



# ANTERO RESOURCES CORPORATION

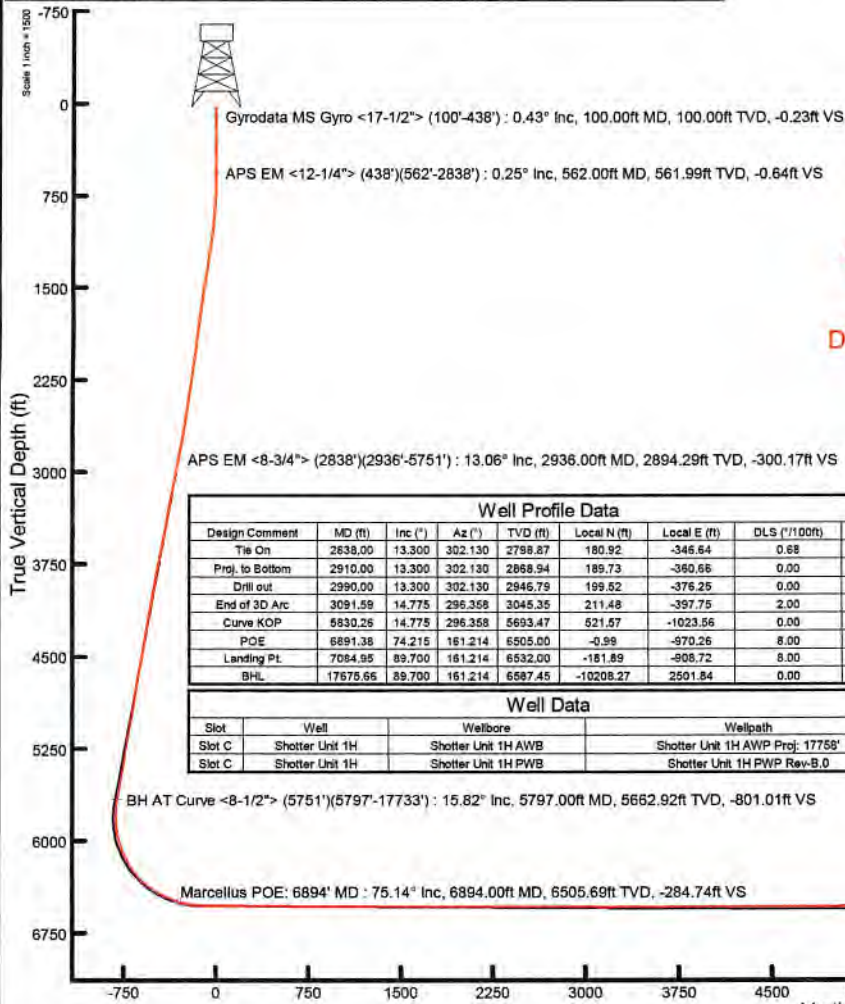
Location: Doddridge Co., WV  
 Field: Doddridge  
 Facility: Locke Pad

Slot: Slot C  
 Well: Shoter Unit 1H  
 Wellbore: Shoter Unit 1H PWB



Plot reference wellpath to Shoter Unit 1H PWP Rev-B.0	Grid System: NAD27 / UTM Zone 17 North, US feet
True vertical depths are referenced to H&P 531 (RKB)	North Reference: Grid north
Reference wellpath measured depths are referenced to H&P 531 (RKB)	Scale: True distance
H&P 531 (RKB) to Mean Sea Level: 1130 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (At Slot: Slot C): -1100 feet	Depths are in feet
Other wellpath MDs are referenced to each path's default MD datum	Created by: redkayar on 2023-05-30; Database: WA MPL_EASTERNUS_Deft

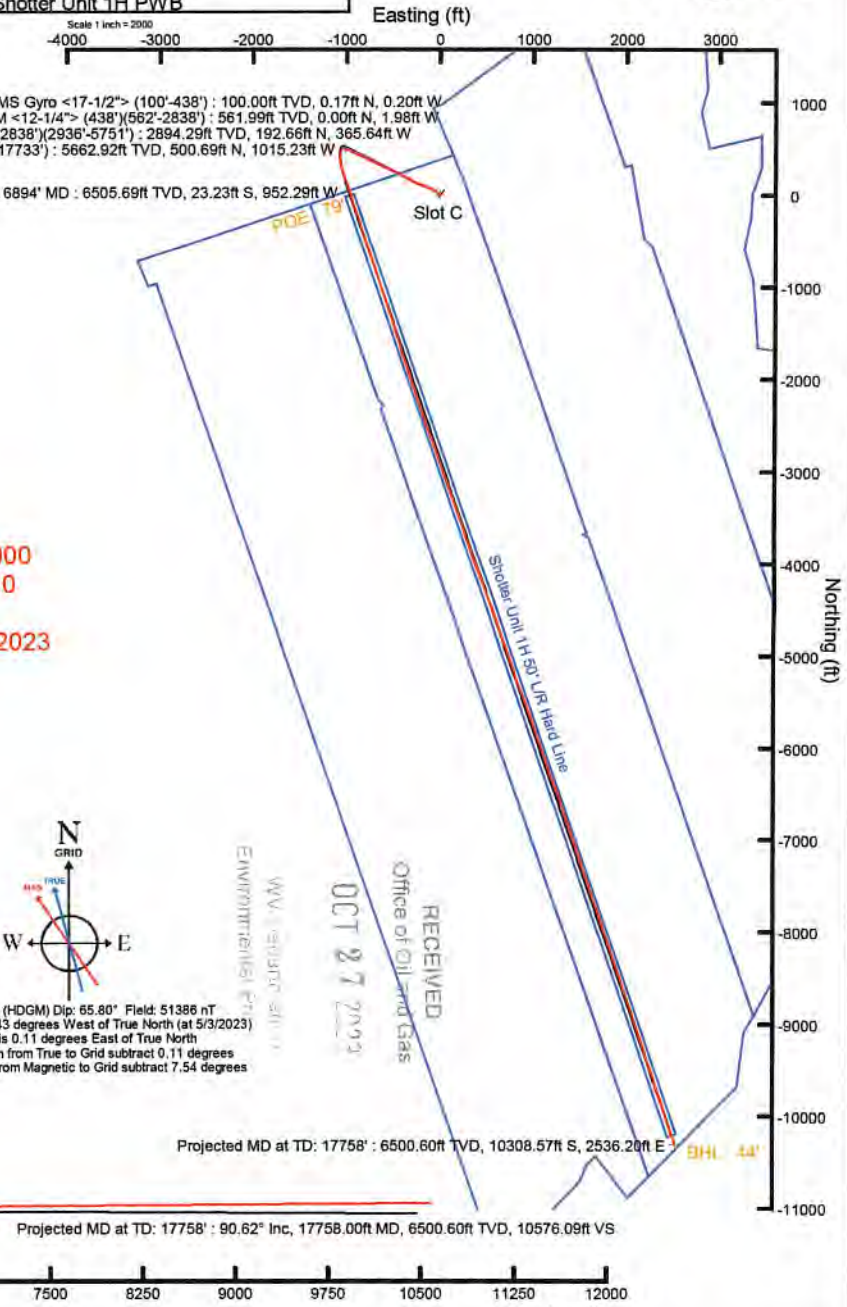
Location Information				
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Locke Pad	1687822.330	14226577.530	39°10'38.6900"N	80°50'1.5999"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)
Slot C	23.30	18.07	1687540.390	14225600.820
			39°10'38.9200"N	80°50'1.3700"W
Comment: Shoter Unit 1H				
H&P 531 (RKB) to Ground level (At Slot: Slot C)			30ft	
Mean Sea Level to Ground level (At Slot: Slot C)			-1100ft	
H&P 531 (RKB) to Mean Sea Level			1130ft	



