'24.2743"W	2592.98	118.949	3.20	-1.46	-2.84	
9398.00	89.110	162.370	7075.01	2017.67	-1345.25	2298.88	1718409.94	14363580.88	39°33'12.5609"N	80°43'23.8961"W	2663.56	120.335	1.82	-1.03	1.51	
9492.00	90.830	162.280	7075.06	2111.65	-1434.81	2327.42	1718438.47	14363491.36	39°33'11.6749"N	80°43'23.5353"W	2734.15	121.653	1.83	1.83	-0.10	
9587.00	89.320	163.020	7074.94	2206.61	-1525.48	2355.75	1718466.79	14363400.72	39°33'10.7779"N	80°43'23.1772"W	2806.54	122.925	1.77	-1.59	0.78	
9682.00	90.430	163.080	7075.15	2301.55	-1616.35	2383.45	1718494.47	14363309.89	39°33'9.8790"N	80°43'22.8272"W	2879.83	124.143	1.17	1.17	0.06	
9776.00	89.080	159.630	7075.55	2395.53	-1705.40	2413.49	1718524.51	14363220.87	39°33'8.9979"N	80°43'22.4471"W	2955.22	125.246	3.94	-1.44	-3.67	
9871.00	90.650	162.390	7075.77	2490.52	-1795.22	2444.40	1718555.40	14363131.09	39°33'8.1093"N	80°43'22.0560"W	3032.81	126.294	3.34	1.65	2.91	
9966.00	90.860	162.760	7074.52	2585.48	-1885.85	2472.85	1718583.84	14363040.49	39°33'7.2127"N	80°43'21.6965"W	3109.89	127.330	0.45	0.22	0.39	
10060.00	89.320	162.360	7074.37	2679.44	-1975.53	2501.02	1718612.00	14362950.85	39°33'6.3256"N	80°43'21.3404"W	3187.13	128.305	1.69	-1.64	-0.43	
10155.00	88.950	160.340	7075.81	2774.43	-2065.53	2531.39	1718642.36	14362860.89	39°33'5.4352"N	80°43'20.9561"W	3267.16	129.213	2.16	-0.39	-2.13	
10250.00	89.820	161.720	7076.83	2869.42	-2155.36	2562.27	1718673.23	14362771.09	39°33'4.5464"N	80°43'20.5655"W	3348.25	130.070	1.72	0.92	1.45	
10345.00	88.680	163.380	7078.07	2964.38	-2245.97	2590.76	1718701.70	14362680.51	39°33'3.6500"N	80°43'20.2054"W	3428.76	130.923	2.12	-1.20	1.75	
10439.00	91.020	164.370	7078.32	3058.26	-2336.27	2616.86	1718727.80	14362590.26	39°33'2.7568"N	80°43'19.8757"W	3508.01	131.758	2.70	2.49	1.05	
10534.00	89.230	160.520	7078.11	3153.21	-2426.82	2645.51	1718756.43	14362499.74	39°33'1.8609"N	80°43'19.5136"W	3590.01	132.531	4.47	-1.88	-4.05	
10628.00	89.050	163.430	7079.52	3247.18	-2516.19	2674.59	1718785.50	14362410.40	39°33'0.9768"N	80°43'19.1459"W	3672.14	133.252	3.10	-0.19	3.10	



Actual Wellpath Report

Reader Unit 2H AWP Proj: 22692'
Page 6 of 12



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Reader Unit 2H
Field	Wetzel	API	47-103-03497-0000
Facility	Furbee Pad	Wellbore	Reader Unit 2H AWB
Slot	Slot C		

