



ANTERO RESOURCES CORPORATION

Area: Wetzel County, WV
Field: Wetzel
Facility: Galmish Pad
Slot: Slot L

Well: Springer Unit 1H
UWI: 47-103-03738-0000
Wellbore: Springer Unit 1H PWB
Wellpath: Springer Unit 1H PWP Rev-C.0

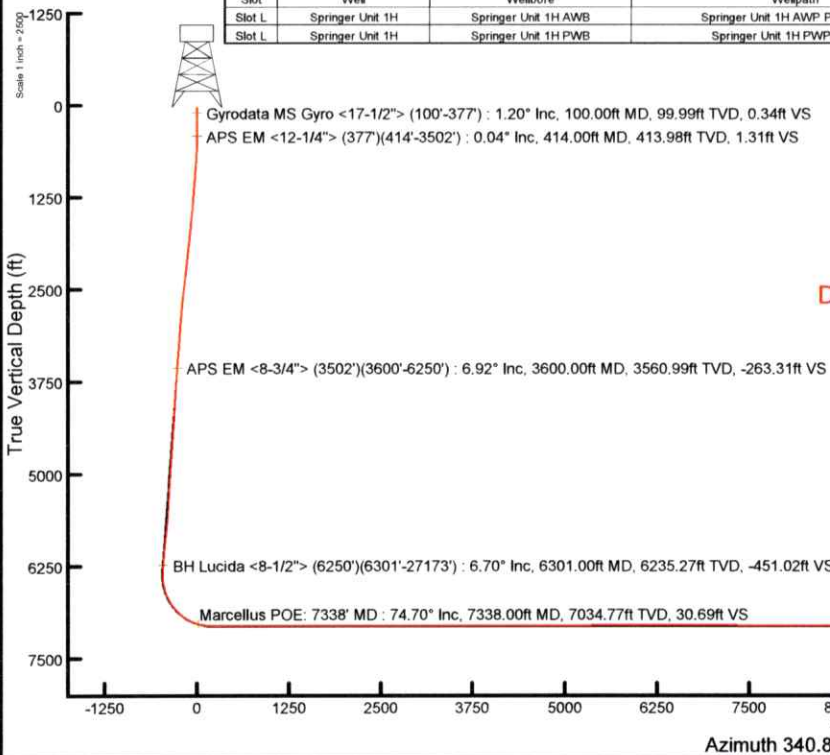


Plot reference wellpath is Springer Unit 1H PWP Rev-C.0	Grid System: NAD27 / UTM Zone 17 North, US feet
True vertical depths are referenced to H&P 519 (RKB)	North Reference: Grid north
Reference wellpath measured depths are referenced to H&P 519 (RKB)	Scale: True distance
H&P 519 (RKB) to Mean Sea Level: 1191 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (At Slot: Slot L): -1161 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's default MD datum	Created by: edisanyan on 2025-10-27, Database: WA MPL_EASTERNUS_Defn

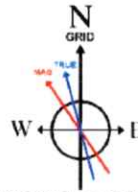
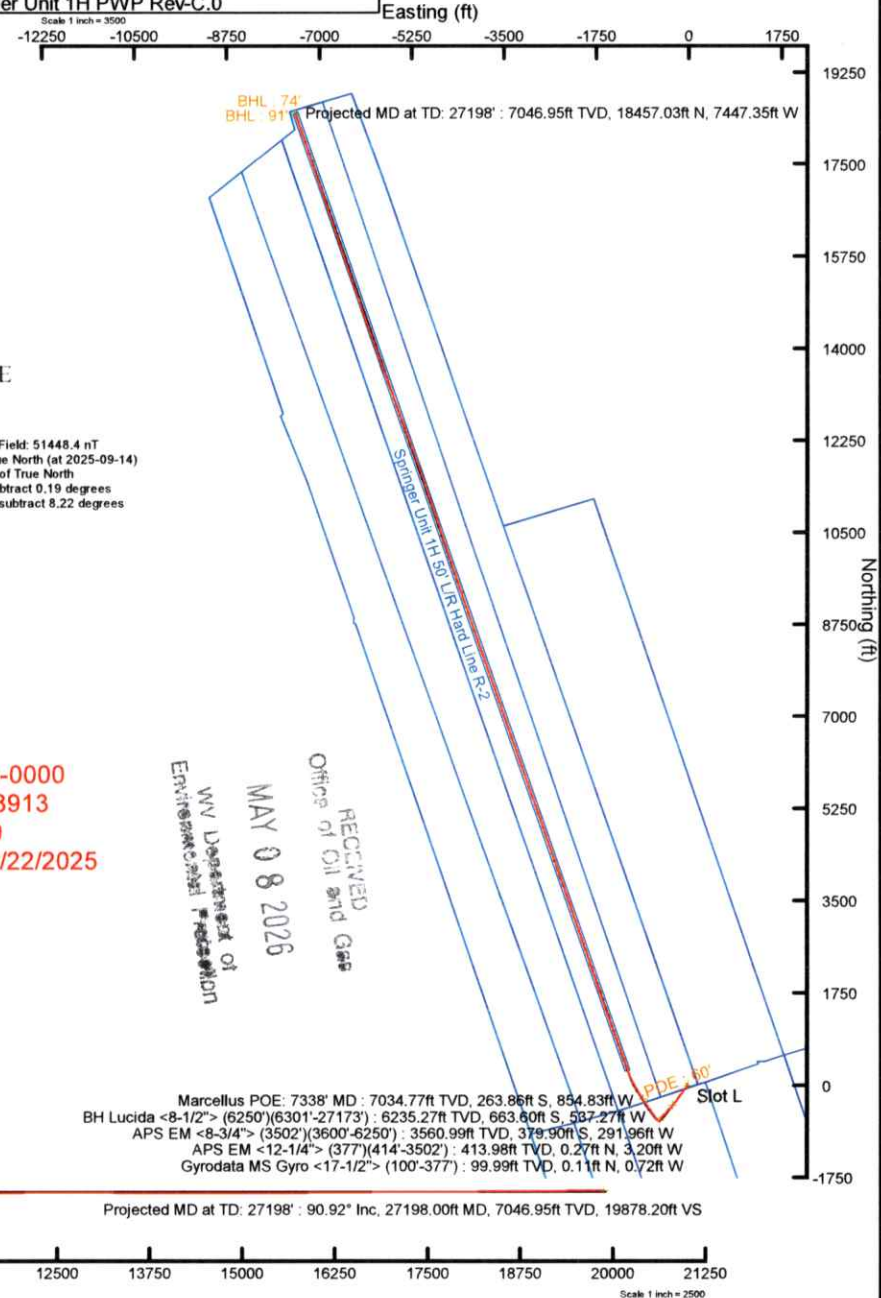
Location Information					
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	
Galmish Pad	1726216.430	14372266.790	39°34'38.1900N	80°41'43.8200W	
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude
Slot L	270.65	-155.17	1726061.320	14372537.330	39°34'40.8700N
Comment	Springer Unit 1H				
H&P 519 (RKB) to Ground level (At Slot: Slot L)	30ft				
Mean Sea Level to Ground level (At Slot: Slot L)	-1161ft				
H&P 519 (RKB) to Mean Sea Level	-1191ft				

Well Profile Data							
Design Comment	MD (ft)	Inc (")	Az (")	TVD (ft)	Local N (ft)	Local E (ft)	VS (ft)
Tie On	3502.00	7.450	213.410	3463.76	-369.45	-285.56	0.57
Proj. to Bottom	3577.00	7.450	213.410	3538.12	-377.57	-290.91	0.00
Drill Out	3657.00	7.450	213.410	3617.45	-386.23	-296.62	0.00
End of 3D Arc	3694.63	7.736	218.680	3654.75	-390.24	-299.55	2.00
Curve KOP	6384.79	7.736	218.680	6320.42	-672.94	-525.87	0.00
POE	7342.77	73.926	328.222	7038.00	-270.07	-859.91	8.00
Landing Pt.	7543.70	90.000	328.223	7066.00	-101.49	-964.34	8.00
On AZI	7965.54	90.000	340.878	7066.00	278.64	-1145.24	3.00
BHL	27229.53	90.000	340.878	7066.00	18479.65	-7455.90	0.00

Well Data			
Slot	Well	Wellbore	Wellpath
Slot L	Springer Unit 1H	Springer Unit 1H AWP	Springer Unit 1H AWP Proj. 27198"
Slot L	Springer Unit 1H	Springer Unit 1H PWB	Springer Unit 1H PWP Rev-C.0



API: 47-103-03738-0000
BH Job #: 112788913
Rig: H&P 519
Duration: 9/18/2025-9/22/2025



User specified (HDGM) Dip: 66.17° Field: 51448.4 nT
Magnetic North is 8.03 degrees West of True North (at 2025-09-14)
Grid North is 0.19 degrees East of True North
To correct azimuth from True to Grid subtract 0.19 degrees
To correct azimuth from Magnetic to Grid subtract 8.22 degrees

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Marcellus POE: 7338' MD : 7034.77ft TVD, 263.86ft S, 854.83ft W
BH Lucida <8-1/2"> (6250')(6301'-27173') : 6235.27ft TVD, 663.60ft S, 587.27ft W
APS EM <8-3/4"> (3502')(3600'-6250') : 3560.99ft TVD, 379.90ft S, 291.96ft W
APS EM <12-1/4"> (377')(414'-3502') : 413.98ft TVD, 0.27ft N, 3.20ft W
Gyrodata MS Gyro <17-1/2"> (100'-377') : 99.99ft TVD, 0.11ft N, 0.72ft W

Projected MD at TD: 27198' : 90.92" Inc, 27198.00ft MD, 7046.95ft TVD, 19878.20ft VS



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Springer Unit 1H AWP Proj: 27198'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Springer Unit 1H
Field	Wetzel	UWI	47-103-03738-0000
Facility	Galmish Pad	Wellbore	Springer Unit 1H AWB
Slot	Slot L		

REPORT SETUP INFORMATION

Projection System	NAD27 / UTM Zone 17 North, US feet [32067]	Software System	WellArchitect® 7.0
North Reference	Grid	Report Generated By	Edsaryar on 2025-10-27 at 1:45:06 AM
Scale	0.999608	Last Updated	2025-10-26
Convergence at slot	0.19° 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	270.65	-155.17	1726061.32	14372537.33	39°34'40.8700"N	80°41'45.7900"W
Facility Reference Pt			1726216.43	14372266.79	39°34'38.1900"N	80°41'43.8200"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	1191.00ft
Horizontal Reference Pt	Slot	H&P 519 (RKB) to Mean Sea Level	1191.00ft
Vertical Reference Pt	H&P 519 (RKB)	H&P 519 (RKB) to Ground Level at Slot (Slot L)	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	340.880°

