



ANTERO RESOURCES CORPORATION

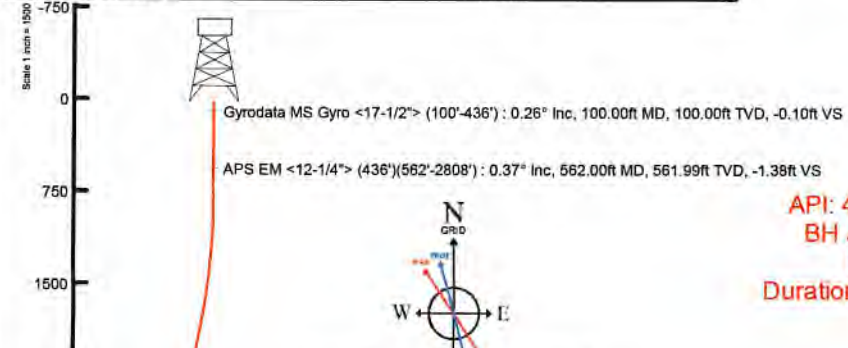
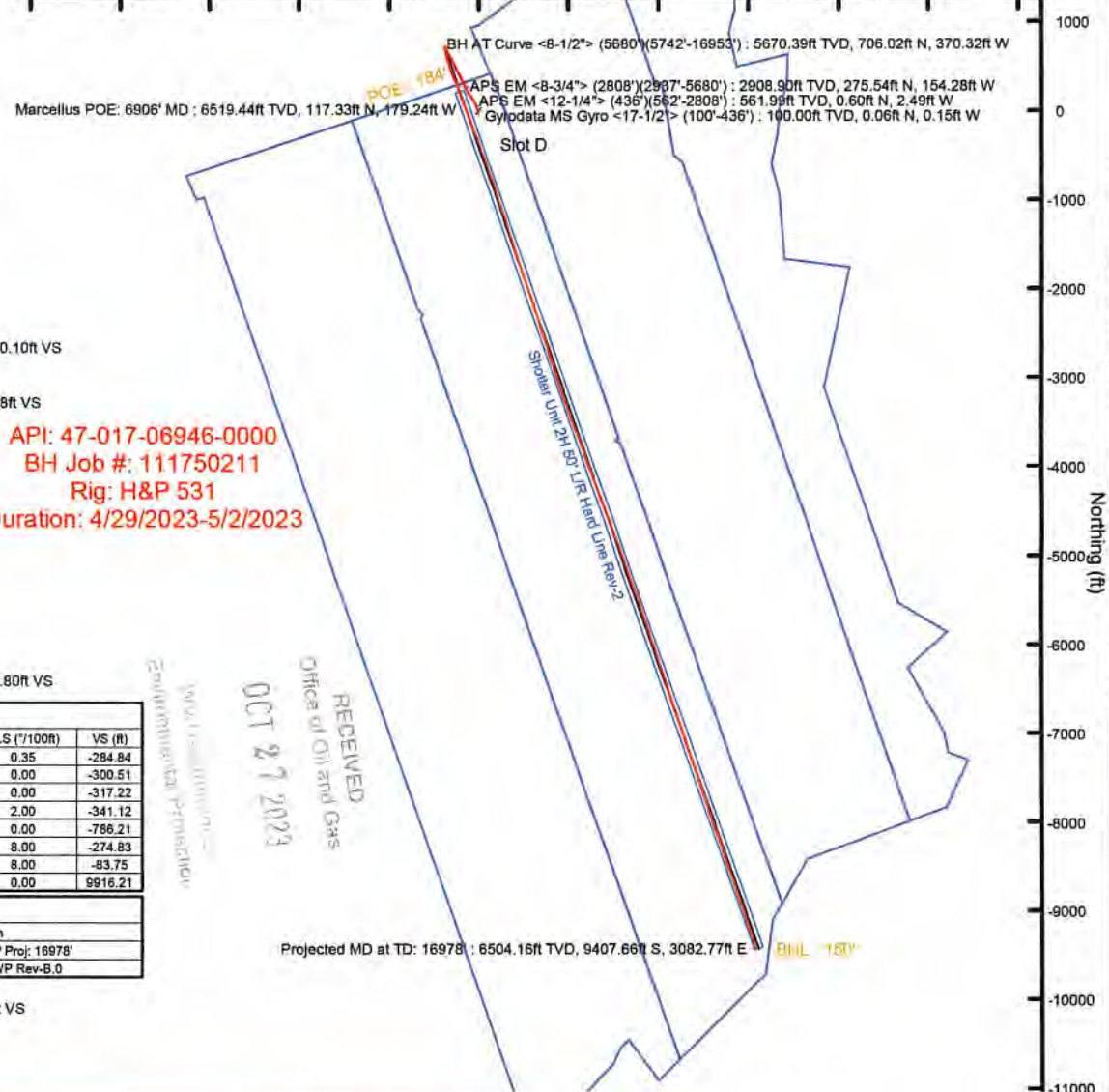
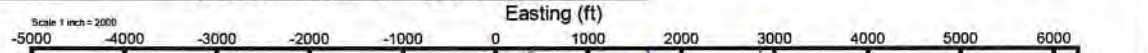
Location: Doddridge Co., WV
 Field: Doddridge
 Facility: Locke Pad

Slot: Slot D
 Well: Shoter Unit 2H
 Wellbore: Shoter Unit 2H PWB



Plot reference wellpath is Shoter Unit 2H PWB 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 D): -1100 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's default MD datum	Created by: anteryar on 2023-05-30; Database: WA_MPL_EASTERNUS; Dets:

Location Information					
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	
Locke Pad	1687522.330	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)	Latitude
Slot D	35.46	27.49	1687549.810	14226612.990	39°10'39.0400"N
Comment	Shoter Unit 2H				
H&P 531 (RKB) to Ground level (At Slot: Slot D)	30ft				
Mean Sea Level to Ground level (At Slot: Slot D)	-1100ft				
H&P 531 (RKB) to Mean Sea Level	1130ft				



API: 47-017-06946-0000
 BH Job #: 111750211
 Rig: H&P 531
 Duration: 4/29/2023-5/2/2023

User specified (HDGM) Dip: 65.80° Field: 51387 nT
 Magnetic North is 7.43 degrees West of True North (at 4/28/2023)
 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

Well Profile Data								
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	2808.00	12.200	332.220	2782.63	252.51	-141.42	0.35	-284.84
Pro. to Bottom	2883.00	12.200	332.220	2855.94	266.53	-148.81	0.00	-300.51
Drill Out	2963.00	12.200	332.220	2934.13	281.49	-156.69	0.00	-317.22
End of 3D Arc	3090.29	9.671	333.774	3059.10	302.99	-167.69	2.00	-341.12
Curve KOP	5780.68	9.671	333.774	5691.53	705.40	-365.93	0.00	-786.21
POE	6808.33	74.215	160.950	6500.00	217.83	-211.77	8.00	-274.83
Landing Pt.	7001.90	89.700	160.950	6527.00	37.01	-149.41	8.00	-83.75
BHL	17002.00	89.700	180.950	6579.36	-9415.32	3114.43	0.00	9916.21