WELLPATH DATA (248 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
10723.00	91.720	166.200	7078.88	3341.96	-2607.85	2699.47	1718810.37	14362318.78	39°33'0.0701"N	80°43'18.8319"W	3753.40	134.011	4.05	2.81	2.92	
10817.00	91.420	160.270	7076.30	3435.81	-2697.78	2726.56	1718837.45	14362228.88	39°32'59.1805"N	80°43'18.4896"W	3835.64	134.696	6.31	-0.32	-6.31	
10912.00	88.250	160.180	7076.58	3530.79	-2787.17	2758.70	1718869.58	14362139.53	39°32'58.2961"N	80°43'18.0828"W	3921.57	135.294	3.34	-3.34	-0.09	
11007.00	89.480	163.730	7078.46	3625.74	-2877.46	2788.11	1718898.98	14362049.27	39°32'57.4028"N	80°43'17.7109"W	4006.67	135.904	3.95	1.29	3.74	
11101.00	88.400	162.350	7080.20	3719.67	-2967.36	2815.53	1718926.38	14361959.42	39°32'56.5135"N	80°43'17.3645"W	4090.53	136.504	1.86	-1.15	-1.47	
11196.00	89.480	163.610	7081.96	3814.60	-3058.18	2843.33	1718954.17	14361868.63	39°32'55.6151"N	80°43'17.0132"W	4175.76	137.085	1.75	1.14	1.33	
11291.00	88.860	161.730	7083.33	3909.55	-3148.85	2871.62	1718982.46	14361777.99	39°32'54.7180"N	80°43'16.6556"W	4261.63	137.636	2.08	-0.65	-1.98	
11386.00	90.490	163.930	7083.87	4004.49	-3239.61	2899.66	1719010.49	14361687.27	39°32'53.8202"N	80°43'16.3012"W	4347.77	138.169	2.88	1.72	2.32	
11481.00	89.050	162.280	7084.25	4099.43	-3330.50	2927.27	1719038.08	14361596.42	39°32'52.9211"N	80°43'15.9524"W	4434.09	138.687	2.31	-1.52	-1.74	
11576.00	90.340	162.200	7084.76	4194.40	-3420.97	2956.25	1719067.05	14361505.98	39°32'52.0260"N	80°43'15.5861"W	4521.33	139.168	1.36	1.36	-0.08	
11671.00	90.180	159.530	7084.33	4289.39	-3510.71	2987.38	1719098.17	14361416.28	39°32'51.1381"N	80°43'15.1921"W	4609.72	139.604	2.82	-0.17	-2.81	
11765.00	89.570	159.220	7084.53	4383.35	-3598.69	3020.50	1719131.27	14361328.34	39°32'50.2677"N	80°43'14.7729"W	4698.29	139.992	0.73	-0.65	-0.33	
11860.00	89.230	160.190	7085.53	4478.32	-3687.78	3053.44	1719164.21	14361239.28	39°32'49.3861"N	80°43'14.3559"W	4787.82	140.376	1.08	-0.36	1.02	
11954.00	88.680	158.320	7087.24	4572.25	-3775.67	3086.73	1719197.48	14361151.42	39°32'48.5165"N	80°43'13.9344"W	4876.84	140.733	2.07	-0.59	-1.99	
12049.00	88.860	156.920	7089.28	4667.05	-3863.49	3122.89	1719233.63	14361063.64	39°32'47.6474"N	80°43'13.4763"W	4967.80	141.051	1.49	0.19	-1.47	
12144.00	89.450	157.390	7090.68	4761.81	-3951.03	3159.77	1719270.49	14360976.13	39°32'46.7811"N	80°43'13.0090"W	5059.13	141.349	0.79	0.62	0.49	
12238.00	90.980	158.700	7090.33	4855.68	-4038.21	3194.92	1719305.62	14360888.99	39°32'45.9184"N	80°43'12.5639"W	5149.23	141.650	2.14	1.63	1.39	
12333.00	89.170	158.800	7090.21	4950.59	-4126.74	3229.35	1719340.04	14360800.49	39°32'45.0423"N	80°43'12.1279"W	5240.10	141.955	1.91	-1.91	0.11	
12428.00	89.290	158.090	7091.48	5045.48	-4215.09	3264.24	1719374.92	14360712.18	39°32'44.1681"N	80°43'11.6859"W	5331.26	142.245	0.76	0.13	-0.75	
12523.00	89.600	158.810	7092.40	5140.38	-4303.45	3299.14	1719409.80	14360623.86	39°32'43.2938"N	80°43'11.2440"W	5422.54	142.525	0.83	0.33	0.76	
12617.00	90.490	159.140	7092.33	5234.31	-4391.19	3332.86	1719443.51	14360536.15	39°32'42.4256"N	80°43'10.8170"W	5512.76	142.802	1.01	0.95	0.35	
12712.00	90.520	158.460	7091.49	5329.23	-4479.75	3367.22	1719477.85	14360447.62	39°32'41.5492"N	80°43'10.3820"W	5604.13	143.070	0.72	0.03	-0.72	
12807.00	90.340	158.770	7090.78	5424.14	-4568.21	3401.85	1719512.48	14360359.20	39°32'40.6739"N	80°43'9.9434"W	5695.71	143.326	0.38	-0.19	0.33	
12901.00	90.680	159.190	7089.94	5518.07	-4655.95	3435.57	1719546.18	14360271.49	39°32'39.8057"N	80°43'9.5165"W	5786.28	143.577	0.57	0.36	0.45	
12996.00	91.450	160.210	7088.18	5613.03	-4745.03	3468.52	1719579.12	14360182.44	39°32'38.9243"N	80°43'9.0994"W	5877.58	143.834	1.35	0.81	1.07	
13090.00	89.690	159.260	7087.24	5706.99	-4833.21	3501.08	1719611.66	14360094.31	39°32'38.0518"N	80°43'8.6873"W	5968.03	144.081	2.13	-1.87	-1.01	
13279.00	89.510	158.970	7088.56	5895.87	-5009.78	3568.45	1719679.01	14359917.80	39°32'36.3046"N	80°43'7.8344"W	6150.76	144.538	0.18	-0.10	-0.15	
13374.00	89.630	156.990	7089.27	5990.73	-5097.85	3604.07	1719714.61	14359829.77	39°32'35.4331"N	80°43'7.3832"W	6243.18	144.741	2.09	0.13	-2.08	
13469.00	88.860	159.780	7090.52	6085.60	-5186.15	3639.06	1719749.59	14359741.50	39°32'34.5594"N	80°43'6.9402"W	6335.53	144.943	3.05	-0.81	2.94	
13563.00	90.000	161.040	7091.46	6179.59	-5274.70	3670.57	1719781.09	14359652.99	39°32'33.6832"N	80°43'6.5414"W	6426.16	145.167	1.81	1.21	1.34	