Well Profile Data								
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	2638.00	13.300	302.130	2798.87	180.92	-346.64	0.68	-282.93
Proj. to Bottom	2910.00	13.300	302.130	2868.94	189.73	-360.66	0.00	-295.79
Drill out	2990.00	13.300	302.130	2946.79	199.52	-376.25	0.00	-310.07
End of 3D Arc	3091.59	14.775	296.358	3045.35	211.48	-397.75	2.00	-328.33
Curve KOP	6830.26	14.775	296.358	5693.47	621.57	-1023.56	0.00	-823.46
POE	6891.38	74.215	161.214	6505.00	-0.99	-970.26	8.00	-311.58
Landing Pt.	7054.95	89.700	161.214	6532.00	-181.89	-908.72	8.00	-120.50
BHL	17675.65	89.700	161.214	6587.45	-10208.27	2501.84	0.00	10470.07

Well Data			
Slot	Well	Wellbore	Wellpath
Slot C	Shoter Unit 1H	Shoter Unit 1H AWB	Shoter Unit 1H AWP Proj: 17758'
Slot C	Shoter Unit 1H	Shoter Unit 1H PWB	Shoter Unit 1H PWP Rev-B.0

API: 47-017-06945-0000  
 BH Job #: 111750210  
 Rig: H&P 531  
 Duration: 5/5/2023-5/8/2023



User specified (HDGM) Dip: 65.80° Field: 51386 nT  
 Magnetic North is 7.45 degrees West of True North (at 5/3/2023)  
 Grid North is 0.11 degrees East of True North  
 To correct azimuth from True to Grid subtract 0.11 degrees  
 To correct azimuth from Magnetic to Grid subtract 7.54 degrees

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Projected MD at TD: 17758' : 6500.60ft TVD, 10308.57ft S, 2536.20ft E  
 Projected MD at TD: 17758' : 90.62° Inc, 17758.00ft MD, 6500.60ft TVD, 10576.09ft VS

Vertical Section (ft)  
 Azimuth 161.21° with reference 0.00 N, 0.00 E





# Actual Wellpath Report

Shotter Unit 1H AWP Proj: 17758'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Shotter Unit 1H
Field	Doddridge	API	47-017-06945-0000
Facility	Locke Pad	Wellbore	Shotter Unit 1H 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	0.999603	Report Generated	5/30/2023 at 3:28:16 PM
Convergence at slot	0.11° 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	23.30	18.07	1687540.39	14226600.82	39°10'38.9200"N	80°50'1.3700"W
Facility Reference Pt			1687522.33	14226577.53	39°10'38.6900"N	80°50'1.5999"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 531 (RKB) to Facility Vertical Datum	1130.00ft
Horizontal Reference Pt	Slot	H&P 531 (RKB) to Mean Sea Level	1130.00ft
Vertical Reference Pt	H&P 531 (RKB)	H&P 531 (RKB) to Ground Level at Slot (Slot C)	30.00ft
MD Reference Pt	H&P 531 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	161.21°

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# Actual Wellpath Report

Shotter Unit 1H AWP Proj: 17758'  
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REFERENCE WELLPATH IDENTIFICATION			
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Field	Doddridge	API	47-017-06945-0000
Facility	Locke Pad	Wellbore	Shotter Unit 1H AWB
Slot	Slot C		

WELLPATH DATA (196 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	311.160	0.00	0.00	0.00	0.00	1687540.39	14226600.82	39°10'38.9200"N	80°50'1.3700"W	0.00	0.000	0.00	0.00	0.00	
30.00	0.000	311.160	30.00	0.00	0.00	0.00	1687540.39	14226600.82	39°10'38.9200"N	80°50'1.3700"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.430	311.160	100.00	-0.23	0.17	-0.20	1687540.19	14226600.99	39°10'38.9217"N	80°50'1.3725"W	0.26	311.160	0.61	0.61	0.00	Gyrodata MS Gyro <17-1/2"> (100'-438')
200.00	0.410	263.200	200.00	-0.63	0.38	-0.84	1687539.55	14226601.20	39°10'38.9237"N	80°50'1.3806"W	0.92	294.313	0.34	-0.02	-47.96	
300.00	0.150	265.540	300.00	-0.73	0.32	-1.32	1687539.07	14226601.14	39°10'38.9232"N	80°50'1.3867"W	1.36	283.816	0.26	-0.26	2.34	
400.00	0.140	223.890	400.00	-0.71	0.23	-1.54	1687538.85	14226601.05	39°10'38.9222"N	80°50'1.3895"W	1.55	278.394	0.10	-0.01	-41.65	
438.00	0.130	246.090	438.00	-0.68	0.18	-1.61	1687538.78	14226601.00	39°10'38.9217"N	80°50'1.3904"W	1.62	276.238	0.14	-0.03	58.42	
562.00	0.250	244.680	561.99	-0.64	0.00	-1.98	1687538.41	14226600.82	39°10'38.9200"N	80°50'1.3951"W	1.98	270.089	0.10	0.10	-1.14	APS EM <12-1/4"> (438')(562'-2838')
652.00	0.950	301.610	651.99	-1.19	0.31	-2.79	1687537.60	14226601.13	39°10'38.9231"N	80°50'1.4054"W	2.81	276.334	0.93	0.78	63.26	
743.00	2.790	320.790	742.94	-3.85	2.42	-4.84	1687535.56	14226603.24	39°10'38.9440"N	80°50'1.4313"W	5.41	296.597	2.11	2.02	21.08	
834.00	3.440	319.200	833.80	-8.46	6.20	-8.02	1687532.37	14226607.02	39°10'38.9814"N	80°50'1.4717"W	10.14	307.724	0.72	0.71	-1.75	
924.00	4.740	315.670	923.57	-14.32	10.91	-12.38	1687528.01	14226611.72	39°10'39.0280"N	80°50'1.5270"W	16.50	311.376	1.47	1.44	-3.92	
1019.00	6.580	311.550	1018.11	-22.59	17.33	-19.20	1687521.20	14226618.14	39°10'39.0916"N	80°50'1.6134"W	25.86	312.064	1.98	1.94	-4.34	
1114.00	8.450	308.550	1112.29	-33.20	25.29	-28.73	1687511.67	14226626.10	39°10'39.1704"N	80°50'1.7343"W	38.28	311.350	2.01	1.97	-3.16	
1209.00	10.180	306.610	1206.03	-45.98	34.65	-40.93	1687499.47	14226635.45	39°10'39.2631"N	80°50'1.8889"W	53.63	310.245	1.85	1.82	-2.04	
1303.00	11.460	304.250	1298.36	-60.28	44.86	-55.32	1687485.09	14226645.66	39°10'39.3643"N	80°50'2.0714"W	71.22	309.036	1.44	1.36	-2.51	
1398.00	12.910	301.040	1391.22	-75.93	55.64	-72.21	1687468.20	14226656.44	39°10'39.4712"N	80°50'2.2857"W	91.16	307.613	1.68	1.53	-3.38	
1492.00	12.740	297.470	1482.87	-91.45	65.84	-90.41	1687450.02	14226666.63	39°10'39.5723"N	80°50'2.5165"W	111.84	306.062	0.86	-0.18	-3.80	
1587.00	12.940	293.480	1575.50	-106.17	74.91	-109.46	1687430.97	14226675.70	39°10'39.6623"N	80°50'2.7582"W	132.64	304.385	0.96	0.21	-4.20	
1682.00	12.960	291.940	1668.08	-120.28	83.12	-129.10	1687411.35	14226683.91	39°10'39.7439"N	80°50'3.0073"W	153.54	302.777	0.36	0.02	-1.62	
1777.00	13.010	286.880	1760.66	-133.46	90.21	-149.21	1687391.24	14226690.99	39°10'39.8143"N	80°50'3.2626"W	174.36	301.156	1.20	0.05	-5.33	
1872.00	11.500	288.850	1853.49	-145.48	96.37	-168.41	1687372.05	14226697.16	39°10'39.8756"N	80°50'3.5062"W	194.03	299.781	1.65	-1.59	2.07	
1966.00	10.360	292.110	1945.78	-156.74	102.58	-185.11	1687355.36	14226703.36	39°10'39.9372"N	80°50'3.7181"W	211.63	298.995	1.38	-1.21	3.47	
2061.00	10.820	291.090	2039.16	-168.05	109.01	-201.34	1687339.13	14226709.78	39°10'40.0010"N	80°50'3.9241"W	228.95	298.432	0.52	0.48	-1.07	
2155.00	10.880	287.130	2131.49	-178.91	114.80	-218.05	1687322.43	14226715.57	39°10'40.0585"N	80°50'4.1362"W	246.42	297.765	0.80	0.06	-4.21	
2250.00	11.290	294.270	2224.72	-190.52	121.26	-235.10	1687305.39	14226722.03	39°10'40.1227"N	80°50'4.3525"W	264.53	297.284	1.51	0.43	7.52	
2345.00	11.750	296.490	2317.80	-203.74	129.40	-252.23	1687288.26	14226730.16	39°10'40.2035"N	80°50'4.5699"W	283.48	297.158	0.67	0.48	2.34	
2439.00	12.160	295.480	2409.76	-217.45	137.92	-269.73	1687270.76	14226738.69	39°10'40.2881"N	80°50'4.7919"W	302.95	297.082	0.49	0.44	-1.07	
2534.00	11.960	294.930	2502.67	-231.24	146.38	-287.69	1687252.81	14226747.14	39°10'40.3719"N	80°50'5.0198"W	322.79	296.967	0.24	-0.21	-0.58	
2629.00	12.870	298.730	2595.45	-245.85	155.61	-305.90	1687234.61	14226756.37	39°10'40.4636"N	80°50'5.2507"W	343.20	296.963	1.29	0.96	4.00	





