



ANTERO RESOURCES CORPORATION

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

Well: Quay Unit 2H
UWI: 47-103-03740-0000
Wellbore: Quay Unit 2H PWB
Wellpath: Quay Unit 2H PWP Rev-B.0



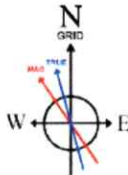
Plot reference wellpath is Quay Unit 2H PWP Rev-B.0	Grid System: NAD27 / UTM Zone 17 North, US feet
True vertical depths are referenced to H&P 519 (RKB)	North Reference: Grid north
Reference wellpath measured depths are referenced to H&P 519 (RKB)	Scale: True distance
H&P 519 (RKB) to Mean Sea Level: 1191 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (At Slot: Slot I): -1161 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's default MD datum	Created by: edusuryar on 2025-10-30; Database: WA_MPL_EASTERNUS_Debs

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	Longitude
Slot I	231.26	-132.33	1726084.150	14372497.960	39°34'40.4800N	80°41'45.5000W
Comment	Quay Unit 2H					
H&P 519 (RKB) to Ground level (At Slot: Slot I)					30ft	
Mean Sea Level to Ground level (At Slot: Slot I)					-1161ft	
H&P 519 (RKB) to Mean Sea Level					1191ft	

Gyrodata MS Gyro <17-1/2"> (100'-291') : 0.19° Inc, 100.00ft MD, 100.00ft TVD, -0.03ft VS

APS EM <12-1/4"> (291')(414'-3503') : 1.99° Inc, 414.00ft MD, 413.96ft TVD, -2.04ft VS



User specified (HDGM) Dip: 66.16° Field: 51441.5 nT
Magnetic North is 8.05 degrees West of True North (at 2025-10-15)
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 8.24 degrees

Evo EM <8-3/4"> (3503')(3584'-6326') : 11.17° Inc, 3584.00ft MD, 3518.32ft TVD, -200.32ft VS

Well Profile Data

Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	3503.00	12.330	92.570	3439.02	7.08	616.34	0.64	-194.47
Proj. to Bottom	3577.00	12.330	92.570	3511.31	6.38	632.13	0.00	-200.30
Drill Out	3657.00	12.330	92.570	3589.46	5.61	649.20	0.00	-206.59
End of 3D Arc	3692.36	12.438	89.310	3624.01	5.49	656.78	2.00	-209.18
Curve KOP	6489.62	12.438	89.310	6355.60	12.74	1259.21	0.00	-398.96
POE	7438.67	73.926	351.764	7056.00	545.59	1302.64	8.00	90.54
Landing Pt.	7640.85	90.100	351.764	7084.00	743.09	1274.06	8.00	286.55
End of 3D Arc	8001.44	90.100	340.946	7083.37	1092.99	1189.12	3.00	645.01
BHL	18487.26	90.100	340.946	7065.07	11004.31	-2234.01	0.00	11130.82

Well Data

Slot	Well	Wellbore	Wellpath
Slot I	Quay Unit 2H	Quay Unit 2H AWB	Quay Unit 2H AWP Proj. 18466'
Slot I	Quay Unit 2H	Quay Unit 2H PWB	Quay Unit 2H PWP Rev-B.0

BH Lucida <8-1/2"> (6326')(6374'-18441') : 8.77° Inc, 6374.00ft MD, 6243.45ft TVD, -398.09ft VS

Marcellus POE: 7430' MD : 73.40° Inc, 7430.00ft MD, 7052.52ft TVD, 84.30ft VS

Projected MD at TD: 18466' : 89.57° Inc, 18466.00ft MD, 7097.68ft TVD, 11109.16ft VS

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Marcellus POE: 7430' MD : 7052.52ft TVD, 536.56ft N, 1295.61ft E
BH Lucida <8-1/2"> (6326')(6374'-18441') : 6243.45ft TVD, 3.11ft N, 1228.68ft E
Evo EM <8-3/4"> (3503')(3584'-6326') : 3518.32ft TVD, 6.60ft N, 632.83ft E
APS EM <12-1/4"> (291')(414'-3503') : 413.96ft TVD, 0.89ft S, 3.67ft E
Gyrodata MS Gyro <17-1/2"> (100'-291') : 100.00ft TVD, 0.01ft N, 0.12ft E

Vertical Section (ft)
Azimuth 340.950° with reference 0.00 N, 0.00 E



Actual Wellpath Report

Quay Unit 2H AWP Proj: 18466'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Quay Unit 2H
Field	Wetzel	UWI	47-103-03740-0000
Facility	Galmish Pad	Wellbore	Quay Unit 2H AWB
Slot	Slot I		

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 2025-10-29 at 1:01:15 PM
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	231.26	-132.33	1726084.15	14372497.96	39°34'40.4800"N	80°41'45.5000"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 I)	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	340.950°

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Operator	ANTERO RESOURCES CORPORATION	Well	Quay Unit 2H
Field	Wetzel	UWI	47-103-03740-0000
Facility	Galmish Pad	Wellbore	Quay Unit 2H AWB
Slot	Slot I		