Well Data			
Slot	Well	Wellbore	Wellpath
Slot D	Shoter Unit 2H	Shoter Unit 2H AWB	Shoter Unit 2H AWP Proj: 16978'
Slot D	Shoter Unit 2H	Shoter Unit 2H PWB	Shoter Unit 2H PWB Rev-B.0

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Vertical Section (ft)
 Azimuth 160.95° with reference 0.00 N, 0.00 E

Scale 1 inch = 1500



Actual Wellpath Report

Shotter Unit 2H AWP Proj: 16978'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Shotter Unit 2H
Field	Doddridge	API	47-017-06946-0000
Facility	Locke Pad	Wellbore	Shotter Unit 2H AWB
Slot	Slot D		

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 3:47:13 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	35.46	27.49	1687549.81	14226612.98	39°10'39.0400"N	80°50'1.2500"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 D)	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	160.95°

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REFERENCE WELLPATH IDENTIFICATION			
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Field	Doddridge	API	47-017-06946-0000
Facility	Locke Pad	Wellbore	Shotter Unit 2H AWP
Slot	Slot D		

WELLPATH DATA (186 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	292.290	0.00	0.00	0.00	0.00	1687549.81	14226612.98	39°10'39.0400"N	80°50'1.2500"W	0.00	0.000	0.00	0.00	0.00	
30.00	0.000	292.290	30.00	0.00	0.00	0.00	1687549.81	14226612.98	39°10'39.0400"N	80°50'1.2500"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.260	292.290	100.00	-0.10	0.06	-0.15	1687549.66	14226613.04	39°10'39.0406"N	80°50'1.2519"W	0.16	292.290	0.37	0.37	0.00	Gyrodata MS Gyro <17-1/2"> (100'-436')
200.00	0.310	244.170	200.00	-0.22	0.03	-0.60	1687549.21	14226613.01	39°10'39.0403"N	80°50'1.2576"W	0.60	272.711	0.24	0.05	-48.12	
300.00	0.250	265.910	300.00	-0.25	-0.10	-1.06	1687548.75	14226612.88	39°10'39.0390"N	80°50'1.2635"W	1.07	264.351	0.12	-0.06	21.74	
400.00	0.400	281.800	400.00	-0.48	-0.05	-1.62	1687548.19	14226612.93	39°10'39.0396"N	80°50'1.2706"W	1.62	268.262	0.17	0.15	15.89	
436.00	0.420	297.640	435.99	-0.64	0.04	-1.86	1687547.95	14226613.02	39°10'39.0404"N	80°50'1.2737"W	1.86	271.162	0.32	0.06	44.00	
562.00	0.370	327.830	561.99	-1.38	0.60	-2.49	1687547.32	14226613.58	39°10'39.0460"N	80°50'1.2816"W	2.56	283.487	0.17	-0.04	23.96	APS EM <12-1/4"> (436')(562'-2808')
652.00	0.500	279.580	651.99	-1.85	0.91	-3.03	1687546.78	14226613.89	39°10'39.0491"N	80°50'1.2885"W	3.16	286.685	0.42	0.14	-53.61	
743.00	0.860	45.800	742.99	-2.33	1.45	-2.93	1687546.88	14226614.43	39°10'39.0544"N	80°50'1.2872"W	3.27	296.326	1.34	0.40	138.70	
833.00	0.120	352.670	832.98	-2.71	2.01	-2.46	1687547.35	14226614.99	39°10'39.0600"N	80°50'1.2812"W	3.18	309.333	0.88	-0.82	-59.03	
924.00	0.330	329.030	923.98	-3.06	2.33	-2.61	1687547.21	14226615.31	39°10'39.0631"N	80°50'1.2831"W	3.50	311.852	0.25	0.23	-25.98	
1019.00	0.800	327.460	1018.98	-3.97	3.13	-3.10	1687546.71	14226616.11	39°10'39.0710"N	80°50'1.2893"W	4.41	315.226	0.49	0.49	-1.65	
1114.00	2.860	337.580	1113.92	-6.98	5.88	-4.36	1687545.45	14226618.86	39°10'39.0982"N	80°50'1.3053"W	7.32	323.410	2.19	2.17	10.65	
1208.00	4.700	338.910	1207.72	-13.17	11.64	-6.64	1687543.17	14226624.61	39°10'39.1552"N	80°50'1.3341"W	13.40	330.281	1.96	1.96	1.41	
1303.00	6.150	340.790	1302.29	-22.15	20.08	-9.72	1687540.10	14226633.05	39°10'39.2386"N	80°50'1.3730"W	22.30	334.169	1.54	1.53	1.98	
1397.00	6.620	337.960	1395.70	-32.60	29.85	-13.41	1687536.41	14226642.82	39°10'39.3353"N	80°50'1.4196"W	32.73	335.813	0.60	0.50	-3.01	
1492.00	8.320	337.330	1489.89	-44.92	41.27	-18.11	1687531.70	14226654.24	39°10'39.4483"N	80°50'1.4791"W	45.07	336.305	1.79	1.79	-0.66	
1587.00	8.800	334.850	1583.84	-59.01	54.19	-23.85	1687525.97	14226667.15	39°10'39.5761"N	80°50'1.5516"W	59.21	336.245	0.64	0.51	-2.61	
1681.00	9.810	335.030	1676.60	-74.12	67.96	-30.29	1687519.53	14226680.91	39°10'39.7123"N	80°50'1.6330"W	74.40	335.980	1.07	1.07	0.19	
1776.00	9.370	332.050	1770.27	-89.82	82.13	-37.33	1687512.50	14226695.08	39°10'39.8525"N	80°50'1.7221"W	90.21	335.558	0.70	-0.46	-3.14	
1871.00	9.980	329.170	1863.92	-105.51	96.03	-45.17	1687504.66	14226708.97	39°10'39.9900"N	80°50'1.8214"W	106.12	334.808	0.82	0.64	-3.03	
1966.00	10.690	327.300	1957.38	-122.14	110.51	-54.15	1687495.68	14226723.45	39°10'40.1333"N	80°50'1.9351"W	123.07	333.895	0.83	0.75	-1.97	
2060.00	11.140	323.720	2049.68	-139.28	125.17	-64.23	1687485.60	14226738.10	39°10'40.2784"N	80°50'2.0628"W	140.69	332.834	0.87	0.48	-3.81	
2155.00	10.760	325.240	2142.95	-156.58	139.85	-74.72	1687475.12	14226752.78	39°10'40.4237"N	80°50'2.1956"W	158.56	331.885	0.50	-0.40	1.60	
2249.00	11.430	327.260	2235.19	-174.08	154.90	-84.76	1687465.08	14226767.82	39°10'40.5726"N	80°50'2.3227"W	176.57	331.312	0.82	0.71	2.15	
2344.00	12.620	324.480	2328.11	-193.18	171.26	-95.88	1687453.97	14226784.17	39°10'40.7345"N	80°50'2.4636"W	196.28	330.758	1.39	1.25	-2.93	
2439.00	11.290	328.530	2421.05	-212.21	187.64	-106.77	1687443.09	14226800.55	39°10'40.8966"N	80°50'2.6014"W	215.89	330.360	1.65	-1.40	4.26	
2534.00	10.840	332.520	2514.28	-230.13	203.50	-115.74	1687434.11	14226816.40	39°10'41.0535"N	80°50'2.7150"W	234.11	330.370	0.93	-0.47	4.20	
2628.00	11.560	332.160	2606.49	-248.18	219.67	-124.22	1687425.64	14226832.56	39°10'41.2135"N	80°50'2.8223"W	252.36	330.512	0.77	0.77	-0.38	