# Actual Wellpath Report

Shotter Unit 1H AWP Proj: 17758'  
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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Shotter Unit 1H
Field	Doddridge		API	47-017-06945-0000
Facility	Locke Pad		Wellbore	Shotter Unit 1H AWB
Slot	Slot C			

WELLPATH DATA (196 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
2723.00	13.420	302.800	2686.99	-262.12	166.55	-324.25	1687216.27	14226767.31	39°10'40.5720"N	80°50'5.4835"W	364.52	297.188	1.15	0.59	4.33	
2818.00	13.350	302.680	2779.41	-279.34	178.45	-342.75	1687197.78	14226779.20	39°10'40.6899"N	80°50'5.7181"W	386.42	297.503	0.08	-0.07	-0.13	
2838.00	13.300	302.130	2798.87	-282.93	180.92	-346.64	1687193.89	14226781.67	39°10'40.7144"N	80°50'5.7675"W	391.01	297.561	0.68	-0.25	-2.75	
2936.00	13.060	301.290	2894.29	-300.17	192.66	-365.64	1687174.89	14226793.41	39°10'40.8308"N	80°50'6.0086"W	413.30	297.785	0.31	-0.24	-0.86	APS EM <8-3/4"> (2838')(2936'-5751')
3033.00	14.630	298.940	2988.46	-317.64	204.28	-385.73	1687154.81	14226805.02	39°10'40.9461"N	80°50'6.2634"W	436.49	297.906	1.72	1.62	-2.42	
3127.00	15.960	297.820	3079.13	-335.82	216.06	-407.55	1687133.00	14226816.79	39°10'41.0628"N	80°50'6.5402"W	461.28	297.930	1.45	1.41	-1.19	
3219.00	15.490	296.490	3167.69	-353.74	227.44	-429.73	1687110.83	14226828.17	39°10'41.1757"N	80°50'6.8216"W	486.21	297.891	0.64	-0.51	-1.45	
3314.00	15.040	295.570	3259.34	-371.37	238.42	-452.21	1687088.36	14226839.15	39°10'41.2847"N	80°50'7.1067"W	511.21	297.800	0.54	-0.47	-0.97	
3408.00	14.490	293.070	3350.24	-387.75	248.29	-474.03	1687066.55	14226849.02	39°10'41.3826"N	80°50'7.3836"W	535.12	297.645	0.90	-0.59	-2.66	
3503.00	14.390	293.640	3442.23	-403.64	257.69	-495.78	1687044.81	14226858.40	39°10'41.4758"N	80°50'7.6595"W	558.75	297.464	0.18	-0.11	0.60	
3598.00	16.050	295.370	3533.90	-420.76	268.05	-518.46	1687022.14	14226868.76	39°10'41.5787"N	80°50'7.9473"W	583.65	297.339	1.81	1.75	1.82	
3692.00	16.820	295.430	3624.06	-439.29	279.45	-542.48	1686998.12	14226880.16	39°10'41.6918"N	80°50'8.2521"W	610.23	297.255	0.82	0.82	0.06	
3787.00	16.660	293.600	3715.03	-458.06	290.81	-567.37	1686973.24	14226891.51	39°10'41.8045"N	80°50'8.5679"W	637.56	297.137	0.58	-0.17	-1.93	
3882.00	16.190	293.160	3806.16	-476.10	301.47	-592.03	1686948.60	14226902.17	39°10'41.9103"N	80°50'8.8808"W	664.37	296.986	0.51	-0.49	-0.46	
3976.00	15.630	290.830	3896.58	-492.93	311.13	-615.91	1686924.72	14226911.82	39°10'42.0062"N	80°50'9.1839"W	690.04	296.800	0.90	-0.60	-2.48	
4071.00	14.470	294.990	3988.30	-509.31	320.69	-638.64	1686902.01	14226921.38	39°10'42.1011"N	80°50'9.4722"W	714.63	296.664	1.67	-1.22	4.38	
4166.00	14.440	300.190	4080.29	-526.46	331.66	-659.63	1686881.02	14226932.35	39°10'42.2100"N	80°50'9.7385"W	738.32	296.693	1.37	-0.03	5.47	
4260.00	13.030	295.560	4171.61	-542.71	342.13	-679.32	1686861.34	14226942.81	39°10'42.3138"N	80°50'9.9883"W	760.61	296.731	1.90	-1.50	-4.93	
4355.00	14.290	297.570	4263.92	-558.68	352.18	-699.38	1686841.29	14226952.86	39°10'42.4134"N	80°50'10.2428"W	783.05	296.728	1.42	1.33	2.12	
4449.00	14.690	296.760	4354.93	-575.58	362.91	-720.31	1686820.37	14226963.59	39°10'42.5199"N	80°50'10.5083"W	806.56	296.740	0.48	0.43	-0.86	
4544.00	13.750	292.280	4447.02	-591.60	372.62	-741.51	1686799.18	14226973.29	39°10'42.6162"N	80°50'10.7773"W	829.87	296.680	1.52	-0.99	-4.72	
4639.00	14.090	295.380	4539.23	-607.07	381.85	-762.40	1686778.29	14226982.52	39°10'42.7079"N	80°50'11.0424"W	852.89	296.604	0.86	0.36	3.26	
4733.00	15.070	298.460	4630.20	-624.02	392.58	-783.49	1686757.22	14226993.25	39°10'42.8143"N	80°50'11.3099"W	876.34	296.614	1.33	1.04	3.28	
4830.00	14.130	296.110	4724.07	-641.64	403.80	-805.20	1686735.51	14227004.46	39°10'42.9256"N	80°50'11.5854"W	900.78	296.633	1.15	-0.97	-2.42	
4924.00	13.090	292.950	4815.43	-656.83	413.00	-825.31	1686715.41	14227013.66	39°10'43.0169"N	80°50'11.8405"W	922.88	296.584	1.36	-1.11	-3.36	
5019.00	13.450	295.280	4907.90	-671.67	421.92	-845.21	1686695.52	14227022.57	39°10'43.1053"N	80°50'12.0930"W	944.66	296.528	0.68	0.38	2.45	
5114.00	14.240	298.090	5000.14	-687.89	432.14	-865.51	1686675.23	14227032.78	39°10'43.2067"N	80°50'12.3505"W	967.39	296.532	1.09	0.83	2.96	
5208.00	14.090	296.660	5091.28	-704.48	442.71	-885.93	1686654.81	14227043.36	39°10'43.3116"N	80°50'12.6096"W	990.39	296.552	0.41	-0.16	-1.52	
5303.00	14.130	294.780	5183.41	-720.71	452.76	-906.79	1686633.96	14227053.40	39°10'43.4113"N	80°50'12.8743"W	1013.54	296.533	0.48	0.04	-1.98	
5398.00	12.900	289.200	5275.78	-735.23	461.11	-927.34	1686613.42	14227061.75	39°10'43.4942"N	80°50'13.1350"W	1035.65	296.438	1.89	-1.29	-5.87	

