



ANTERO RESOURCES CORPORATION

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

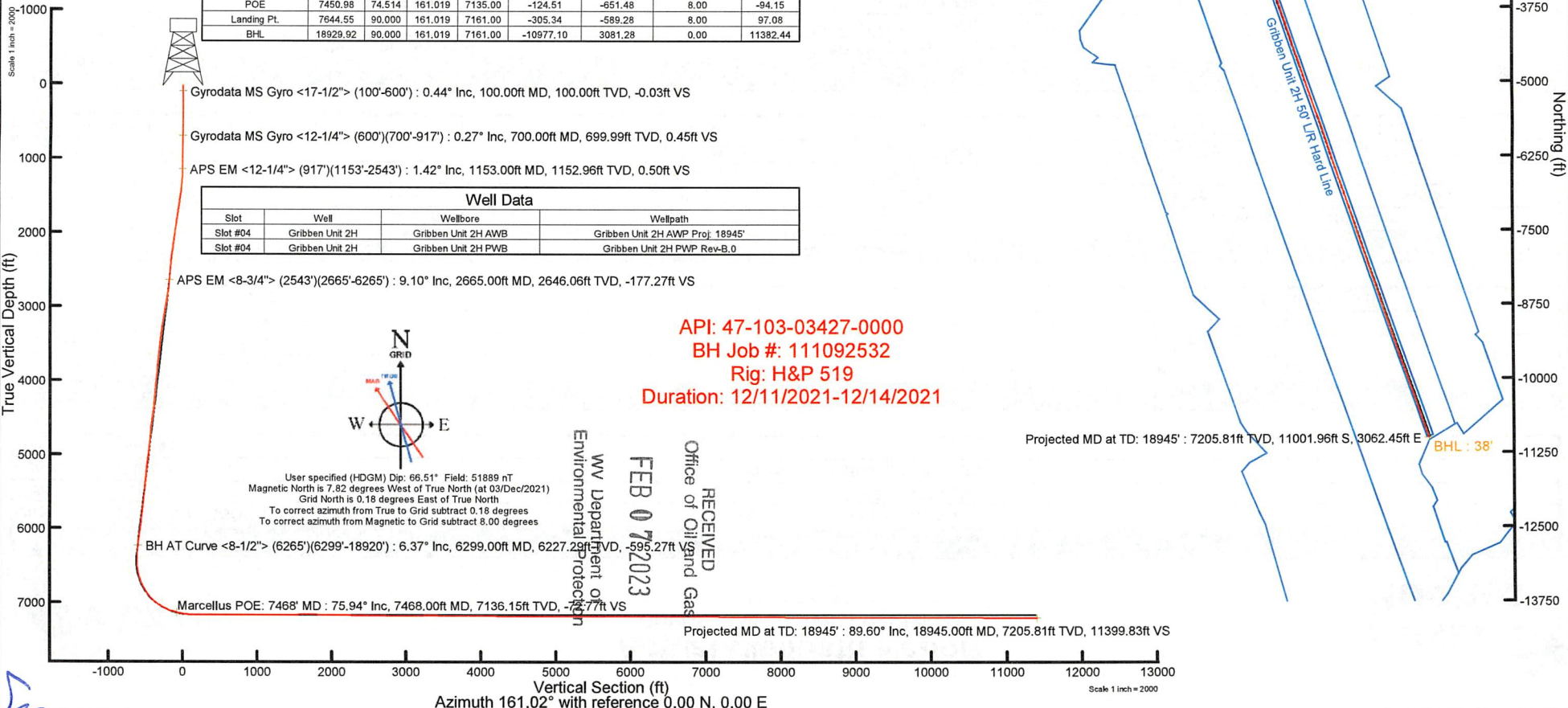
Slot: Slot #04
 Well: Gribben Unit 2H
 Wellbore: Gribben Unit 2H PWB



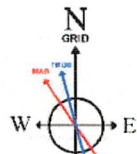
Plot reference wellpath is Gribben Unit 2H PWP Rev-B.0	Grid System: NAD27 / UTM Zone 17 North, US feet
True vertical depths are referenced to H&P 519 (RKB)	North Reference: Grid north
Reference wellpath measured depths are referenced to H&P 519 (RKB)	Scale: True distance
H&P 519 (RKB) to Mean Sea Level: 1338 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (At Slot: Slot #04): -1308 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's default MD datum	Created by: edsaryar on 2021-12-30; Database: WA_MPL_EASTERNUS_Deln

Location Information				
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Dogwood Pad	1718075.750	14353709.890	39°31'34.9750"N	80°43'28.5500"W
Slot	Local N (ft)	Local E (ft)	Latitude	Longitude
Slot #04	-14.98	-0.34	1718075.410	14353694.920
			39°31'34.8270"N	80°43'28.5550"W
Comment: Gribben Unit 2H				
H&P 519 (RKB) to Ground level (At Slot: Slot #04)				30ft
Mean Sea Level to Ground level (At Slot: Slot #04)				-1308ft
H&P 519 (RKB) to Mean Sea Level				1338ft

Well Profile Data								
Design Comment	MD (ft)	Inc (")	Az (")	TVD (ft)	Local N (ft)	Local E (ft)	DLS (/100ft)	VS (ft)
Tie On	2543.00	9.080	288.560	2525.59	115.48	-175.58	0.12	-166.31
Proj. to Bottom	2618.00	9.080	288.560	2599.65	119.25	-186.80	0.00	-173.52
KOP 1	2698.00	9.080	288.560	2678.65	123.27	-198.77	0.00	-181.21
End of 3D Arc	2760.55	9.489	295.893	2740.39	127.09	-208.09	2.00	-187.86
Curve KOP	6434.72	9.489	295.893	6364.27	391.62	-753.02	0.00	-615.24
POE	7450.98	74.514	161.019	7135.00	-124.51	-651.48	8.00	-84.15
Landing Pt.	7644.55	90.000	161.019	7161.00	-305.34	-589.28	8.00	97.08
BHL	18929.92	90.000	161.019	7161.00	-10977.10	3081.28	0.00	11382.44



Well Data			
Slot	Well	Wellbore	Wellpath
Slot #04	Gribben Unit 2H	Gribben Unit 2H AWB	Gribben Unit 2H AWP Proj. 18945'
Slot #04	Gribben Unit 2H	Gribben Unit 2H PWB	Gribben Unit 2H PWP Rev-B.0



User specified (HDGM) Dip: 66.51° Field: 51889 nT
 Magnetic North is 7.82 degrees West of True North (at 03/Dec/2021)
 Grid North is 0.18 degrees East of True North
 To correct azimuth from True to Grid subtract 0.18 degrees
 To correct azimuth from Magnetic to Grid subtract 8.00 degrees

Handwritten signature/initials



Actual Wellpath Report

Gribben Unit 2H AWP Proj: 18945'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Gribben Unit 2H
Field	Wetzel	API	47-103-03427-0000
Facility	Dogwood Pad	Wellbore	Gribben Unit 2H AWB
Slot	Slot #04		

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	30/Dec/2021 at 20:44
Convergence at slot	0.18° 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	-14.98	-0.34	1718075.41	14353694.92	39°31'34.8270"N	80°43'28.5550"W
Facility Reference Pt			1718075.75	14353709.89	39°31'34.9750"N	80°43'28.5500"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	1338.00ft
Horizontal Reference Pt	Slot	H&P 519 (RKB) to Mean Sea Level	1338.00ft
Vertical Reference Pt	H&P 519 (RKB)	H&P 519 (RKB) to Ground Level at Slot (Slot #04)	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	161.02°