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Shotter Unit 2H AWP Proj: 16978'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Shotter Unit 2H
Field	Doddridge	API	47-017-06946-0000
Facility	Locke Pad	Wellbore	Shotter Unit 2H AWB
Slot	Slot D		

WELLPATH DATA (186 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	11.910	332.520	2699.50	-267.29	236.78	-133.19	1687416.67	14226849.67	39°10'41.3828"N	80°50'2.9358"W	271.67	330.642	0.38	0.37	0.38	
2808.00	12.200	332.220	2782.63	-284.84	252.51	-141.42	1687408.44	14226865.39	39°10'41.5384"N	80°50'3.0400"W	289.42	330.748	0.35	0.34	-0.35	
2937.00	11.400	329.340	2908.90	-310.80	275.54	-154.28	1687395.59	14226888.41	39°10'41.7662"N	80°50'3.2027"W	315.79	330.755	0.77	-0.62	-2.23	APS EM <8-3/4"> (2808')(2937'-5680')
3031.00	11.090	325.350	3001.10	-328.61	290.97	-164.16	1687385.72	14226903.83	39°10'41.9189"N	80°50'3.3278"W	334.08	330.569	0.89	-0.33	-4.24	
3126.00	11.900	331.920	3094.20	-347.08	307.13	-173.96	1687375.92	14226919.98	39°10'42.0788"N	80°50'3.4519"W	352.97	330.472	1.62	0.85	6.92	
3221.00	13.140	341.540	3186.95	-367.56	326.01	-181.99	1687367.89	14226938.86	39°10'42.2656"N	80°50'3.5534"W	373.37	330.828	2.55	1.31	10.13	
3315.00	13.420	339.190	3278.43	-389.15	346.34	-189.25	1687360.64	14226959.19	39°10'42.4667"N	80°50'3.6451"W	394.68	331.347	0.65	0.30	-2.50	
3410.00	13.510	337.060	3370.82	-411.24	366.87	-197.49	1687352.40	14226979.70	39°10'42.6697"N	80°50'3.7493"W	416.65	331.706	0.53	0.09	-2.24	
3504.00	12.460	335.380	3462.42	-432.28	386.20	-206.00	1687343.90	14226999.02	39°10'42.8609"N	80°50'3.8569"W	437.70	331.925	1.19	-1.12	-1.79	
3599.00	11.780	334.430	3555.30	-452.12	404.26	-214.45	1687335.44	14227017.08	39°10'43.0396"N	80°50'3.9638"W	457.62	332.055	0.75	-0.72	-1.00	
3694.00	11.440	331.420	3648.36	-471.05	421.28	-223.14	1687326.75	14227034.10	39°10'43.2080"N	80°50'4.0738"W	476.73	332.091	0.73	-0.36	-3.17	
3788.00	11.260	329.200	3740.52	-489.22	437.35	-232.30	1687317.60	14227050.16	39°10'43.3670"N	80°50'4.1897"W	495.22	332.025	0.50	-0.19	-2.36	
3883.00	9.380	329.240	3833.98	-505.89	451.97	-241.01	1687308.89	14227064.77	39°10'43.5117"N	80°50'4.3000"W	512.22	331.932	1.98	-1.98	0.04	
3977.00	7.910	328.240	3926.91	-519.70	464.06	-248.34	1687301.57	14227076.85	39°10'43.6312"N	80°50'4.3927"W	526.33	331.847	1.57	-1.56	-1.06	
4072.00	7.390	324.780	4021.06	-531.94	474.61	-255.30	1687294.61	14227087.40	39°10'43.7356"N	80°50'4.4809"W	538.91	331.723	0.73	-0.55	-3.64	
4166.00	7.560	336.140	4114.27	-543.91	485.20	-261.29	1687288.63	14227097.99	39°10'43.8404"N	80°50'4.5667"W	551.08	331.697	1.58	0.18	12.09	
4261.00	7.850	346.490	4208.42	-556.60	497.22	-265.33	1687284.58	14227110.01	39°10'43.9593"N	80°50'4.6078"W	563.59	331.915	1.49	0.31	10.89	
4355.00	7.510	339.870	4301.57	-569.13	509.23	-268.94	1687280.97	14227122.01	39°10'44.0781"N	80°50'4.6534"W	575.89	332.160	1.01	-0.36	-7.04	
4451.00	6.490	339.330	4396.86	-580.82	520.20	-273.02	1687276.90	14227132.97	39°10'44.1866"N	80°50'4.7048"W	587.49	332.308	1.06	-1.06	-0.56	
4546.00	8.090	336.530	4491.09	-592.86	531.36	-277.58	1687272.34	14227144.12	39°10'44.2969"N	80°50'4.7625"W	599.49	332.418	1.72	1.68	-2.95	
4640.00	8.990	334.610	4584.04	-606.75	544.06	-283.36	1687266.56	14227156.82	39°10'44.4226"N	80°50'4.8356"W	613.43	332.488	1.00	0.96	-2.04	
4735.00	8.450	329.790	4677.95	-620.97	556.80	-290.06	1687259.87	14227169.55	39°10'44.5486"N	80°50'4.9203"W	627.82	332.483	0.96	-0.57	-5.07	
4830.00	9.380	330.740	4771.80	-635.44	569.58	-297.35	1687252.58	14227182.34	39°10'44.6751"N	80°50'5.0127"W	642.53	332.433	0.99	0.98	1.00	
4924.00	10.330	332.720	4864.41	-651.32	583.76	-304.96	1687244.97	14227196.50	39°10'44.8153"N	80°50'5.1090"W	658.61	332.417	1.07	1.01	2.11	
5019.00	9.260	327.550	4958.03	-667.19	597.78	-312.96	1687236.97	14227210.52	39°10'44.9541"N	80°50'5.2103"W	674.75	332.366	1.46	-1.13	-5.44	
5113.00	9.480	327.800	5050.77	-682.08	610.71	-321.15	1687228.79	14227223.45	39°10'45.0820"N	80°50'5.3139"W	690.00	332.262	0.24	0.23	0.27	
5207.00	11.760	334.540	5143.16	-699.14	625.91	-329.39	1687220.55	14227238.64	39°10'45.2324"N	80°50'5.4182"W	707.29	332.244	2.76	2.43	7.17	
5301.00	11.070	330.830	5235.30	-717.55	642.44	-337.91	1687212.04	14227255.16	39°10'45.3960"N	80°50'5.5260"W	725.89	332.257	1.07	-0.73	-3.95	
5396.00	10.380	326.400	5328.64	-734.81	657.53	-347.09	1687202.86	14227270.25	39°10'45.5453"N	80°50'5.6423"W	743.52	332.172	1.13	-0.73	-4.66	
5491.00	9.360	338.910	5422.25	-750.82	671.87	-354.61	1687195.35	14227284.58	39°10'45.6871"N	80°50'5.7374"W	759.71	332.175	2.49	-1.07	13.17	

