



# ANTERO RESOURCES CORPORATION

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

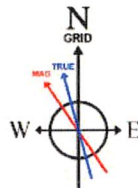
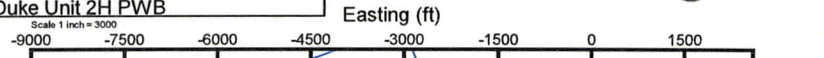
Slot: Slot H  
 Well: Duke Unit 2H  
 Wellbore: Duke Unit 2H PWB



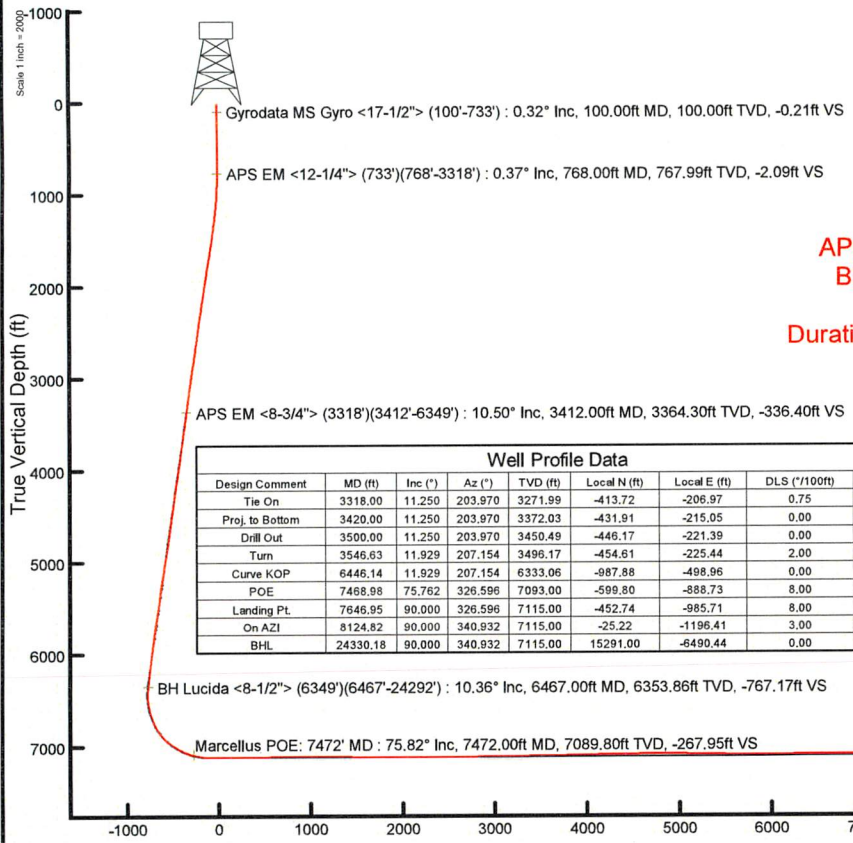
Plot reference wellpath is Duke Unit 2H PWP Rev-B.0	Grid System: NAD27 / UTM Zone 17 North, US feet
True vertical depths are referenced to H&P 317 (RKB)	North Reference: Grid north
Reference wellpath measured depths are referenced to H&P 317 (RKB)	Scale: True distance
H&P 317 (RKB) to Mean Sea Level: 1275.5 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (At Slot: Slot H): -1250 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's default MD datum	Created by: edsaryar on 2025-04-23; Database: WA_MPL_EASTERNUS_Dein

Location Information				
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Cedar Pad	1721002.500	14368725.810	39°34'3.3492"N	80°42'50.5764"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)
Slot H	56.70	304.18	1721306.560	14368782.490
			39°34'3.9000"N	80°42'46.8900"W
Comment	Duke Unit 2H			
H&P 317 (RKB) to Ground level (At Slot: Slot H)	25.5ft			
Mean Sea Level to Ground level (At Slot: Slot H)	-1250ft			
H&P 317 (RKB) to Mean Sea Level	1275.5ft			

Well Data				
Slot	Well	Wellbore	Wellpath	
Slot H	Duke Unit 2H	Duke Unit 2H AWB	Duke Unit 2H AWP Proj: 24317'	
Slot H	Duke Unit 2H	Duke Unit 2H PWB	Duke Unit 2H PWP Rev-B.0	