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WELLPATH DATA (292 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	278.740	0.00	0.00	0.00	0.00	1726061.32	14372537.33	39°34'40.8700"N	80°41'45.7900"W	0.00	0.000	0.00	0.00	0.00	
30.00	0.000	278.740	30.00	0.00	0.00	0.00	1726061.32	14372537.33	39°34'40.8700"N	80°41'45.7900"W	0.00	0.000	0.00	0.00	0.00	
100.00	1.200	278.740	99.99	0.34	0.11	-0.72	1726060.60	14372537.44	39°34'40.8711"N	80°41'45.7993"W	0.73	278.740	1.71	1.71	0.00	Gyrodata MS Gyro <17-1/2"> (100'-377')
200.00	0.680	272.600	199.98	1.05	0.30	-2.35	1726058.97	14372537.63	39°34'40.8730"N	80°41'45.8200"W	2.37	277.206	0.53	-0.52	-6.14	
300.00	0.160	258.710	299.98	1.29	0.30	-3.08	1726058.24	14372537.63	39°34'40.8730"N	80°41'45.8294"W	3.10	275.504	0.53	-0.52	-13.89	
377.00	0.020	304.280	376.98	1.32	0.28	-3.20	1726058.12	14372537.61	39°34'40.8729"N	80°41'45.8309"W	3.21	275.065	0.19	-0.18	59.18	
414.00	0.040	171.550	413.98	1.31	0.27	-3.20	1726058.12	14372537.60	39°34'40.8728"N	80°41'45.8309"W	3.21	274.898	0.15	0.05	-358.73	APS EM <12-1/4"> (377')(414'-3502')
504.00	1.070	203.860	503.97	0.66	-0.53	-3.54	1726057.78	14372536.80	39°34'40.8649"N	80°41'45.8352"W	3.58	261.554	1.15	1.14	35.90	
594.00	2.580	210.590	593.92	-1.26	-3.04	-4.91	1726056.41	14372534.29	39°34'40.8401"N	80°41'45.8528"W	5.77	238.247	1.69	1.68	7.48	
683.00	4.450	209.570	682.75	-4.84	-7.77	-7.63	1726053.69	14372529.57	39°34'40.7935"N	80°41'45.8878"W	10.89	224.502	2.10	2.10	-1.15	
774.00	6.170	213.260	773.36	-10.15	-14.93	-12.06	1726049.27	14372522.41	39°34'40.7229"N	80°41'45.9446"W	19.19	218.929	1.93	1.89	4.05	
864.00	7.740	218.170	862.70	-16.38	-23.74	-18.45	1726042.87	14372513.60	39°34'40.6360"N	80°41'46.0267"W	30.07	217.866	1.86	1.74	5.46	
954.00	9.170	223.030	951.72	-23.01	-33.74	-27.09	1726034.24	14372503.60	39°34'40.5374"N	80°41'46.1375"W	43.27	218.763	1.77	1.59	5.40	
1044.00	9.540	223.070	1040.52	-29.84	-44.43	-37.08	1726024.25	14372492.91	39°34'40.4321"N	80°41'46.2655"W	57.87	219.846	0.41	0.41	0.04	
1138.00	9.530	223.090	1133.22	-37.10	-55.81	-47.72	1726013.62	14372481.55	39°34'40.3200"N	80°41'46.4018"W	73.42	220.531	0.01	-0.01	0.02	
1233.00	9.160	222.220	1226.96	-44.39	-67.15	-58.17	1726003.17	14372470.21	39°34'40.2083"N	80°41'46.5358"W	88.84	220.901	0.42	-0.39	-0.92	
1327.00	8.980	221.320	1319.78	-51.60	-78.20	-68.04	1725993.31	14372459.16	39°34'40.0994"N	80°41'46.6623"W	103.66	221.026	0.24	-0.19	-0.96	
1422.00	10.060	219.740	1413.47	-59.55	-90.15	-78.24	1725983.11	14372447.22	39°34'39.9816"N	80°41'46.7931"W	119.37	220.955	1.17	1.14	-1.66	
1516.00	10.400	218.110	1505.98	-68.39	-103.14	-88.73	1725972.63	14372434.23	39°34'39.8536"N	80°41'46.9276"W	136.05	220.704	0.48	0.36	-1.73	
1611.00	10.080	217.150	1599.47	-77.64	-116.51	-99.04	1725962.32	14372420.86	39°34'39.7218"N	80°41'47.0599"W	152.92	220.366	0.38	-0.34	-1.01	
1706.00	9.730	216.510	1693.05	-86.79	-129.59	-108.84	1725952.53	14372407.79	39°34'39.5929"N	80°41'47.1856"W	169.23	220.025	0.39	-0.37	-0.67	
1800.00	9.480	213.690	1785.73	-95.96	-142.42	-117.86	1725943.51	14372394.97	39°34'39.4664"N	80°41'47.3013"W	184.86	219.609	0.57	-0.27	-3.00	
1895.00	10.310	215.910	1879.32	-105.56	-155.81	-127.18	1725934.19	14372381.58	39°34'39.3343"N	80°41'47.4210"W	201.13	219.223	0.96	0.87	2.34	
1989.00	10.450	215.830	1971.78	-115.27	-169.54	-137.11	1725924.27	14372367.86	39°34'39.1990"N	80°41'47.5483"W	218.04	218.963	0.15	0.15	-0.09	
2084.00	10.490	215.470	2065.20	-125.23	-183.56	-147.17	1725914.21	14372353.84	39°34'39.0607"N	80°41'47.6774"W	235.27	218.720	0.08	0.04	-0.38	
2178.00	10.710	215.480	2157.60	-135.25	-197.65	-157.20	1725904.18	14372339.76	39°34'38.9219"N	80°41'47.8062"W	252.54	218.498	0.23	0.23	0.01	
2273.00	10.730	214.620	2250.94	-145.59	-212.11	-167.35	1725894.04	14372325.30	39°34'38.7792"N	80°41'47.9364"W	270.18	218.273	0.17	0.02	-0.91	
2368.00	10.750	213.750	2344.27	-156.17	-226.76	-177.30	1725884.09	14372310.66	39°34'38.6348"N	80°41'48.0640"W	287.84	218.021	0.17	0.02	-0.92	
2462.00	10.740	214.020	2436.63	-166.72	-241.30	-187.07	1725874.33	14372296.12	39°34'38.4914"N	80°41'48.1895"W	305.32	217.784	0.05	-0.01	0.29	
2557.00	10.760	213.010	2529.96	-177.47	-256.08	-196.85	1725864.55	14372281.35	39°34'38.3457"N	80°41'48.3150"W	323.00	217.550	0.20	0.02	-1.06	

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Field	Wetzel	UVI	47-103-03738-0000
Facility	Galmish Pad	Wellbore	Springer Unit 1H AWB
Slot	Slot L		

WELLPATH DATA (292 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
2652.00	10.810	213.650	2623.28	-188.31	-270.93	-206.62	1725854.78	14372266.51	39°34'38.1992"N	80°41'48.4404"W	340.73	217.330	0.14	0.05	0.67	
2747.00	9.410	217.410	2716.80	-197.98	-284.52	-216.27	1725845.13	14372252.93	39°34'38.0653"N	80°41'48.5643"W	357.38	217.240	1.63	-1.47	3.96	
2841.00	8.980	216.320	2809.60	-206.38	-296.53	-225.29	1725836.12	14372240.92	39°34'37.9468"N	80°41'48.6799"W	372.40	217.226	0.49	-0.46	-1.16	
2936.00	8.740	221.310	2903.46	-214.15	-307.93	-234.44	1725826.97	14372229.53	39°34'37.8345"N	80°41'48.7974"W	387.02	217.284	0.85	-0.25	5.25	
3031.00	8.620	223.190	2997.38	-221.02	-318.54	-244.08	1725817.33	14372218.92	39°34'37.7300"N	80°41'48.9209"W	401.30	217.461	0.32	-0.13	1.98	
3125.00	8.270	223.190	3090.36	-227.43	-328.60	-253.53	1725807.89	14372208.86	39°34'37.6308"N	80°41'49.0420"W	415.04	217.652	0.37	-0.37	0.00	
3220.00	8.190	219.640	3184.38	-234.12	-338.80	-262.52	1725798.90	14372198.67	39°34'37.5304"N	80°41'49.1573"W	428.60	217.771	0.54	-0.08	-3.74	
3315.00	7.890	217.280	3278.44	-241.23	-349.19	-270.79	1725790.64	14372188.27	39°34'37.4279"N	80°41'49.2633"W	441.89	217.792	0.47	-0.32	-2.48	
3410.00	7.740	216.740	3372.56	-248.43	-359.51	-278.57	1725782.86	14372177.96	39°34'37.3262"N	80°41'49.3630"W	454.80	217.770	0.18	-0.16	-0.57	
3502.00	7.450	213.410	3463.76	-255.54	-369.45	-285.56	1725775.88	14372168.02	39°34'37.2281"N	80°41'49.4527"W	466.94	217.701	0.57	-0.32	-3.62	
3600.00	6.920	209.450	3560.99	-263.31	-379.90	-291.96	1725769.48	14372157.58	39°34'37.1251"N	80°41'49.5349"W	479.12	217.543	0.74	-0.54	-4.04	APS EM <8-3/4"> (3502')(3600'-6250')
3695.00	7.810	218.080	3655.20	-270.59	-389.96	-298.75	1725762.69	14372147.52	39°34'37.0259"N	80°41'49.6221"W	491.25	217.456	1.49	0.94	9.08	
3789.00	8.750	225.560	3748.23	-277.11	-400.00	-307.80	1725753.65	14372137.49	39°34'36.9270"N	80°41'49.7381"W	504.71	217.578	1.52	1.00	7.96	
3884.00	8.350	223.650	3842.17	-283.36	-410.05	-317.72	1725743.73	14372127.45	39°34'36.8280"N	80°41'49.8652"W	518.73	217.770	0.52	-0.42	-2.01	
3979.00	7.720	218.340	3936.24	-289.95	-420.04	-326.44	1725735.01	14372117.45	39°34'36.7295"N	80°41'49.9770"W	531.97	217.853	1.02	-0.66	-5.59	
4073.00	8.510	227.410	4029.30	-296.11	-429.70	-335.47	1725725.98	14372107.80	39°34'36.6344"N	80°41'50.0928"W	545.15	217.980	1.60	0.84	9.65	
4167.00	9.120	232.200	4122.19	-301.27	-438.97	-346.48	1725714.98	14372098.53	39°34'36.5431"N	80°41'50.2338"W	559.24	218.284	1.01	0.65	5.10	
4262.00	8.430	228.820	4216.08	-306.30	-448.17	-357.67	1725703.79	14372089.33	39°34'36.4525"N	80°41'50.3771"W	573.40	218.592	0.91	-0.73	-3.56	
4357.00	7.670	223.910	4310.14	-311.79	-457.33	-367.31	1725694.16	14372080.18	39°34'36.3624"N	80°41'50.5006"W	586.57	218.770	1.08	-0.80	-5.17	
4452.00	6.500	215.680	4404.42	-317.76	-466.26	-374.84	1725686.62	14372071.25	39°34'36.2743"N	80°41'50.5972"W	598.25	218.797	1.63	-1.23	-8.66	
4547.00	7.230	216.010	4498.74	-324.28	-475.47	-381.49	1725679.98	14372062.05	39°34'36.1836"N	80°41'50.6825"W	609.59	218.742	0.77	0.77	0.35	
4641.00	7.050	218.490	4592.01	-330.75	-484.77	-388.56	1725672.91	14372052.75	39°34'36.0919"N	80°41'50.7732"W	621.27	218.714	0.38	-0.19	2.64	
4736.00	6.560	214.160	4686.34	-337.12	-493.82	-395.24	1725666.24	14372043.70	39°34'36.0027"N	80°41'50.8588"W	632.51	218.673	0.75	-0.52	-4.56	
4831.00	8.330	224.800	4780.54	-343.39	-503.19	-403.13	1725658.34	14372034.33	39°34'35.9103"N	80°41'50.9600"W	644.76	218.700	2.35	1.86	11.20	
4926.00	8.310	223.220	4874.54	-349.60	-513.08	-412.68	1725648.80	14372024.45	39°34'35.8129"N	80°41'51.0824"W	658.45	218.811	0.24	-0.02	-1.66	
5020.00	7.110	219.580	4967.69	-355.78	-522.51	-421.04	1725640.44	14372015.02	39°34'35.7199"N	80°41'51.1896"W	671.04	218.862	1.38	-1.28	-3.87	
5114.00	6.650	218.930	5061.01	-361.68	-531.23	-428.17	1725633.32	14372006.31	39°34'35.6340"N	80°41'51.2810"W	682.30	218.869	0.50	-0.49	-0.69	
5209.00	8.110	229.830	5155.23	-367.00	-539.83	-436.75	1725624.74	14371997.71	39°34'35.5493"N	80°41'51.3909"W	694.38	218.974	2.12	1.54	11.47	
5304.00	8.560	229.760	5249.22	-371.95	-548.72	-447.27	1725614.23	14371988.82	39°34'35.4618"N	80°41'51.5256"W	707.92	219.183	0.47	0.47	-0.07	
5398.00	7.510	223.790	5342.30	-377.27	-557.68	-456.86	1725604.64	14371979.87	39°34'35.3736"N	80°41'51.6485"W	720.92	219.325	1.43	-1.12	-6.35	