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Gribben Unit 2H AWP Proj: 18945'
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Field	Wetzel	API	47-103-03427-0000
Facility	Dogwood Pad	Wellbore	Gribben Unit 2H AWB
Slot	Slot #04		

WELLPATH DATA (207 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	65.520	0.00	0.00	0.00	0.00	1718075.41	14353694.92	39°31'34.8270"N	80°43'28.5550"W	0.00	0.000	0.00	0.00	0.00	
30.00	0.000	65.520	30.00	0.00	0.00	0.00	1718075.41	14353694.92	39°31'34.8270"N	80°43'28.5550"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.440	65.520	100.00	-0.03	0.11	0.24	1718075.65	14353695.03	39°31'34.8281"N	80°43'28.5518"W	0.27	65.520	0.63	0.63	0.00	Gyrodata MS Gyro <17-1/2"> (100'-600')
200.00	0.520	65.900	200.00	-0.10	0.46	1.01	1718076.42	14353695.38	39°31'34.8315"N	80°43'28.5421"W	1.11	65.676	0.08	0.08	0.38	
300.00	0.530	73.360	299.99	-0.12	0.77	1.87	1718077.27	14353695.69	39°31'34.8346"N	80°43'28.5311"W	2.02	67.481	0.07	0.01	7.46	
400.00	0.220	57.480	399.99	-0.15	1.01	2.47	1718077.88	14353695.93	39°31'34.8369"N	80°43'28.5234"W	2.67	67.782	0.32	-0.31	-15.88	
500.00	0.260	75.820	499.99	-0.18	1.17	2.85	1718078.26	14353696.09	39°31'34.8385"N	80°43'28.5185"W	3.08	67.734	0.09	0.04	18.34	
600.00	0.220	147.410	599.99	0.03	1.06	3.18	1718078.58	14353695.98	39°31'34.8374"N	80°43'28.5144"W	3.35	71.514	0.28	-0.04	71.59	
700.00	0.270	150.330	699.99	0.45	0.70	3.40	1718078.80	14353695.62	39°31'34.8338"N	80°43'28.5116"W	3.47	78.429	0.05	0.05	2.92	Gyrodata MS Gyro <12-1/4"> (600')(700'-917')
800.00	0.340	148.280	799.99	0.97	0.24	3.67	1718079.08	14353695.16	39°31'34.8293"N	80°43'28.5081"W	3.68	86.285	0.07	0.07	-2.05	
900.00	0.380	128.640	899.98	1.54	-0.22	4.08	1718079.49	14353694.70	39°31'34.8247"N	80°43'28.5029"W	4.09	93.102	0.13	0.04	-19.64	
917.00	0.300	131.600	916.98	1.62	-0.29	4.16	1718079.57	14353694.63	39°31'34.8241"N	80°43'28.5019"W	4.17	93.932	0.48	-0.47	17.41	
1153.00	1.420	285.760	1152.96	0.50	0.10	1.81	1718077.22	14353695.02	39°31'34.8280"N	80°43'28.5319"W	1.81	86.897	0.72	0.47	65.32	APS EM <12-1/4"> (917')(1153'-2543')
1342.00	6.330	306.400	1341.48	-9.42	6.92	-8.84	1718066.58	14353701.84	39°31'34.8957"N	80°43'28.6675"W	11.23	308.065	2.66	2.60	10.92	
1437.00	8.280	308.390	1435.70	-19.49	14.28	-18.42	1718057.00	14353709.19	39°31'34.9687"N	80°43'28.7894"W	23.30	307.786	2.07	2.05	2.09	
1531.00	9.850	309.430	1528.53	-32.04	23.59	-29.93	1718045.49	14353718.50	39°31'35.0611"N	80°43'28.9360"W	38.11	308.240	1.68	1.67	1.11	
1626.00	10.090	307.770	1622.09	-45.92	33.85	-42.79	1718032.64	14353728.75	39°31'35.1628"N	80°43'29.0997"W	54.56	308.346	0.39	0.25	-1.75	
1720.00	10.170	306.680	1714.63	-59.66	43.85	-55.95	1718019.48	14353738.75	39°31'35.2621"N	80°43'29.2673"W	71.09	308.085	0.22	0.09	-1.16	
1815.00	10.130	305.360	1808.14	-73.37	53.69	-69.49	1718005.95	14353748.59	39°31'35.3598"N	80°43'29.4397"W	87.82	307.691	0.25	-0.04	-1.39	
1910.00	10.090	304.870	1901.66	-86.88	63.28	-83.13	1717992.31	14353758.18	39°31'35.4550"N	80°43'29.6134"W	104.48	307.280	0.10	-0.04	-0.52	
2004.00	9.880	303.850	1994.24	-99.96	72.48	-96.59	1717978.86	14353767.38	39°31'35.5463"N	80°43'29.7847"W	120.76	306.887	0.29	-0.22	-1.09	
2099.00	9.820	303.370	2087.84	-112.87	81.48	-110.12	1717965.33	14353776.37	39°31'35.6357"N	80°43'29.9571"W	136.99	306.499	0.11	-0.06	-0.51	
2194.00	10.070	302.620	2181.41	-125.79	90.41	-123.88	1717951.58	14353785.30	39°31'35.7244"N	80°43'30.1324"W	153.37	306.124	0.30	0.26	-0.79	
2288.00	10.270	301.910	2273.94	-138.73	99.27	-137.92	1717937.55	14353794.15	39°31'35.8123"N	80°43'30.3111"W	169.93	305.747	0.25	0.21	-0.76	
2382.00	9.100	293.800	2366.60	-150.28	106.70	-151.83	1717923.64	14353801.58	39°31'35.8862"N	80°43'30.4884"W	185.58	305.098	1.91	-1.24	-8.63	
2477.00	9.020	288.910	2460.42	-159.96	112.15	-165.75	1717909.73	14353807.02	39°31'35.9404"N	80°43'30.6658"W	200.13	304.082	0.81	-0.08	-5.15	
2543.00	9.080	288.560	2525.59	-166.31	115.48	-175.58	1717899.90	14353810.36	39°31'35.9737"N	80°43'30.7912"W	210.15	303.333	0.12	0.09	-0.53	
2665.00	9.100	282.930	2646.06	-177.27	120.70	-194.11	1717881.38	14353815.58	39°31'36.0259"N	80°43'31.0274"W	228.58	301.875	0.73	0.02	-4.61	APS EM <8-3/4"> (2543')(2665'-6265')
2760.00	11.270	288.960	2739.56	-186.95	125.40	-210.21	1717865.28	14353820.27	39°31'36.0728"N	80°43'31.2327"W	244.78	300.818	2.54	2.28	6.35	
2855.00	13.290	289.690	2832.39	-199.49	132.10	-229.28	1717846.22	14353826.97	39°31'36.1395"N	80°43'31.4757"W	264.61	299.948	2.13	2.13	0.77	

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Actual Wellpath Report

Gribben Unit 2H AWP Proj: 18945'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Gribben Unit 2H
Field	Wetzel	API	47-103-03427-0000
Facility	Dogwood Pad	Wellbore	Gribben Unit 2H AWB
Slot	Slot #04		