User specified (HDGM) Dip: 66.22° Field: 51513 nT  
 Magnetic North is 7.93 degrees West of True North (at 4/9/2025)  
 Grid North is 0.18 degrees East of True North  
 To correct azimuth from True to Grid subtract 0.18 degrees  
 To correct azimuth from Magnetic to Grid subtract 8.11 degrees



Well Profile Data								
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	3318.00	11.250	203.970	3271.99	-413.72	-206.97	0.75	-323.40
Proj. to Bottom	3420.00	11.250	203.970	3372.03	-431.91	-215.05	0.00	-337.94
Drill Out	3500.00	11.250	203.970	3450.49	-446.17	-221.39	0.00	-349.35
Turn	3546.63	11.929	207.154	3496.17	-454.61	-225.44	2.00	-356.00
Curve KOP	6446.14	11.929	207.154	6333.06	-987.88	-498.96	0.00	-770.64
POE	7488.98	75.762	326.596	7093.00	-599.80	-888.73	8.00	-276.51
Landing Pt.	7646.95	90.000	326.596	7115.00	-452.74	-985.71	8.00	-105.84
On AZI	8124.82	90.000	340.932	7115.00	-25.22	-1196.41	3.00	367.06
BHL	24330.18	90.000	340.932	7115.00	15291.00	-6490.44	0.00	16572.41

API: 47-103-03695-0000  
 BH Job #: 112590380  
 Rig: H&P 317  
 Duration: 4/12/2025-4/18/2025

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Marcellus POE: 7472' MD : 7089.80ft TVD, 591.99ft S, 892.35ft W  
 BH Lucida <8-1/2"> (6349')(6467'-24292') : 6353.86ft TVD, 985.96ft S, 504.03ft W  
 APS EM <8-3/4"> (3318')(3412'-6349') : 3364.30ft TVD, 429.95ft S, 214.12ft W  
 APS EM <12-1/4"> (733')(768'-3318') : 767.99ft TVD, 2.15ft S, 0.17ft E  
 Gyrodata MS Gyro <17-1/2"> (100'-733') : 100.00ft TVD, 0.20ft S, 0.07ft E

Projected MD at TD: 24317' : 90.00° Inc, 24317.00ft MD, 7066.94ft TVD, 16559.43ft VS

Scale 1 inch = 200'



# Actual Wellpath Report

Duke Unit 2H AWP Proj: 24317'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Duke Unit 2H
Field	Wetzel	API	47-103-03695-0000
Facility	Cedar Pad	Wellbore	Duke Unit 2H AWB
Slot	Slot H		

REPORT SETUP INFORMATION			
Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Edsaryar
Scale	0.999607	Report Generated	4/23/2025 at 3:54:06 PM
Convergence at slot	0.18° East	Database	WA_MPL_EASTERNUS_Defn

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	56.70	304.18	1721306.56	14368782.49	39°34'3.9000"N	80°42'46.6900"W
Facility Reference Pt			1721002.50	14368725.81	39°34'3.3492"N	80°42'50.5764"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 317 (RKB) to Facility Vertical Datum	1275.50ft
Horizontal Reference Pt	Slot	H&P 317 (RKB) to Mean Sea Level	1275.50ft
Vertical Reference Pt	H&P 317 (RKB)	H&P 317 (RKB) to Ground Level at Slot (Slot H)	25.50ft
MD Reference Pt	H&P 317 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	340.93°

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Duke Unit 2H AWP Proj: 24317'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Duke Unit 2H
Field	Wetzel	API	47-103-03695-0000
Facility	Cedar Pad	Wellbore	Duke Unit 2H AWB
Slot	Slot H		