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Field	Doddridge		API	47-017-06946-0000
Facility	Locke Pad		Wellbore	Shotter Unit 2H AWB
Slot	Slot D			

WELLPATH DATA (186 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
5585.00	9.210	337.550	5515.01	-765.97	685.96	-360.23	1687189.72	14227298.66	39°10'45.8265"N	80°50'5.8085"W	774.79	332.294	0.28	-0.16	-1.45	
5680.00	8.030	332.720	5608.94	-780.12	698.88	-366.17	1687183.78	14227311.58	39°10'45.9543"N	80°50'5.8837"W	789.00	332.348	1.46	-1.24	-5.06	
5742.00	7.290	326.670	5670.39	-788.22	706.02	-370.32	1687179.64	14227318.71	39°10'46.0249"N	80°50'5.9361"W	797.24	332.322	1.76	-1.19	-9.78	BH AT Curve <8-1/2"> (5680')(5742'-16953')
5797.00	2.520	305.000	5725.17	-792.58	709.63	-373.23	1687176.73	14227322.32	39°10'46.0607"N	80°50'5.9730"W	801.79	332.258	9.15	-8.67	-39.40	
5891.00	7.160	165.620	5818.96	-788.41	705.13	-373.47	1687176.49	14227317.83	39°10'46.0162"N	80°50'5.9761"W	797.93	332.092	9.81	-4.94	-148.28	
5985.00	11.300	175.380	5911.73	-773.64	690.27	-371.27	1687178.69	14227302.97	39°10'45.8693"N	80°50'5.9486"W	783.78	331.726	4.69	4.40	10.38	
6080.00	17.800	174.230	6003.64	-750.47	666.52	-369.06	1687180.90	14227279.23	39°10'45.6345"N	80°50'5.9210"W	761.87	331.026	6.85	6.84	-1.21	
6175.00	21.750	169.530	6093.02	-718.92	634.75	-364.40	1687185.56	14227247.47	39°10'45.3204"N	80°50'5.8626"W	731.91	330.141	4.48	4.16	-4.95	
6226.00†	25.352	167.852	6139.77	-698.73	614.77	-360.38	1687189.57	14227227.51	39°10'45.1229"N	80°50'5.8120"W	712.62	329.621	7.18	7.06	-3.29	Sycamore: 6226' MD
6269.00	28.400	166.750	6178.12	-679.42	595.82	-356.10	1687193.85	14227208.56	39°10'44.9355"N	80°50'5.7581"W	694.12	329.135	7.18	7.09	-2.56	
6364.00	37.400	161.610	6257.82	-627.97	546.34	-341.79	1687208.16	14227159.10	39°10'44.4462"N	80°50'5.5775"W	644.44	327.970	9.91	9.47	-5.41	
6454.00†	43.863	161.090	6326.08	-569.40	490.84	-323.04	1687226.90	14227103.63	39°10'43.8973"N	80°50'5.3407"W	587.61	326.650	7.19	7.18	-0.58	Middlesex: 6454' MD
6458.00	44.150	161.070	6328.96	-566.62	488.21	-322.14	1687227.80	14227101.00	39°10'43.8713"N	80°50'5.3293"W	584.92	326.582	7.19	7.18	-0.50	
6553.00	53.970	158.760	6391.14	-494.97	420.94	-297.43	1687252.50	14227033.76	39°10'43.2060"N	80°50'5.0171"W	515.42	324.756	10.50	10.34	-2.43	
6645.00†	62.407	158.986	6439.59	-416.91	348.08	-269.28	1687280.64	14226960.92	39°10'42.4853"N	80°50'4.6614"W	440.08	322.274	9.17	9.17	0.25	Burkett: 6645' MD
6647.00	62.590	158.990	6440.51	-415.14	346.43	-268.64	1687281.27	14226959.27	39°10'42.4689"N	80°50'4.6533"W	438.38	322.207	9.17	9.17	0.22	
6741.00	72.160	159.380	6476.63	-328.51	265.41	-237.86	1687312.05	14226878.29	39°10'41.6677"N	80°50'4.2642"W	356.40	318.134	10.19	10.18	0.41	
6798.00†	73.952	158.239	6493.25	-274.03	214.58	-218.15	1687331.75	14226827.47	39°10'41.1649"N	80°50'4.0151"W	305.99	314.528	3.68	3.14	-2.00	Tully: 6798' MD
6836.00	75.150	157.490	6503.37	-237.46	180.65	-204.35	1687345.55	14226793.56	39°10'40.8293"N	80°50'3.8407"W	272.75	311.479	3.68	3.15	-1.97	
6906.00†	78.306	159.240	6519.44	-169.41	117.33	-179.24	1687370.65	14226730.26	39°10'40.2030"N	80°50'3.5233"W	214.22	303.209	5.12	4.51	2.50	Marcellus POE: 6906' MD
6930.00	79.390	159.830	6524.08	-145.87	95.27	-171.00	1687378.87	14226708.21	39°10'39.9848"N	80°50'3.4193"W	195.75	299.123	5.12	4.52	2.46	
7025.00	83.120	158.720	6538.52	-52.03	7.47	-137.78	1687412.09	14226620.45	39°10'39.1164"N	80°50'2.9994"W	137.98	273.103	4.09	3.93	-1.17	
7119.00	89.140	159.310	6544.86	41.66	-80.06	-104.21	1687445.64	14226532.96	39°10'38.2507"N	80°50'2.6751"W	131.41	232.468	6.43	6.40	0.63	
7214.00	89.910	158.890	6545.65	136.60	-168.80	-70.32	1687479.52	14226444.25	39°10'37.3729"N	80°50'2.1469"W	182.86	202.616	0.92	0.81	-0.44	
7308.00	89.850	158.680	6545.85	230.54	-256.43	-36.30	1687513.52	14226356.65	39°10'36.5062"N	80°50'1.7170"W	258.99	188.058	0.23	-0.06	-0.22	
7402.00	90.220	160.620	6545.79	324.51	-344.56	-3.62	1687546.19	14226268.56	39°10'35.6345"N	80°50'1.3040"W	344.58	180.601	2.10	0.39	2.06	
7496.00	90.000	160.790	6545.61	418.51	-433.28	27.44	1687577.24	14226179.87	39°10'34.7571"N	80°50'0.9116"W	434.15	176.376	0.30	-0.23	0.18	
7591.00	89.970	160.510	6545.63	513.51	-522.91	58.92	1687608.71	14226090.28	39°10'33.8706"N	80°50'0.5140"W	526.22	173.571	0.30	-0.03	-0.29	
7685.00	90.000	160.500	6545.66	607.50	-611.52	90.29	1687640.06	14226001.70	39°10'32.9942"N	80°50'0.1178"W	618.15	171.601	0.03	0.03	-0.01	
7780.00	87.660	157.940	6547.60	702.43	-700.31	123.98	1687673.74	14225912.95	39°10'32.1160"N	80°49'59.6920"W	711.20	169.960	3.65	-2.46	-2.69	