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Springer Unit 1H
Field	Wetzel	UWI	47-103-03738-0000
Facility	Galmish Pad	Wellbore	Springer Unit 1H AWB
Slot	Slot L		

WELLPATH DATA (292 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
5493.00	8.570	226.290	5436.37	-383.04	-567.05	-466.27	1725595.23	14371970.50	39°34'35.2813"N	80°41'51.7691"W	734.14	219.429	1.17	1.12	2.63	
5588.00	8.840	227.310	5530.27	-388.91	-576.89	-476.75	1725584.76	14371960.67	39°34'35.1843"N	80°41'51.9034"W	748.40	219.571	0.33	0.28	1.07	
5682.00	9.340	218.210	5623.10	-395.91	-587.78	-486.78	1725574.73	14371949.78	39°34'35.0770"N	80°41'52.0319"W	763.18	219.630	1.62	0.53	-9.68	
5777.00	8.930	211.420	5716.89	-404.76	-600.13	-495.39	1725566.12	14371937.43	39°34'34.9553"N	80°41'52.1424"W	778.19	219.539	1.21	-0.43	-7.15	
5872.00	8.740	211.000	5810.77	-414.08	-612.61	-502.95	1725558.57	14371924.96	39°34'34.8322"N	80°41'52.2395"W	792.63	219.386	0.21	-0.20	-0.44	
5966.00	8.520	204.170	5903.70	-423.72	-625.09	-509.48	1725552.04	14371912.49	39°34'34.7091"N	80°41'52.3234"W	806.42	219.182	1.11	-0.23	-7.27	
6061.00	8.030	211.450	5997.72	-433.06	-637.17	-515.83	1725545.70	14371900.41	39°34'34.5899"N	80°41'52.4050"W	819.79	218.992	1.22	-0.52	7.66	
6155.00	8.850	220.110	6090.70	-440.93	-648.30	-523.91	1725537.62	14371889.28	39°34'34.4802"N	80°41'52.5087"W	833.53	218.943	1.61	0.87	9.21	
6250.00	7.900	222.110	6184.69	-447.81	-658.73	-533.00	1725528.53	14371878.86	39°34'34.3774"N	80°41'52.6252"W	847.36	218.977	1.05	-1.00	2.11	
6301.00	6.700	220.220	6235.27	-451.02	-663.60	-537.27	1725524.26	14371873.99	39°34'34.3294"N	80°41'52.6799"W	853.83	218.994	2.40	-2.35	-3.71	BH Lucida <8-1/2"> (6250')(6301'-27173')
6375.00	6.650	217.280	6308.77	-455.59	-670.31	-542.65	1725518.88	14371867.28	39°34'34.2633"N	80°41'52.7489"W	862.43	218.992	0.47	-0.07	-3.97	
6469.00	6.670	264.370	6402.21	-457.33	-675.18	-551.39	1725510.15	14371862.42	39°34'34.2154"N	80°41'52.8607"W	871.72	219.237	5.65	0.02	50.10	
6564.00	11.740	306.110	6496.05	-448.09	-670.02	-564.71	1725496.83	14371867.58	39°34'34.2669"N	80°41'53.0306"W	876.25	220.125	8.50	5.34	43.94	
6659.00	18.720	325.090	6587.71	-425.44	-651.79	-581.27	1725480.28	14371885.80	39°34'34.4476"N	80°41'53.2413"W	873.33	221.727	8.94	7.35	19.98	
6753.00	26.260	324.170	6674.50	-390.95	-622.51	-602.11	1725459.45	14371915.06	39°34'34.7376"N	80°41'53.5062"W	866.06	224.045	8.03	8.02	-0.98	
6761.00†	26.922	324.158	6681.65	-387.52	-619.61	-604.20	1725457.36	14371917.96	39°34'34.7664"N	80°41'53.5328"W	865.44	224.279	8.27	8.27	-0.14	Sycamore: 6761' MD
6848.00	34.120	324.060	6756.55	-345.25	-583.84	-630.09	1725431.48	14371953.72	39°34'35.1207"N	80°41'53.8619"W	859.00	227.182	8.27	8.27	-0.11	
6921.00†	40.413	324.068	6814.61	-302.96	-548.07	-656.02	1725405.56	14371989.48	39°34'35.4751"N	80°41'54.1915"W	854.84	230.123	8.62	8.62	0.01	Middlesex: 6921' MD
6943.00	42.310	324.070	6831.12	-289.04	-536.30	-664.55	1725397.03	14372001.24	39°34'35.5918"N	80°41'54.2999"W	853.96	231.096	8.62	8.62	0.01	
7037.00	50.110	324.310	6896.12	-224.09	-481.31	-704.22	1725357.38	14372056.21	39°34'36.1366"N	80°41'54.8041"W	852.98	235.649	8.30	8.30	0.26	
7065.00†	52.353	324.414	6913.65	-203.16	-463.57	-716.93	1725344.67	14372073.95	39°34'36.3123"N	80°41'54.9658"W	853.75	237.114	8.02	8.01	0.37	Burkett: 7065' MD
7121.00†	56.839	324.605	6946.09	-159.38	-426.41	-743.43	1725318.19	14372111.09	39°34'36.6804"N	80°41'55.3025"W	857.03	240.163	8.02	8.01	0.34	Tully: 7121' MD
7132.00	57.720	324.640	6952.04	-150.49	-418.86	-748.78	1725312.83	14372118.63	39°34'36.7552"N	80°41'55.3706"W	857.98	240.778	8.02	8.01	0.32	
7226.00	65.490	324.930	6996.70	-71.10	-351.35	-796.42	1725265.21	14372186.12	39°34'37.4240"N	80°41'55.9761"W	870.48	246.195	8.27	8.27	0.31	
7321.00	73.330	327.190	7030.09	14.81	-277.61	-846.00	1725215.66	14372259.83	39°34'38.1544"N	80°41'56.6061"W	890.38	251.833	8.55	8.25	2.38	
7338.00†	74.695	327.383	7034.77	30.69	-263.86	-854.83	1725206.83	14372273.57	39°34'38.2906"N	80°41'56.7183"W	894.63	252.846	8.10	8.03	1.14	Marcellus POE: 7338' MD
7415.00	80.880	328.230	7051.05	103.96	-200.20	-894.90	1725166.77	14372337.21	39°34'38.9211"N	80°41'57.2273"W	917.02	257.390	8.10	8.03	1.10	
7509.00	88.430	328.920	7059.80	195.34	-120.40	-943.66	1725118.03	14372416.98	39°34'39.7114"N	80°41'57.8466"W	951.31	262.729	8.07	8.03	0.73	
7604.00	90.030	330.180	7061.08	288.47	-38.51	-991.79	1725069.92	14372498.83	39°34'40.5223"N	80°41'58.4578"W	992.54	267.776	2.14	1.68	1.33	
7699.00	89.880	332.240	7061.15	382.12	44.74	-1037.54	1725024.18	14372582.05	39°34'41.3466"N	80°41'59.0386"W	1038.51	272.469	2.17	-0.16	2.17	

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Actual Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Springer Unit 1H
Field	Wetzel	UWI	47-103-03738-0000
Facility	Galmish Pad	Wellbore	Springer Unit 1H AWB
Slot	Slot L		