WELLPATH DATA (265 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	159.930	0.00	0.00	0.00	0.00	1721306.56	14368782.49	39°34'3.9000"N	80°42'46.6900"W	0.00	0.000	0.00	0.00	0.00		
25.50	0.000	159.930	25.50	0.00	0.00	0.00	1721306.56	14368782.49	39°34'3.9000"N	80°42'46.6900"W	0.00	0.000	0.00	0.00	0.00		
100.00	0.320	159.930	100.00	-0.21	-0.20	0.07	1721306.63	14368782.29	39°34'3.8981"N	80°42'46.6891"W	0.21	159.930	0.43	0.43	0.00	Gyrodata MS Gyro <17-1/2"> (100'-733')	
200.00	0.310	185.790	200.00	-0.73	-0.73	0.14	1721306.70	14368781.76	39°34'3.8929"N	80°42'46.6882"W	0.74	169.103	0.14	-0.01	25.86		
300.00	0.160	111.120	300.00	-1.07	-1.05	0.24	1721306.80	14368781.44	39°34'3.8897"N	80°42'46.6869"W	1.07	166.931	0.31	-0.15	-74.67		
400.00	0.040	349.450	400.00	-1.12	-1.06	0.37	1721306.93	14368781.43	39°34'3.8895"N	80°42'46.6853"W	1.12	160.953	0.18	-0.12	-121.67		
500.00	0.140	184.130	500.00	-1.20	-1.15	0.35	1721306.91	14368781.34	39°34'3.8887"N	80°42'46.6855"W	1.20	162.999	0.18	0.10	-165.32		
600.00	0.110	148.190	600.00	-1.41	-1.35	0.39	1721306.95	14368781.14	39°34'3.8867"N	80°42'46.6850"W	1.41	163.792	0.08	-0.03	-35.94		
700.00	0.330	192.340	700.00	-1.75	-1.72	0.38	1721306.94	14368780.77	39°34'3.8831"N	80°42'46.6852"W	1.76	167.438	0.26	0.22	44.15		
733.00	0.480	204.980	733.00	-1.93	-1.93	0.30	1721306.86	14368780.56	39°34'3.8809"N	80°42'46.6862"W	1.96	171.076	0.53	0.45	38.30		
768.00	0.370	221.340	767.99	-2.09	-2.15	0.17	1721306.73	14368780.34	39°34'3.8788"N	80°42'46.6879"W	2.16	175.558	0.46	-0.31	46.74	APS EM <12-1/4"> (733')(768'-3318')	
864.00	1.480	206.070	863.98	-3.12	-3.50	-0.58	1721305.98	14368778.99	39°34'3.8655"N	80°42'46.6975"W	3.55	189.452	1.17	1.16	-15.91		
955.00	3.110	205.220	954.90	-5.71	-6.79	-2.15	1721304.41	14368775.71	39°34'3.8330"N	80°42'46.7177"W	7.12	197.582	1.79	1.79	-0.93		
1046.00	4.780	209.690	1045.69	-9.98	-12.31	-5.08	1721301.48	14368770.18	39°34'3.7785"N	80°42'46.7553"W	13.32	202.420	1.86	1.84	4.91		
1140.00	7.030	210.210	1139.18	-16.31	-20.69	-9.92	1721296.65	14368761.81	39°34'3.6959"N	80°42'46.8174"W	22.94	205.607	2.39	2.39	0.55		
1235.00	9.100	209.240	1233.24	-25.10	-32.27	-16.51	1721290.06	14368750.23	39°34'3.5816"N	80°42'46.9021"W	36.25	207.097	2.18	2.18	-1.02		
1330.00	11.040	209.820	1326.77	-36.08	-46.72	-24.70	1721281.86	14368735.79	39°34'3.4391"N	80°42'47.0073"W	52.85	207.870	2.04	2.04	0.81		
1424.00	12.510	209.650	1418.79	-48.72	-63.38	-34.22	1721272.36	14368719.14	39°34'3.2748"N	80°42'47.1295"W	72.02	208.365	1.56	1.56	-0.18		
1519.00	12.330	207.060	1511.57	-62.54	-81.35	-43.92	1721262.66	14368701.17	39°34'3.0974"N	80°42'47.2541"W	92.45	208.365	0.62	-0.19	-2.73		
1613.00	12.240	205.630	1603.41	-76.57	-99.27	-52.80	1721253.78	14368683.26	39°34'2.9206"N	80°42'47.3682"W	112.44	208.006	0.34	-0.10	-1.52		
1708.00	12.090	205.390	1696.28	-90.83	-117.34	-61.42	1721245.16	14368665.20	39°34'2.7423"N	80°42'47.4790"W	132.44	207.629	0.17	-0.16	-0.25		
1803.00	11.750	203.800	1789.23	-105.02	-135.18	-69.59	1721237.00	14368647.37	39°34'2.5663"N	80°42'47.5841"W	152.04	207.239	0.50	-0.36	-1.67		
1897.00	12.090	205.990	1881.20	-118.99	-152.78	-77.77	1721228.83	14368629.77	39°34'2.3925"N	80°42'47.6892"W	171.44	206.976	0.60	0.36	2.33		
1992.00	12.320	205.750	1974.06	-133.21	-170.85	-86.53	1721220.07	14368611.70	39°34'2.2142"N	80°42'47.8018"W	191.52	206.860	0.25	0.24	-0.25		
2087.00	11.830	203.180	2066.96	-147.60	-188.94	-94.76	1721211.83	14368593.63	39°34'2.0357"N	80°42'47.9077"W	211.37	206.637	0.77	-0.52	-2.71		
2182.00	11.480	201.950	2160.00	-161.95	-206.66	-102.13	1721204.47	14368575.92	39°34'1.8608"N	80°42'48.0025"W	230.52	206.299	0.45	-0.37	-1.29		
2276.00	11.480	201.730	2252.12	-176.08	-224.02	-109.09	1721197.51	14368558.56	39°34'1.6894"N	80°42'48.0921"W	249.17	205.965	0.05	0.00	-0.23		
2371.00	12.070	205.990	2345.12	-190.26	-241.73	-116.94	1721189.66	14368540.85	39°34'1.5146"N	80°42'48.1931"W	268.53	205.817	1.11	0.62	4.48		
2466.00	12.100	208.420	2438.01	-204.00	-259.42	-126.04	1721180.57	14368523.18	39°34'1.3401"N	80°42'48.3099"W	288.41	205.912	0.54	0.03	2.56		
2560.00	12.140	208.740	2529.92	-217.30	-276.75	-135.48	1721171.14	14368505.85	39°34'1.1692"N	80°42'48.4311"W	308.13	206.083	0.08	0.04	0.34		