WELLPATH DATA (204 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	85.690	0.00	0.00	0.00	0.00	1726084.15	14372497.96	39°34'40.4800"N	80°41'45.5000"W	0.00	0.000	0.00	0.00	0.00	
30.00	0.000	85.690	30.00	0.00	0.00	0.00	1726084.15	14372497.96	39°34'40.4800"N	80°41'45.5000"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.190	85.690	100.00	-0.03	0.01	0.12	1726084.27	14372497.97	39°34'40.4801"N	80°41'45.4986"W	0.12	85.690	0.27	0.27	0.00	Gyrodata MS Gyro <17-1/2"> (100'-291')
200.00	0.260	102.700	200.00	-0.19	-0.03	0.50	1726084.65	14372497.93	39°34'40.4797"N	80°41'45.4936"W	0.50	93.269	0.10	0.07	17.01	
291.00	0.610	133.330	291.00	-0.73	-0.41	1.06	1726085.21	14372497.55	39°34'40.4759"N	80°41'45.4866"W	1.13	111.050	0.45	0.38	33.66	
414.00	1.990	90.910	413.96	-2.04	-0.89	3.67	1726087.82	14372497.07	39°34'40.4711"N	80°41'45.4532"W	3.77	103.635	1.30	1.12	-34.49	APS EM <12-1/4"> (291')(414'-3503')
504.00	4.350	83.830	503.82	-3.33	-0.55	8.62	1726092.77	14372497.41	39°34'40.4743"N	80°41'45.3899"W	8.64	93.633	2.65	2.62	-7.87	
594.00	6.210	84.730	593.43	-5.25	0.27	16.87	1726101.01	14372498.23	39°34'40.4820"N	80°41'45.2846"W	16.87	89.095	2.07	2.07	1.00	
684.00	7.680	91.270	682.77	-8.50	0.58	27.73	1726111.87	14372498.54	39°34'40.4848"N	80°41'45.1459"W	27.73	88.801	1.85	1.63	7.27	
774.00	8.900	93.120	771.83	-13.22	0.07	40.69	1726124.82	14372498.03	39°34'40.4793"N	80°41'44.9804"W	40.69	89.904	1.39	1.36	2.06	
864.00	10.710	96.630	860.51	-19.47	-1.28	55.95	1726140.08	14372496.68	39°34'40.4655"N	80°41'44.7856"W	55.97	91.307	2.12	2.01	3.90	
954.00	11.950	96.620	948.76	-27.13	-3.32	73.51	1726157.63	14372494.64	39°34'40.4447"N	80°41'44.5614"W	73.59	92.583	1.38	1.38	-0.01	
1044.00	12.250	96.390	1036.76	-35.27	-5.45	92.26	1726176.37	14372492.51	39°34'40.4230"N	80°41'44.3221"W	92.42	93.383	0.34	0.33	-0.26	
1138.00	11.620	96.120	1128.73	-43.58	-7.57	111.58	1726195.69	14372490.39	39°34'40.4014"N	80°41'44.0754"W	111.84	93.882	0.67	-0.67	-0.29	
1233.00	11.260	94.900	1221.84	-51.41	-9.38	130.34	1726214.43	14372488.58	39°34'40.3829"N	80°41'43.8359"W	130.67	94.118	0.46	-0.38	-1.28	
1328.00	12.650	90.460	1314.78	-58.65	-10.26	149.98	1726234.07	14372487.70	39°34'40.3735"N	80°41'43.5851"W	150.33	93.914	1.75	1.46	-4.67	
1422.00	12.370	87.250	1406.55	-64.91	-9.86	170.33	1726254.41	14372488.10	39°34'40.3768"N	80°41'43.3252"W	170.61	93.313	0.80	-0.30	-3.41	
1517.00	13.300	88.470	1499.17	-71.06	-9.08	191.42	1726275.49	14372488.88	39°34'40.3838"N	80°41'43.0559"W	191.63	92.716	1.02	0.98	1.28	
1612.00	13.410	88.090	1591.60	-77.60	-8.42	213.35	1726297.42	14372489.54	39°34'40.3896"N	80°41'42.7757"W	213.52	92.260	0.15	0.12	-0.40	
1706.00	12.680	85.450	1683.18	-83.39	-7.24	234.53	1726318.59	14372490.72	39°34'40.4006"N	80°41'42.5052"W	234.64	91.768	1.00	-0.78	-2.81	
1801.00	12.380	88.100	1775.92	-89.01	-6.07	255.10	1726339.15	14372491.89	39°34'40.4114"N	80°41'42.2424"W	255.17	91.364	0.68	-0.32	2.79	
1896.00	11.970	86.480	1868.78	-94.65	-5.13	275.11	1726359.15	14372492.83	39°34'40.4200"N	80°41'41.9868"W	275.16	91.069	0.56	-0.43	-1.71	
1991.00	12.550	87.980	1961.61	-100.31	-4.16	295.26	1726379.29	14372493.80	39°34'40.4289"N	80°41'41.7295"W	295.29	90.808	0.70	0.61	1.58	
2085.00	12.180	85.950	2053.43	-105.86	-3.10	315.36	1726399.38	14372494.86	39°34'40.4387"N	80°41'41.4728"W	315.37	90.564	0.61	-0.39	-2.16	
2180.00	11.700	83.670	2146.38	-110.58	-1.33	334.93	1726418.95	14372496.63	39°34'40.4556"N	80°41'41.2227"W	334.93	90.228	0.71	-0.51	-2.40	
2275.00	12.450	86.630	2239.28	-115.47	0.33	354.73	1726438.74	14372498.29	39°34'40.4714"N	80°41'40.9698"W	354.73	89.947	1.02	0.79	3.12	
2369.00	12.530	87.500	2331.05	-121.11	1.37	375.03	1726459.03	14372499.33	39°34'40.4810"N	80°41'40.7105"W	375.03	89.791	0.22	0.09	0.93	
2464.00	11.960	85.450	2423.89	-126.51	2.60	395.14	1726479.13	14372500.56	39°34'40.4924"N	80°41'40.4537"W	395.14	89.623	0.75	-0.60	-2.16	
2559.00	12.770	88.580	2516.69	-132.16	3.64	415.44	1726499.43	14372501.60	39°34'40.5021"N	80°41'40.1943"W	415.46	89.498	1.11	0.85	3.29	
2654.00	12.820	88.170	2609.33	-138.46	4.24	436.48	1726520.45	14372502.20	39°34'40.5072"N	80°41'39.9257"W	436.50	89.444	0.11	0.05	-0.43	

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Field	Wetzel	UWI	47-103-03740-0000
Facility	Galmish Pad	Wellbore	Quay Unit 2H AWB
Slot	Slot I		