WELLPATH DATA (292 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
7793.00	90.250	334.630	7061.05	475.32	128.81	-1079.58	1724982.17	14372666.09	39°34'42.1789"N	80°41'59.5718"W	1087.24	276.804	2.57	0.39	2.54	
7888.00	90.280	338.860	7060.61	570.05	216.07	-1117.08	1724944.68	14372753.32	39°34'43.0425"N	80°42'0.0470"W	1137.78	280.947	4.45	0.03	4.45	
7983.00	90.250	342.180	7060.17	665.03	305.62	-1148.75	1724913.02	14372842.83	39°34'43.9286"N	80°42'0.4477"W	1188.71	284.898	3.49	-0.03	3.49	
8077.00	90.150	342.050	7059.84	759.01	395.08	-1177.62	1724884.16	14372932.25	39°34'44.8137"N	80°42'0.8126"W	1242.13	288.546	0.17	-0.11	-0.14	
8172.00	89.910	340.140	7059.79	854.01	484.95	-1208.40	1724853.40	14373022.09	39°34'45.7029"N	80°42'1.2018"W	1302.08	291.866	2.03	-0.25	-2.01	
8266.00	90.180	341.030	7059.72	948.00	573.60	-1239.65	1724822.16	14373110.71	39°34'46.5801"N	80°42'1.5971"W	1365.92	294.831	0.99	0.29	0.95	
8361.00	90.120	340.970	7059.47	1043.00	663.43	-1270.58	1724791.24	14373200.50	39°34'47.4689"N	80°42'1.9883"W	1433.35	297.571	0.09	-0.06	-0.06	
8456.00	89.910	339.590	7059.44	1138.00	752.85	-1302.63	1724759.20	14373289.89	39°34'48.3538"N	80°42'2.3939"W	1504.54	300.026	1.47	-0.22	-1.45	
8550.00	89.910	338.500	7059.59	1231.95	840.64	-1336.25	1724725.60	14373377.63	39°34'49.2224"N	80°42'2.8195"W	1578.68	302.174	1.16	0.00	-1.16	
8645.00	90.000	337.780	7059.67	1326.84	928.80	-1371.62	1724690.24	14373465.77	39°34'50.0950"N	80°42'3.2675"W	1656.51	304.104	0.76	0.09	-0.76	
8740.00	90.030	339.050	7059.64	1421.75	1017.14	-1406.57	1724655.31	14373554.07	39°34'50.9692"N	80°42'3.7101"W	1735.80	305.872	1.34	0.03	1.34	
8834.00	90.060	340.490	7059.57	1515.73	1105.34	-1439.07	1724622.82	14373642.23	39°34'51.8419"N	80°42'4.1214"W	1814.58	307.528	1.53	0.03	1.53	
8929.00	90.220	340.980	7059.33	1610.73	1195.02	-1470.41	1724591.48	14373731.88	39°34'52.7293"N	80°42'4.5179"W	1894.78	309.101	0.54	0.17	0.52	
9023.00	89.820	340.870	7059.30	1704.73	1283.86	-1501.13	1724560.78	14373820.68	39°34'53.6083"N	80°42'4.9065"W	1975.27	310.539	0.44	-0.43	-0.12	
9118.00	90.220	341.090	7059.27	1799.72	1373.67	-1532.09	1724529.83	14373910.46	39°34'54.4969"N	80°42'5.2981"W	2057.74	311.879	0.48	0.42	0.23	
9213.00	89.820	340.850	7059.24	1894.72	1463.48	-1563.07	1724498.87	14374000.23	39°34'55.3855"N	80°42'5.6899"W	2141.25	313.115	0.49	-0.42	-0.25	
9307.00	89.630	341.190	7059.69	1988.72	1552.37	-1593.64	1724468.31	14374089.09	39°34'56.2650"N	80°42'6.0766"W	2224.76	314.248	0.41	-0.20	0.36	
9402.00	89.850	341.000	7060.12	2083.72	1642.24	-1624.42	1724437.54	14374178.92	39°34'57.1543"N	80°42'6.4659"W	2309.91	315.313	0.31	0.23	-0.20	
9497.00	89.910	340.820	7060.32	2178.72	1732.02	-1655.49	1724406.48	14374268.66	39°34'58.0426"N	80°42'6.8589"W	2395.94	316.294	0.20	0.06	-0.19	
9592.00	89.850	341.210	7060.52	2273.72	1821.85	-1686.40	1724375.59	14374358.46	39°34'58.9314"N	80°42'7.2498"W	2482.55	317.211	0.42	-0.06	0.41	
9781.00	89.910	341.320	7060.91	2462.72	2000.83	-1747.10	1724314.91	14374537.38	39°35'0.7023"N	80°42'8.0176"W	2656.26	318.873	0.07	0.03	0.06	
9875.00	90.180	341.140	7060.84	2556.71	2089.83	-1777.35	1724284.67	14374626.34	39°35'1.5829"N	80°42'8.4001"W	2743.42	319.620	0.35	0.29	-0.19	
9970.00	90.090	341.000	7060.61	2651.71	2179.70	-1808.17	1724253.86	14374716.17	39°35'2.4721"N	80°42'8.7900"W	2832.06	320.323	0.18	-0.09	-0.15	
10064.00	90.090	341.040	7060.47	2745.71	2268.58	-1838.74	1724223.30	14374805.02	39°35'3.3516"N	80°42'9.1767"W	2920.18	320.974	0.04	0.00	0.04	
10159.00	90.000	340.940	7060.39	2840.71	2358.40	-1869.68	1724192.37	14374894.81	39°35'4.2403"N	80°42'9.5681"W	3009.62	321.593	0.14	-0.09	-0.11	
10254.00	90.180	341.400	7060.24	2935.71	2448.32	-1900.35	1724161.72	14374984.69	39°35'5.1299"N	80°42'9.9559"W	3099.29	322.182	0.52	0.19	0.48	
10348.00	90.090	341.220	7060.02	3029.71	2537.36	-1930.47	1724131.61	14375073.69	39°35'6.0109"N	80°42'10.3369"W	3188.25	322.735	0.21	-0.10	-0.19	
10443.00	89.940	341.120	7060.00	3124.71	2627.28	-1961.13	1724100.96	14375163.57	39°35'6.9006"N	80°42'10.7247"W	3278.51	323.261	0.19	-0.16	-0.11	
10632.00	90.150	341.290	7059.85	3313.70	2806.20	-2022.02	1724040.09	14375342.42	39°35'8.6709"N	80°42'11.4949"W	3458.80	324.225	0.14	0.11	0.09	
10726.00	90.030	341.120	7059.70	3407.70	2895.19	-2052.31	1724009.82	14375431.38	39°35'9.5513"N	80°42'11.8780"W	3548.81	324.668	0.22	-0.13	-0.18	

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Operator	ANTERO RESOURCES CORPORATION	Well	Springer Unit 1H
Field	Wetzel	UWI	47-103-03738-0000
Facility	Galmish Pad	Wellbore	Springer Unit 1H AWB
Slot	Slot L		

WELLPATH DATA (292 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
10821.00	90.150	341.070	7059.55	3502.70	2985.06	-2083.09	1723979.05	14375521.22	39°35'10.4406"N	80°42'12.2673"W	3640.03	325.091	0.14	0.13	-0.05	
10916.00	90.090	340.940	7059.35	3597.70	3074.89	-2114.01	1723948.14	14375611.01	39°35'11.3294"N	80°42'12.6585"W	3731.48	325.491	0.15	-0.06	-0.14	
11010.00	90.060	341.460	7059.23	3691.70	3163.87	-2144.30	1723917.86	14375699.96	39°35'12.2098"N	80°42'13.0417"W	3822.06	325.873	0.55	-0.03	0.55	
11105.00	90.180	341.240	7059.03	3786.69	3253.88	-2174.68	1723887.49	14375789.93	39°35'13.1004"N	80°42'13.4259"W	3913.69	326.244	0.26	0.13	-0.23	
11199.00	90.120	341.080	7058.78	3880.69	3342.85	-2205.04	1723857.15	14375878.86	39°35'13.9806"N	80°42'13.8099"W	4004.60	326.590	0.18	-0.06	-0.17	
11294.00	90.060	341.300	7058.63	3975.69	3432.77	-2235.67	1723826.53	14375968.75	39°35'14.8704"N	80°42'14.1973"W	4096.60	326.925	0.24	-0.06	0.23	
11388.00	89.880	341.140	7058.68	4069.69	3521.77	-2265.93	1723796.28	14376057.71	39°35'15.7509"N	80°42'14.5801"W	4187.76	327.243	0.26	-0.19	-0.17	
11483.00	89.850	341.140	7058.91	4164.69	3611.67	-2296.64	1723765.59	14376147.58	39°35'16.6404"N	80°42'14.9686"W	4280.04	327.548	0.03	-0.03	0.00	
11578.00	90.060	341.200	7058.98	4259.69	3701.58	-2327.30	1723734.93	14376237.46	39°35'17.5301"N	80°42'15.3564"W	4372.42	327.841	0.23	0.22	0.06	
11673.00	90.280	341.210	7058.70	4354.69	3791.52	-2357.91	1723704.34	14376327.36	39°35'18.4199"N	80°42'15.7436"W	4464.90	328.123	0.23	0.23	0.01	
11767.00	90.150	341.170	7058.35	4448.68	3880.50	-2388.22	1723674.04	14376416.30	39°35'19.3003"N	80°42'16.1270"W	4556.52	328.390	0.14	-0.14	-0.04	
11862.00	90.340	340.990	7057.94	4543.68	3970.36	-2419.02	1723643.25	14376506.13	39°35'20.1894"N	80°42'16.5167"W	4649.24	328.647	0.28	0.20	-0.19	
11957.00	90.180	341.250	7057.51	4638.68	4060.25	-2449.76	1723612.52	14376595.98	39°35'21.0788"N	80°42'16.9055"W	4742.04	328.895	0.32	-0.17	0.27	
12052.00	89.850	341.130	7057.48	4733.68	4150.18	-2480.39	1723581.91	14376685.87	39°35'21.9685"N	80°42'17.2930"W	4834.91	329.135	0.37	-0.35	-0.13	
12146.00	91.140	340.490	7056.67	4827.67	4238.95	-2511.29	1723551.02	14376774.61	39°35'22.8469"N	80°42'17.6839"W	4926.99	329.356	1.53	1.37	-0.68	
12241.00	89.080	336.510	7056.49	4922.57	4327.32	-2546.10	1723516.23	14376862.94	39°35'23.7214"N	80°42'18.1249"W	5020.78	329.528	4.72	-2.17	-4.19	
12336.00	89.880	341.420	7057.35	5017.48	4415.95	-2580.18	1723482.15	14376951.55	39°35'24.5985"N	80°42'18.5565"W	5114.49	329.703	5.24	0.84	5.17	
12430.00	89.850	339.970	7057.57	5111.48	4504.67	-2611.26	1723451.09	14377040.22	39°35'25.4763"N	80°42'18.9497"W	5206.79	329.900	1.54	-0.03	-1.54	
12525.00	90.120	341.250	7057.60	5206.47	4594.28	-2642.80	1723419.56	14377129.80	39°35'26.3629"N	80°42'19.3489"W	5300.16	330.091	1.38	0.28	1.35	
12620.00	91.910	341.930	7055.92	5301.45	4684.40	-2672.79	1723389.58	14377219.88	39°35'27.2545"N	80°42'19.7282"W	5393.27	330.292	2.02	1.88	0.72	
12715.00	93.610	340.820	7051.34	5396.33	4774.31	-2703.10	1723359.29	14377309.76	39°35'28.1442"N	80°42'20.1115"W	5486.42	330.483	2.14	1.79	-1.17	
12810.00	90.060	341.290	7048.30	5491.26	4864.10	-2733.92	1723328.48	14377399.52	39°35'29.0326"N	80°42'20.5015"W	5579.77	330.661	3.77	-3.74	0.49	
12904.00	90.180	341.210	7048.10	5585.26	4953.12	-2764.13	1723298.27	14377488.50	39°35'29.9133"N	80°42'20.8837"W	5672.19	330.836	0.15	0.13	-0.09	
12999.00	89.880	341.330	7048.05	5680.26	5043.08	-2794.64	1723267.78	14377578.43	39°35'30.8035"N	80°42'21.2696"W	5765.65	331.007	0.34	-0.32	0.13	
13094.00	89.720	341.080	7048.39	5775.26	5133.02	-2825.25	1723237.19	14377668.33	39°35'31.6933"N	80°42'21.6568"W	5859.17	331.171	0.31	-0.17	-0.26	
13189.00	89.600	340.720	7048.95	5870.25	5222.79	-2856.33	1723206.11	14377758.06	39°35'32.5815"N	80°42'22.0501"W	5952.83	331.326	0.40	-0.13	-0.38	
13284.00	89.630	340.930	7049.59	5965.25	5312.51	-2887.53	1723174.92	14377847.75	39°35'33.4693"N	80°42'22.4450"W	6046.54	331.474	0.22	0.03	0.22	
13379.00	89.780	340.870	7050.08	6060.25	5402.28	-2918.62	1723143.85	14377937.49	39°35'34.3575"N	80°42'22.8383"W	6140.28	331.620	0.17	0.16	-0.06	
13474.00	89.350	339.740	7050.80	6155.24	5491.72	-2950.63	1723111.85	14378026.89	39°35'35.2424"N	80°42'23.2435"W	6234.20	331.751	1.27	-0.45	-1.19	
13568.00	89.940	341.330	7051.38	6249.23	5580.34	-2981.96	1723080.54	14378115.48	39°35'36.1193"N	80°42'23.6399"W	6327.11	331.881	1.80	0.63	1.69	