Actual Wellpath Report

Reader Unit 2H AWP Proj: 22692'
Page 7 of 12



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Reader Unit 2H
Field	Wetzel	API	47-103-03497-0000
Facility	Furbee Pad	Wellbore	Reader Unit 2H AWB
Slot	Slot C		

WELLPATH DATA (248 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
13658.00	89.290	160.310	7092.05	6274.58	-5364.35	3702.01	1719812.51	14359563.38	39°32'32.7963"N	80°43'6.1437"W	6517.75	145.390	1.07	-0.75	-0.77	
13753.00	88.950	164.550	7093.51	6369.52	-5454.88	3730.68	1719841.17	14359472.88	39°32'31.9006"N	80°43'5.7814"W	6608.61	145.631	4.48	-0.36	4.46	
13847.00	91.020	163.340	7093.53	6463.40	-5545.21	3756.67	1719867.16	14359382.58	39°32'31.0070"N	80°43'5.4532"W	6697.90	145.884	2.55	2.20	-1.29	
13942.00	90.490	163.180	7092.28	6558.32	-5636.17	3784.03	1719894.50	14359291.65	39°32'30.1072"N	80°43'5.1076"W	6788.62	146.123	0.58	-0.56	-0.17	
14037.00	87.200	162.920	7094.20	6653.23	-5727.02	3811.72	1719922.18	14359200.85	39°32'29.2085"N	80°43'4.7579"W	6879.53	146.354	3.47	-3.46	-0.27	
14131.00	92.370	165.610	7094.55	6747.05	-5817.45	3837.20	1719947.65	14359110.45	39°32'28.3139"N	80°43'4.4362"W	6968.99	146.591	6.20	5.50	2.86	
14226.00	89.200	163.940	7093.25	6841.83	-5909.10	3862.14	1719972.58	14359018.84	39°32'27.4074"N	80°43'4.1215"W	7059.29	146.832	3.77	-3.34	-1.76	
14320.00	89.110	161.030	7094.63	6935.78	-5998.72	3890.42	1720000.85	14358929.25	39°32'26.5208"N	80°43'3.7641"W	7149.83	147.035	3.10	-0.10	-3.10	
14415.00	91.050	161.680	7094.50	7030.77	-6088.73	3920.79	1720031.21	14358839.28	39°32'25.6302"N	80°43'3.3801"W	7241.91	147.221	2.15	2.04	0.68	
14509.00	88.340	162.100	7095.00	7124.75	-6178.06	3950.01	1720060.42	14358749.98	39°32'24.7464"N	80°43'3.0107"W	7332.87	147.407	2.92	-2.88	0.45	
14604.00	92.160	161.320	7094.59	7219.73	-6268.24	3979.82	1720090.21	14358659.83	39°32'23.8542"N	80°43'2.6339"W	7424.95	147.588	4.10	4.02	-0.82	
14698.00	89.380	162.790	7093.32	7313.70	-6357.65	4008.77	1720119.16	14358570.46	39°32'22.9697"N	80°43'2.2679"W	7515.98	147.767	3.35	-2.96	1.56	
14793.00	89.510	162.170	7094.24	7408.66	-6448.24	4037.37	1720147.74	14358479.91	39°32'22.0735"N	80°43'1.9065"W	7607.90	147.949	0.67	0.14	-0.65	
14888.00	90.740	161.380	7094.04	7503.65	-6538.47	4067.08	1720177.44	14358389.71	39°32'21.1808"N	80°43'1.5309"W	7700.18	148.117	1.54	1.29	-0.83	