WELLPATH DATA (204 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
2748.00	12.180	84.450	2701.10	-143.86	5.53	456.77	1726540.74	14372503.49	39°34'40.5193"N	80°41'39.6664"W	456.80	89.306	1.09	-0.68	-3.96	
2843.00	12.520	89.240	2793.90	-149.43	6.64	477.04	1726561.00	14372504.59	39°34'40.5296"N	80°41'39.4075"W	477.09	89.203	1.14	0.36	5.04	
2938.00	12.630	91.310	2886.63	-156.27	6.54	497.72	1726581.67	14372504.49	39°34'40.5279"N	80°41'39.1434"W	497.76	89.248	0.49	0.12	2.18	
3032.00	11.630	88.070	2978.53	-162.64	6.62	517.46	1726601.41	14372504.58	39°34'40.5281"N	80°41'38.8912"W	517.51	89.267	1.29	-1.06	-3.45	
3127.00	12.560	90.620	3071.42	-168.93	6.83	537.36	1726621.30	14372504.79	39°34'40.5295"N	80°41'38.6371"W	537.41	89.272	1.13	0.98	2.68	
3222.00	12.180	89.140	3164.21	-175.54	6.87	557.71	1726641.64	14372504.83	39°34'40.5292"N	80°41'38.3772"W	557.76	89.294	0.52	-0.40	-1.56	
3316.00	11.240	88.070	3256.25	-181.33	7.33	576.79	1726660.71	14372505.28	39°34'40.5331"N	80°41'38.1336"W	576.83	89.272	1.03	-1.00	-1.14	
3411.00	12.660	90.320	3349.19	-187.51	7.58	596.45	1726680.37	14372505.54	39°34'40.5349"N	80°41'37.8825"W	596.50	89.272	1.57	1.49	2.37	
3503.00	12.330	92.570	3439.02	-194.47	7.08	616.34	1726700.25	14372505.04	39°34'40.5293"N	80°41'37.6284"W	616.39	89.341	0.64	-0.36	2.45	
3584.00	11.170	90.740	3518.32	-200.32	6.60	632.83	1726716.73	14372504.55	39°34'40.5239"N	80°41'37.4179"W	632.86	89.403	1.50	-1.43	-2.26	Evo EM <8-3/4"> (3503')(3584'-6326')
3678.00	12.670	90.750	3610.29	-206.89	6.34	652.24	1726736.14	14372504.30	39°34'40.5208"N	80°41'37.1700"W	652.27	89.443	1.60	1.60	0.01	
3773.00	12.880	90.630	3702.94	-213.99	6.09	673.25	1726757.13	14372504.05	39°34'40.5176"N	80°41'36.9018"W	673.28	89.482	0.22	0.22	-0.13	
3868.00	12.180	88.820	3795.67	-220.63	6.18	693.86	1726777.73	14372504.14	39°34'40.5178"N	80°41'36.6386"W	693.88	89.490	0.84	-0.74	-1.91	
3962.00	13.410	92.540	3887.34	-227.68	5.90	714.66	1726798.53	14372503.86	39°34'40.5143"N	80°41'36.3729"W	714.68	89.527	1.57	1.31	3.96	
4057.00	13.720	92.810	3979.69	-235.93	4.86	736.92	1726820.78	14372502.82	39°34'40.5033"N	80°41'36.0887"W	736.93	89.622	0.33	0.33	0.28	
4151.00	12.840	89.930	4071.18	-243.48	4.33	758.50	1726842.35	14372502.29	39°34'40.4973"N	80°41'35.8131"W	758.51	89.673	1.17	-0.94	-3.06	
4246.00	13.210	91.020	4163.73	-250.64	4.15	779.91	1726863.75	14372502.10	39°34'40.4948"N	80°41'35.5397"W	779.92	89.695	0.47	0.39	1.15	
4340.00	13.080	89.830	4255.27	-257.76	3.99	801.28	1726885.12	14372501.95	39°34'40.4925"N	80°41'35.2667"W	801.29	89.715	0.32	-0.14	-1.27	
4435.00	11.780	84.200	4348.04	-263.47	5.00	821.68	1726905.51	14372502.96	39°34'40.5018"N	80°41'35.0062"W	821.70	89.651	1.87	-1.37	-5.93	
4529.00	11.750	89.640	4440.07	-268.73	6.03	840.80	1726924.62	14372503.99	39°34'40.5113"N	80°41'34.7620"W	840.82	89.589	1.18	-0.03	5.79	
4624.00	12.890	96.040	4532.89	-276.33	4.97	861.01	1726944.82	14372502.93	39°34'40.5002"N	80°41'34.5039"W	861.02	89.669	1.87	1.20	6.74	
4718.00	12.490	92.220	4624.59	-284.46	3.48	881.59	1726965.40	14372501.44	39°34'40.4847"N	80°41'34.2411"W	881.60	89.774	0.99	-0.43	-4.06	
4813.00	13.000	91.040	4717.25	-291.86	2.89	902.54	1726986.34	14372500.84	39°34'40.4782"N	80°41'33.9736"W	902.55	89.817	0.60	0.54	-1.24	
4907.00	12.480	87.410	4808.94	-298.37	3.15	923.26	1727007.05	14372501.11	39°34'40.4801"N	80°41'33.7090"W	923.27	89.804	1.02	-0.55	-3.86	
5002.00	12.570	88.910	4901.68	-304.46	3.81	943.85	1727027.63	14372501.77	39°34'40.4859"N	80°41'33.4460"W	943.86	89.769	0.36	0.09	1.58	
5096.00	12.940	89.370	4993.36	-310.94	4.12	964.60	1727048.37	14372502.08	39°34'40.4883"N	80°41'33.1810"W	964.61	89.755	0.41	0.39	0.49	
5191.00	12.620	92.450	5086.00	-318.11	3.80	985.61	1727069.37	14372501.76	39°34'40.4844"N	80°41'32.9128"W	985.61	89.779	0.79	-0.34	3.24	
5286.00	12.320	92.050	5178.76	-325.56	2.99	1006.10	1727089.86	14372500.95	39°34'40.4757"N	80°41'32.6510"W	1006.11	89.830	0.33	-0.32	-0.42	
5380.00	12.800	90.050	5270.51	-332.58	2.62	1026.54	1727110.28	14372500.58	39°34'40.4714"N	80°41'32.3901"W	1026.54	89.854	0.69	0.51	-2.13	
5475.00	12.720	89.330	5363.17	-339.32	2.74	1047.52	1727131.26	14372500.69	39°34'40.4718"N	80°41'32.1221"W	1047.52	89.850	0.19	-0.08	-0.76	

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WY Department of
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Actual Wellpath Report

Quay Unit 2H AWP Proj: 18466'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Quay Unit 2H
Field	Wetzel	UWI	47-103-03740-0000
Facility	Galmish Pad	Wellbore	Quay Unit 2H AWB
Slot	Slot I		