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Actual Wellpath Report

Springer Unit 1H AWP Proj: 27198'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Springer Unit 1H
Field	Wetzel	UWI	47-103-03738-0000
Facility	Galmish Pad	Wellbore	Springer Unit 1H AWB
Slot	Slot L		

WELLPATH DATA (292 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
13663.00	90.000	341.220	7051.43	6344.23	5670.32	-3012.45	1723050.05	14378205.41	39°35'37.0095"N	80°42'24.0257"W	6420.85	332.020	0.13	0.06	-0.12	
13757.00	89.910	340.730	7051.50	6438.23	5759.18	-3043.09	1723019.42	14378294.24	39°35'37.8888"N	80°42'24.4134"W	6513.72	332.148	0.53	-0.10	-0.52	
13852.00	90.710	339.540	7050.99	6533.22	5848.52	-3075.37	1722987.16	14378383.55	39°35'38.7728"N	80°42'24.8221"W	6607.81	332.263	1.51	0.84	-1.25	
13947.00	89.940	340.330	7050.45	6628.20	5937.75	-3107.97	1722954.58	14378472.75	39°35'39.6557"N	80°42'25.2347"W	6701.97	332.371	1.16	-0.81	0.83	
14041.00	89.750	340.760	7050.71	6722.20	6026.39	-3139.27	1722923.28	14378561.35	39°35'40.5327"N	80°42'25.6309"W	6795.03	332.484	0.50	-0.20	0.46	
14136.00	89.720	340.440	7051.14	6817.20	6115.99	-3170.83	1722891.74	14378650.92	39°35'41.4193"N	80°42'26.0303"W	6889.09	332.596	0.34	-0.03	-0.34	
14230.00	90.680	341.440	7050.82	6911.20	6204.84	-3201.53	1722861.05	14378739.72	39°35'42.2984"N	80°42'26.4187"W	6982.10	332.708	1.47	1.02	1.06	
14325.00	89.450	340.990	7050.71	7006.19	6294.77	-3232.12	1722830.48	14378829.63	39°35'43.1882"N	80°42'26.8057"W	7076.07	332.821	1.38	-1.29	-0.47	
14419.00	89.600	340.820	7051.49	7100.19	6383.60	-3262.87	1722799.74	14378918.42	39°35'44.0671"N	80°42'27.1948"W	7169.14	332.927	0.24	0.16	-0.18	
14514.00	89.510	341.110	7052.23	7195.19	6473.40	-3293.85	1722768.77	14379008.18	39°35'44.9556"N	80°42'27.5869"W	7263.22	333.032	0.32	-0.09	0.31	
14608.00	89.380	341.180	7053.14	7289.18	6562.35	-3324.23	1722738.40	14379097.10	39°35'45.8357"N	80°42'27.9712"W	7356.29	333.135	0.16	-0.14	0.07	
14703.00	89.880	341.270	7053.75	7384.18	6652.30	-3354.80	1722707.84	14379187.01	39°35'46.7256"N	80°42'28.3581"W	7450.35	333.238	0.53	0.53	0.09	
14797.00	89.540	341.230	7054.23	7478.17	6741.31	-3385.02	1722677.64	14379275.98	39°35'47.6063"N	80°42'28.7404"W	7543.44	333.337	0.36	-0.36	-0.04	
14892.00	89.350	340.950	7055.15	7573.17	6831.17	-3415.80	1722646.86	14379365.82	39°35'48.4954"N	80°42'29.1299"W	7637.58	333.434	0.36	-0.20	-0.29	
14986.00	90.120	341.340	7055.58	7667.17	6920.13	-3446.18	1722616.50	14379454.73	39°35'49.3756"N	80°42'29.5143"W	7730.74	333.527	0.92	0.82	0.41	
15081.00	89.750	341.320	7055.69	7762.16	7010.13	-3476.59	1722586.10	14379544.70	39°35'50.2660"N	80°42'29.8990"W	7824.87	333.621	0.39	-0.39	-0.02	
15175.00	89.690	340.210	7056.15	7856.16	7098.88	-3507.56	1722555.14	14379633.42	39°35'51.1441"N	80°42'30.2909"W	7918.15	333.706	1.18	-0.06	-1.18	
15270.00	89.780	341.050	7056.59	7951.16	7188.50	-3539.07	1722523.65	14379723.00	39°35'52.0309"N	80°42'30.6897"W	8012.46	333.788	0.89	0.09	0.88	
15365.00	89.970	340.900	7056.79	8046.16	7278.31	-3570.03	1722492.69	14379812.78	39°35'52.9195"N	80°42'31.0816"W	8106.72	333.872	0.25	0.20	-0.16	
15459.00	88.890	341.260	7057.73	8140.15	7367.23	-3600.51	1722462.23	14379901.66	39°35'53.7992"N	80°42'31.4673"W	8199.98	333.954	1.21	-1.15	0.38	
15554.00	89.940	340.780	7058.70	8235.14	7457.06	-3631.41	1722431.34	14379991.45	39°35'54.6880"N	80°42'31.8582"W	8294.26	334.035	1.22	1.11	-0.51	
15649.00	90.000	339.470	7058.75	8330.13	7546.39	-3663.70	1722399.06	14380080.75	39°35'55.5720"N	80°42'32.2671"W	8388.73	334.104	1.38	0.06	-1.38	
15743.00	90.060	341.430	7058.70	8424.13	7634.97	-3695.16	1722367.62	14380169.30	39°35'56.4484"N	80°42'32.6653"W	8482.16	334.174	2.09	0.06	2.09	
15838.00	90.280	341.170	7058.42	8519.12	7724.96	-3725.61	1722337.17	14380259.24	39°35'57.3387"N	80°42'33.0506"W	8576.43	334.253	0.36	0.23	-0.27	
15932.00	90.740	341.260	7057.58	8613.12	7813.94	-3755.88	1722306.92	14380348.20	39°35'58.2192"N	80°42'33.4336"W	8669.74	334.328	0.50	0.49	0.10	
16027.00	90.430	341.120	7056.61	8708.11	7903.87	-3786.51	1722276.30	14380438.09	39°35'59.1089"N	80°42'33.8212"W	8764.06	334.402	0.36	-0.33	-0.15	
16121.00	89.750	340.900	7056.46	8802.11	7992.75	-3817.10	1722245.72	14380526.93	39°35'59.9883"N	80°42'34.2083"W	8857.44	334.472	0.76	-0.72	-0.23	
16216.00	89.780	340.320	7056.85	8897.11	8082.36	-3848.64	1722214.20	14380616.51	39°36'0.8749"N	80°42'34.6075"W	8951.90	334.537	0.61	0.03	-0.61	
16310.00	89.780	340.050	7057.21	8991.10	8170.79	-3880.50	1722182.34	14380704.91	39°36'1.7500"N	80°42'35.0109"W	9045.45	334.596	0.29	0.00	-0.29	
16405.00	89.600	340.520	7057.73	9086.09	8260.22	-3912.55	1722150.31	14380794.30	39°36'2.6348"N	80°42'35.4166"W	9139.99	334.655	0.53	-0.19	0.49	

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Springer Unit 1H
Field	Wetzel	UWI	47-103-03738-0000
Facility	Galmish Pad	Wellbore	Springer Unit 1H AWB
Slot	Slot L		