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Actual Wellpath Report

Shoter Unit 2H AWP Proj: 16978'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Shoter Unit 2H
Field	Doddridge	API	47-017-06946-0000
Facility	Locke Pad	Wellbore	Shoter Unit 2H AWB
Slot	Slot D		

WELLPATH DATA (186 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
7874.00	88.150	162.150	6551.04	796.33	-788.59	156.03	1687705.78	14225824.71	39°10'31.2429"N	80°49'59.2871"W	803.88	168.808	4.51	0.52	4.48	
8063.00	90.220	162.150	6553.72	985.26	-968.46	213.96	1687763.68	14225644.90	39°10'29.4640"N	80°49'58.5558"W	991.82	167.542	1.10	1.10	0.00	
8158.00	89.880	161.990	6553.64	1080.24	-1058.85	243.20	1687792.92	14225554.55	39°10'28.5701"N	80°49'58.1865"W	1086.42	167.064	0.40	-0.36	-0.17	
8252.00	89.080	160.400	6554.49	1174.23	-1147.82	273.50	1687823.20	14225465.61	39°10'27.6901"N	80°49'57.8039"W	1179.96	166.598	1.89	-0.85	-1.69	
8347.00	90.150	161.020	6555.13	1269.23	-1237.49	304.88	1687854.57	14225375.99	39°10'26.8033"N	80°49'57.4075"W	1274.49	166.159	1.30	1.13	0.65	
8441.00	91.750	164.050	6553.57	1363.16	-1327.13	333.09	1687882.76	14225286.38	39°10'25.9168"N	80°49'57.0515"W	1368.29	165.911	3.64	1.70	3.22	
8536.00	91.420	160.930	6550.95	1458.08	-1417.68	361.66	1687911.32	14225195.87	39°10'25.0212"N	80°49'56.6909"W	1463.08	165.689	3.30	-0.35	-3.28	
8631.00	89.720	161.740	6550.00	1553.07	-1507.68	392.06	1687941.71	14225105.91	39°10'24.1312"N	80°49'56.3070"W	1557.82	165.424	1.98	-1.79	0.85	
8726.00	90.310	161.730	6549.98	1648.06	-1597.89	421.83	1687971.47	14225015.73	39°10'23.2390"N	80°49'55.9311"W	1652.63	165.212	0.62	0.62	-0.01	
8820.00	89.940	161.650	6549.77	1742.05	-1687.13	451.36	1688000.99	14224926.53	39°10'22.3564"N	80°49'55.5582"W	1746.46	165.022	0.40	-0.39	-0.09	
8915.00	90.580	163.630	6549.34	1837.01	-1777.80	479.71	1688029.32	14224835.89	39°10'21.4597"N	80°49'55.2004"W	1841.38	164.899	2.19	0.67	2.08	
9009.00	91.720	161.060	6547.45	1930.95	-1867.34	508.20	1688057.81	14224746.38	39°10'20.5742"N	80°49'54.8407"W	1935.26	164.775	2.99	1.21	-2.73	
9104.00	89.880	160.760	6546.13	2025.94	-1957.10	539.27	1688088.87	14224656.66	39°10'19.6864"N	80°49'54.4483"W	2030.04	164.595	1.96	-1.94	-0.32	
9198.00	90.460	162.610	6545.85	2119.92	-2046.34	568.81	1688118.39	14224567.46	39°10'18.8039"N	80°49'54.0754"W	2123.92	164.466	2.06	0.62	1.97	
9293.00	89.970	161.270	6545.49	2214.91	-2136.65	598.26	1688147.83	14224477.18	39°10'17.9106"N	80°49'53.7036"W	2218.83	164.358	1.50	-0.52	-1.41	
9388.00	90.520	161.970	6545.09	2309.90	-2226.81	628.21	1688177.77	14224387.06	39°10'17.0190"N	80°49'53.3254"W	2313.72	164.246	0.94	0.58	0.74	
9482.00	90.460	162.230	6544.28	2403.87	-2316.25	657.10	1688206.65	14224297.65	39°10'16.1344"N	80°49'52.9606"W	2407.66	164.162	0.28	-0.06	0.28	
9577.00	90.490	162.460	6543.49	2498.84	-2406.78	685.91	1688235.45	14224207.17	39°10'15.2392"N	80°49'52.5970"W	2502.61	164.093	0.24	0.03	0.24	
9672.00	90.370	161.200	6542.78	2593.83	-2497.03	715.54	1688265.06	14224116.94	39°10'14.3465"N	80°49'52.2230"W	2597.53	164.010	1.33	-0.13	-1.33	
9766.00	90.740	162.250	6541.87	2687.81	-2586.29	745.01	1688294.52	14224027.73	39°10'13.4638"N	80°49'51.8508"W	2691.45	163.930	1.18	0.39	1.12	
9861.00	90.180	161.950	6541.11	2782.79	-2676.68	774.21	1688323.71	14223937.36	39°10'12.5698"N	80°49'51.4823"W	2786.40	163.868	0.67	-0.59	-0.32	
9956.00	90.090	161.550	6540.88	2877.78	-2766.91	803.96	1688353.45	14223847.18	39°10'11.6775"N	80°49'51.1067"W	2881.34	163.798	0.43	-0.09	-0.42	
10050.00	90.460	161.990	6540.43	2971.77	-2856.19	833.37	1688382.84	14223757.93	39°10'10.7945"N	80°49'50.7354"W	2975.28	163.734	0.61	0.39	0.47	
10144.00	90.490	162.210	6539.65	3065.75	-2945.63	862.26	1688411.72	14223668.52	39°10'9.9099"N	80°49'50.3707"W	3069.24	163.684	0.24	0.03	0.23	
10239.00	90.520	162.370	6538.82	3160.72	-3036.13	891.15	1688440.61	14223578.07	39°10'9.0149"N	80°49'50.0059"W	3164.21	163.642	0.17	0.03	0.17	
10333.00	90.830	161.890	6537.71	3254.69	-3125.59	920.00	1688469.44	14223488.64	39°10'8.1302"N	80°49'49.6419"W	3258.17	163.599	0.61	0.33	-0.51	
10428.00	89.660	160.110	6537.30	3349.68	-3215.40	950.92	1688500.35	14223398.86	39°10'7.2419"N	80°49'49.2513"W	3353.07	163.525	2.24	-1.23	-1.87	
10522.00	91.260	159.280	6536.55	3443.66	-3303.56	983.54	1688532.96	14223310.74	39°10'6.3700"N	80°49'48.8393"W	3446.86	163.421	1.92	1.70	-0.88	
10617.00	89.720	160.140	6535.74	3538.63	-3392.65	1016.48	1688565.89	14223221.68	39°10'5.4887"N	80°49'48.4232"W	3541.66	163.321	1.86	-1.62	0.91	
10711.00	90.890	159.720	6535.23	3632.61	-3480.94	1048.74	1688598.13	14223133.43	39°10'4.6155"N	80°49'48.0157"W	3635.49	163.234	1.32	1.24	-0.45	