WELLPATH DATA (204 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
5569.00	13.170	91.390	5454.78	-346.32	2.60	1068.57	1727152.30	14372500.56	39°34'40.4697"N	80°41'31.8532"W	1068.58	89.861	0.69	0.48	2.19	
5664.00	12.080	89.740	5547.48	-353.30	2.38	1089.33	1727173.06	14372500.34	39°34'40.4669"N	80°41'31.5881"W	1089.34	89.875	1.21	-1.15	-1.74	
5759.00	12.880	91.930	5640.24	-360.30	2.07	1109.86	1727193.57	14372500.03	39°34'40.4631"N	80°41'31.3260"W	1109.86	89.893	0.98	0.84	2.31	
5853.00	13.350	94.360	5731.78	-368.36	0.89	1131.15	1727214.85	14372498.85	39°34'40.4507"N	80°41'31.0542"W	1131.15	89.955	0.77	0.50	2.59	
5948.00	11.900	90.000	5824.49	-375.91	0.06	1151.88	1727235.58	14372498.02	39°34'40.4418"N	80°41'30.7894"W	1151.88	89.997	1.83	-1.53	-4.59	
6042.00	10.880	84.400	5916.64	-381.14	0.92	1170.40	1727254.09	14372498.88	39°34'40.4497"N	80°41'30.5528"W	1170.40	89.955	1.60	-1.09	-5.96	
6137.00	10.770	86.220	6009.95	-385.56	2.38	1188.18	1727271.87	14372500.34	39°34'40.4635"N	80°41'30.3257"W	1188.19	89.885	0.38	-0.12	1.92	
6231.00	9.620	88.820	6102.46	-390.29	3.12	1204.80	1727288.48	14372501.08	39°34'40.4703"N	80°41'30.1135"W	1204.80	89.851	1.32	-1.22	2.77	
6326.00	9.900	91.390	6196.09	-395.57	3.09	1220.90	1727304.57	14372501.05	39°34'40.4694"N	80°41'29.9079"W	1220.91	89.855	0.55	0.29	2.71	
6374.00	8.770	88.020	6243.45	-398.09	3.11	1228.68	1727312.35	14372501.07	39°34'40.4694"N	80°41'29.8085"W	1228.69	89.855	2.61	-2.35	-7.02	BH Lucida <8-1/2"> (6326')(6374'-18441')
6469.00	13.430	81.790	6336.65	-402.29	4.94	1246.85	1727330.51	14372502.90	39°34'40.4868"N	80°41'29.5764"W	1246.86	89.773	5.06	4.91	-6.56	
6564.00	14.420	55.080	6428.95	-401.13	13.30	1267.49	1727351.14	14372511.25	39°34'40.5687"N	80°41'29.3124"W	1267.56	89.399	6.78	1.04	-28.12	
6658.00	17.500	35.480	6519.39	-389.72	31.52	1285.31	1727368.95	14372529.47	39°34'40.7483"N	80°41'29.0841"W	1285.70	88.595	6.56	3.28	-20.85	
6753.00	22.510	20.420	6608.68	-367.36	60.23	1299.96	1727383.60	14372558.17	39°34'41.0315"N	80°41'28.8957"W	1301.36	87.347	7.53	5.27	-15.85	
6848.00	28.830	13.090	6694.29	-333.89	99.64	1311.51	1727395.14	14372597.56	39°34'41.4205"N	80°41'28.7465"W	1315.29	85.656	7.43	6.65	-7.72	
6851.00†	29.034	12.846	6696.91	-332.66	101.05	1311.84	1727395.47	14372598.97	39°34'41.4345"N	80°41'28.7422"W	1315.72	85.595	7.84	6.79	-8.13	Sycamore: 6851' MD
6942.00	35.380	6.690	6773.89	-290.12	148.81	1319.82	1727403.46	14372646.71	39°34'41.9062"N	80°41'28.6381"W	1328.19	83.567	7.84	6.97	-6.77	
7014.00†	40.853	2.473	6830.53	-249.40	193.08	1323.27	1727406.90	14372690.96	39°34'42.3436"N	80°41'28.5922"W	1337.28	81.699	8.41	7.60	-5.86	Middlesex: 7014' MD
7037.00	42.630	1.320	6847.69	-235.10	208.38	1323.78	1727407.41	14372706.26	39°34'42.4949"N	80°41'28.5850"W	1340.08	81.054	8.41	7.72	-5.01	
7132.00	50.200	358.150	6913.14	-169.98	277.12	1323.34	1727406.97	14372774.98	39°34'43.1743"N	80°41'28.5876"W	1352.04	78.172	8.32	7.97	-3.34	
7156.00†	52.086	357.429	6928.20	-152.09	295.80	1322.62	1727406.25	14372793.64	39°34'43.3589"N	80°41'28.5960"W	1355.29	77.393	8.20	7.86	-3.00	Burkett: 7156' MD
7212.00†	56.503	355.882	6960.88	-108.33	341.18	1319.95	1727403.58	14372839.01	39°34'43.8075"N	80°41'28.6281"W	1363.33	75.507	8.20	7.89	-2.76	Tully: 7212' MD
7226.00	57.610	355.520	6968.49	-96.96	352.90	1319.07	1727402.70	14372850.72	39°34'43.9233"N	80°41'28.6389"W	1365.46	75.022	8.20	7.91	-2.58	
7321.00	65.200	351.970	7013.94	-15.68	435.72	1309.89	1727393.53	14372933.51	39°34'44.7422"N	80°41'28.7524"W	1380.46	71.601	8.64	7.99	-3.74	
7415.00	72.170	351.910	7048.08	70.23	522.37	1297.62	1727381.26	14373020.13	39°34'45.5990"N	80°41'28.9053"W	1398.82	68.072	7.42	7.41	-0.06	
7430.00†	73.403	351.934	7052.52	84.30	536.56	1295.61	1727379.25	14373034.31	39°34'45.7393"N	80°41'28.9304"W	1402.32	67.504	8.22	8.22	0.16	Marcellus POE: 7430' MD
7510.00	79.980	352.060	7070.93	160.66	613.61	1284.78	1727368.42	14373111.33	39°34'46.5011"N	80°41'29.0653"W	1423.79	64.471	8.22	8.22	0.16	
7605.00	88.280	352.090	7080.63	253.31	707.13	1271.76	1727355.41	14373204.81	39°34'47.4258"N	80°41'29.2275"W	1455.13	60.925	8.74	8.74	0.03	
7699.00	90.280	352.220	7081.82	345.50	800.24	1258.93	1727342.59	14373297.88	39°34'48.3465"N	80°41'29.3873"W	1491.74	57.558	2.13	2.13	0.14	
7794.00	90.180	348.610	7081.43	439.19	893.89	1243.11	1727326.78	14373391.50	39°34'49.2726"N	80°41'29.5851"W	1531.14	54.281	3.80	-0.11	-3.80	

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Field	Wetzel	UWI	47-103-03740-0000
Facility	Galmish Pad	Wellbore	Quay Unit 2H AWB
Slot	Slot I		