WELLPATH DATA (292 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
16500.00	89.630	340.960	7058.37	9181.09	8349.90	-3943.89	1722118.99	14380883.95	39°36'3.5222"N	80°42'35.8133"W	9234.45	334.717	0.46	0.03	0.46	
16594.00	89.630	341.880	7058.97	9275.08	8439.00	-3973.84	1722089.05	14380973.01	39°36'4.4037"N	80°42'36.1922"W	9327.81	334.785	0.98	0.00	0.98	
16689.00	89.850	341.550	7059.41	9370.07	8529.20	-4003.64	1722059.25	14381063.18	39°36'5.2961"N	80°42'36.5693"W	9422.13	334.854	0.42	0.23	-0.35	
16783.00	90.150	341.220	7059.41	9464.07	8618.29	-4033.65	1722029.26	14381152.22	39°36'6.1775"N	80°42'36.9489"W	9515.52	334.919	0.47	0.32	-0.35	
16878.00	88.920	341.310	7060.18	9559.06	8708.25	-4064.16	1721998.76	14381242.15	39°36'7.0676"N	80°42'37.3350"W	9609.94	334.981	1.30	-1.29	0.09	
16973.00	89.200	340.510	7061.73	9654.05	8798.01	-4095.22	1721967.71	14381331.88	39°36'7.9557"N	80°42'37.7282"W	9704.42	335.039	0.89	0.29	-0.84	
17068.00	89.050	340.660	7063.19	9749.03	8887.60	-4126.80	1721936.15	14381421.43	39°36'8.8421"N	80°42'38.1279"W	9798.97	335.093	0.22	-0.16	0.16	
17162.00	89.170	340.780	7064.65	9843.02	8976.32	-4157.83	1721905.12	14381510.11	39°36'9.7199"N	80°42'38.5207"W	9892.51	335.146	0.18	0.13	0.13	
17257.00	89.200	341.000	7066.00	9938.01	9066.07	-4188.93	1721874.04	14381599.83	39°36'10.6079"N	80°42'38.9143"W	9987.03	335.201	0.23	0.03	0.23	
17351.00	89.230	340.320	7067.28	10032.00	9154.76	-4220.06	1721842.92	14381688.48	39°36'11.4854"N	80°42'39.3083"W	10080.60	335.252	0.72	0.03	-0.72	
17446.00	89.320	341.570	7068.49	10126.99	9244.54	-4251.07	1721811.92	14381778.23	39°36'12.3738"N	80°42'39.7009"W	10175.13	335.305	1.32	0.09	1.32	
17541.00	89.510	340.880	7069.46	10221.99	9334.48	-4281.64	1721781.36	14381868.14	39°36'13.2636"N	80°42'40.0878"W	10269.62	335.359	0.75	0.20	-0.73	
17635.00	89.600	341.490	7070.19	10315.98	9423.46	-4311.96	1721751.06	14381957.08	39°36'14.1439"N	80°42'40.4714"W	10363.13	335.412	0.66	0.10	0.65	
17729.00	89.630	341.160	7070.82	10409.98	9512.51	-4342.06	1721720.97	14382046.09	39°36'15.0250"N	80°42'40.8523"W	10456.64	335.465	0.35	0.03	-0.35	
17824.00	89.480	341.150	7071.56	10504.97	9602.41	-4372.74	1721690.30	14382135.96	39°36'15.9145"N	80°42'41.2406"W	10551.17	335.516	0.16	-0.16	-0.01	
17918.00	89.510	341.100	7072.38	10598.97	9691.35	-4403.15	1721659.90	14382224.87	39°36'16.7945"N	80°42'41.6255"W	10644.72	335.566	0.06	0.03	-0.05	
18013.00	89.510	341.080	7073.20	10693.96	9781.22	-4433.94	1721629.13	14382314.70	39°36'17.6837"N	80°42'42.0151"W	10739.28	335.615	0.02	0.00	-0.02	
18202.00	89.570	341.070	7074.71	10882.96	9960.00	-4495.23	1721567.86	14382493.41	39°36'19.4525"N	80°42'42.7909"W	10927.43	335.709	0.03	0.03	-0.01	
18297.00	89.570	341.020	7075.43	10977.95	10049.85	-4526.09	1721537.01	14382583.22	39°36'20.3414"N	80°42'43.1815"W	11022.02	335.755	0.05	0.00	-0.05	
18391.00	89.720	341.160	7076.01	11071.95	10138.77	-4556.55	1721506.56	14382672.11	39°36'21.2212"N	80°42'43.5670"W	11115.61	335.800	0.22	0.16	0.15	
18486.00	89.750	341.190	7076.45	11166.95	10228.69	-4587.21	1721475.92	14382761.99	39°36'22.1109"N	80°42'43.9550"W	11210.20	335.845	0.04	0.03	0.03	
18581.00	89.780	341.160	7076.84	11261.95	10318.61	-4617.86	1721445.27	14382851.87	39°36'23.0005"N	80°42'44.3430"W	11304.79	335.890	0.04	0.03	-0.03	
18675.00	89.880	341.700	7077.12	11355.94	10407.71	-4647.80	1721415.35	14382940.94	39°36'23.8821"N	80°42'44.7218"W	11398.35	335.936	0.58	0.11	0.57	
18770.00	89.630	340.980	7077.52	11450.94	10497.72	-4678.19	1721384.97	14383030.91	39°36'24.7726"N	80°42'45.1064"W	11492.93	335.980	0.80	-0.26	-0.76	
18864.00	89.880	341.430	7077.93	11544.93	10586.70	-4708.48	1721354.70	14383119.87	39°36'25.6530"N	80°42'45.4897"W	11586.55	336.023	0.55	0.27	0.48	
18959.00	89.570	341.220	7078.38	11639.93	10676.70	-4738.90	1721324.29	14383209.83	39°36'26.5434"N	80°42'45.8747"W	11681.14	336.066	0.39	-0.33	-0.22	
19054.00	89.780	341.220	7078.92	11734.93	10766.64	-4769.48	1721293.72	14383299.73	39°36'27.4333"N	80°42'46.2618"W	11775.76	336.107	0.22	0.22	0.00	
19148.00	89.780	341.160	7079.28	11828.92	10855.62	-4799.79	1721263.42	14383388.68	39°36'28.3136"N	80°42'46.6454"W	11869.39	336.147	0.06	0.00	-0.06	
19243.00	90.220	340.940	7079.28	11923.92	10945.47	-4830.64	1721232.58	14383478.49	39°36'29.2026"N	80°42'47.0358"W	11964.05	336.186	0.52	0.46	-0.23	
19337.00	90.340	341.350	7078.82	12017.92	11034.42	-4861.02	1721202.22	14383567.41	39°36'30.0827"N	80°42'47.4203"W	12057.70	336.225	0.45	0.13	0.44	

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Field	Wetzel	UWI	47-103-03738-0000
Facility	Galmish Pad	Wellbore	Springer Unit 1H AWB
Slot	Slot L		

WELLPATH DATA (292 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
19432.00	90.060	341.220	7078.49	12112.92	11124.40	-4891.50	1721171.75	14383657.35	39°36'30.9729"N	80°42'47.8061"W	12152.33	336.264	0.32	-0.29	-0.14	
19621.00	89.970	341.410	7078.44	12301.91	11303.44	-4952.05	1721111.22	14383836.32	39°36'32.7443"N	80°42'48.5724"W	12340.60	336.342	0.11	-0.05	0.10	
19715.00	90.150	341.540	7078.34	12395.91	11392.57	-4981.91	1721081.37	14383925.41	39°36'33.6261"N	80°42'48.9504"W	12434.23	336.380	0.24	0.19	0.14	
19810.00	90.090	341.170	7078.14	12490.90	11482.58	-5012.28	1721051.01	14384015.39	39°36'34.5167"N	80°42'49.3348"W	12528.87	336.418	0.39	-0.06	-0.39	
19905.00	90.090	341.180	7077.99	12585.90	11572.50	-5042.94	1721020.37	14384105.28	39°36'35.4063"N	80°42'49.7228"W	12623.55	336.454	0.01	0.00	0.01	
19999.00	90.310	341.330	7077.67	12679.90	11661.51	-5073.15	1720990.17	14384194.25	39°36'36.2870"N	80°42'50.1051"W	12717.22	336.489	0.28	0.23	0.16	
20094.00	90.280	341.360	7077.18	12774.90	11751.52	-5103.53	1720959.80	14384284.23	39°36'37.1775"N	80°42'50.4897"W	12811.88	336.525	0.04	-0.03	0.03	
20188.00	89.660	339.690	7077.23	12868.89	11840.14	-5134.87	1720928.47	14384372.81	39°36'38.0543"N	80°42'50.8865"W	12905.65	336.554	1.90	-0.66	-1.78	
20283.00	89.820	340.000	7077.66	12963.87	11929.32	-5167.60	1720895.75	14384461.96	39°36'38.9368"N	80°42'51.3011"W	13000.49	336.578	0.37	0.17	0.33	
20378.00	89.750	339.700	7078.01	13058.86	12018.51	-5200.33	1720863.04	14384551.11	39°36'39.8192"N	80°42'51.7156"W	13095.34	336.602	0.32	-0.07	-0.32	
20472.00	89.850	340.220	7078.34	13152.84	12106.81	-5232.54	1720830.84	14384639.38	39°36'40.6930"N	80°42'52.1236"W	13189.18	336.626	0.56	0.11	0.55	
20567.00	89.850	340.180	7078.59	13247.84	12196.20	-5264.72	1720798.67	14384728.73	39°36'41.5774"N	80°42'52.5311"W	13283.99	336.652	0.04	0.00	-0.04	
20662.00	89.880	340.290	7078.81	13342.83	12285.60	-5296.85	1720766.56	14384818.10	39°36'42.4620"N	80°42'52.9380"W	13378.81	336.677	0.12	0.03	0.12	
20756.00	89.600	340.260	7079.24	13436.82	12374.08	-5328.57	1720734.85	14384906.54	39°36'43.3375"N	80°42'53.3398"W	13472.63	336.702	0.30	-0.30	-0.03	
20851.00	89.630	340.120	7079.88	13531.82	12463.46	-5360.77	1720702.66	14384995.88	39°36'44.2218"N	80°42'53.7475"W	13567.45	336.727	0.15	0.03	-0.15	
20946.00	89.690	340.230	7080.44	13626.81	12552.83	-5392.98	1720670.46	14385085.22	39°36'45.1060"N	80°42'54.1555"W	13662.28	336.751	0.13	0.06	0.12	
21040.00	89.630	340.130	7081.00	13720.80	12641.26	-5424.86	1720638.60	14385173.61	39°36'45.9810"N	80°42'54.5592"W	13756.11	336.774	0.12	-0.06	-0.11	
21135.00	89.690	340.360	7081.57	13815.79	12730.67	-5456.97	1720606.50	14385262.98	39°36'46.8656"N	80°42'54.9659"W	13850.93	336.798	0.25	0.06	0.24	
21230.00	89.570	340.200	7082.18	13910.78	12820.09	-5489.02	1720574.46	14385352.38	39°36'47.7504"N	80°42'55.3718"W	13945.76	336.821	0.21	-0.13	-0.17	
21324.00	89.540	340.030	7082.91	14004.77	12908.48	-5520.99	1720542.50	14385440.73	39°36'48.6250"N	80°42'55.7767"W	14039.60	336.843	0.18	-0.03	-0.18	
21419.00	89.600	340.180	7083.62	14099.76	12997.81	-5553.32	1720510.19	14385530.03	39°36'49.5089"N	80°42'56.1862"W	14134.44	336.865	0.17	0.06	0.16	
21513.00	89.540	339.840	7084.33	14193.75	13086.15	-5585.45	1720478.07	14385618.33	39°36'50.3829"N	80°42'56.5932"W	14228.30	336.886	0.37	-0.06	-0.36	
21608.00	89.750	340.100	7084.92	14288.73	13175.40	-5617.99	1720445.54	14385707.54	39°36'51.2660"N	80°42'57.0054"W	14323.16	336.907	0.35	0.22	0.27	
21797.00	90.030	340.130	7085.28	14477.72	13353.13	-5682.28	1720381.28	14385885.20	39°36'53.0246"N	80°42'57.8196"W	14511.87	336.948	0.15	0.15	0.02	
21892.00	89.970	340.010	7085.28	14572.71	13442.44	-5714.66	1720348.91	14385974.48	39°36'53.9082"N	80°42'58.2298"W	14606.73	336.969	0.14	-0.06	-0.13	
21987.00	90.220	337.790	7085.12	14667.64	13531.06	-5748.86	1720314.73	14386063.07	39°36'54.7852"N	80°42'58.6632"W	14701.67	336.981	2.35	0.26	-2.34	
22081.00	90.060	340.270	7084.89	14761.59	13618.83	-5782.49	1720281.10	14386150.80	39°36'55.6537"N	80°42'59.0894"W	14795.60	336.994	2.64	-0.17	2.64	
22176.00	90.120	340.110	7084.74	14856.58	13708.21	-5814.69	1720248.92	14386240.14	39°36'56.5380"N	80°42'59.4972"W	14890.45	337.015	0.18	0.06	-0.17	
22270.00	90.550	340.230	7084.19	14950.57	13796.63	-5846.58	1720217.04	14386328.53	39°36'57.4129"N	80°42'59.9011"W	14984.31	337.034	0.47	0.46	0.13	
22365.00	90.620	340.340	7083.22	15045.56	13886.06	-5878.62	1720185.01	14386417.93	39°36'58.2977"N	80°43'0.3070"W	15079.15	337.055	0.14	0.07	0.12	