14982.00	91.290	163.760	7092.37	7597.60	-6628.14	4095.23	1720205.58	14358300.09	39°32'20.2937"N	80°43'1.1752"W	7791.22	148.290	2.60	0.59	2.53	
15077.00	88.860	162.270	7092.25	7692.54	-6718.98	4122.98	1720233.32	14358209.27	39°32'19.3950"N	80°43'0.8247"W	7883.13	148.465	3.00	-2.56	-1.57	
15172.00	89.050	163.240	7093.98	7787.48	-6809.70	4151.14	1720261.47	14358118.60	39°32'18.4976"N	80°43'0.4689"W	7975.21	148.634	1.04	0.20	1.02	
15266.00	88.830	160.710	7095.72	7881.44	-6899.06	4180.22	1720290.53	14358029.27	39°32'17.6135"N	80°43'0.1013"W	8066.67	148.788	2.70	-0.23	-2.69	
15361.00	90.520	161.940	7096.26	7976.44	-6989.05	4210.63	1720320.94	14357939.31	39°32'16.7231"N	80°42'59.7167"W	8159.43	148.933	2.20	1.78	1.29	
15456.00	90.030	162.620	7095.80	8071.41	-7079.54	4239.55	1720349.84	14357848.86	39°32'15.8279"N	80°42'59.3513"W	8251.89	149.085	0.88	-0.52	0.72	
15550.00	90.370	164.050	7095.47	8165.34	-7169.59	4266.50	1720376.79	14357758.84	39°32'14.9371"N	80°42'59.0109"W	8343.03	149.244	1.56	0.36	1.52	
15645.00	88.800	160.170	7096.16	8260.30	-7259.98	4295.68	1720405.95	14357668.50	39°32'14.0429"N	80°42'58.6421"W	8435.64	149.387	4.41	-1.65	-4.08	
15739.00	91.630	163.320	7095.81	8354.27	-7349.22	4325.12	1720435.38	14357579.28	39°32'13.1599"N	80°42'58.2700"W	8527.47	149.523	4.50	3.01	3.35	
15834.00	88.340	161.620	7095.83	8449.23	-7439.80	4353.73	1720463.98	14357488.75	39°32'12.2638"N	80°42'57.9085"W	8620.06	149.664	3.90	-3.46	-1.79	
15929.00	89.540	162.770	7097.59	8544.19	-7530.23	4382.77	1720493.01	14357398.35	39°32'11.3692"N	80°42'57.5414"W	8712.81	149.800	1.75	1.26	1.21	
16023.00	88.280	162.010	7099.38	8638.15	-7619.80	4411.20	1720521.43	14357308.81	39°32'10.4830"N	80°42'57.1822"W	8804.55	149.933	1.57	-1.34	-0.81	
16118.00	88.980	162.600	7101.65	8733.10	-7710.28	4440.07	1720550.28	14357218.37	39°32'9.5879"N	80°42'56.8174"W	8897.34	150.064	0.96	0.74	0.62	
16212.00	90.280	164.040	7102.26	8827.02	-7800.32	4467.05	1720577.25	14357128.36	39°32'8.6972"N	80°42'56.4767"W	8988.85	150.201	2.06	1.38	1.53	
16307.00	90.120	160.340	7101.93	8921.99	-7890.75	4496.10	1720606.29	14357037.97	39°32'7.8025"N	80°42'56.1095"W	9081.79	150.326	3.90	-0.17	-3.89	
16401.00	89.750	161.050	7102.03	9015.98	-7979.47	4527.17	1720637.35	14356949.29	39°32'6.9248"N	80°42'55.7165"W	9174.27	150.431	0.85	-0.39	0.76	