WELLPATH DATA (204 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
7888.00	90.520	345.100	7080.86	532.68	985.41	1221.74	1727305.41	14373482.99	39°34'50.1779"N	80°41'29.8541"W	1569.62	51.112	3.75	0.36	-3.73	
7983.00	90.520	341.690	7080.00	627.57	1076.44	1194.60	1727278.28	14373573.97	39°34'51.0784"N	80°41'30.1968"W	1608.04	47.978	3.59	0.00	-3.59	
8078.00	89.940	337.100	7079.62	722.51	1165.33	1161.17	1727244.87	14373662.83	39°34'51.9581"N	80°41'30.6197"W	1645.09	44.898	4.87	-0.61	-4.83	
8172.00	90.090	338.460	7079.59	816.37	1252.35	1125.63	1727209.34	14373749.82	39°34'52.8193"N	80°41'31.0699"W	1683.87	41.950	1.46	0.16	1.45	
8267.00	90.090	338.110	7079.44	911.26	1340.61	1090.48	1727174.20	14373838.04	39°34'53.6928"N	80°41'31.5150"W	1728.11	39.126	0.37	0.00	-0.37	
8361.00	90.180	340.370	7079.22	1005.22	1428.50	1057.16	1727140.90	14373925.90	39°34'54.5625"N	80°41'31.9366"W	1777.13	36.503	2.41	0.10	2.40	
8456.00	90.000	341.780	7079.07	1100.21	1518.36	1026.35	1727110.10	14374015.72	39°34'55.4517"N	80°41'32.3262"W	1832.71	34.057	1.50	-0.19	1.48	
8550.00	90.180	341.640	7078.92	1194.20	1607.61	996.85	1727080.61	14374104.94	39°34'56.3348"N	80°41'32.6991"W	1891.60	31.802	0.24	0.19	-0.15	
8645.00	88.650	341.930	7079.89	1289.19	1697.84	967.16	1727050.93	14374195.14	39°34'57.2276"N	80°41'33.0744"W	1953.99	29.668	1.64	-1.61	0.31	
8740.00	90.030	341.870	7080.99	1384.16	1788.14	937.65	1727021.43	14374285.39	39°34'58.1209"N	80°41'33.4473"W	2019.06	27.671	1.45	1.45	-0.06	
8834.00	90.000	341.600	7080.96	1478.16	1877.40	908.19	1726991.98	14374374.62	39°34'59.0041"N	80°41'33.8197"W	2085.53	25.815	0.29	-0.03	-0.29	
8929.00	90.180	342.020	7080.81	1573.15	1967.65	878.53	1726962.34	14374464.84	39°34'59.8971"N	80°41'34.1945"W	2154.87	24.060	0.48	0.19	0.44	
9023.00	90.120	341.630	7080.57	1667.13	2056.96	849.21	1726933.03	14374554.11	39°35'0.7807"N	80°41'34.5651"W	2225.37	22.433	0.42	-0.06	-0.41	
9118.00	89.970	341.900	7080.49	1762.12	2147.19	819.48	1726903.31	14374644.31	39°35'1.6735"N	80°41'34.9409"W	2298.26	20.890	0.33	-0.16	0.28	
9212.00	90.030	341.860	7080.49	1856.11	2236.53	790.25	1726874.09	14374733.61	39°35'2.5574"N	80°41'35.3103"W	2372.04	19.460	0.08	0.06	-0.04	
9307.00	90.120	341.790	7080.37	1951.10	2326.79	760.62	1726844.47	14374823.83	39°35'3.4505"N	80°41'35.6849"W	2447.96	18.102	0.12	0.09	-0.07	
9402.00	90.030	341.540	7080.24	2046.09	2416.97	730.73	1726814.60	14374913.97	39°35'4.3427"N	80°41'36.0626"W	2525.01	16.822	0.28	-0.09	-0.26	
9496.00	90.000	341.730	7080.22	2140.09	2506.18	701.12	1726784.99	14375003.15	39°35'5.2254"N	80°41'36.4370"W	2602.40	15.629	0.20	-0.03	0.20	
9591.00	89.970	341.710	7080.24	2235.08	2596.38	671.32	1726755.20	14375093.32	39°35'6.1179"N	80°41'36.8137"W	2681.77	14.497	0.04	-0.03	-0.02	
9686.00	90.000	341.850	7080.27	2330.07	2686.62	641.62	1726725.51	14375183.52	39°35'7.0108"N	80°41'37.1891"W	2762.17	13.432	0.15	0.03	0.15	
9780.00	90.000	341.330	7080.27	2424.06	2775.81	611.93	1726695.84	14375272.68	39°35'7.8932"N	80°41'37.5644"W	2842.46	12.432	0.55	0.00	-0.55	
9875.00	89.970	341.770	7080.29	2519.06	2865.93	581.86	1726665.78	14375362.76	39°35'8.7849"N	80°41'37.9445"W	2924.40	11.477	0.46	-0.03	0.46	
9970.00	90.030	341.630	7080.29	2614.05	2956.12	552.03	1726635.97	14375452.92	39°35'9.6773"N	80°41'38.3216"W	3007.22	10.578	0.16	0.06	-0.15	
10065.00	90.060	342.110	7080.22	2709.03	3046.41	522.47	1726606.42	14375543.17	39°35'10.5706"N	80°41'38.6952"W	3090.88	9.732	0.51	0.03	0.51	
10159.00	90.000	341.830	7080.17	2803.02	3135.79	493.38	1726577.33	14375632.52	39°35'11.4550"N	80°41'39.0629"W	3174.37	8.941	0.30	-0.06	-0.30	
10254.00	90.120	341.790	7080.07	2898.01	3226.04	463.72	1726547.69	14375722.73	39°35'12.3479"N	80°41'39.4378"W	3259.20	8.180	0.13	0.13	-0.04	
10348.00	89.940	341.900	7080.02	2992.00	3315.36	434.43	1726518.41	14375812.02	39°35'13.2317"N	80°41'39.8080"W	3343.70	7.465	0.22	-0.19	0.12	
10443.00	90.000	341.740	7080.07	3086.99	3405.62	404.79	1726488.78	14375902.24	39°35'14.1247"N	80°41'40.1827"W	3429.59	6.778	0.18	0.06	-0.17	
10538.00	89.910	341.650	7080.15	3181.98	3495.81	374.96	1726458.96	14375992.40	39°35'15.0171"N	80°41'40.5599"W	3515.86	6.122	0.13	-0.09	-0.09	
10632.00	89.970	341.740	7080.24	3275.97	3585.06	345.43	1726429.45	14376081.61	39°35'15.9001"N	80°41'40.9331"W	3601.66	5.504	0.12	0.06	0.10	