WELLPATH DATA (207 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
2950.00	13.210	294.750	2924.86	-213.81	140.32	-249.42	1717826.09	14353835.19	39°31'36.2214"N	80°43'31.7324"W	286.18	299.362	1.22	-0.08	5.33	
3045.00	12.620	296.410	3017.46	-228.70	149.48	-268.57	1717806.95	14353844.34	39°31'36.3125"N	80°43'31.9765"W	307.37	299.100	0.73	-0.62	1.75	
3139.00	13.760	292.390	3108.98	-243.40	158.31	-288.10	1717787.42	14353853.17	39°31'36.4003"N	80°43'32.2254"W	328.73	298.788	1.56	1.21	-4.28	
3234.00	12.850	300.970	3201.44	-258.96	168.05	-307.61	1717767.92	14353862.90	39°31'36.4972"N	80°43'32.4740"W	350.52	298.648	2.29	-0.96	9.03	
3331.00	8.950	316.580	3296.69	-274.09	179.09	-322.05	1717753.48	14353873.94	39°31'36.6067"N	80°43'32.6579"W	368.50	299.078	5.01	-4.02	16.09	
3426.00	7.150	324.290	3390.75	-286.49	189.26	-330.58	1717744.96	14353884.10	39°31'36.7075"N	80°43'32.7664"W	380.93	299.791	2.21	-1.89	8.12	
3520.00	7.310	317.900	3484.00	-297.59	198.44	-338.01	1717737.53	14353893.29	39°31'36.7985"N	80°43'32.8608"W	391.96	300.417	0.87	0.17	-6.80	
3615.00	7.380	313.810	3578.23	-308.57	207.15	-346.46	1717729.08	14353901.99	39°31'36.8848"N	80°43'32.9683"W	403.67	300.875	0.56	0.07	-4.31	
3709.00	6.550	305.940	3671.53	-318.33	214.48	-355.16	1717720.39	14353909.31	39°31'36.9575"N	80°43'33.0790"W	414.90	301.127	1.34	-0.88	-8.37	
3804.00	8.180	300.800	3765.75	-327.93	221.12	-365.35	1717710.20	14353915.95	39°31'37.0234"N	80°43'33.2088"W	427.06	301.183	1.85	1.72	-5.41	
3898.00	9.330	293.890	3858.65	-338.22	227.63	-378.07	1717697.49	14353922.46	39°31'37.0882"N	80°43'33.3708"W	441.30	301.052	1.66	1.22	-7.35	
3993.00	10.180	285.230	3952.28	-348.18	232.95	-393.21	1717682.36	14353927.78	39°31'37.1413"N	80°43'33.5639"W	457.03	300.644	1.78	0.89	-9.12	
4087.00	10.960	279.660	4044.69	-357.13	236.64	-410.03	1717665.54	14353931.46	39°31'37.1781"N	80°43'33.7784"W	473.42	299.990	1.37	0.83	-5.93	
4182.00	11.470	274.600	4137.88	-365.24	238.91	-428.35	1717647.23	14353933.73	39°31'37.2012"N	80°43'34.0121"W	490.47	299.150	1.17	0.54	-5.33	
4277.00	8.340	278.900	4231.45	-372.24	240.73	-444.58	1717631.01	14353935.56	39°31'37.2197"N	80°43'34.2191"W	505.57	298.435	3.38	-3.29	4.53	
4371.00	5.790	305.250	4324.75	-379.28	244.53	-455.19	1717620.40	14353939.35	39°31'37.2575"N	80°43'34.3544"W	516.71	298.245	4.32	-2.71	28.03	
4466.00	9.150	317.370	4418.94	-390.09	252.85	-464.22	1717611.37	14353947.67	39°31'37.3400"N	80°43'34.4693"W	528.62	298.576	3.89	3.54	12.76	
4561.00	9.180	311.080	4512.73	-403.57	263.39	-475.05	1717600.55	14353958.21	39°31'37.4445"N	80°43'34.6071"W	543.18	299.006	1.05	0.03	-6.62	
4656.00	8.410	303.470	4606.61	-415.65	272.20	-486.56	1717589.04	14353967.01	39°31'37.5319"N	80°43'34.7536"W	557.52	299.224	1.47	-0.81	-8.01	
4751.00	7.150	295.070	4700.74	-425.27	278.54	-497.71	1717577.90	14353973.35	39°31'37.5949"N	80°43'34.8957"W	570.35	299.233	1.78	-1.33	-8.84	
4845.00	9.350	287.860	4793.77	-433.92	283.36	-510.28	1717565.33	14353978.17	39°31'37.6429"N	80°43'35.0559"W	583.67	299.044	2.58	2.34	-7.67	
4940.00	11.970	287.610	4887.12	-444.42	288.71	-527.02	1717548.60	14353983.51	39°31'37.6963"N	80°43'35.2693"W	600.91	298.715	2.76	2.76	-0.26	
5035.00	12.090	281.810	4980.03	-455.38	293.72	-546.14	1717529.48	14353988.53	39°31'37.7464"N	80°43'35.5132"W	620.12	298.272	1.28	0.13	-6.11	
5129.00	10.950	290.810	5072.15	-466.14	298.91	-564.13	1717511.51	14353993.71	39°31'37.7983"N	80°43'35.7425"W	638.43	297.918	2.26	-1.21	9.57	
5224.00	10.570	292.200	5165.48	-477.65	305.41	-580.63	1717495.01	14354000.21	39°31'37.8630"N	80°43'35.9528"W	656.05	297.744	0.48	-0.40	1.46	
5319.00	9.580	279.690	5259.02	-487.18	310.03	-596.49	1717479.15	14354004.83	39°31'37.9091"N	80°43'36.1551"W	672.25	297.464	2.52	-1.04	-13.17	
5413.00	8.190	294.090	5351.90	-495.50	314.08	-610.32	1717465.34	14354008.88	39°31'37.9496"N	80°43'36.3314"W	686.39	297.231	2.78	-1.48	15.32	
5508.00	7.640	302.460	5446.00	-505.06	320.23	-621.82	1717453.83	14354015.03	39°31'38.0107"N	80°43'36.4780"W	699.44	297.248	1.34	-0.58	8.81	
5602.00	7.550	298.210	5539.18	-514.48	326.51	-632.54	1717443.12	14354021.30	39°31'38.0730"N	80°43'36.6144"W	711.83	297.302	0.61	-0.10	-4.52	
5697.00	9.740	299.660	5633.09	-525.09	333.43	-645.02	1717430.64	14354028.22	39°31'38.1419"N	80°43'36.7735"W	726.11	297.336	2.32	2.31	1.53	