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Actual Wellpath Report

Shotter Unit 2H AWP Proj: 16978'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Shotter Unit 2H
Field	Doddridge	API	47-017-06946-0000
Facility	Locke Pad	Wellbore	Shotter Unit 2H AWB
Slot	Slot D		

WELLPATH DATA (186 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
10806.00	90.430	160.120	6534.14	3727.59	-3570.16	1081.35	1688630.73	14223044.24	39°10'3.7331"N	80°49'47.6038"W	3730.33	163.149	0.64	-0.48	0.42	
10901.00	90.430	160.070	6533.43	3822.57	-3659.48	1113.70	1688663.06	14222954.96	39°10'2.8496"N	80°49'47.1952"W	3825.20	163.073	0.05	0.00	-0.05	
10995.00	89.880	159.990	6533.17	3916.56	-3747.83	1145.80	1688695.15	14222866.65	39°10'1.9758"N	80°49'46.7898"W	3919.07	163.000	0.59	-0.59	-0.09	
11090.00	90.950	161.970	6532.48	4011.55	-3837.64	1176.76	1688726.10	14222776.88	39°10'1.0876"N	80°49'46.3988"W	4014.00	162.953	2.37	1.13	2.08	
11185.00	90.180	159.360	6531.55	4106.54	-3927.27	1208.21	1688757.53	14222687.28	39°10'0.2011"N	80°49'46.0017"W	4108.91	162.900	2.86	-0.81	-2.75	
11279.00	90.580	159.880	6530.92	4200.51	-4015.38	1240.94	1688790.25	14222599.20	39°09'59.3296"N	80°49'45.5882"W	4202.76	162.826	0.70	0.43	0.55	
11373.00	90.460	159.710	6530.07	4294.49	-4103.59	1273.40	1688822.71	14222511.03	39°09'58.4571"N	80°49'45.1781"W	4296.63	162.760	0.22	-0.13	-0.18	
11468.00	89.970	160.180	6529.72	4389.47	-4192.83	1305.98	1688855.27	14222421.82	39°09'57.5745"N	80°49'44.7667"W	4391.52	162.699	0.71	-0.52	0.49	
11562.00	90.000	159.410	6529.74	4483.45	-4281.04	1338.45	1688887.72	14222333.65	39°09'56.7020"N	80°49'44.3566"W	4485.40	162.638	0.82	0.03	-0.82	
11657.00	90.250	159.760	6529.53	4578.42	-4370.08	1371.58	1688920.85	14222244.65	39°09'55.8214"N	80°49'43.9380"W	4580.26	162.575	0.45	0.26	0.37	
11751.00	90.430	159.860	6529.97	4672.40	-4458.30	1404.03	1688953.28	14222156.46	39°09'54.9488"N	80°49'43.5282"W	4674.16	162.520	0.22	0.19	0.11	
11846.00	90.000	158.410	6528.62	4767.35	-4547.07	1437.86	1688987.10	14222067.73	39°09'54.0708"N	80°49'43.1008"W	4768.99	162.452	1.59	-0.45	-1.53	
11941.00	90.490	160.010	6528.21	4862.30	-4635.88	1471.58	1689020.80	14221978.95	39°09'53.1924"N	80°49'42.6748"W	4863.84	162.389	1.76	0.52	1.68	
12036.00	90.400	160.260	6527.47	4957.29	-4725.22	1503.86	1689053.07	14221889.65	39°09'52.3087"N	80°49'42.2671"W	4958.76	162.346	0.28	-0.09	0.26	
12130.00	90.220	160.060	6526.97	5051.28	-4813.64	1535.76	1689084.96	14221801.26	39°09'51.4342"N	80°49'41.8642"W	5052.69	162.305	0.29	-0.19	-0.21	
12225.00	90.400	160.270	6526.45	5146.27	-4903.00	1568.00	1689117.18	14221711.94	39°09'50.5503"N	80°49'41.4571"W	5147.63	162.266	0.29	0.19	0.22	
12319.00	90.340	159.810	6525.84	5240.26	-4991.35	1600.08	1689149.25	14221623.62	39°09'49.6764"N	80°49'41.0519"W	5241.55	162.226	0.49	-0.06	-0.49	
12414.00	90.580	160.050	6525.08	5335.24	-5080.58	1632.68	1689181.84	14221534.43	39°09'48.7939"N	80°49'40.6402"W	5336.48	162.185	0.36	0.25	0.25	
12509.00	90.220	159.690	6524.42	5430.22	-5169.78	1665.38	1689214.52	14221445.27	39°09'47.9117"N	80°49'40.2272"W	5431.40	162.144	0.54	-0.38	-0.38	
12603.00	90.060	159.910	6524.19	5524.20	-5258.00	1697.84	1689246.97	14221357.09	39°09'47.0392"N	80°49'39.8173"W	5525.32	162.104	0.29	-0.17	0.23	
12698.00	90.430	160.180	6523.78	5619.19	-5347.29	1730.26	1689279.38	14221267.83	39°09'46.1560"N	80°49'39.4078"W	5620.26	162.070	0.48	0.39	0.28	
12792.00	88.800	158.870	6524.41	5713.15	-5435.35	1763.14	1689312.24	14221179.81	39°09'45.2850"N	80°49'38.9926"W	5714.16	162.028	2.22	-1.73	-1.39	
12887.00	90.430	161.580	6525.05	5808.13	-5524.73	1795.27	1689344.36	14221090.46	39°09'44.4009"N	80°49'38.5867"W	5809.10	161.998	3.33	1.72	2.85	
12982.00	90.340	162.180	6524.41	5903.11	-5615.02	1824.82	1689373.90	14221000.21	39°09'43.5080"N	80°49'38.2138"W	5904.10	161.996	0.64	-0.09	0.63	
13076.00	90.090	162.060	6524.06	5997.09	-5704.47	1853.68	1689402.75	14220910.78	39°09'42.6233"N	80°49'37.8496"W	5998.10	161.998	0.30	-0.27	-0.13	
13171.00	89.380	161.270	6524.50	6092.08	-5794.65	1883.56	1689432.62	14220820.64	39°09'41.7314"N	80°49'37.4724"W	6093.09	161.993	1.12	-0.75	-0.83	
13265.00	88.980	161.870	6525.85	6186.07	-5883.82	1913.27	1689462.32	14220731.51	39°09'40.8495"N	80°49'37.0973"W	6187.08	161.987	0.77	-0.43	0.64	
13360.00	90.680	161.800	6526.13	6281.05	-5974.08	1942.89	1689491.92	14220641.29	39°09'39.9568"N	80°49'36.7235"W	6282.07	161.984	1.79	1.79	-0.07	
13454.00	90.460	161.700	6525.19	6375.04	-6063.35	1972.33	1689521.35	14220552.05	39°09'39.0740"N	80°49'36.3520"W	6376.07	161.981	0.26	-0.23	-0.11	
13549.00	90.180	161.920	6524.66	6470.02	-6153.60	2001.98	1689550.99	14220461.84	39°09'38.1814"N	80°49'35.9777"W	6471.07	161.978	0.37	-0.29	0.23	