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10727.00	90.000	341.900	7080.27	3370.96	3675.31	315.79	1726399.82	14376171.83	39°35'16.7931"N	80°41'41.3078"W	3688.86	4.911	0.17	0.03	0.17	
10822.00	89.910	341.830	7080.34	3465.95	3765.59	286.22	1726370.26	14376262.07	39°35'17.6864"N	80°41'41.6815"W	3776.46	4.347	0.12	-0.09	-0.07	
10916.00	89.970	341.880	7080.44	3559.94	3854.92	256.95	1726341.00	14376351.36	39°35'18.5702"N	80°41'42.0516"W	3863.47	3.813	0.08	0.06	0.05	
11011.00	89.970	341.700	7080.49	3654.93	3945.16	227.26	1726311.32	14376441.57	39°35'19.4630"N	80°41'42.4269"W	3951.70	3.297	0.19	0.00	-0.19	
11105.00	90.000	340.320	7080.52	3748.92	4034.04	196.67	1726280.75	14376530.42	39°35'20.3425"N	80°41'42.8137"W	4038.84	2.791	1.47	0.03	-1.47	
11200.00	89.970	340.790	7080.54	3843.92	4123.63	165.05	1726249.13	14376619.96	39°35'21.2289"N	80°41'43.2138"W	4126.93	2.292	0.50	-0.03	0.49	
11294.00	90.000	340.790	7080.57	3937.92	4212.39	134.12	1726218.22	14376708.69	39°35'22.1072"N	80°41'43.6050"W	4214.53	1.824	0.03	0.03	0.00	
11389.00	89.970	340.740	7080.59	4032.92	4302.09	102.82	1726186.93	14376798.35	39°35'22.9948"N	80°41'44.0009"W	4303.32	1.369	0.06	-0.03	-0.05	
11484.00	90.030	340.750	7080.59	4127.92	4391.77	71.49	1726155.62	14376888.01	39°35'23.8822"N	80°41'44.3972"W	4392.36	0.933	0.06	0.06	0.01	
11578.00	90.030	340.690	7080.54	4221.92	4480.50	40.46	1726124.59	14376976.70	39°35'24.7601"N	80°41'44.7898"W	4480.68	0.517	0.06	0.00	-0.06	
11673.00	90.060	340.690	7080.47	4316.92	4570.16	9.04	1726093.19	14377066.32	39°35'25.6473"N	80°41'45.1872"W	4570.17	0.113	0.03	0.03	0.00	
11768.00	89.970	340.050	7080.44	4411.91	4659.64	-22.87	1726061.29	14377155.76	39°35'26.5327"N	80°41'45.5909"W	4659.69	359.719	0.68	-0.09	-0.67	
11862.00	90.150	341.900	7080.34	4505.91	4748.50	-53.51	1726030.66	14377244.59	39°35'27.4119"N	80°41'45.9785"W	4748.80	359.354	1.98	0.19	1.97	
11957.00	90.000	340.190	7080.22	4600.90	4838.34	-84.37	1725999.81	14377334.40	39°35'28.3009"N	80°41'46.3688"W	4839.08	359.001	1.81	-0.16	-1.80	
12051.00	90.000	340.600	7080.22	4694.90	4926.89	-115.91	1725968.29	14377422.91	39°35'29.1771"N	80°41'46.7678"W	4928.26	358.652	0.44	0.00	0.44	
12146.00	89.940	340.430	7080.27	4789.90	5016.45	-147.60	1725936.61	14377512.44	39°35'30.0633"N	80°41'47.1687"W	5018.62	358.315	0.19	-0.06	-0.18	
12240.00	90.000	340.570	7080.32	4883.89	5105.06	-178.98	1725905.24	14377601.01	39°35'30.9401"N	80°41'47.5657"W	5108.20	357.992	0.16	0.06	0.15	
12335.00	89.880	340.910	7080.42	4978.89	5194.74	-210.31	1725873.92	14377690.66	39°35'31.8275"N	80°41'47.9621"W	5199.00	357.682	0.38	-0.13	0.36	
12430.00	90.090	340.770	7080.44	5073.89	5284.48	-241.49	1725842.75	14377780.36	39°35'32.7154"N	80°41'48.3565"W	5290.00	357.383	0.27	0.22	-0.15	
12524.00	90.030	340.760	7080.34	5167.89	5373.23	-272.46	1725811.80	14377869.08	39°35'33.5936"N	80°41'48.7483"W	5380.14	357.097	0.06	-0.06	-0.01	
12619.00	90.090	340.570	7080.25	5262.89	5462.87	-303.91	1725780.36	14377958.68	39°35'34.4806"N	80°41'49.1462"W	5471.32	356.816	0.21	0.06	-0.20	
12714.00	89.170	341.280	7080.86	5357.89	5552.65	-334.96	1725749.32	14378048.43	39°35'35.3689"N	80°41'49.5389"W	5562.75	356.548	1.22	-0.97	0.75	
12808.00	90.030	340.600	7081.51	5451.88	5641.50	-365.65	1725718.64	14378137.24	39°35'36.2480"N	80°41'49.9272"W	5653.34	356.292	1.17	0.91	-0.72	
12902.00	90.000	340.680	7081.49	5545.88	5730.18	-396.82	1725687.49	14378225.89	39°35'37.1255"N	80°41'50.3214"W	5743.91	356.039	0.09	-0.03	0.09	
12997.00	89.940	340.880	7081.54	5640.88	5819.89	-428.09	1725656.23	14378315.56	39°35'38.0131"N	80°41'50.7170"W	5835.61	355.793	0.22	-0.06	0.21	
13091.00	89.970	340.630	7081.61	5734.88	5908.63	-459.07	1725625.26	14378404.27	39°35'38.8912"N	80°41'51.1090"W	5926.44	355.557	0.27	0.03	-0.27	
13186.00	90.000	340.940	7081.64	5829.88	5998.34	-490.34	1725594.01	14378493.94	39°35'39.7789"N	80°41'51.5045"W	6018.35	355.327	0.33	0.03	0.33	
13281.00	90.000	340.730	7081.64	5924.88	6088.08	-521.53	1725562.83	14378583.64	39°35'40.6668"N	80°41'51.8990"W	6110.37	355.104	0.22	0.00	-0.22	
13375.00	89.850	340.940	7081.76	6018.88	6176.87	-552.38	1725531.98	14378672.40	39°35'41.5453"N	80°41'52.2894"W	6201.52	354.890	0.27	-0.16	0.22	
13470.00	89.970	340.650	7081.91	6113.88	6266.58	-583.63	1725500.75	14378762.07	39°35'42.4330"N	80°41'52.6848"W	6293.70	354.679	0.33	0.13	-0.31	

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Actual Wellpath Report

Quay Unit 2H AWP Proj: 18466'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Quay Unit 2H
Field	Wetzel	U/W	47-103-03740-0000
Facility	Galmish Pad	Wellbore	Quay Unit 2H AWB
Slot	Slot I		

WELLPATH DATA (204 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
13564.00	90.400	341.250	7081.61	6207.88	6355.43	-614.32	1725470.08	14378850.89	39°35'43.3121"N	80°41'53.0729"W	6385.05	354.479	0.79	0.46	0.64	
13659.00	90.310	341.100	7081.02	6302.88	6445.35	-644.97	1725439.43	14378940.77	39°35'44.2018"N	80°41'53.4606"W	6477.54	354.286	0.18	-0.09	-0.16	
13754.00	90.370	340.710	7080.46	6397.87	6535.12	-676.05	1725408.37	14379030.51	39°35'45.0901"N	80°41'53.8537"W	6569.99	354.094	0.42	0.06	-0.41	
13848.00	90.770	341.120	7079.52	6491.87	6623.95	-706.78	1725377.65	14379119.30	39°35'45.9690"N	80°41'54.2425"W	6661.55	353.910	0.61	0.43	0.44	
13943.00	90.980	341.010	7078.07	6586.86	6713.80	-737.60	1725346.84	14379209.11	39°35'46.8580"N	80°41'54.6324"W	6754.19	353.730	0.25	0.22	-0.12	
14038.00	89.850	339.770	7077.38	6681.85	6803.28	-769.49	1725314.97	14379298.56	39°35'47.7434"N	80°41'55.0359"W	6846.66	353.547	1.77	-1.19	-1.31	
14132.00	89.200	339.920	7078.16	6775.83	6891.52	-801.87	1725282.59	14379386.77	39°35'48.6166"N	80°41'55.4458"W	6938.01	353.363	0.71	-0.69	0.16	
14227.00	90.280	341.190	7078.59	6870.82	6981.10	-833.50	1725250.98	14379476.31	39°35'49.5030"N	80°41'55.8460"W	7030.68	353.191	1.75	1.14	1.34	
14321.00	89.380	340.520	7078.87	6964.82	7069.90	-864.32	1725220.17	14379565.07	39°35'50.3816"N	80°41'56.2360"W	7122.53	353.030	1.19	-0.96	-0.71	
14416.00	89.750	341.180	7079.59	7059.81	7159.64	-895.49	1725189.02	14379654.78	39°35'51.2695"N	80°41'56.6302"W	7215.42	352.871	0.80	0.39	0.69	
14510.00	90.000	340.740	7079.80	7153.81	7248.49	-926.15	1725158.36	14379743.60	39°35'52.1487"N	80°41'57.0182"W	7307.42	352.719	0.54	0.27	-0.47	
14604.00	89.780	341.220	7079.98	7247.81	7337.36	-956.79	1725127.74	14379832.43	39°35'53.0280"N	80°41'57.4057"W	7399.48	352.571	0.56	-0.23	0.51	
14699.00	90.460	341.240	7079.78	7342.81	7427.31	-987.35	1725097.18	14379922.34	39°35'53.9180"N	80°41'57.7923"W	7492.65	352.428	0.72	0.72	0.02	
14794.00	89.170	341.360	7080.09	7437.81	7517.29	-1017.81	1725066.74	14380012.29	39°35'54.8083"N	80°41'58.1776"W	7585.88	352.289	1.36	-1.36	0.13	
14889.00	89.200	341.500	7081.44	7532.79	7607.33	-1048.06	1725036.50	14380102.30	39°35'55.6992"N	80°41'58.5602"W	7679.19	352.156	0.15	0.03	0.15	
14984.00	89.630	340.540	7082.41	7627.79	7697.16	-1078.96	1725005.62	14380192.09	39°35'56.5881"N	80°41'58.9510"W	7772.42	352.020	1.11	0.45	-1.01	
15079.00	90.340	341.750	7082.43	7722.78	7787.06	-1109.66	1724974.93	14380281.96	39°35'57.4776"N	80°41'59.3394"W	7865.73	351.890	1.48	0.75	1.27	
15174.00	87.660	339.410	7084.09	7817.75	7876.63	-1141.24	1724943.36	14380371.49	39°35'58.3638"N	80°41'59.7390"W	7958.88	351.756	3.74	-2.82	-2.46	
15269.00	89.720	340.980	7086.26	7912.71	7965.98	-1173.41	1724911.20	14380460.81	39°35'59.2479"N	80°42'0.1462"W	8051.94	351.620	2.73	2.17	1.65	
15364.00	89.780	341.030	7086.68	8007.71	8055.81	-1204.33	1724880.29	14380550.60	39°36'0.1367"N	80°42'0.5374"W	8145.33	351.497	0.08	0.06	0.05	
15458.00	90.180	340.450	7086.71	8101.71	8144.55	-1235.34	1724849.30	14380639.30	39°36'1.0148"N	80°42'0.9297"W	8237.70	351.375	0.75	0.43	-0.62	
15552.00	90.980	341.010	7085.76	8195.70	8233.27	-1266.36	1724818.29	14380727.99	39°36'1.8927"N	80°42'1.3222"W	8330.09	351.256	1.04	0.85	0.60	
15647.00	89.970	339.850	7084.97	8290.69	8322.78	-1298.18	1724786.48	14380817.46	39°36'2.7783"N	80°42'1.7249"W	8423.42	351.135	1.62	-1.06	-1.22	
15742.00	89.450	340.150	7085.45	8385.68	8412.05	-1330.67	1724754.00	14380906.70	39°36'3.6617"N	80°42'2.1362"W	8516.65	351.011	0.63	-0.55	0.32	
15836.00	89.940	339.980	7085.95	8479.66	8500.42	-1362.72	1724721.97	14380995.03	39°36'4.5361"N	80°42'2.5419"W	8608.95	350.892	0.55	0.52	-0.18	
15931.00	89.660	339.860	7086.28	8574.65	8589.64	-1395.33	1724689.36	14381084.22	39°36'5.4189"N	80°42'2.9547"W	8702.23	350.773	0.32	-0.29	-0.13	
16025.00	89.910	340.630	7086.63	8668.64	8678.11	-1427.11	1724657.61	14381172.65	39°36'6.2943"N	80°42'3.3569"W	8794.67	350.661	0.86	0.27	0.82	
16120.00	89.750	340.860	7086.92	8763.64	8767.79	-1458.43	1724626.29	14381262.30	39°36'7.1817"N	80°42'3.7533"W	8888.26	350.556	0.29	-0.17	0.24	
16214.00	89.690	340.660	7087.38	8857.64	8856.54	-1489.41	1724595.33	14381351.01	39°36'8.0599"N	80°42'4.1452"W	8980.90	350.454	0.22	-0.06	-0.21	
16309.00	90.370	340.330	7087.33	8952.63	8946.09	-1521.13	1724563.62	14381440.53	39°36'8.9459"N	80°42'4.5467"W	9074.49	350.350	0.80	0.72	-0.35	