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# Actual Wellpath Report

Duke Unit 2H AWP Proj: 24317'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Duke Unit 2H
Field	Wetzel	API	47-103-03695-0000
Facility	Cedar Pad	Wellbore	Duke Unit 2H AWB
Slot	Slot H		

WELLPATH DATA (265 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
2654.00	11.720	206.110	2621.89	-230.66	-293.99	-144.43	1721162.19	14368488.62	39°34'0.9991"N	80°42'48.5462"W	327.55	206.164	0.73	-0.45	-2.80	
2749.00	12.230	209.930	2714.82	-244.07	-311.37	-153.70	1721152.92	14368471.24	39°34'0.8275"N	80°42'48.6652"W	347.24	206.272	0.99	0.54	4.02	
2844.00	12.040	209.110	2807.70	-257.28	-328.75	-163.54	1721143.09	14368453.87	39°34'0.6561"N	80°42'48.7916"W	367.18	206.448	0.27	-0.20	-0.86	
2939.00	11.780	208.950	2900.66	-270.37	-345.89	-173.05	1721133.57	14368436.73	39°34'0.4870"N	80°42'48.9138"W	386.77	206.579	0.28	-0.27	-0.17	
3033.00	11.310	207.410	2992.75	-283.13	-362.47	-181.94	1721124.69	14368420.16	39°34'0.3234"N	80°42'49.0279"W	405.57	206.654	0.60	-0.50	-1.64	
3128.00	11.680	205.560	3085.85	-296.39	-379.42	-190.38	1721116.26	14368403.22	39°34'0.1562"N	80°42'49.1364"W	424.50	206.646	0.55	0.39	-1.95	
3223.00	11.680	206.820	3178.88	-309.93	-396.67	-198.87	1721107.77	14368385.97	39°33'59.9859"N	80°42'49.2454"W	443.73	206.626	0.27	0.00	1.33	
3318.00	11.250	203.970	3271.99	-323.40	-413.72	-206.97	1721099.67	14368368.93	39°33'59.8177"N	80°42'49.3496"W	462.60	206.577	0.75	-0.45	-3.00	
3412.00	10.500	203.590	3364.30	-336.40	-429.95	-214.12	1721092.52	14368352.71	39°33'59.6575"N	80°42'49.4416"W	480.32	206.474	0.80	-0.80	-0.40	APS EM <8-3/4"> (3318')(3412'-6349')
3506.00	11.170	206.610	3456.62	-349.06	-445.94	-221.63	1721085.02	14368336.73	39°33'59.4997"N	80°42'49.5381"W	497.98	206.427	0.93	0.71	3.21	
3601.00	13.000	212.260	3549.52	-362.16	-463.21	-231.45	1721075.20	14368319.47	39°33'59.3294"N	80°42'49.6643"W	517.81	206.550	2.29	1.93	5.95	
3696.00	12.740	212.070	3642.13	-375.41	-481.12	-242.72	1721063.94	14368301.56	39°33'59.1527"N	80°42'49.8088"W	538.88	206.771	0.28	-0.27	-0.20	
3790.00	12.200	208.030	3733.91	-388.68	-498.67	-252.89	1721053.77	14368284.02	39°33'58.9796"N	80°42'49.9394"W	559.13	206.891	1.09	-0.57	-4.30	
3885.00	11.460	206.430	3826.89	-402.12	-515.98	-261.81	1721044.85	14368266.71	39°33'58.8088"N	80°42'50.0540"W	578.60	206.903	0.85	-0.78	-1.68	