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Slot	Slot #04		

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[ft]	[°]	[°]	[ft]	[ft]	[ft]	[ft]	[US ft]	[US ft]			[ft]	[°]	[°/100ft]	[°/100ft]	[°/100ft]	
5791.00	9.870	294.550	5725.72	-536.61	340.72	-659.26	1717416.41	14354035.50	39°31'38.2143"N	80°43'36.9549"W	742.10	297.331	0.94	0.14	-5.44	
5886.00	9.180	286.370	5819.41	-546.60	346.24	-673.94	1717401.74	14354041.02	39°31'38.2693"N	80°43'37.1420"W	757.67	297.192	1.60	-0.73	-8.61	
5981.00	9.370	290.810	5913.17	-555.94	351.12	-688.44	1717387.25	14354045.90	39°31'38.3180"N	80°43'37.3269"W	772.81	297.023	0.78	0.20	4.67	
6075.00	10.390	304.310	6005.79	-567.63	358.62	-702.59	1717373.09	14354053.39	39°31'38.3925"N	80°43'37.5072"W	788.82	297.041	2.68	1.09	14.36	
6170.00	8.670	310.490	6099.48	-580.67	368.10	-715.12	1717360.58	14354062.87	39°31'38.4866"N	80°43'37.6667"W	804.29	297.236	2.10	-1.81	6.51	
6265.00	7.460	306.310	6193.54	-591.90	376.40	-725.53	1717350.17	14354071.17	39°31'38.5689"N	80°43'37.7993"W	817.36	297.420	1.41	-1.27	-4.40	
6299.00	6.370	306.200	6227.29	-595.27	378.82	-728.83	1717346.87	14354073.59	39°31'38.5929"N	80°43'37.8413"W	821.40	297.464	3.21	-3.21	-0.32	BH AT Curve <8-1/2"> (6265')(6299'-18920')
6366.00	8.370	300.380	6293.73	-602.02	383.48	-736.04	1717339.66	14354078.25	39°31'38.6392"N	80°43'37.9331"W	829.95	297.520	3.18	2.99	-8.69	
6461.00	8.530	264.620	6387.77	-608.93	386.32	-749.03	1717326.68	14354081.09	39°31'38.6677"N	80°43'38.0988"W	842.78	297.283	5.45	0.17	-37.64	
6555.00	8.490	220.430	6480.83	-607.03	380.38	-760.48	1717315.23	14354075.15	39°31'38.6093"N	80°43'38.2451"W	850.30	296.573	6.79	-0.04	-47.01	
6650.00	10.610	196.860	6574.54	-596.37	366.66	-767.57	1717308.15	14354061.44	39°31'38.4740"N	80°43'38.3361"W	850.65	295.533	4.64	2.23	-24.81	
6744.00	17.560	181.070	6665.69	-576.00	344.17	-770.35	1717305.37	14354038.95	39°31'38.2517"N	80°43'38.3725"W	843.73	294.074	8.38	7.39	-16.80	
6839.00	25.200	174.450	6754.10	-542.81	309.65	-768.66	1717307.06	14354004.45	39°31'37.9105"N	80°43'38.3522"W	828.68	291.942	8.42	8.04	-6.97	
6874.00†	27.865	172.045	6785.41	-527.53	294.13	-766.80	1717308.91	14353988.94	39°31'37.7571"N	80°43'38.3292"W	821.28	290.986	8.21	7.61	-6.87	Sycamore: 6874' MD
6934.00	32.510	168.780	6837.27	-497.78	264.41	-761.72	1717313.99	14353959.23	39°31'37.4632"N	80°43'38.2655"W	806.31	289.143	8.21	7.74	-5.44	
7028.00	39.910	165.890	6913.06	-442.62	210.31	-749.44	1717326.27	14353905.15	39°31'36.9282"N	80°43'38.1108"W	778.39	285.675	8.08	7.87	-3.07	
7040.00†	40.945	165.461	6922.20	-434.87	202.77	-747.51	1717328.19	14353897.61	39°31'36.8536"N	80°43'38.0865"W	774.53	285.177	8.93	8.62	-3.58	Middlesex: 7040' MD
7123.00	48.140	162.910	6981.32	-376.78	146.82	-731.58	1717344.12	14353841.69	39°31'36.3002"N	80°43'37.8853"W	746.17	281.348	8.93	8.67	-3.07	
7195.00†	54.193	160.714	7026.45	-320.73	93.59	-714.04	1717361.65	14353788.47	39°31'35.7735"N	80°43'37.6636"W	720.15	277.467	8.74	8.41	-3.05	Burkett: 7195' MD
7217.00	56.050	160.110	7039.03	-302.68	76.58	-707.99	1717367.70	14353771.47	39°31'35.6052"N	80°43'37.5870"W	712.12	276.174	8.74	8.44	-2.74	
7255.00†	59.638	160.051	7059.25	-270.52	46.34	-697.03	1717378.66	14353741.24	39°31'35.3060"N	80°43'37.4483"W	698.57	273.804	9.44	9.44	-0.16	Tully: 7255' MD
7312.00	65.020	159.970	7085.71	-220.07	-1.08	-679.78	1717395.90	14353693.84	39°31'34.8368"N	80°43'37.2300"W	679.78	269.909	9.44	9.44	-0.14	
7406.00	72.850	159.210	7119.47	-132.45	-83.22	-649.20	1717426.47	14353611.73	39°31'34.0241"N	80°43'36.8429"W	654.51	262.695	8.36	8.33	-0.81	
7468.00†	75.943	159.440	7136.15	-72.77	-139.08	-628.12	1717447.54	14353555.89	39°31'33.4714"N	80°43'36.5761"W	643.33	257.514	5.00	4.99	0.37	Marcellus POE: 7468' MD
7501.00	77.590	159.560	7143.70	-40.65	-169.17	-616.87	1717458.79	14353525.81	39°31'33.1736"N	80°43'36.4337"W	639.64	254.664	5.00	4.99	0.36	
7596.00	84.850	161.360	7158.19	53.16	-257.59	-585.50	1717490.14	14353437.43	39°31'32.2988"N	80°43'36.0368"W	639.66	246.253	7.87	7.64	1.89	
7691.00	90.120	161.650	7162.36	148.03	-347.57	-555.41	1717520.22	14353347.49	39°31'31.4087"N	80°43'35.6563"W	655.19	237.962	5.56	5.55	0.31	
7786.00	88.950	159.260	7163.13	243.02	-437.08	-523.63	1717551.99	14353258.01	39°31'30.5230"N	80°43'35.2542"W	682.08	230.147	2.80	-1.23	-2.52	
7881.00	89.410	160.940	7164.49	337.99	-526.40	-491.30	1717584.31	14353168.73	39°31'29.6393"N	80°43'34.8451"W	720.05	223.025	1.83	0.48	1.77	
7975.00	90.860	160.510	7164.27	431.99	-615.13	-460.27	1717615.32	14353080.04	39°31'28.7615"N	80°43'34.4525"W	768.26	216.806	1.61	1.54	-0.46	

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Gribben Unit 2H AWP Proj: 18945'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Gribben Unit 2H
Field	Wetzel	API	47-103-03427-0000
Facility	Dogwood Pad	Wellbore	Gribben Unit 2H AWB
Slot	Slot #04		