Actual Wellpath Report

Reader Unit 2H AWP Proj: 22692'
Page 8 of 12



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Reader Unit 2H
Field	Wetzel	API	47-103-03497-0000
Facility	Furbee Pad	Wellbore	Reader Unit 2H AWB
Slot	Slot C		

WELLPATH DATA (248 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
16496.00	89.720	159.590	7102.47	9110.97	-8068.91	4559.17	1720669.33	14356859.88	39°32'6.0397"N	80°42'55.3118"W	9267.87	150.532	1.54	-0.03	-1.54	
16591.00	89.780	161.420	7102.89	9205.96	-8158.46	4590.87	1720701.02	14356770.36	39°32'5.1537"N	80°42'54.9108"W	9361.44	150.633	1.93	0.06	1.93	
16685.00	90.150	160.500	7102.94	9299.96	-8247.32	4621.53	1720731.68	14356681.54	39°32'4.2746"N	80°42'54.5230"W	9453.93	150.735	1.05	0.39	-0.98	
16780.00	90.220	159.770	7102.64	9394.94	-8336.66	4653.81	1720763.94	14356592.23	39°32'3.3905"N	80°42'54.1146"W	9547.67	150.828	0.77	0.07	-0.77	
16875.00	90.310	160.450	7102.20	9489.93	-8426.00	4686.13	1720796.25	14356502.94	39°32'2.5066"N	80°42'53.7057"W	9641.43	150.919	0.72	0.09	0.72	
16969.00	90.710	160.960	7101.36	9583.92	-8514.71	4717.19	1720827.30	14356414.26	39°32'1.6288"N	80°42'53.3129"W	9734.08	151.013	0.69	0.43	0.54	
17064.00	89.080	160.590	7101.54	9678.92	-8604.41	4748.47	1720858.57	14356324.59	39°32'0.7413"N	80°42'52.9173"W	9827.71	151.107	1.76	-1.72	-0.39	
17159.00	90.520	158.750	7101.87	9773.88	-8693.49	4781.48	1720891.56	14356235.55	39°31'59.8600"N	80°42'52.4997"W	9921.65	151.189	2.46	1.52	-1.94	
17254.00	90.310	159.860	7101.18	9868.83	-8782.35	4815.05	1720925.11	14356146.72	39°31'58.9806"N	80°42'52.0748"W	10015.71	151.266	1.19	-0.22	1.17	
17348.00	90.580	161.000	7100.45	9962.82	-8870.92	4846.53	1720956.59	14356058.19	39°31'58.1043"N	80°42'51.6766"W	10108.51	151.350	1.25	0.29	1.21	
17443.00	88.060	159.140	7101.58	10057.79	-8960.21	4878.91	1720988.95	14355968.93	39°31'57.2208"N	80°42'51.2670"W	10202.41	151.431	3.30	-2.65	-1.96	
17538.00	90.400	159.790	7102.85	10152.73	-9049.16	4912.23	1721022.25	14355880.02	39°31'56.3406"N	80°42'50.8454"W	10296.47	151.505	2.56	2.46	0.68	
17633.00	88.860	161.060	7103.47	10247.72	-9138.66	4944.05	1721054.07	14355790.55	39°31'55.4551"N	80°42'50.4428"W	10390.32	151.586	2.10	-1.62	1.34	
17727.00	89.660	158.880	7104.68	10341.69	-9226.96	4976.25	1721086.25	14355702.29	39°31'54.5814"N	80°42'50.0355"W	10483.31	151.661	2.47	0.85	-2.32	
17822.00	90.030	161.580	7104.94	10436.67	-9316.36	5008.38	1721118.36	14355612.93	39°31'53.6969"N	80°42'49.6291"W	10577.25	151.738	2.87	0.39	2.84	
17917.00	88.740	159.660	7105.96	10531.65	-9405.96	5039.90	1721149.87	14355523.36	39°31'52.8103"N	80°42'49.2305"W	10671.11	151.817	2.43	-1.36	-2.02	
18012.00	89.750	159.870	7107.21	10626.62	-9495.09	5072.75	1721182.71	14355434.27	39°31'51.9284"N	80°42'48.8148"W	10765.20	151.887	1.09	1.06	0.22	
18106.00	89.600	160.180	7107.74	10720.60	-9583.43	5104.86	1721214.81	14355345.96	39°31'51.0542"N	80°42'48.4086"W	10858.26	151.957	0.37	-0.16	0.33	
18201.00	89.350	159.910	7108.61	10815.58	-9672.73	5137.28	1721247.22	14355256.70	39°31'50.1707"N	80°42'47.9984"W	10952.32	152.027	0.39	-0.26	-0.28	
18295.00	90.000	159.470	7109.15	10909.55	-9760.88	5169.91	1721279.83	14355168.58	39°31'49.2984"N	80°42'47.5858"W	11045.48	152.092	0.84	0.69	-0.47	
18390.00	90.120	160.830	7109.05	11004.53	-9850.23	5202.16	1721312.08	14355079.26	39°31'48.4143"N	80°42'47.1776"W	11139.55	152.160	1.44	0.13	1.43	
18485.00	89.660	159.680	7109.23	11099.52	-9939.64	5234.26	1721344.16	14354989.89	39°31'47.5296"N	80°42'46.7716"W	11233.61	152.229	1.30	-0.48	-1.21	
18580.00	88.920	159.840	7110.41	11194.49	-10028.77	5267.12	1721377.01	14354900.79	39°31'46.6477"N	80°42'46.3559"W	11327.79	152.291	0.80	-0.78	0.17	
18674.00	89.820	158.940	7111.44	11288.44	-10116.75	5300.21	1721410.08	14354812.85	39°31'45.7772"N	80°42'45.9372"W	11421.07	152.350	1.35	0.96	-0.96	
18769.00	90.250	160.800	7111.38	11383.41	-10205.94	5332.90	1721442.76	14354723.70	39°31'44.8947"N	80°42'45.5236"W	11515.25	152.412	2.01	0.45	1.96	
18864.00	88.830	160.240	7112.14	11478.40	-10295.50	5364.58	1721474.43	14354634.17	39°31'44.0085"N	80°42'45.1230"W	11609.30	152.478	1.61	-1.49	-0.59	
18958.00	89.110	158.690	7113.83	11572.35	-10383.51	5397.55	1721507.38	14354546.20	39°31'43.1377"N	80°42'44.7059"W	11702.59	152.534	1.68	0.30	-1.65	
19053.00	90.460	161.350	7114.19	11667.32	-10472.78	5430.00	1721539.82	14354456.96	39°31'42.2544"N	80°42'44.2953"W	11796.78	152.594	3.14	1.42	2.80	
19147.00	88.950	160.510	7114.67	11761.31	-10561.62	5460.71	1721570.52	14354368.16	39°31'41.3754"N	80°42'43.9070"W	11889.79	152.660	1.84	-1.61	-0.89	
19242.00	89.820	158.920	7115.69	11856.28	-10650.71	5493.64	1721603.44	14354279.10	39°31'40.4938"N	80°42'43.4903"W	11984.07	152.715	1.91	0.92	-1.67	