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# Actual Wellpath Report

Shotter Unit 1H AWP Proj: 17758'  
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REFERENCE WELLPATH IDENTIFICATION				
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Field	Doddridge		API	47-017-06945-0000
Facility	Locke Pad		Wellbore	Shotter Unit 1H AWB
Slot	Slot C			

WELLPATH DATA (196 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
5492.00	13.440	292.300	5367.31	-748.87	468.71	-947.35	1686593.41	14227069.34	39°10'43.5696"N	80°50'13.3890"W	1056.96	296.324	0.95	0.57	3.30	
5586.00	14.680	297.290	5458.50	-764.63	478.31	-968.05	1686572.73	14227078.94	39°10'43.6649"N	80°50'13.6516"W	1079.77	296.294	1.84	1.32	5.31	
5681.00	14.240	295.620	5550.49	-781.48	488.89	-989.28	1686551.50	14227089.51	39°10'43.7698"N	80°50'13.9210"W	1103.49	296.298	0.64	-0.46	-1.76	
5751.00	13.600	292.590	5618.43	-792.94	495.77	-1004.64	1686536.15	14227096.39	39°10'43.8381"N	80°50'14.1159"W	1120.31	296.265	1.39	-0.91	-4.33	
5797.00	15.820	296.930	5662.92	-801.01	500.89	-1015.23	1686525.57	14227101.31	39°10'43.8869"N	80°50'14.2502"W	1131.98	296.251	5.38	4.83	9.43	BH AT Curve <8-1/2"> (5751')(5797'-17733')
5892.00	10.820	267.070	5755.44	-812.74	506.11	-1035.71	1686505.09	14227106.72	39°10'43.9408"N	80°50'14.5102"W	1152.76	296.043	8.79	-5.26	-31.43	
5986.00	10.990	226.240	5847.88	-811.36	499.45	-1051.02	1686489.79	14227100.07	39°10'43.8753"N	80°50'14.7047"W	1163.65	295.417	8.05	0.18	-43.44	
6080.00	14.350	209.600	5939.61	-799.84	483.11	-1063.25	1686477.56	14227083.74	39°10'43.7141"N	80°50'14.8604"W	1167.86	294.436	5.24	3.57	-17.70	
6175.00	19.820	192.590	6030.44	-778.24	457.12	-1072.59	1686468.23	14227057.76	39°10'43.4573"N	80°50'14.9796"W	1165.94	293.083	7.74	5.76	-17.91	
6269.00	25.260	178.410	6117.29	-745.43	421.47	-1075.51	1686465.31	14227022.12	39°10'43.1050"N	80°50'15.0175"W	1155.15	291.399	8.14	5.79	-15.09	
6287.00†	26.352	177.243	6133.49	-737.92	413.64	-1075.21	1686465.61	14227014.29	39°10'43.0276"N	80°50'15.0139"W	1152.03	291.042	6.69	6.07	-6.49	Sycamore: 6287' MD
6364.00	31.110	173.120	6201.00	-702.01	376.80	-1072.01	1686468.81	14226977.46	39°10'42.6634"N	80°50'14.9740"W	1136.30	289.366	6.69	6.18	-5.35	
6458.00	38.770	168.020	6278.02	-648.93	323.81	-1062.97	1686477.84	14226924.50	39°10'42.1395"N	80°50'14.8605"W	1111.20	286.942	8.72	8.15	-5.43	
6507.00†	43.718	164.391	6314.86	-616.77	292.47	-1055.23	1686485.59	14226893.17	39°10'41.8296"N	80°50'14.7628"W	1095.01	285.491	11.21	10.10	-7.41	Middlesex: 6507' MD
6553.00	48.450	161.540	6346.76	-583.66	260.81	-1045.49	1686495.32	14226861.52	39°10'41.5165"N	80°50'14.6400"W	1077.53	284.007	11.21	10.29	-6.20	
6648.00	58.280	162.000	6403.37	-507.53	188.48	-1021.69	1686519.11	14226789.23	39°10'40.8012"N	80°50'14.3394"W	1038.93	280.453	10.35	10.35	0.48	
6699.00†	60.748	161.779	6429.25	-463.58	146.72	-1008.03	1686532.76	14226747.48	39°10'40.3882"N	80°50'14.1668"W	1018.65	278.281	4.85	4.84	-0.43	Burkett: 6699' MD
6742.00	62.830	161.600	6449.57	-425.70	110.74	-996.13	1686544.66	14226711.52	39°10'40.0324"N	80°50'14.0165"W	1002.26	276.344	4.85	4.84	-0.42	
6806.00†	67.081	161.908	6476.66	-367.73	55.69	-977.98	1686562.80	14226656.49	39°10'39.4879"N	80°50'13.7873"W	979.56	273.259	6.66	6.64	0.48	Tully: 6806' MD
6837.00	69.140	162.050	6488.21	-338.97	28.34	-969.08	1686571.70	14226629.15	39°10'39.2174"N	80°50'13.6749"W	969.49	271.675	6.66	6.64	0.46	
6894.00†	75.143	161.871	6505.69	-284.74	-23.23	-952.29	1686588.48	14226577.60	39°10'38.7075"N	80°50'13.4629"W	952.57	268.603	10.54	10.53	-0.31	Marcellus POE: 6894' MD
6931.00	79.040	161.760	6513.95	-248.69	-57.48	-941.03	1686599.73	14226543.36	39°10'38.3687"N	80°50'13.3207"W	942.79	266.504	10.54	10.53	-0.30	
7026.00	85.160	162.090	6527.00	-154.64	-146.90	-911.85	1686628.90	14226453.98	39°10'37.4844"N	80°50'12.9523"W	923.61	260.849	6.45	6.44	0.35	
7120.00	89.880	161.840	6531.07	-60.76	-236.17	-882.79	1686657.96	14226364.75	39°10'36.6016"N	80°50'12.5852"W	913.83	255.023	5.03	5.02	-0.27	
7215.00	89.260	160.930	6531.78	34.23	-326.19	-852.46	1686688.27	14226274.76	39°10'35.7112"N	80°50'12.2022"W	912.74	249.061	1.16	-0.65	-0.96	
7309.00	88.830	161.420	6533.35	128.22	-415.15	-822.14	1686718.58	14226185.83	39°10'34.8314"N	80°50'11.8191"W	921.01	243.208	0.69	-0.46	0.52	
7404.00	89.940	161.850	6534.37	223.21	-505.31	-792.21	1686748.50	14226095.71	39°10'33.9398"N	80°50'11.4412"W	939.64	237.468	1.25	1.17	0.45	
7498.00	90.030	162.030	6534.39	317.20	-594.68	-763.06	1686777.63	14226006.38	39°10'33.0560"N	80°50'11.0732"W	967.42	232.070	0.21	0.10	0.19	
7593.00	90.090	162.100	6534.29	412.19	-685.06	-733.81	1686806.87	14225916.03	39°10'32.1621"N	80°50'10.7038"W	1003.89	226.968	0.10	0.06	0.07	
7688.00	90.060	162.540	6534.17	507.17	-775.57	-704.96	1686835.71	14225825.56	39°10'31.2670"N	80°50'10.3395"W	1048.08	222.269	0.46	-0.03	0.46	