3980.00	11.360	202.160	3920.02	-415.78	-533.10	-269.54	1721037.13	14368249.60	39°33'58.6398"N	80°42'50.1534"W	597.36	206.822	0.90	-0.11	-4.49	
4074.00	12.370	208.670	4012.01	-429.51	-550.51	-277.86	1721028.81	14368232.20	39°33'58.4680"N	80°42'50.2604"W	616.66	206.782	1.78	1.07	6.93	
4169.00	12.410	207.580	4104.80	-443.36	-568.48	-287.47	1721019.20	14368214.23	39°33'58.2907"N	80°42'50.3838"W	637.03	206.825	0.25	0.04	-1.15	
4264.00	11.590	206.330	4197.72	-457.07	-586.08	-296.43	1721010.25	14368196.64	39°33'58.1170"N	80°42'50.4989"W	656.78	206.829	0.91	-0.86	-1.32	
4358.00	11.020	201.850	4289.90	-470.49	-602.89	-303.96	1721002.72	14368179.84	39°33'57.9512"N	80°42'50.5957"W	675.18	206.756	1.11	-0.61	-4.77	
4453.00	11.670	206.310	4383.05	-484.10	-619.93	-311.60	1720995.08	14368162.81	39°33'57.7830"N	80°42'50.6940"W	693.83	206.686	1.15	0.68	4.69	
4547.00	11.040	203.980	4475.21	-497.35	-636.67	-319.47	1720987.22	14368146.07	39°33'57.6177"N	80°42'50.7952"W	712.33	206.647	0.83	-0.67	-2.48	
4642.00	11.440	207.420	4568.39	-510.49	-653.35	-327.51	1720979.18	14368129.40	39°33'57.4532"N	80°42'50.8984"W	730.84	206.623	0.82	0.42	3.62	
4736.00	11.960	210.010	4660.43	-523.28	-670.05	-336.67	1720970.02	14368112.70	39°33'57.2884"N	80°42'51.0181"W	749.88	206.677	0.79	0.55	2.76	
4831.00	11.720	208.850	4753.41	-536.20	-687.03	-346.25	1720960.45	14368095.73	39°33'57.1209"N	80°42'51.1391"W	769.35	206.747	0.36	-0.25	-1.22	
4926.00	12.600	209.370	4846.28	-549.54	-704.51	-355.99	1720950.71	14368078.26	39°33'56.9484"N	80°42'51.2642"W	789.34	206.807	0.93	0.93	0.55	
5021.00	11.980	202.200	4939.11	-563.82	-722.67	-364.80	1720941.91	14368060.10	39°33'56.7692"N	80°42'51.3774"W	809.52	206.784	1.73	-0.65	-7.55	
5115.00	12.760	201.710	5030.92	-579.02	-741.35	-372.32	1720934.39	14368041.43	39°33'56.5849"N	80°42'51.4742"W	829.59	206.667	0.84	0.83	-0.52	
5210.00	12.400	204.710	5123.64	-594.33	-760.36	-380.47	1720926.24	14368022.43	39°33'56.3972"N	80°42'51.5790"W	850.24	206.582	0.79	-0.38	3.16	
5304.00	12.840	210.590	5215.38	-608.37	-778.52	-390.00	1720916.71	14368004.27	39°33'56.2180"N	80°42'51.7015"W	870.75	206.609	1.44	0.47	6.26	
5399.00	11.890	207.530	5308.17	-621.93	-796.29	-399.90	1720906.82	14367986.52	39°33'56.0428"N	80°42'51.8286"W	891.06	206.666	1.21	-1.00	-3.22	