Actual Wellpath Report

Reader Unit 2H AWP Proj: 22692'
Page 9 of 12



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Reader Unit 2H
Field	Wetzel	API	47-103-03497-0000
Facility	Furbee Pad	Wellbore	Reader Unit 2H AWB
Slot	Slot C		

WELLPATH DATA (248 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
19337.00	90.150	161.770	7115.72	11951.26	-10740.17	5525.60	1721635.38	14354189.68	39°31'39.6086"N	80°42'43.0863"W	12078.22	152.775	3.02	0.35	3.00	
19431.00	89.080	161.780	7116.35	12045.25	-10829.45	5554.99	1721664.77	14354100.43	39°31'38.7253"N	80°42'42.7147"W	12171.07	152.844	1.14	-1.14	0.01	
19526.00	89.010	161.360	7117.93	12140.23	-10919.57	5585.02	1721694.78	14354010.35	39°31'37.8337"N	80°42'42.3352"W	12264.97	152.912	0.45	-0.07	-0.44	
19621.00	89.630	161.330	7119.06	12235.22	-11009.57	5615.41	1721725.16	14353920.39	39°31'36.9433"N	80°42'41.9511"W	12358.94	152.976	0.65	0.65	-0.03	
19716.00	89.510	161.300	7119.77	12330.22	-11099.56	5645.84	1721755.58	14353830.43	39°31'36.0529"N	80°42'41.5664"W	12452.94	153.040	0.13	-0.13	-0.03	
19810.00	89.570	161.510	7120.53	12424.22	-11188.65	5675.81	1721785.54	14353741.38	39°31'35.1715"N	80°42'41.1875"W	12545.94	153.102	0.23	0.06	0.22	
19905.00	89.720	161.100	7121.12	12519.21	-11278.63	5706.26	1721815.98	14353651.43	39°31'34.2811"N	80°42'40.8026"W	12639.98	153.164	0.46	0.16	-0.43	
20000.00	90.030	162.060	7121.33	12614.21	-11368.77	5736.28	1721845.98	14353561.33	39°31'33.3894"N	80°42'40.4233"W	12733.96	153.226	1.06	0.33	1.01	
20095.00	88.920	161.390	7122.20	12709.20	-11458.97	5766.07	1721875.76	14353471.16	39°31'32.4970"N	80°42'40.0468"W	12827.92	153.289	1.36	-1.17	-0.71	
20189.00	89.540	161.700	7123.46	12803.18	-11548.13	5795.82	1721905.50	14353382.04	39°31'31.6149"N	80°42'39.6708"W	12920.94	153.349	0.74	0.66	0.33	
20284.00	89.600	161.640	7124.17	12898.18	-11638.30	5825.70	1721935.37	14353291.90	39°31'30.7227"N	80°42'39.2932"W	13014.95	153.409	0.09	0.06	-0.06	
20378.00	90.710	162.080	7123.92	12992.17	-11727.63	5854.96	1721964.62	14353202.61	39°31'29.8389"N	80°42'38.9234"W	13107.93	153.470	1.27	1.18	0.47	
20473.00	89.820	161.460	7123.48	13087.16	-11817.86	5884.68	1721994.33	14353112.41	39°31'28.9462"N	80°42'38.5479"W	13201.94	153.529	1.14	-0.94	-0.65	
20567.00	89.320	161.050	7124.18	13181.15	-11906.87	5914.89	1722024.52	14353023.44	39°31'28.0655"N	80°42'38.1660"W	13295.09	153.584	0.69	-0.53	-0.44	
20662.00	89.600	161.310	7125.08	13276.15	-11996.79	5945.53	1722055.15	14352933.56	39°31'27.1759"N	80°42'37.7787"W	13389.26	153.637	0.40	0.29	0.27	
20756.00	89.480	160.780	7125.83	13370.15	-12085.69	5976.07	1722085.67	14352844.69	39°31'26.2963"N	80°42'37.3927"W	13482.48	153.689	0.58	-0.13	-0.56	
20851.00	89.320	161.010	7126.83	13465.14	-12175.45	6007.16	1722116.75	14352754.97	39°31'25.4081"N	80°42'36.9996"W	13576.73	153.739	0.29	-0.17	0.24	
20946.00	89.510	161.630	7127.80	13560.13	-12265.44	6037.58	1722147.17	14352665.01	39°31'24.5178"N	80°42'36.6151"W	13670.90	153.792	0.68	0.20	0.65	
21040.00	89.540	161.570	7128.58	13654.13	-12354.63	6067.25	1722176.82	14352575.86	39°31'23.6353"N	80°42'36.2401"W	13764.03	153.845	0.07	0.03	-0.06	
21135.00	89.630	161.320	7129.27	13749.12	-12444.69	6097.48	1722207.04	14352485.83	39°31'22.7443"N	80°42'35.8580"W	13858.20	153.897	0.28	0.09	-0.26	
21229.00	89.630	161.350	7129.87	13843.12	-12533.74	6127.57	1722237.11	14352396.81	39°31'21.8632"N	80°42'35.4778"W	13951.41	153.947	0.03	0.00	0.03	
21324.00	89.230	161.290	7130.82	13938.11	-12623.73	6157.99	1722267.53	14352306.86	39°31'20.9728"N	80°42'35.0933"W	14045.62	153.996	0.43	-0.42	-0.06	
21419.00	88.980	161.550	7132.30	14033.10	-12713.77	6188.26	1722297.78	14352216.86	39°31'20.0820"N	80°42'34.7108"W	14139.82	154.046	0.38	-0.26	0.27	
21513.00	88.800	161.420	7134.12	14127.08	-12802.89	6218.10	1722327.61	14352127.77	39°31'19.2003"N	80°42'34.3336"W	14233.02	154.095	0.24	-0.19	-0.14	
21608.00	88.740	160.650	7136.16	14222.06	-12892.71	6248.97	1722358.47	14352037.99	39°31'18.3115"N	80°42'33.9434"W	14327.30	154.141	0.81	-0.06	-0.81	
21702.00	89.170	161.670	7137.88	14316.04	-12981.66	6279.32	1722388.80	14351949.07	39°31'17.4315"N	80°42'33.5598"W	14420.59	154.187	1.18	0.46	1.09	
21797.00	90.030	162.650	7138.54	14411.02	-13072.09	6308.42	1722417.90	14351858.68	39°31'16.5368"N	80°42'33.1922"W	14514.67	154.239	1.37	0.91	1.03	
21892.00	88.430	160.390	7139.82	14506.00	-13162.17	6338.53	1722447.99	14351768.63	39°31'15.6455"N	80°42'32.8117"W	14608.89	154.286	2.91	-1.68	-2.38	
21987.00	88.980	161.080	7141.96	14600.97	-13251.83	6369.86	1722479.31	14351679.01	39°31'14.7584"N	80°42'32.4155"W	14703.27	154.327	0.93	0.58	0.73	
22081.00	88.710	160.200	7143.86	14694.95	-13340.49	6401.02	1722510.46	14351590.38	39°31'13.8811"N	80°42'32.0217"W	14796.68	154.367	0.98	-0.29	-0.94	