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Shotter Unit 2H AWP Proj: 16978'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Shotter Unit 2H
Field	Doddridge	API	47-017-06946-0000
Facility	Locke Pad	Wellbore	Shotter Unit 2H AWB
Slot	Slot D		

WELLPATH DATA (186 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
13644.00	90.150	161.590	6524.39	6565.01	-6243.82	2031.72	1689580.72	14220371.65	39°09'37.2890"N	80°49'35.6023"W	6566.07	161.975	0.35	-0.03	-0.35	
13738.00	90.490	162.240	6523.86	6659.00	-6333.18	2060.90	1689609.89	14220282.33	39°09'36.4053"N	80°49'35.2340"W	6660.06	161.974	0.78	0.36	0.69	
13832.00	90.120	161.810	6523.36	6752.98	-6422.59	2089.91	1689638.89	14220192.96	39°09'35.5210"N	80°49'34.8679"W	6754.06	161.975	0.60	-0.39	-0.46	
13927.00	90.370	162.300	6522.96	6847.96	-6512.96	2119.18	1689668.14	14220102.62	39°09'34.6272"N	80°49'34.4985"W	6849.06	161.976	0.58	0.26	0.52	
14022.00	90.250	161.770	6522.44	6942.94	-6603.33	2148.48	1689697.43	14220012.29	39°09'33.7335"N	80°49'34.1288"W	6944.06	161.977	0.57	-0.13	-0.56	
14116.00	90.400	161.680	6521.91	7036.93	-6692.59	2177.96	1689726.90	14219923.07	39°09'32.8507"N	80°49'33.7567"W	7038.06	161.974	0.19	0.16	-0.10	
14211.00	90.280	161.880	6521.35	7131.92	-6782.82	2207.66	1689756.59	14219832.87	39°09'31.9583"N	80°49'33.3819"W	7133.05	161.971	0.25	-0.13	0.21	
14306.00	90.120	161.740	6521.01	7226.91	-6873.08	2237.32	1689786.23	14219742.65	39°09'31.0656"N	80°49'33.0076"W	7228.05	161.969	0.22	-0.17	-0.15	
14400.00	90.090	161.730	6520.84	7320.90	-6962.34	2266.78	1689815.68	14219653.42	39°09'30.1828"N	80°49'32.6358"W	7322.05	161.966	0.03	-0.03	-0.01	
14495.00	90.430	161.340	6520.41	7415.89	-7052.45	2296.87	1689845.76	14219563.35	39°09'29.2916"N	80°49'32.2560"W	7417.05	161.960	0.54	0.36	-0.41	
14589.00	90.400	161.530	6519.73	7509.89	-7141.55	2326.79	1689875.67	14219474.28	39°09'28.4103"N	80°49'31.8783"W	7511.04	161.954	0.20	-0.03	0.20	
14683.00	90.060	161.730	6519.35	7603.88	-7230.76	2356.42	1689905.29	14219385.11	39°09'27.5280"N	80°49'31.5044"W	7605.04	161.950	0.42	-0.36	0.21	
14778.00	89.970	161.640	6519.33	7698.87	-7320.95	2386.27	1689935.13	14219294.95	39°09'26.6361"N	80°49'31.1276"W	7700.04	161.947	0.13	-0.09	-0.09	
14873.00	90.280	161.420	6519.12	7793.87	-7411.06	2416.37	1689965.21	14219204.88	39°09'25.7449"N	80°49'30.7477"W	7795.04	161.942	0.40	0.33	-0.23	
14967.00	90.650	161.760	6518.36	7887.86	-7500.24	2446.05	1689994.88	14219115.73	39°09'24.8628"N	80°49'30.3731"W	7889.03	161.937	0.53	0.39	0.36	
15156.00	89.720	160.980	6517.75	8076.85	-7679.33	2506.43	1690055.24	14218936.71	39°09'23.0915"N	80°49'29.6110"W	8078.02	161.924	0.64	-0.49	-0.41	
15251.00	90.620	162.130	6517.47	8171.84	-7769.45	2536.48	1690085.28	14218846.63	39°09'22.2002"N	80°49'29.2317"W	8173.01	161.920	1.54	0.95	1.21	
15345.00	90.710	162.230	6516.37	8265.81	-7858.94	2566.25	1690114.03	14218757.18	39°09'21.3152"N	80°49'28.8687"W	8267.00	161.923	0.14	0.10	0.11	
15439.00	90.220	161.250	6515.61	8359.80	-7948.20	2594.70	1690143.47	14218667.96	39°09'20.4324"N	80°49'28.4970"W	8361.00	161.921	1.17	-0.52	-1.04	
15534.00	89.910	161.190	6515.50	8454.80	-8038.14	2625.28	1690174.04	14218578.05	39°09'19.5428"N	80°49'28.1110"W	8455.99	161.913	0.33	-0.33	-0.06	
15628.00	90.150	160.880	6515.46	8548.80	-8127.04	2655.83	1690204.58	14218489.19	39°09'18.6636"N	80°49'27.7254"W	8549.98	161.903	0.42	0.26	-0.33	
15722.00	90.310	161.600	6515.08	8642.80	-8216.04	2686.06	1690234.80	14218400.22	39°09'17.7833"N	80°49'27.3438"W	8643.97	161.896	0.78	0.17	0.77	
15817.00	90.340	161.260	6514.54	8737.79	-8306.09	2716.32	1690265.04	14218310.20	39°09'16.8927"N	80°49'26.9620"W	8738.97	161.891	0.36	0.03	-0.36	
15911.00	90.460	161.800	6513.88	8831.78	-8395.25	2746.10	1690294.81	14218221.08	39°09'16.0109"N	80°49'26.5862"W	8832.96	161.887	0.59	0.13	0.57	
16006.00	90.370	161.230	6513.19	8926.78	-8485.35	2776.22	1690324.92	14218131.02	39°09'15.1198"N	80°49'26.2061"W	8927.96	161.883	0.61	-0.09	-0.60	
16100.00	89.850	161.100	6513.01	9020.77	-8574.31	2806.56	1690355.25	14218042.09	39°09'14.2399"N	80°49'25.8230"W	9021.95	161.878	0.57	-0.55	-0.14	
16195.00	90.220	161.470	6512.96	9115.77	-8664.29	2837.04	1690385.72	14217952.15	39°09'13.3500"N	80°49'25.4383"W	9116.95	161.869	0.55	0.39	0.39	
16289.00	90.060	161.350	6512.73	9209.77	-8753.38	2867.01	1690415.68	14217863.09	39°09'12.4688"N	80°49'25.0601"W	9210.94	161.865	0.21	-0.17	-0.13	
16383.00	90.620	162.230	6512.17	9303.76	-8842.67	2896.38	1690445.04	14217773.84	39°09'11.5857"N	80°49'24.6894"W	9304.94	161.864	1.11	0.60	0.94	
16478.00	90.430	161.800	6511.30	9398.74	-8933.03	2925.72	1690474.36	14217683.52	39°09'10.6921"N	80°49'24.3193"W	9399.94	161.866	0.49	-0.20	-0.45	