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Springer Unit 1H AWP Proj: 27198'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Springer Unit 1H
Field	Wetzel	UWI	47-103-03738-0000
Facility	Galmish Pad	Wellbore	Springer Unit 1H AWB
Slot	Slot L		

WELLPATH DATA (292 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
22460.00	90.400	339.500	7082.38	15140.54	13975.28	-5911.24	1720152.41	14386507.11	39°36'59.1805"N	80°43'0.7202"W	15174.03	337.073	0.91	-0.23	-0.88	
22554.00	90.180	339.980	7081.90	15234.52	14063.46	-5943.79	1720119.87	14386595.26	39°37'0.0530"N	80°43'1.1325"W	15267.93	337.089	0.56	-0.23	0.51	
22649.00	90.280	340.220	7081.52	15329.51	14152.79	-5976.12	1720087.55	14386684.55	39°37'0.9369"N	80°43'1.5421"W	15362.80	337.108	0.27	0.11	0.25	
22744.00	90.280	339.750	7081.06	15424.50	14242.05	-6008.64	1720055.05	14386773.78	39°37'1.8201"N	80°43'1.9540"W	15457.68	337.125	0.49	0.00	-0.49	
22838.00	90.150	339.900	7080.70	15518.48	14330.28	-6041.06	1720022.64	14386861.97	39°37'2.6931"N	80°43'2.3647"W	15551.57	337.142	0.21	-0.14	0.16	
22932.00	90.400	340.040	7080.25	15612.47	14418.60	-6073.25	1719990.46	14386950.25	39°37'3.5669"N	80°43'2.7726"W	15645.46	337.159	0.30	0.27	0.15	
23027.00	90.120	339.710	7079.82	15707.45	14507.80	-6105.94	1719957.78	14387039.42	39°37'4.4495"N	80°43'3.1867"W	15740.35	337.175	0.46	-0.29	-0.35	
23122.00	90.490	341.580	7079.31	15802.45	14597.42	-6137.42	1719926.31	14387129.01	39°37'5.3362"N	80°43'3.5854"W	15835.17	337.196	2.01	0.39	1.97	
23216.00	90.370	341.130	7078.61	15896.44	14686.48	-6167.47	1719896.27	14387218.03	39°37'6.2174"N	80°43'3.9658"W	15928.92	337.220	0.50	-0.13	-0.48	
23311.00	90.460	341.100	7077.92	15991.44	14776.37	-6198.22	1719865.54	14387307.88	39°37'7.1067"N	80°43'4.3551"W	16023.70	337.243	0.10	0.09	-0.03	
23405.00	90.680	341.030	7076.99	16085.43	14865.28	-6228.72	1719835.05	14387396.76	39°37'7.9863"N	80°43'4.7413"W	16117.49	337.266	0.25	0.23	-0.07	
23500.00	90.800	341.520	7075.76	16180.42	14955.24	-6259.22	1719804.57	14387486.69	39°37'8.8764"N	80°43'5.1274"W	16212.25	337.289	0.53	0.13	0.52	
23595.00	90.680	340.990	7074.53	16275.41	15045.19	-6289.74	1719774.05	14387576.60	39°37'9.7664"N	80°43'5.5139"W	16307.02	337.312	0.57	-0.13	-0.56	
23689.00	90.710	341.170	7073.39	16369.40	15134.11	-6320.22	1719743.59	14387665.48	39°37'10.6461"N	80°43'5.8997"W	16400.81	337.334	0.19	0.03	0.19	
23784.00	90.520	341.180	7072.37	16464.40	15224.02	-6350.87	1719712.95	14387755.36	39°37'11.5356"N	80°43'6.2878"W	16495.59	337.356	0.20	-0.20	0.01	
23878.00	90.370	341.040	7071.64	16558.39	15312.96	-6381.30	1719682.53	14387844.26	39°37'12.4155"N	80°43'6.6732"W	16589.39	337.377	0.22	-0.16	-0.15	
23973.00	90.400	340.730	7071.00	16653.39	15402.72	-6412.41	1719651.43	14387933.98	39°37'13.3036"N	80°43'7.0671"W	16684.21	337.397	0.33	0.03	-0.33	
24068.00	90.460	341.090	7070.29	16748.39	15492.49	-6443.48	1719620.37	14388023.72	39°37'14.1918"N	80°43'7.4605"W	16779.03	337.417	0.38	0.06	0.38	
24162.00	90.430	341.310	7069.56	16842.38	15581.47	-6473.77	1719590.09	14388112.67	39°37'15.0721"N	80°43'7.8441"W	16872.82	337.438	0.24	-0.03	0.23	
24256.00	90.400	341.350	7068.88	16936.38	15670.52	-6503.86	1719560.02	14388201.69	39°37'15.9532"N	80°43'8.2250"W	16966.60	337.460	0.05	-0.03	0.04	
24351.00	90.400	341.050	7068.22	17031.38	15760.45	-6534.48	1719529.41	14388291.58	39°37'16.8429"N	80°43'8.6126"W	17061.40	337.480	0.32	0.00	-0.32	
24446.00	90.430	341.260	7067.53	17126.37	15850.36	-6565.16	1719498.74	14388381.45	39°37'17.7324"N	80°43'9.0012"W	17156.20	337.501	0.22	0.03	0.22	
24541.00	90.460	341.260	7066.79	17221.37	15940.32	-6595.68	1719468.23	14388471.37	39°37'18.6224"N	80°43'9.3876"W	17250.99	337.522	0.03	0.03	0.00	
24635.00	90.400	341.270	7066.09	17315.36	16029.34	-6625.88	1719438.05	14388560.36	39°37'19.5031"N	80°43'9.7699"W	17344.79	337.542	0.06	-0.06	0.01	
24729.00	90.120	341.250	7065.66	17409.36	16118.35	-6656.07	1719407.87	14388649.34	39°37'20.3838"N	80°43'10.1522"W	17438.59	337.562	0.30	-0.30	-0.02	
24824.00	90.150	341.230	7065.44	17504.36	16208.30	-6686.63	1719377.32	14388739.25	39°37'21.2738"N	80°43'10.5391"W	17533.40	337.582	0.04	0.03	-0.02	
24919.00	90.250	341.190	7065.10	17599.35	16298.24	-6717.23	1719346.74	14388829.16	39°37'22.1636"N	80°43'10.9265"W	17628.21	337.601	0.11	0.11	-0.04	
25013.00	90.280	341.190	7064.67	17693.35	16387.22	-6747.53	1719316.44	14388918.10	39°37'23.0439"N	80°43'11.3103"W	17722.03	337.620	0.03	0.03	0.00	
25108.00	90.280	341.390	7064.20	17788.35	16477.20	-6778.01	1719285.98	14389008.04	39°37'23.9341"N	80°43'11.6961"W	17816.83	337.640	0.21	0.00	0.21	
25203.00	90.370	341.310	7063.67	17883.34	16567.21	-6808.39	1719255.61	14389098.02	39°37'24.8246"N	80°43'12.0808"W	17911.63	337.660	0.13	0.09	-0.08	

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Springer Unit 1H
Field	Wetzel	UWI	47-103-03738-0000
Facility	Galmish Pad	Wellbore	Springer Unit 1H AWB
Slot	Slot L		