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# Actual Wellpath Report

Shotter Unit 1H AWP Proj: 17758'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Shotter Unit 1H
Field	Doddridge	API	47-017-06945-0000
Facility	Locke Pad	Wellbore	Shotter Unit 1H AWP
Slot	Slot C		

WELLPATH DATA (196 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
7782.00	89.750	161.960	6534.32	601.16	-865.10	-676.30	1686864.36	14225736.07	39°10'30.3816"N	80°50'9.9777"W	1098.08	218.017	0.70	-0.33	-0.62	
7877.00	89.970	162.070	6534.56	696.15	-955.45	-646.97	1686893.68	14225645.75	39°10'29.4880"N	80°50'9.6073"W	1153.89	214.103	0.26	0.23	0.12	
7971.00	89.940	161.850	6534.63	790.14	-1044.83	-617.86	1686922.78	14225556.40	39°10'28.6041"N	80°50'9.2397"W	1213.85	210.598	0.24	-0.03	-0.23	
8066.00	88.090	161.740	6536.26	885.11	-1135.06	-588.19	1686952.44	14225466.21	39°10'27.7117"N	80°50'8.8650"W	1278.41	207.393	1.95	-1.95	-0.12	
8161.00	90.520	161.940	6537.42	980.09	-1225.32	-558.58	1686982.03	14225375.99	39°10'26.8191"N	80°50'8.4912"W	1346.63	204.507	2.57	2.56	0.21	
8255.00	90.000	161.860	6536.99	1074.09	-1314.66	-529.38	1687011.22	14225286.68	39°10'25.9355"N	80°50'8.1224"W	1417.24	201.933	0.56	-0.55	-0.09	
8350.00	90.550	162.850	6536.53	1169.06	-1405.19	-500.58	1687040.01	14225196.19	39°10'25.0402"N	80°50'7.7589"W	1491.69	199.608	1.19	0.58	1.04	
8444.00	90.090	162.490	6536.01	1263.03	-1494.92	-472.58	1687068.00	14225106.49	39°10'24.1528"N	80°50'7.4054"W	1567.84	197.543	0.62	-0.49	-0.38	
8633.00	90.060	161.810	6535.76	1452.01	-1674.82	-414.65	1687125.91	14224926.67	39°10'22.3737"N	80°50'6.6739"W	1725.39	193.906	0.36	-0.02	-0.36	
8728.00	90.150	162.090	6535.59	1547.00	-1765.15	-385.21	1687155.33	14224836.38	39°10'21.4804"N	80°50'6.3023"W	1806.69	192.311	0.31	0.09	0.29	
8823.00	90.220	161.960	6535.28	1641.99	-1855.51	-355.90	1687184.63	14224746.05	39°10'20.5867"N	80°50'5.9321"W	1889.33	190.858	0.16	0.07	-0.14	
8918.00	90.030	162.030	6535.07	1736.98	-1945.86	-326.53	1687213.99	14224655.74	39°10'19.6932"N	80°50'5.5614"W	1973.07	189.526	0.21	-0.20	0.07	
9012.00	89.880	162.130	6535.15	1830.97	-2035.30	-297.61	1687242.90	14224566.34	39°10'18.8087"N	80°50'5.1962"W	2056.94	188.319	0.19	-0.16	0.11	
9106.00	89.660	161.690	6535.52	1924.96	-2124.65	-268.42	1687272.07	14224477.02	39°10'17.9250"N	80°50'4.8276"W	2141.54	187.200	0.52	-0.23	-0.47	
9201.00	89.820	161.720	6535.95	2019.95	-2214.85	-238.60	1687301.88	14224386.86	39°10'17.0329"N	80°50'4.4511"W	2227.66	186.149	0.17	0.17	0.03	
9295.00	89.320	159.720	6536.66	2113.94	-2303.57	-207.57	1687332.91	14224298.17	39°10'16.1555"N	80°50'4.0591"W	2312.90	185.149	2.19	-0.53	-2.13	
9390.00	89.690	160.670	6537.48	2208.92	-2392.94	-175.38	1687365.08	14224208.83	39°10'15.2715"N	80°50'3.6525"W	2399.36	184.192	1.07	0.39	1.00	
9484.00	91.140	160.570	6536.80	2302.91	-2481.61	-144.19	1687396.26	14224120.20	39°10'14.3945"N	80°50'3.2585"W	2485.80	183.325	1.55	1.54	-0.11	
9579.00	89.910	161.450	6535.93	2397.91	-2571.44	-113.28	1687427.16	14224030.41	39°10'13.5062"N	80°50'2.8681"W	2573.93	182.522	1.59	-1.29	0.93	
9674.00	89.350	161.060	6536.54	2492.90	-2661.40	-82.75	1687457.67	14223940.49	39°10'12.6165"N	80°50'2.4826"W	2662.68	181.781	0.72	-0.59	-0.41	
9768.00	89.600	161.260	6537.40	2586.90	-2750.36	-52.40	1687488.01	14223851.56	39°10'11.7367"N	80°50'2.0993"W	2750.85	181.091	0.34	0.27	0.21	
9863.00	90.370	159.970	6537.43	2681.89	-2839.97	-20.87	1687519.53	14223761.99	39°10'10.8504"N	80°50'1.7010"W	2840.04	180.421	1.58	0.81	-1.36	
9957.00	89.200	160.260	6537.78	2775.87	-2928.36	11.11	1687551.49	14223673.63	39°10'9.9761"N	80°50'1.2971"W	2928.38	179.783	1.28	-1.24	0.31	
10052.00	89.690	161.310	6538.70	2870.86	-3018.06	42.37	1687582.74	14223583.96	39°10'9.0890"N	80°50'0.9023"W	3018.36	179.196	1.22	0.52	1.11	
10147.00	89.750	160.920	6539.17	2965.86	-3107.95	73.12	1687613.48	14223494.11	39°10'8.2000"N	80°50'0.5140"W	3108.81	178.652	0.42	0.06	-0.41	
10242.00	90.000	161.260	6539.37	3060.86	-3197.82	103.91	1687644.25	14223404.28	39°10'7.3111"N	80°50'0.1252"W	3199.51	178.139	0.44	0.26	0.36	
10336.00	89.820	160.560	6539.52	3154.86	-3286.65	134.65	1687674.98	14223315.48	39°10'6.4326"N	80°49'59.7369"W	3289.41	177.654	0.77	-0.19	-0.74	
10431.00	90.280	161.330	6539.44	3249.86	-3376.44	165.66	1687705.99	14223225.73	39°10'5.5445"N	80°49'59.3452"W	3380.50	177.191	0.94	0.48	0.81	
10525.00	90.220	160.290	6539.03	3343.85	-3465.22	196.56	1687736.87	14223136.99	39°10'4.6665"N	80°49'58.9550"W	3470.79	176.753	1.11	-0.06	-1.11	
10619.00	89.540	160.940	6539.23	3437.85	-3553.89	227.76	1687768.06	14223048.35	39°10'3.7895"N	80°49'58.5609"W	3561.18	176.333	1.00	-0.72	0.69	