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Shotter Unit 2H AWP Proj: 16978'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Shotter Unit 2H
Field	Doddridge	API	47-017-06946-0000
Facility	Locke Pad	Wellbore	Shotter Unit 2H AWB
Slot	Slot D		

WELLPATH DATA (186 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
16572.00	90.490	161.620	6510.54	9492.72	-9022.27	2955.22	1690503.84	14217594.31	39°09'9.8094"N	80°49'23.9471"W	9493.93	161.864	0.20	0.06	-0.19	
16667.00	90.990	161.610	6509.32	9587.71	-9112.42	2985.18	1690533.79	14217504.20	39°09'8.9178"N	80°49'23.5690"W	9588.92	161.862	0.53	0.53	-0.01	
16763.00	91.020	161.580	6507.63	9683.69	-9203.49	3015.48	1690564.09	14217413.16	39°09'8.0171"N	80°49'23.1866"W	9684.91	161.859	0.04	0.03	-0.03	
16858.00	90.860	161.880	6506.07	9778.67	-9293.69	3045.26	1690593.85	14217323.00	39°09'7.1250"N	80°49'22.8108"W	9779.89	161.858	0.36	-0.17	0.32	
16953.00	90.950	161.720	6504.57	9873.64	-9383.93	3074.93	1690623.51	14217232.80	39°09'6.2325"N	80°49'22.4365"W	9874.88	161.857	0.19	0.09	-0.17	
16978.00‡	90.950	161.720	6504.16	9898.64	-9407.66	3082.77	1690631.35	14217209.07	39°09'5.9978"N	80°49'22.3375"W	9899.88	161.857	0.00	0.00	0.00	Projected MD at TD: 16978'

HOLE & CASING SECTIONS - Ref Wellbore: Shotter Unit 2H AWB Ref Wellpath: Shotter Unit 2H AWP Proj: 16978'									
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	0.09	-0.28
17.5in Open Hole	130.00	459.00	329.00	130.00	458.99	0.09	-0.28	0.12	-2.00
13.375in Casing Surface	30.00	439.00	409.00	30.00	438.99	0.00	0.00	0.05	-1.88
12.25in Open Hole	459.00	2883.00	2424.00	458.99	2856.00	0.12	-2.00	266.16	-148.86
9.625in Casing Intermediate	30.00	2863.00	2833.00	30.00	2836.42	0.00	0.00	262.60	-146.87
8.75in Open Hole	2883.00	5757.00	2874.00	2856.00	5685.29	266.16	-148.86	707.44	-371.30
8.5in Open Hole	5757.00	16978.00	11221.00	5685.29	6504.16	707.44	-371.30	-9407.66	3082.77
5.5in Casing Production	30.00	16958.00	16928.00	30.00	6504.49	0.00	0.00	-9388.68	3076.50

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Shotter Unit 2H AWP Proj: 16978'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Shotter Unit 2H
Field	Doddridge	API	47-017-06946-0000
Facility	Locke Pad	Wellbore	Shotter Unit 2H AWB
Slot	Slot D		

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Shotter Unit 2H POE Rev-2	6500.00	217.63	-211.77	1687338.12	14226830.52	39°10'41.1949"N	80°50'3.9341"W	point
Shotter Unit 2H LP Rev-2	6527.00	37.01	-149.41	1687400.46	14226649.97	39°10'39.4085"N	80°50'3.1464"W	point
Shotter Unit 2H BHL Rev-3	6579.36	-9415.32	3114.44	1690663.00	14217201.42	39°09'5.9215"N	80°49'21.9357"W	point
Shotter Unit 2H BHL Rev-2	6580.18	-9563.28	3165.52	1690714.07	14217053.52	39°09'4.4581"N	80°49'21.2909"W	point
Shotter Unit 2H 50' L/R Hard Line Rev-2	7000.00	-4598.85	1451.33	1689000.56	14222015.97	39°09'53.5587"N	80°49'42.9310"W	rectangle
2D Rectangle 10191 x 100.								

WELLPATH COMPOSITION - Ref Wellbore: Shotter Unit 2H AWB Ref Wellpath: Shotter Unit 2H AWP Proj: 16978'					
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
30.00	436.00	Gyrodata 2015 - GC+WIR+DPIPE	01 Gyrodata MS Gyro <17-1/2"> (100'-436')	Shotter Unit 2H AWB	4/6/2023
436.00	2808.00	BH NaviTrak (2019) (Axial Corr+HRGM)	02 APS EM <12-1/4"> (436')(562'-2808')	Shotter Unit 2H AWB	4/6/2023
2808.00	5680.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03 APS EM <8-3/4"> (2808')(2937'-5680')	Shotter Unit 2H AWB	4/28/2023
5680.00	16978.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	04 BH AT Curve <8-1/2"> (5680')(5742'-16953')	Shotter Unit 2H AWB	4/28/2023

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Shotter Unit 2H AWP Proj: 16978'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Shotter Unit 2H
Field	Doddridge	API	47-017-06946-0000
Facility	Locke Pad	Wellbore	Shotter Unit 2H AWB
Slot	Slot D		

COMMENTS
<p>Wellpath general comments API: 47-017-06946-0000 BH Job #: 111750211 Rig: H&P 531 Duration: 4/29/2023-5/2/2023 Gyrodata MS Gyro <17-1/2"> (100'-436') APS EM <12-1/4"> (436')(562'-2808') APS EM <8-3/4"> (2808')(2937'-5680') BH AT Curve <8-1/2"> (5680')(5742'-16953') Sycamore: 6226' MD Middlesex: 6454' MD Burkett: 6645' MD Tully: 6798' MD Marcellus POE: 6906' MD Projected MD at TD: 16978'</p>

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