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Actual Wellpath Report

Quay Unit 2H AWP Proj: 18466'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Quay Unit 2H
Field	Wetzel	UWI	47-103-03740-0000
Facility	Galmish Pad	Wellbore	Quay Unit 2H AWB
Slot	Slot I		

WELLPATH DATA (204 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
16403.00	89.600	340.180	7087.35	9046.63	9034.56	-1552.88	1724531.88	14381528.96	39°36'9.8213"N	80°42'4.9486"W	9167.05	350.247	0.83	-0.82	-0.16	
16498.00	89.630	339.010	7087.99	9141.60	9123.60	-1586.01	1724498.77	14381617.96	39°36'10.7024"N	80°42'5.3680"W	9260.42	350.139	1.23	0.03	-1.23	
16593.00	89.570	338.800	7088.65	9236.53	9212.23	-1620.20	1724464.59	14381706.56	39°36'11.5794"N	80°42'5.8010"W	9353.62	350.025	0.23	-0.06	-0.22	
16688.00	89.720	338.570	7089.24	9331.46	9300.73	-1654.73	1724430.07	14381795.03	39°36'12.4552"N	80°42'6.2384"W	9446.78	349.912	0.29	0.16	-0.24	
16782.00	89.750	339.080	7089.68	9425.39	9388.38	-1688.68	1724396.13	14381882.64	39°36'13.3226"N	80°42'6.6685"W	9539.04	349.803	0.54	0.03	0.54	
16877.00	89.570	339.800	7090.24	9520.35	9477.33	-1722.04	1724362.78	14381971.56	39°36'14.2028"N	80°42'7.0909"W	9632.50	349.702	0.78	-0.19	0.76	
16971.00	89.750	340.610	7090.80	9614.34	9565.77	-1753.88	1724330.96	14382059.96	39°36'15.0779"N	80°42'7.4939"W	9725.23	349.610	0.88	0.19	0.86	
17066.00	90.090	340.770	7090.93	9709.34	9655.42	-1785.29	1724299.56	14382149.58	39°36'15.9650"N	80°42'7.8914"W	9819.09	349.524	0.40	0.36	0.17	
17161.00	89.880	340.590	7090.96	9804.34	9745.07	-1816.72	1724268.14	14382239.20	39°36'16.8521"N	80°42'8.2892"W	9912.97	349.440	0.29	-0.22	-0.19	
17256.00	89.690	339.710	7091.31	9899.33	9834.43	-1848.98	1724235.90	14382328.52	39°36'17.7362"N	80°42'8.6975"W	10006.73	349.352	0.95	-0.20	-0.93	
17350.00	89.850	340.100	7091.69	9993.31	9922.71	-1881.27	1724203.62	14382416.76	39°36'18.6097"N	80°42'9.1064"W	10099.47	349.265	0.45	0.17	0.41	
17445.00	89.820	341.260	7091.96	10088.31	10012.35	-1912.70	1724172.20	14382506.37	39°36'19.4968"N	80°42'9.5042"W	10193.41	349.185	1.22	-0.03	1.22	
17540.00	89.780	341.110	7092.29	10183.31	10102.28	-1943.34	1724141.57	14382596.26	39°36'20.3865"N	80°42'9.8918"W	10287.50	349.111	0.16	-0.04	-0.16	
17635.00	89.910	341.370	7092.55	10278.31	10192.23	-1973.90	1724111.03	14382686.18	39°36'21.2765"N	80°42'10.2783"W	10381.61	349.039	0.31	0.14	0.27	
17729.00	89.970	340.710	7092.65	10372.31	10281.13	-2004.44	1724080.50	14382775.04	39°36'22.1561"N	80°42'10.6648"W	10474.70	348.968	0.71	0.06	-0.70	
17823.00	89.850	341.920	7092.80	10466.30	10370.17	-2034.55	1724050.40	14382864.05	39°36'23.0371"N	80°42'11.0458"W	10567.87	348.900	1.29	-0.13	1.29	
17918.00	89.540	341.920	7093.30	10561.29	10460.48	-2064.03	1724020.93	14382954.32	39°36'23.9306"N	80°42'11.4186"W	10662.17	348.838	0.33	-0.33	0.00	
18013.00	89.320	341.800	7094.25	10656.27	10550.75	-2093.61	1723991.37	14383044.56	39°36'24.8238"N	80°42'11.7927"W	10756.47	348.776	0.26	-0.23	-0.13	
18107.00	89.690	342.360	7095.06	10750.25	10640.19	-2122.53	1723962.46	14383133.96	39°36'25.7086"N	80°42'12.1584"W	10849.83	348.719	0.71	0.39	0.60	
18202.00	89.320	341.840	7095.88	10845.23	10730.59	-2151.73	1723933.27	14383224.32	39°36'26.6030"N	80°42'12.5276"W	10944.20	348.661	0.67	-0.39	-0.55	
18296.00	89.850	342.070	7096.56	10939.21	10819.96	-2180.84	1723904.16	14383313.66	39°36'27.4872"N	80°42'12.8959"W	11037.56	348.604	0.61	0.56	0.24	
18391.00	89.510	342.510	7097.09	11034.18	10910.46	-2209.74	1723875.28	14383404.12	39°36'28.3826"N	80°42'13.2613"W	11131.98	348.551	0.59	-0.36	0.46	
18441.00	89.570	342.060	7097.49	11084.17	10958.09	-2224.96	1723860.07	14383451.73	39°36'28.8538"N	80°42'13.4537"W	11181.68	348.523	0.91	0.12	-0.90	
18466.00†	89.570	342.060	7097.68	11109.16	10981.87	-2232.66	1723852.37	14383475.51	39°36'29.0891"N	80°42'13.5510"W	11206.52	348.508	0.00	0.00	0.00	Projected MD at TD: 18466'