WELLPATH DATA (207 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
8070.00	89.540	158.090	7163.94	526.93	-703.98	-426.69	1717648.89	14352991.21	39°31'27.8822"N	80°43'34.0275"W	823.20	211.220	2.90	-1.39	-2.55	
8164.00	89.780	159.360	7164.50	620.86	-791.58	-392.58	1717682.98	14352903.66	39°31'27.0155"N	80°43'33.5957"W	883.58	206.379	1.37	0.26	1.35	
8259.00	89.540	159.550	7165.06	715.82	-880.53	-359.25	1717716.31	14352814.74	39°31'26.1353"N	80°43'33.1737"W	951.00	202.195	0.32	-0.25	0.20	
8354.00	89.690	159.830	7165.70	810.79	-969.62	-326.27	1717749.27	14352725.68	39°31'25.2538"N	80°43'32.7564"W	1023.05	198.598	0.33	0.16	0.29	
8449.00	90.680	161.810	7165.39	905.78	-1059.34	-295.06	1717780.46	14352636.00	39°31'24.3662"N	80°43'32.3616"W	1099.67	195.564	2.33	1.04	2.08	
8543.00	90.090	161.560	7164.76	999.77	-1148.58	-265.53	1717809.99	14352546.79	39°31'23.4833"N	80°43'31.9882"W	1178.87	193.017	0.68	-0.63	-0.27	
8638.00	89.970	159.330	7164.71	1094.76	-1238.09	-233.73	1717841.77	14352457.32	39°31'22.5977"N	80°43'31.5859"W	1259.96	190.691	2.35	-0.13	-2.35	
8732.00	89.910	160.030	7164.81	1188.74	-1326.24	-201.09	1717874.40	14352369.20	39°31'21.7255"N	80°43'31.1728"W	1341.40	188.622	0.75	-0.06	0.74	
8827.00	90.250	159.970	7164.68	1283.72	-1415.51	-168.60	1717906.88	14352279.97	39°31'20.8422"N	80°43'30.7616"W	1425.52	186.792	0.36	0.36	-0.06	
8921.00	89.110	161.200	7165.20	1377.71	-1504.16	-137.35	1717938.11	14352191.35	39°31'19.9651"N	80°43'30.3664"W	1510.42	185.217	1.78	-1.21	1.31	
9016.00	91.570	166.590	7164.64	1472.55	-1595.39	-111.01	1717964.44	14352100.16	39°31'19.0627"N	80°43'30.0338"W	1599.25	183.980	6.24	2.59	5.67	
9111.00	94.160	161.260	7159.89	1567.27	-1686.53	-84.75	1717990.69	14352009.06	39°31'18.1612"N	80°43'29.7023"W	1688.65	182.877	6.23	2.73	-5.61	
9206.00	89.690	161.680	7156.70	1662.19	-1776.53	-54.59	1718020.84	14351919.10	39°31'17.2708"N	80°43'29.3209"W	1777.37	181.760	4.73	-4.71	0.44	
9301.00	88.030	161.260	7158.59	1757.16	-1866.58	-24.40	1718051.02	14351829.08	39°31'16.3799"N	80°43'28.9392"W	1866.74	180.749	1.80	-1.75	-0.44	
9396.00	88.000	160.030	7161.88	1852.10	-1956.16	7.06	1718082.47	14351739.54	39°31'15.4936"N	80°43'28.5412"W	1956.17	179.793	1.29	-0.03	-1.29	
9491.00	89.570	162.360	7163.89	1947.07	-2046.06	37.67	1718113.07	14351649.67	39°31'14.6042"N	80°43'28.1541"W	2046.40	178.945	2.96	1.65	2.45	
9585.00	90.000	161.670	7164.24	2041.05	-2135.46	66.70	1718142.08	14351560.30	39°31'13.7197"N	80°43'27.7872"W	2136.50	178.211	0.86	0.46	-0.73	
9680.00	89.050	160.350	7165.03	2136.05	-2225.29	97.61	1718172.98	14351470.51	39°31'12.8310"N	80°43'27.3963"W	2227.42	177.488	1.71	-1.00	-1.39	
9775.00	88.680	160.980	7166.91	2231.03	-2314.91	129.06	1718204.42	14351380.93	39°31'11.9443"N	80°43'26.9985"W	2318.50	176.809	0.77	-0.39	0.66	
9869.00	89.080	161.820	7168.75	2325.01	-2403.98	159.03	1718234.38	14351291.89	39°31'11.0630"N	80°43'26.6195"W	2409.24	176.215	0.99	0.43	0.89	
9964.00	89.200	161.420	7170.18	2419.99	-2494.12	188.98	1718264.32	14351201.78	39°31'10.1712"N	80°43'26.2408"W	2501.27	175.667	0.44	0.13	-0.42	
10058.00	90.740	165.430	7170.23	2513.88	-2584.20	215.79	1718291.12	14351111.74	39°31'9.2802"N	80°43'25.9023"W	2593.19	175.227	4.57	1.64	4.27	
10153.00	88.520	161.020	7170.84	2608.78	-2675.12	243.20	1718318.52	14351020.85	39°31'8.3807"N	80°43'25.5561"W	2686.16	174.805	5.20	-2.34	-4.64	
10248.00	88.770	161.740	7173.09	2703.75	-2765.13	273.53	1718348.83	14350930.89	39°31'7.4903"N	80°43'25.1727"W	2778.62	174.351	0.80	0.26	0.76	
10342.00	88.310	161.280	7175.48	2797.72	-2854.24	303.33	1718378.62	14350841.80	39°31'6.6086"N	80°43'24.7959"W	2870.32	173.934	0.69	-0.49	-0.49	
10437.00	90.000	161.260	7176.88	2892.70	-2944.20	333.83	1718409.11	14350751.88	39°31'5.7186"N	80°43'24.4102"W	2963.07	173.531	1.78	1.78	-0.02	
10531.00	91.200	164.480	7175.90	2986.64	-3034.01	361.51	1718436.78	14350662.11	39°31'4.8301"N	80°43'24.0605"W	3055.47	173.205	3.66	1.28	3.43	
10626.00	90.090	158.920	7174.83	3081.58	-3124.16	391.33	1718466.58	14350571.99	39°31'3.9382"N	80°43'23.6836"W	3148.58	172.860	5.97	-1.17	-5.85	
10721.00	90.220	161.770	7174.57	3176.57	-3213.62	423.28	1718498.52	14350482.57	39°31'3.0531"N	80°43'23.2794"W	3241.38	172.497	3.00	0.14	3.00	
10816.00	90.980	162.960	7173.58	3271.53	-3304.15	452.05	1718527.29	14350392.08	39°31'2.1575"N	80°43'22.9158"W	3334.93	172.210	1.49	0.80	1.25	



Actual Wellpath Report

Gribben Unit 2H AWP Proj: 18945'
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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Gribben Unit 2H
Field	Wetzel		API	47-103-03427-0000
Facility	Dogwood Pad		Wellbore	Gribben Unit 2H AWB
Slot	Slot #04			