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# Actual Wellpath Report

Duke Unit 2H AWP Proj: 24317'  
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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Duke Unit 2H
Field	Wetzel		API	47-103-03695-0000
Facility	Cedar Pad		Wellbore	Duke Unit 2H AWB
Slot	Slot H			

WELLPATH DATA (265 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
5497.00	11.990	209.140	5404.05	-635.65	-814.13	-409.52	1720897.20	14367968.68	39°33'55.8667"N	80°42'51.9522"W	911.33	206.703	0.35	0.10	1.64	
5591.00	13.630	211.350	5495.71	-649.22	-832.12	-420.04	1720886.69	14367950.70	39°33'55.6893"N	80°42'52.0872"W	932.12	206.784	1.82	1.74	2.35	
5686.00	12.930	208.800	5588.17	-663.48	-850.99	-430.98	1720875.75	14367931.83	39°33'55.5031"N	80°42'52.2277"W	953.90	206.860	0.96	-0.74	-2.68	
5781.00	11.700	205.600	5680.98	-677.46	-868.99	-440.26	1720866.47	14367913.84	39°33'55.3254"N	80°42'52.3470"W	974.16	206.868	1.48	-1.29	-3.37	
5875.00	11.490	208.850	5773.07	-690.51	-885.79	-448.90	1720857.84	14367897.05	39°33'55.1597"N	80°42'52.4579"W	993.04	206.875	0.73	-0.22	3.46	
5970.00	11.360	207.070	5866.19	-703.34	-902.41	-457.72	1720849.02	14367880.44	39°33'54.9957"N	80°42'52.5712"W	1011.86	206.895	0.40	-0.14	-1.87	
6065.00	11.840	205.450	5959.24	-716.77	-919.54	-466.17	1720840.57	14367863.31	39°33'54.8267"N	80°42'52.6798"W	1030.96	206.883	0.61	0.51	-1.71	
6159.00	12.240	210.740	6051.18	-730.08	-936.81	-475.41	1720831.34	14367846.05	39°33'54.6563"N	80°42'52.7984"W	1050.54	206.907	1.25	0.43	5.63	
6254.00	10.780	207.960	6144.27	-742.63	-953.32	-484.72	1720822.03	14367829.55	39°33'54.4935"N	80°42'52.9180"W	1069.47	206.951	1.64	-1.54	-2.93	
6349.00	10.000	208.960	6237.71	-754.20	-968.38	-492.88	1720813.87	14367814.49	39°33'54.3448"N	80°42'53.0228"W	1086.60	206.975	0.84	-0.82	1.05	
6467.00	10.360	215.700	6353.86	-767.17	-985.96	-504.03	1720802.73	14367796.92	39°33'54.1714"N	80°42'53.1659"W	1107.33	207.076	1.05	0.31	5.71	BH Lucida <8-1/2"> (6349')(6467'-24292')
6562.00	10.100	251.950	6447.44	-771.96	-995.49	-516.95	1720789.81	14367787.39	39°33'54.0777"N	80°42'53.3313"W	1121.71	207.442	6.67	-0.27	38.16	
6656.00	14.230	284.940	6539.42	-765.34	-995.07	-535.98	1720770.79	14367787.82	39°33'54.0825"N	80°42'53.5742"W	1130.23	208.309	8.43	4.39	35.10	
6751.00	19.680	302.040	6630.31	-746.33	-983.55	-560.85	1720745.93	14367799.32	39°33'54.1970"N	80°42'53.8914"W	1132.23	209.693	7.72	5.74	18.00	