Actual Wellpath Report

Reader Unit 2H AWP Proj: 22692'

Page 10 of 12



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Reader Unit 2H
Field	Wetzel	API	47-103-03497-0000
Facility	Furbee Pad	Wellbore	Reader Unit 2H AWB
Slot	Slot C		

WELLPATH DATA (248 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
22176.00	89.600	160.930	7145.26	14789.93	-13430.07	6432.62	1722542.05	14351500.84	39°31'12.9948"N	80°42'31.6220"W	14891.12	154.407	1.21	0.94	0.77	
22270.00	89.110	161.580	7146.32	14883.93	-13519.08	6462.83	1722572.24	14351411.87	39°31'12.1142"N	80°42'31.2403"W	14984.45	154.450	0.87	-0.52	0.69	
22365.00	89.170	161.360	7147.74	14978.91	-13609.14	6493.02	1722602.42	14351321.84	39°31'11.2231"N	80°42'30.8588"W	15078.73	154.494	0.24	0.06	-0.23	
22459.00	89.480	161.520	7148.85	15072.91	-13698.25	6522.93	1722632.33	14351232.77	39°31'10.3415"N	80°42'30.4807"W	15172.03	154.537	0.37	0.33	0.17	
22554.00	89.230	161.400	7149.92	15167.90	-13788.31	6553.14	1722662.52	14351142.74	39°31'9.4504"N	80°42'30.0990"W	15266.34	154.580	0.29	-0.26	-0.13	
22649.00	89.480	161.470	7150.99	15262.89	-13878.36	6583.38	1722692.75	14351052.73	39°31'8.5594"N	80°42'29.7168"W	15360.66	154.622	0.27	0.26	0.07	
22667.00	89.510	161.180	7151.15	15280.89	-13895.41	6589.15	1722698.51	14351035.68	39°31'8.3907"N	80°42'29.6440"W	15378.54	154.630	1.62	0.17	-1.61	
22692.00‡	89.510	161.180	7151.36	15305.89	-13919.08	6597.21	1722706.57	14351012.03	39°31'8.1566"N	80°42'29.5421"W	15403.37	154.640	0.00	0.00	0.00	Projected MD at TD: 22692'