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# Actual Wellpath Report

Shooter Unit 1H AWP Proj: 17758'

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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Shooter Unit 1H
Field	Doddridge		API	47-017-06945-0000
Facility	Locke Pad		Wellbore	Shooter Unit 1H AWP
Slot	Slot C			

WELLPATH DATA (196 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)	Buld Rate (°/100ft)	Turn Rate (°/100ft)	Comments
10714.00	89.690	160.760	6539.86	3532.84	-3643.63	258.92	1687799.21	14222958.65	39°10'2.9020"N	80°49'58.1674"W	3652.82	175.935	0.25	0.16	-0.19	
10808.00	90.800	161.110	6539.46	3626.84	-3732.47	289.63	1687829.90	14222869.84	39°10'2.0233"N	80°49'57.7796"W	3743.69	175.563	1.24	1.18	0.37	
10903.00	90.000	162.020	6538.80	3721.83	-3822.59	319.67	1687859.93	14222779.76	39°10'1.1320"N	80°49'57.4003"W	3835.93	175.220	1.28	-0.84	0.96	
10998.00	89.750	160.040	6539.01	3816.83	-3912.43	350.55	1687890.80	14222689.96	39°10'0.2435"N	80°49'57.0104"W	3928.10	174.880	2.10	-0.26	-2.08	
11092.00	90.770	160.990	6538.58	3910.82	-4001.04	381.90	1687922.14	14222601.38	39°09'59.3671"N	80°49'56.6144"W	4019.23	174.548	1.48	1.09	1.01	
11187.00	90.220	160.320	6537.76	4005.81	-4090.67	413.37	1687953.59	14222511.78	39°09'58.4806"N	80°49'56.2170"W	4111.51	174.230	0.91	-0.58	-0.71	
11281.00	90.030	160.770	6537.55	4099.80	-4179.30	444.68	1687984.89	14222423.18	39°09'57.6040"N	80°49'55.8216"W	4202.89	173.927	0.52	-0.20	0.48	
11376.00	89.540	160.410	6537.91	4194.79	-4268.90	476.25	1688016.45	14222333.62	39°09'56.7178"N	80°49'55.4228"W	4295.39	173.634	0.64	-0.52	-0.38	
11470.00	89.570	158.950	6538.64	4288.76	-4357.05	508.89	1688049.07	14222245.51	39°09'55.8460"N	80°49'55.0105"W	4386.67	173.338	1.55	0.03	-1.55	
11565.00	90.280	160.220	6538.76	4383.71	-4446.08	542.02	1688082.20	14222156.52	39°09'54.9654"N	80°49'54.5919"W	4479.00	173.049	1.53	0.75	1.34	
11659.00	91.260	159.890	6537.50	4477.69	-4534.43	574.09	1688114.25	14222068.20	39°09'54.0916"N	80°49'54.1869"W	4570.63	172.784	1.10	1.04	-0.35	
11754.00	90.490	161.020	6536.05	4572.66	-4623.95	605.86	1688146.01	14221978.72	39°09'53.2063"N	80°49'53.7856"W	4663.47	172.535	1.44	-0.81	1.19	
11848.00	89.850	159.590	6535.77	4666.65	-4712.44	637.54	1688177.68	14221890.26	39°09'52.3310"N	80°49'53.3855"W	4755.37	172.295	1.67	-0.68	-1.52	
11942.00	90.250	161.180	6535.69	4760.64	-4800.99	669.10	1688209.22	14221801.75	39°09'51.4552"N	80°49'52.9869"W	4847.39	172.066	1.74	0.43	1.69	
12037.00	90.060	160.660	6535.43	4855.63	-4890.77	700.15	1688240.26	14221712.01	39°09'50.5673"N	80°49'52.5948"W	4940.63	171.853	0.58	-0.20	-0.55	
12131.00	90.310	160.300	6535.13	4949.63	-4979.36	731.56	1688271.66	14221623.45	39°09'49.6910"N	80°49'52.1981"W	5032.82	171.642	0.47	0.27	-0.38	
12226.00	90.430	161.150	6534.52	5044.62	-5069.04	762.92	1688303.00	14221533.81	39°09'48.8041"N	80°49'51.8021"W	5125.13	171.441	0.90	0.13	0.89	
12320.00	90.490	160.840	6533.76	5138.62	-5157.91	793.53	1688333.60	14221444.97	39°09'47.9252"N	80°49'51.4156"W	5218.59	171.254	0.34	0.06	-0.33	
12415.00	90.310	160.890	6533.10	5233.61	-5247.66	824.67	1688364.73	14221355.26	39°09'47.0375"N	80°49'51.0224"W	5312.06	171.069	0.20	-0.19	0.05	
12509.00	89.850	160.080	6532.97	5327.60	-5336.26	856.07	1688396.12	14221266.70	39°09'46.1612"N	80°49'50.6259"W	5404.49	170.886	0.99	-0.49	-0.86	
12603.00	90.120	160.270	6532.99	5421.59	-5424.69	887.95	1688427.98	14221178.30	39°09'45.2866"N	80°49'50.2232"W	5496.88	170.704	0.35	0.29	0.20	
12698.00	90.000	160.490	6532.89	5516.58	-5514.17	919.85	1688459.87	14221088.85	39°09'44.4016"N	80°49'49.8204"W	5590.37	170.529	0.26	-0.13	0.23	
12793.00	90.310	160.590	6532.63	5611.57	-5603.74	951.50	1688491.51	14220999.32	39°09'43.5157"N	80°49'49.4207"W	5683.95	170.363	0.34	0.33	0.11	
12887.00	90.310	159.720	6532.13	5705.55	-5692.16	983.41	1688523.40	14220910.94	39°09'42.6412"N	80°49'49.0177"W	5776.48	170.198	0.93	0.00	-0.93	
12982.00	90.550	160.870	6531.41	5800.54	-5781.59	1015.44	1688555.42	14220821.54	39°09'41.7566"N	80°49'48.6132"W	5870.09	170.039	1.24	0.25	1.21	
13077.00	90.490	160.490	6530.55	5895.53	-5871.24	1046.87	1688586.84	14220731.93	39°09'40.8700"N	80°49'48.2163"W	5963.84	169.890	0.40	-0.06	-0.40	
13171.00	90.370	160.030	6529.85	5989.51	-5959.71	1078.61	1688618.57	14220643.99	39°09'39.9950"N	80°49'47.8153"W	6056.53	169.741	0.51	-0.13	-0.49	
13265.00	90.280	161.200	6529.31	6083.50	-6048.38	1109.81	1688649.76	14220554.86	39°09'39.1180"N	80°49'47.4214"W	6149.35	169.602	1.25	-0.10	1.24	
13360.00	90.310	161.660	6528.82	6178.50	-6138.43	1140.07	1688680.00	14220464.84	39°09'38.2274"N	80°49'47.0394"W	6243.40	169.479	0.49	0.03	0.48	
13454.00	90.180	161.290	6528.42	6272.50	-6227.56	1169.93	1688709.85	14220375.75	39°09'37.3459"N	80°49'46.6624"W	6336.50	169.360	0.42	-0.14	-0.39	