WELLPATH DATA (207 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
10910.00	89.380	160.670	7173.28	3365.52	-3393.44	481.39	1718556.61	14350302.82	39°31'1.2741"N	80°43'22.5450"W	3427.42	171.926	2.97	-1.70	-2.44	
11005.00	89.200	159.950	7174.46	3460.50	-3482.88	513.39	1718588.60	14350213.41	39°31'0.3892"N	80°43'22.1401"W	3520.52	171.615	0.78	-0.19	-0.76	
11100.00	89.480	161.440	7175.55	3555.49	-3572.53	544.80	1718619.99	14350123.80	39°30'59.5022"N	80°43'21.7430"W	3613.83	171.329	1.60	0.29	1.57	
11194.00	89.780	160.140	7176.16	3649.48	-3661.29	575.72	1718650.91	14350035.07	39°30'58.6240"N	80°43'21.3518"W	3706.28	171.064	1.42	0.32	-1.38	
11289.00	89.510	161.590	7176.75	3744.48	-3751.04	606.86	1718682.03	14349945.36	39°30'57.7361"N	80°43'20.9580"W	3799.81	170.810	1.55	-0.28	1.53	
11384.00	90.000	161.350	7177.15	3839.48	-3841.11	637.05	1718712.21	14349855.32	39°30'56.8449"N	80°43'20.5763"W	3893.58	170.583	0.57	0.52	-0.25	
11478.00	89.450	160.210	7177.60	3933.47	-3929.87	668.00	1718743.14	14349766.60	39°30'55.9667"N	80°43'20.1850"W	3986.24	170.353	1.35	-0.59	-1.21	
11573.00	89.510	161.970	7178.47	4028.46	-4019.74	698.78	1718773.92	14349676.77	39°30'55.0776"N	80°43'19.7957"W	4080.02	170.138	1.85	0.06	1.85	
11668.00	89.170	160.600	7179.56	4123.45	-4109.71	729.26	1718804.38	14349586.84	39°30'54.1875"N	80°43'19.4104"W	4173.91	169.938	1.49	-0.36	-1.44	
11763.00	89.450	161.240	7180.71	4218.45	-4199.48	760.31	1718835.42	14349497.10	39°30'53.2993"N	80°43'19.0177"W	4267.75	169.738	0.74	0.29	0.67	
11857.00	89.780	161.910	7181.34	4312.44	-4288.66	790.02	1718865.12	14349407.96	39°30'52.4170"N	80°43'18.6422"W	4360.82	169.562	0.79	0.35	0.71	
11952.00	89.290	161.100	7182.11	4407.43	-4378.75	820.16	1718895.24	14349317.90	39°30'51.5257"N	80°43'18.2612"W	4454.90	169.391	1.00	-0.52	-0.85	
12047.00	90.520	161.550	7182.27	4502.43	-4468.74	850.58	1718925.65	14349227.94	39°30'50.6353"N	80°43'17.8767"W	4548.97	169.223	1.38	1.29	0.47	
12142.00	90.030	161.370	7181.81	4597.42	-4558.81	880.78	1718955.84	14349137.91	39°30'49.7442"N	80°43'17.4948"W	4643.12	169.065	0.55	-0.52	-0.19	
12236.00	89.690	161.050	7182.04	4691.42	-4647.80	911.06	1718986.11	14349048.95	39°30'48.8638"N	80°43'17.1120"W	4736.25	168.910	0.50	-0.36	-0.34	
12331.00	89.940	162.000	7182.35	4786.42	-4737.91	941.16	1719016.20	14348958.89	39°30'47.9724"N	80°43'16.7315"W	4830.48	168.765	1.03	0.26	1.00	
12426.00	89.630	161.180	7182.70	4881.41	-4828.04	971.17	1719046.19	14348868.79	39°30'47.0806"N	80°43'16.3522"W	4924.75	168.627	0.92	-0.33	-0.86	
12520.00	90.060	162.220	7182.96	4975.40	-4917.29	1000.68	1719075.69	14348779.58	39°30'46.1977"N	80°43'15.9792"W	5018.07	168.497	1.20	0.46	1.11	
12615.00	89.720	161.650	7183.14	5070.39	-5007.60	1030.14	1719105.14	14348689.30	39°30'45.3042"N	80°43'15.6069"W	5112.46	168.376	0.70	-0.36	-0.60	
12710.00	89.600	161.670	7183.70	5165.38	-5097.78	1060.03	1719135.02	14348599.16	39°30'44.4120"N	80°43'15.2290"W	5206.82	168.253	0.13	-0.13	0.02	
12805.00	89.820	160.670	7184.18	5260.38	-5187.69	1090.69	1719165.67	14348509.28	39°30'43.5225"N	80°43'14.8414"W	5301.11	168.127	1.08	0.23	-1.05	
12899.00	90.030	161.330	7184.31	5354.38	-5276.57	1121.30	1719196.26	14348420.44	39°30'42.6431"N	80°43'14.4544"W	5394.39	168.003	0.74	0.22	0.70	
12994.00	89.570	161.650	7184.64	5449.37	-5366.65	1151.45	1719226.41	14348330.39	39°30'41.7519"N	80°43'14.0732"W	5488.79	167.890	0.59	-0.48	0.34	
13089.00	89.690	161.210	7185.25	5544.37	-5456.70	1181.71	1719256.65	14348240.37	39°30'40.8609"N	80°43'13.6908"W	5583.19	167.781	0.48	0.13	-0.46	
13184.00	91.510	157.890	7184.26	5639.32	-5545.69	1214.89	1719289.82	14348151.42	39°30'39.9804"N	80°43'13.2709"W	5677.21	167.643	3.99	1.92	-3.49	
13278.00	89.570	158.730	7183.37	5733.20	-5633.03	1249.63	1719324.55	14348064.11	39°30'39.1161"N	80°43'12.8312"W	5769.97	167.492	2.25	-2.06	0.89	
13373.00	89.880	161.690	7183.83	5828.18	-5722.41	1281.79	1719356.69	14347974.77	39°30'38.2318"N	80°43'12.4244"W	5864.21	167.374	3.13	0.33	3.12	
13468.00	90.000	160.980	7183.93	5923.18	-5812.41	1312.19	1719387.08	14347884.80	39°30'37.3413"N	80°43'12.0401"W	5958.69	167.278	0.76	0.13	-0.75	
13563.00	89.820	161.960	7184.08	6018.17	-5902.49	1342.38	1719417.26	14347794.77	39°30'36.4502"N	80°43'11.6585"W	6053.21	167.187	1.05	-0.19	1.03	
13657.00	90.120	161.640	7184.12	6112.17	-5991.78	1371.74	1719446.61	14347705.50	39°30'35.5667"N	80°43'11.2874"W	6146.80	167.105	0.47	0.32	-0.34	

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Actual Wellpath Report

Gribben Unit 2H AWP Proj: 18945'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Gribben Unit 2H
Field	Wetzel	API	47-103-03427-0000
Facility	Dogwood Pad	Wellbore	Gribben Unit 2H AWB
Slot	Slot #04		