HOLE & CASING SECTIONS - Ref Wellbore: Reader Unit 2H AWB Ref Wellpath: Reader Unit 2H AWP Proj: 22692'									
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	30.00	130.00	100.00	30.00	130.00	0.00	0.00	-0.10	-0.07
17.5in Open Hole	130.00	679.00	549.00	130.00	678.99	-0.10	-0.07	-1.28	0.84
13.375in Casing Surface	30.00	659.00	629.00	30.00	659.00	0.00	0.00	-1.17	0.61
12.25in Open Hole	679.00	3571.00	2892.00	678.99	3471.40	-1.28	0.84	379.21	591.91
9.625in Casing Intermediate	30.00	3551.00	3521.00	30.00	3452.28	0.00	0.00	375.87	587.09
8.75in Open Hole	3571.00	6425.00	2854.00	3471.40	6194.34	379.21	591.91	827.63	1312.44
8.5in Open Hole	6425.00	22692.00	16267.00	6194.34	7151.36	827.63	1312.44	-13919.08	6597.21
5.5in Casing Production	30.00	22672.00	22642.00	30.00	7151.19	0.00	0.00	-13900.15	6590.76



Actual Wellpath Report

Reader Unit 2H AWP Proj: 22692'

Page 11 of 12



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Reader Unit 2H
Field	Wetzel	API	47-103-03497-0000
Facility	Furbee Pad	Wellbore	Reader Unit 2H AWB
Slot	Slot C		

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Reader Unit 2H POE Rev-2	7041.00	408.03	1681.43	1717792.74	14365333.47	39°33'29.9077"N	80°43'31.7104"W	point
Reader Unit 2H LP Rev-2	7069.00	223.95	1744.49	1717855.77	14365149.46	39°33'28.0864"N	80°43'30.9126"W	point
Reader Unit 2H BHL Rev-2	7147.33	-13928.40	6592.16	1722701.52	14351002.71	39°31'8.0646"N	80°42'29.6069"W	point
Reader Unit 2H 50' L/R Hard Line	7250.00	-6760.18	4136.80	1720247.13	14358168.09	39°32'18.9874"N	80°43'0.6500"W	rectangle
2D Rectangle 15154.2 x 100.								

WELLPATH COMPOSITION - Ref Wellbore: Reader Unit 2H AWB Ref Wellpath: Reader Unit 2H AWP Proj: 22692'					
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
30.00	592.00	Gyrodata 2015 - GC+WIR+DPIPE	01_Gyrodata MS Gyro <17-1/2"> (100'-592')	Reader Unit 2H AWB	9/12/2022
592.00	3497.00	BH NaviTrak (2019) (Axial Corr+HRGM)	02_APS EM <12-1/4"> (592')(687'-3497')	Reader Unit 2H AWB	9/12/2022
3497.00	6350.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03_APS EM <8-3/4"> (3497')(3606'-6350')	Reader Unit 2H AWB	10/16/2022
6350.00	22692.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	04_BH AT Curve <8-1/2"> (6350')(6400'-22667')	Reader Unit 2H AWB	10/16/2022



Actual Wellpath Report

Reader Unit 2H AWP Proj: 22692'

Page 12 of 12



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Reader Unit 2H
Field	Wetzel	API	47-103-03497-0000
Facility	Furbee Pad	Wellbore	Reader Unit 2H AWB
Slot	Slot C		

COMMENTS

Wellpath general comments

API: 47-103-03497-0000
 BH Job #: 111490458
 Rig: H&P 519
 Duration: 10/20/2022-10/24/2022
 Gyrodata MS Gyro <17-1/2"> (100'-592')
 APS EM <12-1/4"> (592')(687'-3497')
 APS EM <8-3/4"> (3497')(3606'-6350')
 BH AT Curve <8-1/2"> (6350')(6400'-22667')
 Sycamore: 6963' MD
 Middlesex: 7129' MD
 Burkett: 7274' MD
 Tully: 7326' MD
 Hamilton: 7423' MD
 Marcellus POE: 7536' MD
 Projected MD at TD: 22692'

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 Office of Oil and Gas
 MAY 10 2023
 WV Department of
 Environmental Protection