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# Actual Wellpath Report

Shooter Unit 1H AWP Proj: 17758'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Shooter Unit 1H
Field	Doddridge	API	47-017-06945-0000
Facility	Locke Pad	Wellbore	Shooter Unit 1H AWP
Slot	Slot C		

WELLPATH DATA (196 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
13549.00	90.030	159.060	6528.25	6367.48	-6316.92	1202.15	1688742.06	14220286.42	39°09'36.4620"N	80°49'46.2556"W	6430.29	169.225	2.35	-0.16	-2.35	
13643.00	90.090	157.940	6528.15	6461.37	-6404.38	1236.60	1688776.49	14220199.00	39°09'35.5969"N	80°49'45.8203"W	6522.67	169.071	1.19	0.06	-1.19	
13738.00	90.090	161.530	6528.00	6556.32	-6493.49	1269.50	1688809.38	14220109.93	39°09'34.7156"N	80°49'45.4048"W	6616.42	168.938	3.78	0.00	3.78	
13832.00	90.680	161.790	6527.37	6650.32	-6582.71	1299.07	1688838.95	14220020.74	39°09'33.8332"N	80°49'45.0314"W	6709.67	168.836	0.69	0.63	0.28	
13927.00	90.120	161.360	6526.70	6745.31	-6672.84	1329.10	1688868.96	14219930.65	39°09'32.9418"N	80°49'44.6524"W	6803.91	168.735	0.74	-0.59	-0.45	
14021.00	90.620	161.870	6526.10	6839.31	-6762.04	1358.75	1688898.59	14219841.49	39°09'32.0596"N	80°49'44.2782"W	6897.20	168.638	0.76	0.53	0.54	
14116.00	90.220	161.550	6525.40	6934.30	-6852.23	1388.56	1688928.39	14219751.32	39°09'31.1676"N	80°49'43.9019"W	6991.51	168.545	0.54	-0.42	-0.34	
14210.00	90.220	160.910	6525.04	7028.30	-6941.23	1418.81	1688958.63	14219662.36	39°09'30.2873"N	80°49'43.5200"W	7084.75	168.448	0.68	0.00	-0.68	
14305.00	90.680	162.000	6524.29	7123.30	-7031.30	1449.02	1688988.83	14219572.33	39°09'29.3966"N	80°49'43.1386"W	7179.05	168.355	1.25	0.48	1.15	
14399.00	90.180	161.480	6523.59	7217.29	-7120.56	1478.47	1689018.27	14219483.11	39°09'28.5138"N	80°49'42.7669"W	7272.43	168.270	0.77	-0.53	-0.55	
14494.00	90.830	161.910	6522.75	7312.28	-7210.75	1508.31	1689048.09	14219392.95	39°09'27.6218"N	80°49'42.3903"W	7366.81	168.186	0.82	0.68	0.45	
14588.00	90.250	161.020	6521.86	7406.27	-7299.87	1538.19	1689077.96	14219303.87	39°09'26.7404"N	80°49'42.0131"W	7460.17	168.101	1.13	-0.62	-0.95	
14683.00	90.220	161.410	6521.48	7501.27	-7389.81	1568.78	1689108.54	14219213.97	39°09'25.8509"N	80°49'41.6269"W	7554.49	168.015	0.41	-0.03	0.41	
14777.00	90.340	161.530	6521.02	7595.27	-7478.93	1598.65	1689138.40	14219124.88	39°09'24.9694"N	80°49'41.2499"W	7647.88	167.934	0.18	0.13	0.13	
14872.00	90.220	161.160	6520.55	7690.27	-7568.94	1629.04	1689168.78	14219034.90	39°09'24.0792"N	80°49'40.8663"W	7742.26	167.854	0.41	-0.13	-0.39	
14967.00	90.060	162.260	6520.32	7785.26	-7659.14	1658.85	1689198.58	14218944.74	39°09'23.1871"N	80°49'40.4900"W	7836.72	167.779	1.17	-0.17	1.16	
15061.00	90.490	161.370	6519.87	7879.26	-7748.44	1688.19	1689227.90	14218855.47	39°09'22.3039"N	80°49'40.1197"W	7930.21	167.709	1.05	0.46	-0.95	
15156.00	90.310	161.540	6519.21	7974.25	-7838.51	1718.40	1689258.10	14218765.45	39°09'21.4131"N	80°49'39.7384"W	8024.65	167.635	0.26	-0.19	0.18	
15250.00	90.310	161.570	6518.70	8068.25	-7927.68	1748.14	1689287.83	14218676.31	39°09'20.5312"N	80°49'39.3630"W	8118.13	167.565	0.03	0.00	0.03	
15345.00	90.580	161.790	6517.96	8163.24	-8017.86	1778.00	1689317.68	14218586.17	39°09'19.6393"N	80°49'38.9861"W	8212.63	167.497	0.37	0.28	0.23	
15439.00	90.310	161.700	6517.23	8257.24	-8107.12	1807.44	1689347.11	14218496.93	39°09'18.7565"N	80°49'38.6145"W	8306.16	167.432	0.30	-0.29	-0.10	
15534.00	90.490	161.750	6516.57	8352.23	-8197.33	1837.23	1689376.89	14218406.76	39°09'17.8643"N	80°49'38.2385"W	8400.69	167.367	0.20	0.19	0.05	
15629.00	90.280	161.720	6515.93	8447.22	-8287.54	1867.01	1689406.65	14218316.59	39°09'16.9721"N	80°49'37.8627"W	8495.24	167.304	0.22	-0.22	-0.03	
15723.00	90.520	161.660	6515.27	8541.22	-8376.78	1896.54	1689436.17	14218227.39	39°09'16.0895"N	80°49'37.4900"W	8588.79	167.243	0.26	0.26	-0.06	
15818.00	90.370	161.560	6514.53	8636.21	-8466.93	1926.51	1689466.13	14218137.28	39°09'15.1980"N	80°49'37.1118"W	8683.33	167.182	0.19	-0.16	-0.11	
15912.00	90.370	161.760	6513.93	8730.21	-8556.15	1956.08	1689495.69	14218048.09	39°09'14.3155"N	80°49'36.7385"W	8776.90	167.123	0.21	0.00	0.21	
16006.00	90.400	161.570	6513.29	8824.20	-8645.38	1985.65	1689525.25	14217958.90	39°09'13.4331"N	80°49'36.3653"W	8870.48	167.065	0.20	0.03	-0.20	
16101.00	90.400	161.710	6512.63	8919.20	-8735.54	2015.58	1689555.16	14217868.77	39°09'12.5413"N	80°49'35.9876"W	8965.05	167.007	0.15	0.00	0.15	
16196.00	90.280	161.710	6512.07	9014.19	-8825.74	2045.39	1689584.96	14217778.61	39°09'11.6493"N	80°49'35.6114"W	9059.65	166.952	0.13	-0.13	0.00	
16290.00	90.520	161.660	6511.41	9108.19	-8914.97	2074.93	1689614.49	14217689.41	39°09'10.7667"N	80°49'35.2386"W	9153.25	166.898	0.26	0.26	-0.05	





# Actual Wellpath Report

Shotter Unit 1H AWP Proj: 17758'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Shotter Unit 1H
Field	Doddridge	API	47-017-06945-0000
Facility	Locke Pad	Wellbore	Shotter Unit 1H AWB
Slot	Slot C		