WELLPATH DATA (292 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
25297.00	90.250	341.270	7063.16	17977.34	16656.24	-6838.54	1719225.47	14389187.01	39°37'25.7054"N	80°43'12.4626"W	18005.44	337.678	0.13	-0.13	-0.04	
25392.00	90.400	341.230	7062.62	18072.34	16746.20	-6869.08	1719194.95	14389276.93	39°37'26.5954"N	80°43'12.8492"W	18100.26	337.697	0.16	0.16	-0.04	
25486.00	90.340	341.300	7062.01	18166.33	16835.21	-6899.27	1719164.77	14389365.92	39°37'27.4761"N	80°43'13.2315"W	18194.07	337.716	0.10	-0.06	0.07	
25580.00	90.430	341.420	7061.38	18260.33	16924.28	-6929.31	1719134.74	14389454.95	39°37'28.3573"N	80°43'13.6119"W	18287.88	337.734	0.16	0.10	0.13	
25675.00	90.460	341.320	7060.64	18355.32	17014.30	-6959.66	1719104.40	14389544.93	39°37'29.2479"N	80°43'13.9962"W	18382.69	337.753	0.11	0.03	-0.11	
25769.00	90.430	341.260	7059.91	18449.32	17103.33	-6989.81	1719074.26	14389633.93	39°37'30.1287"N	80°43'14.3780"W	18476.51	337.771	0.07	-0.03	-0.06	
25864.00	90.370	341.320	7059.25	18544.31	17193.31	-7020.28	1719043.80	14389723.87	39°37'31.0189"N	80°43'14.7638"W	18571.33	337.789	0.09	-0.06	0.06	
25959.00	90.400	341.270	7058.61	18639.31	17283.29	-7050.75	1719013.35	14389813.82	39°37'31.9092"N	80°43'15.1496"W	18666.15	337.807	0.06	0.03	-0.05	
26054.00	90.430	341.390	7057.92	18734.30	17373.29	-7081.16	1718982.95	14389903.78	39°37'32.7996"N	80°43'15.5346"W	18760.97	337.825	0.13	0.03	0.13	
26149.00	90.340	341.180	7057.28	18829.30	17463.26	-7111.64	1718952.48	14389993.72	39°37'33.6897"N	80°43'15.9206"W	18855.79	337.842	0.24	-0.09	-0.22	
26245.00	90.460	341.220	7056.61	18925.29	17554.14	-7142.58	1718921.55	14390084.56	39°37'34.5888"N	80°43'16.3124"W	18951.63	337.859	0.13	0.13	0.04	
26339.00	90.400	341.470	7055.91	19019.29	17643.20	-7172.64	1718891.50	14390173.58	39°37'35.4699"N	80°43'16.6931"W	19045.45	337.876	0.27	-0.06	0.27	
26434.00	90.310	341.480	7055.32	19114.28	17733.27	-7202.83	1718861.33	14390263.62	39°37'36.3611"N	80°43'17.0753"W	19140.26	337.894	0.10	-0.09	0.01	
26528.00	90.370	341.410	7054.76	19208.27	17822.38	-7232.74	1718831.43	14390352.70	39°37'37.2427"N	80°43'17.4540"W	19234.08	337.912	0.10	0.06	-0.07	
26623.00	90.280	341.370	7054.22	19303.27	17912.42	-7263.06	1718801.12	14390442.70	39°37'38.1334"N	80°43'17.8379"W	19328.91	337.929	0.10	-0.09	-0.04	
26718.00	90.650	341.250	7053.45	19398.26	18002.40	-7293.50	1718770.69	14390532.65	39°37'39.0237"N	80°43'18.2234"W	19423.74	337.945	0.41	0.39	-0.13	
26812.00	90.680	341.120	7052.36	19492.25	18091.37	-7323.81	1718740.39	14390621.58	39°37'39.9039"N	80°43'18.6073"W	19517.58	337.961	0.14	0.03	-0.14	
26907.00	90.830	341.330	7051.11	19587.24	18181.31	-7354.38	1718709.83	14390711.48	39°37'40.7937"N	80°43'18.9944"W	19612.42	337.977	0.27	0.16	0.22	
27001.00	90.680	341.350	7049.87	19681.23	18270.36	-7384.46	1718679.77	14390800.50	39°37'41.6747"N	80°43'19.3752"W	19706.25	337.993	0.16	-0.16	0.02	
27096.00	90.890	341.410	7048.57	19776.22	18360.38	-7414.79	1718649.45	14390890.48	39°37'42.5653"N	80°43'19.7593"W	19801.08	338.009	0.23	0.22	0.06	
27173.00	90.920	341.360	7047.35	19853.21	18433.34	-7439.36	1718624.89	14390963.42	39°37'43.2872"N	80°43'20.0705"W	19877.93	338.022	0.08	0.04	-0.06	
27198.00†	90.920	341.360	7046.95	19878.20	18457.03	-7447.35	1718616.90	14390987.09	39°37'43.5215"N	80°43'20.1717"W	19902.89	338.026	0.00	0.00	0.00	Projected MD at TD: 27198'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Springer Unit 1H
Field	Wetzel	UWI	47-103-03738-0000
Facility	Galmish Pad	Wellbore	Springer Unit 1H AWB
Slot	Slot L		

DIRECTIONAL DIFFICULTY INDEX

Directional Difficulty Index @ TD = 7.33		Reference: IADC/SPE 59196	
Values	Wellpath characterized as:	Values	Wellpath characterized as:
< 6.0	Relatively short or simple profiles with low tortuosity	6.4-6.8	Longer with relatively tortuous well paths
< 6.0-6.4	Shorter with high tortuosity or longer with lower tortuosity	> 6.8	Long tortuous profiles, high degree of difficulty

HOLE & CASING SECTIONS - Ref Wellbore: Springer Unit 1H AWB Ref Wellpath: Springer Unit 1H AWP Proj: 27198'

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	129.99	0.00	0.00	0.19	-1.31
17 1/2in Open Hole	130.00	383.00	253.00	129.99	382.98	0.19	-1.31	0.28	-3.20
13 3/8in Casing Surface	30.00	363.00	333.00	30.00	362.98	0.00	0.00	0.28	-3.19
12 1/4in Open Hole	383.00	3577.00	3194.00	382.98	3538.16	0.28	-3.20	-377.47	-290.56
9 5/8in Casing Intermediate	30.00	3547.00	3517.00	30.00	3508.39	0.00	0.00	-374.29	-288.64
8 3/4in Open Hole	3577.00	6326.00	2749.00	3538.16	6260.10	-377.47	-290.56	-665.84	-539.13
8 1/2in Open Hole	6326.00	27198.00	20872.00	6260.10	7046.95	-665.84	-539.13	18457.03	-7447.35
5 1/2in Casing Production	30.00	27178.00	27148.00	30.00	7047.27	0.00	0.00	18438.08	-7440.96

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Actual Wellpath Report

Springer Unit 1H AWP Proj: 27198'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Springer Unit 1H
Field	Wetzel	UWI	47-103-03738-0000
Facility	Galmish Pad	Wellbore	Springer Unit 1H AWB
Slot	Slot L		

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Springer Unit 1H POE Rev-2	7026.00	-270.07	-859.91	1725201.75	14372267.37	39°34'38.2295"N	80°41'56.7834"W	point
Springer Unit 1H POE Rev-3	7038.00	-270.07	-859.91	1725201.75	14372267.37	39°34'38.2295"N	80°41'56.7834"W	point
Springer Unit 1H POE Rev-1	7041.00	-270.07	-859.91	1725201.75	14372267.37	39°34'38.2295"N	80°41'56.7834"W	point
Springer Unit 1H BHL Rev-2	7054.00	18339.79	-7407.41	1718656.83	14390869.90	39°37'42.3616"N	80°43'19.6658"W	point
Springer Unit 1H BHL Rev-3	7054.00	18479.65	-7455.90	1718608.36	14391009.71	39°37'43.7453"N	80°43'20.2800"W	point
Springer Unit 1H AZI Rev-3	7066.00	278.63	-1145.24	1724916.53	14372815.86	39°34'43.6618"N	80°42'0.4040"W	point
Springer Unit 1H BHL Rev-1	7066.00	18339.79	-7407.41	1718656.83	14390869.90	39°37'42.3616"N	80°43'19.6658"W	point
Springer Unit 1H BHL Rev-4	7066.00	18479.65	-7455.90	1718608.36	14391009.71	39°37'43.7453"N	80°43'20.2800"W	point

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Operator	ANTERO RESOURCES CORPORATION	Well	Springer Unit 1H
Field	Wetzel	UWI	47-103-03738-0000
Facility	Galmish Pad	Wellbore	Springer Unit 1H AWB
Slot	Slot L		

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Springer Unit 1H LP Rev-3	7066.00	-101.49	-964.34	1725097.36	14372435.88	39°34'39.8990"N	80°41'58.1099"W	point
Springer Unit 1H 50' L/R Hard Line	7500.00	9309.21	-4276.32	1721786.68	14381842.88	39°36'13.0137"N	80°42'40.0208"W	rectangle
2D Rectangle: 19116 x 100.								
Springer Unit 1H 50' L/R Hard Line R-2	7500.00	9379.14	-4300.57	1721762.44	14381912.78	39°36'13.7056"N	80°42'40.3277"W	rectangle
2D Rectangle: 19264 x 100.								

WELLPATH COMPOSITION - Ref Wellbore: Springer Unit 1H AWB Ref Wellpath: Springer Unit 1H AWP Proj: 27198'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
30.00	377.00	Gyrodata 2015 - GC+WIR+DPIPE	01_Gyrodata MS Gyro <17-1/2"> (100'-377')	Springer Unit 1H AWB	2025-08-20
377.00	3502.00	BH NaviTrak (2019) (Axial Corr+HRGM)	02_APS EM <12-1/4"> (377')(414'-3502')	Springer Unit 1H AWB	2025-08-20
3502.00	6250.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03_APS EM <8-3/4"> (3502')(3600'-6250')	Springer Unit 1H AWB	2025-09-15
6250.00	27198.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	04_BH Lucida <8-1/2"> (6250')(6301'-27173')	Springer Unit 1H AWB	2025-09-15

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Springer Unit 1H
Field	Wetzel	UWI	47-103-03738-0000
Facility	Galmish Pad	Wellbore	Springer Unit 1H AWB
Slot	Slot L		

COMMENTS

Wellpath general comments

API: 47-103-03738-0000
BH Job #: 112788913
Rig: H&P 519
Duration: 9/18/2025-9/22/2025
Gyrodata MS Gyro <17-1/2"> (100'-377')
APS EM <12-1/4"> (377')(414'-3502')
APS EM <8-3/4"> (3502')(3600'-6250')
BH Lucida <8-1/2"> (6250')(6301'-27173')
Sycamore: 6761' MD
Middlesex: 6921' MD
Burkett: 7065' MD
Tully: 7121' MD
Marcellus POE: 7338' MD
Projected MD at TD: 27198'

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