6846.00	26.670	310.880	6717.61	-715.38	-961.08	-590.58	1720716.21	14367821.79	39°33'54.4201"N	80°42'54.2700"W	1128.03	211.571	8.20	7.36	9.31	
6881.00†	29.340	312.382	6748.51	-701.04	-950.16	-602.86	1720703.94	14367832.71	39°33'54.5284"N	80°42'54.4263"W	1125.27	212.394	7.89	7.63	4.29	Sycamore: 6881' MD
6940.00	33.870	314.420	6798.75	-673.62	-928.89	-625.29	1720681.52	14367853.96	39°33'54.7393"N	80°42'54.7119"W	1119.74	213.947	7.89	7.68	3.45	
7035.00	41.380	317.680	6873.95	-621.00	-887.08	-665.40	1720641.43	14367895.76	39°33'55.1537"N	80°42'55.2223"W	1108.91	216.873	8.18	7.91	3.43	
7042.00†	42.052	317.955	6879.17	-616.72	-883.63	-668.52	1720638.30	14367899.21	39°33'55.1879"N	80°42'55.2621"W	1108.03	217.110	9.94	9.59	3.93	Middlesex: 7042' MD
7130.00	50.540	320.910	6939.93	-557.55	-835.29	-709.76	1720597.08	14367947.53	39°33'55.6670"N	80°42'55.7867"W	1096.11	220.355	9.94	9.65	3.36	
7195.00†	55.974	321.764	6978.80	-508.49	-794.62	-742.28	1720564.57	14367988.18	39°33'56.0699"N	80°42'56.2003"W	1087.38	223.049	8.43	8.36	1.31	Burkett: 7195' MD
7224.00	58.400	322.110	6994.51	-485.45	-775.43	-757.30	1720549.56	14368007.36	39°33'56.2601"N	80°42'56.3913"W	1083.88	224.322	8.43	8.37	1.19	
7252.00†	60.315	322.341	7008.78	-462.63	-756.39	-772.06	1720534.81	14368026.40	39°33'56.4487"N	80°42'56.5790"W	1080.84	225.587	6.88	6.84	0.82	Tully: 7252' MD
7319.00	64.900	322.860	7039.60	-406.18	-709.14	-808.18	1720498.70	14368073.63	39°33'56.9168"N	80°42'57.0382"W	1075.19	228.734	6.88	6.84	0.77	
7414.00	72.590	324.650	7074.01	-321.64	-637.77	-860.45	1720446.45	14368144.97	39°33'57.6238"N	80°42'57.7029"W	1071.04	233.454	8.28	8.09	1.88	
7472.00†	75.816	325.621	7089.80	-267.95	-591.99	-892.35	1720414.57	14368190.74	39°33'58.0773"N	80°42'58.1083"W	1070.86	236.440	5.79	5.56	1.67	Marcellus POE: 7472' MD
7508.00	77.820	326.210	7098.01	-234.10	-562.96	-911.99	1720394.93	14368219.75	39°33'58.3648"N	80°42'58.3579"W	1071.75	238.314	5.79	5.57	1.64	
7603.00	85.290	327.650	7111.95	-142.98	-484.26	-963.22	1720343.72	14368298.42	39°33'59.1442"N	80°42'59.0089"W	1078.10	243.309	8.00	7.86	1.52	
7698.00	90.430	328.350	7115.50	-50.49	-403.78	-1013.51	1720293.45	14368378.87	39°33'59.9412"N	80°42'59.6478"W	1090.98	248.278	5.46	5.41	0.74	
7792.00	90.520	330.240	7114.72	41.58	-322.97	-1061.50	1720245.48	14368459.65	39°34'0.7414"N	80°43'0.2573"W	1109.54	253.077	2.01	0.10	2.01	