WELLPATH DATA (207 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
13752.00	89.570	160.830	7184.38	6207.16	-6081.73	1402.30	1719477.16	14347615.59	39°30'34.6768"N	80°43'10.9011"W	6241.31	167.016	1.03	-0.58	-0.85	
13846.00	89.910	161.540	7184.81	6301.16	-6170.71	1432.62	1719507.46	14347526.65	39°30'33.7965"N	80°43'10.5178"W	6334.83	166.930	0.84	0.36	0.76	
13941.00	90.030	161.000	7184.86	6396.16	-6260.68	1463.12	1719537.96	14347436.72	39°30'32.9064"N	80°43'10.1322"W	6429.37	166.846	0.58	0.13	-0.57	
14035.00	90.180	161.960	7184.69	6490.16	-6349.81	1492.98	1719567.80	14347347.62	39°30'32.0246"N	80°43'9.7548"W	6522.96	166.769	1.03	0.16	1.02	
14130.00	89.880	160.910	7184.64	6585.15	-6439.86	1523.23	1719598.03	14347257.60	39°30'31.1336"N	80°43'9.3725"W	6617.56	166.692	1.15	-0.32	-1.11	
14225.00	90.000	161.570	7184.74	6680.15	-6529.81	1553.78	1719628.57	14347167.69	39°30'30.2436"N	80°43'8.9863"W	6712.13	166.615	0.71	0.13	0.69	
14319.00	89.600	161.800	7185.06	6774.14	-6619.05	1583.32	1719658.10	14347078.48	39°30'29.3607"N	80°43'8.6130"W	6805.79	166.547	0.49	-0.43	0.24	
14414.00	89.420	160.640	7185.88	6869.14	-6708.99	1613.90	1719688.67	14346988.58	39°30'28.4709"N	80°43'8.2264"W	6900.38	166.474	1.24	-0.19	-1.22	
14509.00	89.720	160.920	7186.59	6964.13	-6798.69	1645.17	1719719.93	14346898.91	39°30'27.5834"N	80°43'7.8310"W	6994.91	166.397	0.43	0.32	0.29	
14603.00	89.970	162.120	7186.84	7058.13	-6887.84	1674.97	1719749.71	14346809.80	39°30'26.7014"N	80°43'7.4544"W	7088.57	166.332	1.30	0.27	1.28	
14697.00	89.630	161.150	7187.17	7152.12	-6977.05	1704.58	1719779.32	14346720.62	39°30'25.8188"N	80°43'7.0802"W	7182.26	166.271	1.09	-0.36	-1.03	
14792.00	89.660	161.220	7187.76	7247.12	-7066.97	1735.22	1719809.95	14346630.74	39°30'24.9291"N	80°43'6.6929"W	7276.89	166.205	0.08	0.03	0.07	
14887.00	90.000	162.590	7188.04	7342.10	-7157.27	1764.73	1719839.44	14346540.47	39°30'24.0357"N	80°43'6.3200"W	7371.62	166.149	1.49	0.36	1.44	
14981.00	89.750	161.130	7188.25	7436.09	-7246.60	1793.99	1719868.69	14346451.18	39°30'23.1520"N	80°43'5.9502"W	7465.36	166.095	1.58	-0.27	-1.55	
15076.00	89.780	161.570	7188.64	7531.09	-7336.61	1824.37	1719899.06	14346361.21	39°30'22.2615"N	80°43'5.5663"W	7560.04	166.036	0.46	0.03	0.46	
15171.00	89.910	162.070	7188.89	7626.08	-7426.87	1854.01	1719928.69	14346270.99	39°30'21.3685"N	80°43'5.1917"W	7654.78	165.983	0.54	0.14	0.53	
15265.00	89.170	160.700	7189.65	7720.07	-7515.94	1884.01	1719958.68	14346181.95	39°30'20.4872"N	80°43'4.8125"W	7748.48	165.928	1.66	-0.79	-1.46	
15360.00	89.420	161.570	7190.82	7815.06	-7605.83	1914.73	1719989.38	14346092.09	39°30'19.5979"N	80°43'4.4242"W	7843.14	165.870	0.95	0.26	0.92	
15455.00	89.080	160.120	7192.06	7910.05	-7695.56	1945.90	1720020.54	14346002.40	39°30'18.7101"N	80°43'4.0302"W	7937.77	165.810	1.57	-0.36	-1.53	
15549.00	89.350	161.740	7193.35	8004.04	-7784.39	1976.61	1720051.23	14345913.60	39°30'17.8312"N	80°43'3.6420"W	8031.42	165.753	1.75	0.29	1.72	
15644.00	89.050	160.790	7194.68	8099.03	-7874.35	2007.11	1720081.73	14345823.68	39°30'16.9412"N	80°43'3.2564"W	8126.12	165.700	1.05	-0.32	-1.00	
15738.00	89.690	161.190	7195.71	8193.02	-7963.22	2037.73	1720112.34	14345734.85	39°30'16.0619"N	80°43'2.8693"W	8219.80	165.646	0.80	0.68	0.43	
15833.00	89.480	162.130	7196.40	8288.01	-8053.39	2067.62	1720142.22	14345644.71	39°30'15.1698"N	80°43'2.4916"W	8314.57	165.601	1.01	-0.22	0.99	
15928.00	89.420	160.970	7197.31	8383.00	-8143.50	2097.69	1720172.27	14345554.64	39°30'14.2783"N	80°43'2.1117"W	8409.33	165.555	1.22	-0.06	-1.22	
16023.00	89.780	161.240	7197.97	8478.00	-8233.38	2128.45	1720203.02	14345464.80	39°30'13.3890"N	80°43'1.7228"W	8504.05	165.506	0.47	0.38	0.28	
16118.00	89.540	161.850	7198.54	8572.99	-8323.49	2158.52	1720233.08	14345374.72	39°30'12.4975"N	80°43'1.3428"W	8598.82	165.462	0.69	-0.25	0.64	
16213.00	89.910	161.350	7198.99	8667.99	-8413.63	2188.51	1720263.05	14345284.61	39°30'11.6056"N	80°43'0.9638"W	8693.60	165.420	0.65	0.39	-0.53	
16307.00	90.000	161.410	7199.07	8761.98	-8502.71	2218.52	1720293.06	14345195.57	39°30'10.7243"N	80°43'0.5845"W	8787.37	165.376	0.12	0.10	0.06	
16402.00	89.780	161.550	7199.25	8856.98	-8592.79	2248.70	1720323.22	14345105.52	39°30'9.8331"N	80°43'0.2032"W	8882.16	165.335	0.27	-0.23	0.15	
16497.00	90.120	162.040	7199.33	8951.97	-8683.04	2278.38	1720352.89	14345015.32	39°30'8.9403"N	80°42'59.8282"W	8976.98	165.297	0.63	0.36	0.52	



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Operator	ANTERO RESOURCES CORPORATION	Well	Gribben Unit 2H
Field	Wetzel	API	47-103-03427-0000
Facility	Dogwood Pad	Wellbore	Gribben Unit 2H AWB
Slot	Slot #04		