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Actual Wellpath Report

Quay Unit 2H AWP Proj: 18466'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Quay Unit 2H
Field	Wetzel	UWI	47-103-03740-0000
Facility	Galmish Pad	Wellbore	Quay Unit 2H AWB
Slot	Slot I		

DIRECTIONAL DIFFICULTY INDEX

Directional Difficulty Index @ TD = 6.90		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: Quay Unit 2H AWB Ref Wellpath: Quay Unit 2H AWP Proj: 18466'

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	0.01	0.22
17 1/2in Open Hole	130.00	383.00	253.00	130.00	382.98	0.01	0.22	-0.85	2.70
13 3/8in Casing Surface	30.00	363.00	333.00	30.00	362.99	0.00	0.00	-0.79	2.18
12 1/4in Open Hole	383.00	3577.00	3194.00	382.98	3511.45	-0.85	2.70	6.61	631.47
9 5/8in Casing Intermediate	30.00	3547.00	3517.00	30.00	3482.05	0.00	0.00	6.75	625.50
8 3/4in Open Hole	3577.00	6403.00	2826.00	3511.45	6272.06	6.61	631.47	3.39	1233.45
8 1/2in Open Hole	6403.00	18466.00	12063.00	6272.06	7097.68	3.39	1233.45	10981.87	-2232.66
5 1/2in Casing Production	30.00	18446.00	18416.00	30.00	7097.53	0.00	0.00	10962.84	-2226.50

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Quay Unit 2H POE Rev-2	7026.00	545.59	1302.64	1727386.28	14373043.34	39°34'45.8283"N	80°41'28.8402"W	point
Quay Unit 2H POE Rev-1	7041.00	545.59	1302.64	1727386.28	14373043.34	39°34'45.8283"N	80°41'28.8402"W	point
Quay Unit 2H BHL Rev-2	7054.00	11004.31	-2234.01	1723851.02	14383497.94	39°36'29.3109"N	80°42'13.5674"W	point
Quay Unit 2H POE Rev-3	7056.00	545.59	1302.64	1727386.28	14373043.34	39°34'45.8283"N	80°41'28.8402"W	point
Quay Unit 2H BHL Rev-3	7065.07	11004.31	-2234.01	1723851.02	14383497.94	39°36'29.3109"N	80°42'13.5674"W	point
Quay Unit 2H BHL Rev-1	7066.00	11004.31	-2234.01	1723851.02	14383497.94	39°36'29.3109"N	80°42'13.5674"W	point
Quay Unit 2H AZI Rev-3	7083.37	1092.99	1189.12	1727272.80	14373590.52	39°34'51.2422"N	80°41'30.2660"W	point
Quay Unit 2H LP Rev-3	7084.00	743.09	1274.06	1727357.71	14373240.76	39°34'47.7812"N	80°41'29.1966"W	point

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Quay Unit 2H 50' L/R Hard Line	7250.00	6048.44	-522.37	1725561.98	14378544.02	39°35'40.2750"N	80°41'51.9116"W	rectangle

2D Rectangle: 10486.2 x 100.



Actual Wellpath Report

Quay Unit 2H AWP Proj: 18466'

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Field	Wetzel	UWI	47-103-03740-0000
Facility	Galmish Pad	Wellbore	Quay Unit 2H AWB
Slot	Slot I		

WELLPATH COMPOSITION - Ref Wellbore: Quay Unit 2H AWB Ref Wellpath: Quay Unit 2H AWP Proj: 18466'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
30.00	291.00	Gyrodatta 2015 - GC+WIR+DPIPE	01 Gyrodatta MS Gyro <17-1/2"> (100'-291')	Quay Unit 2H AWB	2025-08-13
291.00	3503.00	BH NaviTrak (2019) (Axial Corr+HRGM)	02 APS EM <12-1/4"> (291')(414'-3503')	Quay Unit 2H AWB	2025-08-13
3503.00	6326.00	OWSG MWD rev2 + HRGM + Axial Correction	03 Evo EM <8-3/4"> (3503')(3584'-6326')	Quay Unit 2H AWB	2025-10-15
6326.00	18466.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	04 BH Lucida <8-1/2"> (6326')(6374'-18441')	Quay Unit 2H AWB	2025-10-15

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Actual Wellpath Report

Quay Unit 2H AWP Proj: 18466'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Quay Unit 2H
Field	Wetzel	UWI	47-103-03740-0000
Facility	Galmish Pad	Wellbore	Quay Unit 2H AWB
Slot	Slot I		

COMMENTS

Wellpath general comments

API: 47-103-03740-0000

BH Job #: 112788907

Rig: H&P 519

Duration: 10/17/2025-10/20/2025

Gyrodatta MS Gyro <17-1/2"> (100'-291')

APS EM <12-1/4"> (291')(414'-3503')

Evo EM <8-3/4"> (3503')(3584'-6326')

BH Lucida <8-1/2"> (6326')(6374'-18441')

Sycamore: 6851' MD

Middlesex: 7014' MD

Burkett: 7156' MD

Tully: 7212' MD

Marcellus POE: 7430' MD

Projected MD at TD: 18466'

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