WELLPATH DATA (196 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
16385.00	90.400	161.690	6510.65	9203.18	-9005.15	2104.79	1689644.34	14217599.27	39°09'9.8748"N	80°49'34.8617"W	9247.86	166.844	0.13	-0.13	0.03	
16479.00	90.490	161.550	6509.92	9297.18	-9094.35	2134.43	1689673.97	14217510.10	39°09'8.9926"N	80°49'34.4876"W	9341.47	166.792	0.18	0.10	-0.15	
16574.00	90.220	161.340	6509.33	9392.17	-9184.41	2164.66	1689704.19	14217420.08	39°09'8.1019"N	80°49'34.1061"W	9436.06	166.738	0.36	-0.28	-0.22	
16669.00	90.490	161.720	6508.74	9487.17	-9274.52	2194.76	1689734.27	14217330.01	39°09'7.2107"N	80°49'33.7262"W	9530.67	166.686	0.49	0.28	0.40	
16763.00	90.220	161.520	6508.16	9581.17	-9363.72	2224.40	1689763.90	14217240.84	39°09'6.3285"N	80°49'33.3522"W	9624.30	166.637	0.36	-0.29	-0.21	
16858.00	90.280	161.600	6507.74	9676.16	-9453.84	2254.45	1689793.94	14217150.75	39°09'5.4371"N	80°49'32.9729"W	9718.93	166.587	0.11	0.06	0.08	
16953.00	90.650	162.020	6506.97	9771.15	-9544.09	2284.10	1689823.58	14217060.54	39°09'4.5446"N	80°49'32.5987"W	9813.60	166.541	0.59	0.39	0.44	
17047.00	90.180	161.720	6506.29	9865.15	-9633.42	2313.35	1689852.82	14216971.25	39°09'3.6611"N	80°49'32.2296"W	9907.29	166.497	0.59	-0.50	-0.32	
17142.00	90.490	161.670	6505.74	9960.14	-9723.61	2343.19	1689882.64	14216881.09	39°09'2.7691"N	80°49'31.8531"W	10001.96	166.451	0.33	0.33	-0.05	
17236.00	90.340	161.550	6505.06	10054.14	-9812.81	2372.84	1689912.29	14216791.93	39°09'1.8869"N	80°49'31.4788"W	10095.62	166.406	0.20	-0.16	-0.13	
17331.00	90.580	162.090	6504.29	10149.13	-9903.06	2402.48	1689941.91	14216701.71	39°09'0.9942"N	80°49'31.1048"W	10190.32	166.363	0.62	0.25	0.57	
17425.00	90.340	161.580	6503.54	10243.12	-9992.38	2431.79	1689971.21	14216612.43	39°09'0.1109"N	80°49'30.7350"W	10284.03	166.322	0.60	-0.26	-0.54	
17614.00	90.580	161.760	6502.02	10432.10	-10171.78	2491.22	1690030.62	14216433.10	39°08'58.3366"N	80°49'29.9850"W	10472.41	166.238	0.16	0.13	0.10	
17709.00	90.520	161.800	6501.11	10527.10	-10262.01	2520.93	1690060.31	14216342.91	39°08'57.4441"N	80°49'29.6102"W	10567.12	166.198	0.08	-0.06	0.04	
17733.00	90.620	161.840	6500.87	10551.09	-10284.81	2528.41	1690067.79	14216320.11	39°08'57.2186"N	80°49'29.5157"W	10591.05	166.188	0.45	0.42	0.17	
17758.00‡	90.620	161.840	6500.60	10576.09	-10308.57	2536.20	1690075.58	14216296.37	39°08'56.9837"N	80°49'29.4174"W	10615.97	166.178	0.00	0.00	0.00	Projected MD at TD: 17758'

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# Actual Wellpath Report

Shotter Unit 1H AWP Proj: 17758'  
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### REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Shotter Unit 1H
Field	Doddridge	API	47-017-06945-0000
Facility	Locke Pad	Wellbore	Shotter Unit 1H AWB
Slot	Slot C		

### HOLE & CASING SECTIONS - Ref Wellbore: Shotter Unit 1H AWB Ref Wellpath: Shotter Unit 1H AWP Proj: 17758'

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	0.30	-0.37
17.5in Open Hole	130.00	457.00	327.00	130.00	457.00	0.30	-0.37	0.16	-1.65
13.375in Casing Surface	30.00	437.00	407.00	30.00	437.00	0.00	0.00	0.18	-1.61
12.25in Open Hole	457.00	2910.00	2453.00	457.00	2868.96	0.16	-1.65	189.60	-360.62
9.625in Casing Intermediate	30.00	2880.00	2850.00	30.00	2839.75	0.00	0.00	186.01	-354.80
8.75in Open Hole	2910.00	5830.00	2920.00	2868.96	5694.84	189.60	-360.62	504.00	-1022.94
8.5in Open Hole	5830.00	17758.00	11928.00	5694.84	6500.60	504.00	-1022.94	-10308.57	2536.20
5.5in Casing Production	30.00	17738.00	17708.00	30.00	6500.82	0.00	0.00	-10289.57	2529.97

### TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Shotter Unit 1H POE Rev-2	6505.00	-0.99	-970.26	1686570.52	14226599.83	39°10'38.9276"N	80°50'13.6906"W	point
Shotter Unit 1H LP Rev-2	6532.00	-181.89	-908.72	1686632.03	14226419.00	39°10'37.1385"N	80°50'12.9133"W	point
Shotter Unit 1H BHL Rev-2	6587.45	-10208.27	2501.84	1690041.23	14216396.63	39°08'57.9757"N	80°49'29.8511"W	point
Shotter Unit 1H 50' L/R Hard Line	7000.00	-5104.63	765.79	1688305.88	14221498.23	39°09'48.4523"N	80°49'51.7665"W	rectangle
2D Rectangle 10781.6 x 100.								

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# Actual Wellpath Report

Shotter Unit 1H AWP Proj: 17758'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Shotter Unit 1H
Field	Doddridge	API	47-017-06945-0000
Facility	Locke Pad	Wellbore	Shotter Unit 1H AWB
Slot	Slot C		

WELLPATH COMPOSITION - Ref Wellbore: Shotter Unit 1H AWB Ref Wellpath: Shotter Unit 1H AWP Proj: 17758'					
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
30.00	438.00	Gyrodatta 2015 - GC+WIR+DPIPE	01 Gyrodatta MS Gyro <17-1/2"> (100'-438')	Shotter Unit 1H AWB	4/8/2023
438.00	2838.00	BH NaviTrak (2019) (Axial Corr+HRGM)	02 APS EM <12-1/4"> (438')(562'-2838')	Shotter Unit 1H AWB	4/8/2023
2838.00	5751.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03 APS EM <8-3/4"> (2838')(2936'-5751')	Shotter Unit 1H AWB	5/3/2023
5751.00	17758.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	04 BH AT Curve <8-1/2"> (5751')(5797'-17733')	Shotter Unit 1H AWB	5/3/2023

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# Actual Wellpath Report

Shotter Unit 1H AWP Proj: 17758'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Shotter Unit 1H
Field	Doddridge	API	47-017-06945-0000
Facility	Locke Pad	Wellbore	Shotter Unit 1H AWP
Slot	Slot C		

COMMENTS
<p><b>Wellpath general comments</b>            API: 47-017-06945-0000            BH Job #: 111750210            Rig: H&amp;P 531            Duration: 5/5/2023-5/8/2023            Gyrodata MS Gyro &lt;17-1/2"&gt; (100'-438')            APS EM &lt;12-1/4"&gt; (438')(562'-2838')            APS EM &lt;8-3/4"&gt; (2838')(2936'-5751')            BH AT Curve &lt;8-1/2"&gt; (5751')(5797'-17733')            Sycamore: 6287' MD            Middlesex: 6507' MD            Burkett: 6699' MD            Tully: 6806' MD            Marcellus POE: 6894' MD            Projected MD at TD: 17758'</p>

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