WELLPATH DATA (207 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]	
16592.00	90.650	161.990	7198.69	9046.96	-8773.39	2307.71	1720382.21	14344925.00	39°30'8.0463"N	80°42'59.4576"W	9071.82	165.263	0.56	0.56	-0.05	
16686.00	89.940	161.190	7198.21	9140.95	-8862.58	2337.39	1720411.88	14344835.84	39°30'7.1639"N	80°42'59.0825"W	9165.63	165.225	1.14	-0.76	-0.85	
16781.00	90.310	161.360	7198.00	9235.95	-8952.55	2367.89	1720442.37	14344745.91	39°30'6.2738"N	80°42'58.6970"W	9260.40	165.185	0.43	0.39	0.18	
16876.00	89.720	160.040	7197.98	9330.94	-9042.21	2399.29	1720473.75	14344656.28	39°30'5.3867"N	80°42'58.3001"W	9355.11	165.139	1.52	-0.62	-1.39	
16970.00	90.180	161.570	7198.06	9424.94	-9130.98	2430.19	1720504.64	14344567.55	39°30'4.5084"N	80°42'57.9094"W	9448.84	165.096	1.70	0.49	1.63	
17065.00	90.030	161.110	7197.88	9519.94	-9220.98	2460.59	1720535.03	14344477.58	39°30'3.6179"N	80°42'57.5253"W	9543.64	165.059	0.51	-0.16	-0.48	
17159.00	90.650	162.040	7197.33	9613.93	-9310.16	2490.30	1720564.72	14344388.44	39°30'2.7356"N	80°42'57.1499"W	9637.46	165.025	1.19	0.66	0.99	
17254.00	90.180	161.760	7196.64	9708.92	-9400.46	2519.81	1720594.23	14344298.17	39°30'1.8422"N	80°42'56.7770"W	9732.32	164.995	0.58	-0.49	-0.29	
17348.00	90.000	161.500	7196.49	9802.91	-9489.67	2549.44	1720623.84	14344209.00	39°30'0.9596"N	80°42'56.4027"W	9826.16	164.962	0.34	-0.19	-0.28	
17443.00	90.520	161.100	7196.06	9897.91	-9579.65	2579.89	1720654.28	14344119.05	39°30'0.0693"N	80°42'56.0178"W	9920.97	164.927	0.69	0.55	-0.42	
17537.00	89.450	161.250	7196.08	9991.91	-9668.62	2610.23	1720684.60	14344030.12	39°29'59.1890"N	80°42'55.6345"W	10014.77	164.892	1.15	-1.14	0.16	
17632.00	89.750	161.350	7196.75	10086.90	-9758.61	2640.68	1720715.05	14343940.17	39°29'58.2988"N	80°42'55.2495"W	10109.58	164.858	0.33	0.32	0.11	
17726.00	89.720	161.080	7197.18	10180.90	-9847.60	2670.95	1720745.31	14343851.21	39°29'57.4183"N	80°42'54.8670"W	10203.39	164.825	0.29	-0.03	-0.29	
17821.00	89.290	161.390	7198.00	10275.90	-9937.54	2701.51	1720775.85	14343761.30	39°29'56.5284"N	80°42'54.4808"W	10298.20	164.792	0.56	-0.45	0.33	
17916.00	89.450	161.090	7199.05	10370.89	-10027.49	2732.06	1720806.39	14343671.39	39°29'55.6384"N	80°42'54.0947"W	10393.01	164.759	0.36	0.17	-0.32	
18010.00	89.970	161.350	7199.52	10464.89	-10116.49	2762.32	1720836.64	14343582.43	39°29'54.7579"N	80°42'53.7123"W	10486.84	164.728	0.62	0.55	0.28	
18105.00	89.780	161.410	7199.73	10559.88	-10206.51	2792.66	1720866.96	14343492.44	39°29'53.8672"N	80°42'53.3290"W	10581.67	164.698	0.21	-0.20	0.06	
18199.00	89.480	161.470	7200.34	10653.88	-10295.62	2822.58	1720896.87	14343403.37	39°29'52.9856"N	80°42'52.9509"W	10675.52	164.669	0.33	-0.32	0.06	
18294.00	89.480	161.640	7201.20	10748.87	-10385.74	2852.63	1720926.91	14343313.29	39°29'52.0940"N	80°42'52.5712"W	10770.38	164.641	0.18	0.00	0.18	
18389.00	89.380	162.110	7202.15	10843.86	-10476.02	2882.18	1720956.45	14343223.04	39°29'51.2008"N	80°42'52.1978"W	10865.26	164.617	0.51	-0.11	0.49	
18483.00	89.850	160.690	7202.78	10937.85	-10565.11	2912.16	1720986.42	14343133.99	39°29'50.3194"N	80°42'51.8190"W	10959.11	164.590	1.59	0.50	-1.51	
18578.00	89.720	161.620	7203.13	11032.85	-10655.01	2942.85	1721017.10	14343044.12	39°29'49.4299"N	80°42'51.4312"W	11053.94	164.560	0.99	-0.14	0.98	
18673.00	89.480	160.490	7203.80	11127.84	-10744.86	2973.69	1721047.93	14342954.30	39°29'48.5409"N	80°42'51.0414"W	11148.76	164.530	1.22	-0.25	-1.19	
18767.00	89.540	161.030	7204.60	11221.84	-10833.61	3004.67	1721078.89	14342865.59	39°29'47.6628"N	80°42'50.6499"W	11242.56	164.499	0.58	0.06	0.57	
18862.00	89.660	161.200	7205.26	11316.84	-10923.49	3035.41	1721109.62	14342775.74	39°29'46.7735"N	80°42'50.2613"W	11337.39	164.470	0.22	0.13	0.18	
18920.00	89.600	160.870	7205.64	11374.84	-10978.34	3054.26	1721128.47	14342720.92	39°29'46.2308"N	80°42'50.0231"W	11395.28	164.453	0.58	-0.10	-0.57	
18945.00‡	89.600	160.870	7205.81	11399.83	-11001.96	3062.45	1721136.65	14342697.31	39°29'45.9971"N	80°42'49.9196"W	11420.23	164.445	0.00	0.00	0.00	Projected MD at TD: 18945'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Gribben Unit 2H
Field	Wetzel	API	47-103-03427-0000
Facility	Dogwood Pad	Wellbore	Gribben Unit 2H AWB
Slot	Slot #04		

HOLE & CASING SECTIONS - Ref Wellbore: Gribben Unit 2H AWB Ref Wellpath: Gribben Unit 2H AWP Proj: 18945'									
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	0.21	0.46
17.5in Open Hole	130.00	685.00	555.00	130.00	684.99	0.21	0.46	0.76	3.36
13.375in Casing Surface	30.00	665.00	635.00	30.00	664.99	0.00	0.00	0.83	3.32
12.25in Open Hole	685.00	2618.00	1933.00	684.99	2599.65	0.76	3.36	118.91	-186.91
9.625in Casing Intermediate	30.00	2598.00	2568.00	30.00	2579.90	0.00	0.00	118.06	-183.87
8.75in Open Hole	2618.00	6322.00	3704.00	2599.65	6250.13	118.91	-186.91	380.36	-731.03
8.5in Open Hole	6322.00	18945.00	12623.00	6250.13	7205.81	380.36	-731.03	-11001.96	3062.45
5.5in Casing Production	30.00	18925.00	18895.00	30.00	7205.67	0.00	0.00	-10983.07	3055.90

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Gribben Unit 2H POE Rev-2	7135.00	-124.51	-651.48	1717424.19	14353570.46	39°31'33.6161"N	80°43'36.8736"W	point
Gribben Unit 2H BHL Rev-2	7161.00	-10977.10	3081.28	1721155.47	14342722.16	39°29'46.2422"N	80°42'49.6785"W	point
Gribben Unit 2H LP Rev-2	7161.00	-305.34	-589.28	1717486.36	14353389.71	39°31'31.8271"N	80°43'36.0869"W	point
Gribben Unit 2H 50' L/R Hard Line	7500.00	-5550.80	1214.90	1719289.83	14348146.31	39°30'39.9299"N	80°43'13.2710"W	rectangle
2D Rectangle 11476.6 x 100.								



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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Gribben Unit 2H
Field	Wetzel	API	47-103-03427-0000
Facility	Dogwood Pad	Wellbore	Gribben Unit 2H AWB
Slot	Slot #04		

WELLPATH COMPOSITION - Ref Wellbore: Gribben Unit 2H AWB Ref Wellpath: Gribben Unit 2H AWP Proj: 18945'					
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
30.00	600.00	Gyrodata 2015 - GC+WIR+DPIPE	01_Gyrodata MS Gyro <17-1/2"> (100'-600')	Gribben Unit 2H AWB	27/Oct/2021
600.00	917.00	Gyrodata 2015 - GC+WIR+DPIPE	02_Gyrodata MS Gyro <12-1/4"> (600')(700'-917')	Gribben Unit 2H AWB	30/Oct/2021
917.00	2543.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03_APS EM <12-1/4"> (917')(1153'-2543')	Gribben Unit 2H AWB	27/Oct/2021
2543.00	6265.00	BH NaviTrak (2019) (Axial Corr+HRGM)	04_APS EM <8-3/4"> (2543')(2665'-6265')	Gribben Unit 2H AWB	03/Dec/2021
6265.00	18945.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	05_BH AT Curve <8-1/2"> (6265')(6299'-18920')	Gribben Unit 2H AWB	03/Dec/2021

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Gribben Unit 2H
Field	Wetzel	API	47-103-03427-0000
Facility	Dogwood Pad	Wellbore	Gribben Unit 2H AWB
Slot	Slot #04		

COMMENTS

Wellpath general comments

API: 47-103-03427-0000
BH Job #: 111092532
Rig: H&P 519
Duration: 12/11/2021-12/14/2021
Gyrodatta MS Gyro <17-1/2"> (100'-600')
Gyrodatta MS Gyro <12-1/4"> (600')(700'-917')
APS EM <12-1/4"> (917')(1153'-2543')
APS EM <8-3/4"> (2543')(2665'-6265')
BH AT Curve <8-1/2"> (6265')(6299'-18920')
Sycamore: 6874' MD
Middlesex: 7040' MD
Burkett: 7195' MD
Tully: 7255' MD
Marcellus POE: 7468' MD
Projected MD at TD: 18945'