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# Actual Wellpath Report

Duke Unit 2H AWP Proj: 24317'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Duke Unit 2H
Field	Wetzel	API	47-103-03695-0000
Facility	Cedar Pad	Wellbore	Duke Unit 2H AWB
Slot	Slot H		

## WELLPATH DATA (265 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
7887.00	90.370	334.940	7113.98	135.54	-238.66	-1105.22	1720201.78	14368543.93	39°34'1.5760"N	80°43'0.8122"W	1130.69	257.815	4.95	-0.16	4.95	
7982.00	90.400	338.050	7113.34	230.24	-151.55	-1143.10	1720163.91	14368631.00	39°34'2.4380"N	80°43'1.2924"W	1153.11	262.448	3.27	0.03	3.27	
8076.00	90.710	341.150	7112.43	324.20	-63.46	-1175.86	1720131.16	14368719.05	39°34'3.3096"N	80°43'1.7072"W	1177.58	266.911	3.31	0.33	3.30	
8171.00	90.550	341.540	7111.39	419.19	26.54	-1206.25	1720100.79	14368809.02	39°34'4.2001"N	80°43'2.0916"W	1206.54	271.260	0.44	-0.17	0.41	
8265.00	90.950	341.250	7110.16	513.18	115.62	-1236.24	1720070.81	14368898.06	39°34'5.0814"N	80°43'2.4709"W	1241.63	275.343	0.53	0.43	-0.31	
8360.00	90.740	341.490	7108.76	608.17	205.63	-1266.58	1720040.48	14368988.04	39°34'5.9720"N	80°43'2.8548"W	1283.17	279.222	0.34	-0.22	0.25	
8455.00	90.830	340.900	7107.46	703.16	295.55	-1297.20	1720009.87	14369077.93	39°34'6.8616"N	80°43'3.2422"W	1330.44	282.835	0.63	0.09	-0.62	
8550.00	90.120	341.740	7106.67	798.15	385.54	-1327.63	1719979.46	14369167.88	39°34'7.7520"N	80°43'3.6271"W	1382.48	286.193	1.16	-0.75	0.88	
8644.00	90.340	341.570	7106.29	892.14	474.77	-1357.21	1719949.88	14369257.07	39°34'8.6347"N	80°43'4.0013"W	1437.86	289.280	0.30	0.23	-0.18	
8739.00	89.720	341.250	7106.24	987.14	564.81	-1387.50	1719919.61	14369347.08	39°34'9.5255"N	80°43'4.3844"W	1498.05	292.150	0.73	-0.65	-0.34	
8834.00	90.120	341.960	7106.37	1082.13	654.95	-1417.48	1719889.64	14369437.19	39°34'10.4174"N	80°43'4.7636"W	1561.47	294.800	0.86	0.42	0.75	
8928.00	89.750	341.580	7106.48	1176.12	744.24	-1446.88	1719860.25	14369526.43	39°34'11.3007"N	80°43'5.1356"W	1627.07	297.220	0.56	-0.39	-0.40	
9023.00	89.420	341.810	7107.17	1271.11	834.43	-1476.72	1719830.42	14369616.59	39°34'12.1930"N	80°43'5.5129"W	1696.16	299.469	0.42	-0.35	0.24	
9118.00	89.230	341.410	7108.29	1366.10	924.57	-1506.69	1719800.47	14369706.69	39°34'13.0848"N	80°43'5.8920"W	1767.75	301.535	0.47	-0.20	-0.42	
9213.00	89.170	341.590	7109.61	1461.08	1014.65	-1536.83	1719770.34	14369796.74	39°34'13.9760"N	80°43'6.2733"W	1841.56	303.434	0.20	-0.06	0.19	
9307.00	89.380	341.280	7110.80	1555.07	1103.75	-1566.75	1719740.42	14369885.81	39°34'14.8576"N	80°43'6.6519"W	1916.50	305.164	0.40	0.22	-0.33	
9402.00	89.690	341.580	7111.58	1650.06	1193.80	-1597.01	1719710.18	14369975.82	39°34'15.7485"N	80°43'7.0346"W	1993.89	306.779	0.45	0.33	0.32	
9497.00	89.850	341.470	7111.96	1745.06	1283.90	-1627.11	1719680.09	14370065.89	39°34'16.6399"N	80°43'7.4154"W	2072.66	308.276	0.20	0.17	-0.12	
9591.00	89.630	341.540	7112.38	1839.05	1373.05	-1656.93	1719650.28	14370155.00	39°34'17.5219"N	80°43'7.7926"W	2151.90	309.648	0.25	-0.23	0.07	
9685.00	89.320	341.200	7113.24	1933.05	1462.12	-1686.96	1719620.27	14370244.03	39°34'18.4031"N	80°43'8.1725"W	2232.40	310.916	0.49	-0.33	-0.36	
9780.00	90.460	341.540	7113.43	2028.04	1552.14	-1717.30	1719589.93	14370334.02	39°34'19.2937"N	80°43'8.5565"W	2314.79	312.108	1.25	1.20	0.36	
9875.00	90.340	340.130	7112.76	2123.04	1641.87	-1748.49	1719558.76	14370423.71	39°34'20.1815"N	80°43'8.9511"W	2398.53	313.199	1.49	-0.13	-1.48	
9969.00	89.940	340.200	7112.53	2217.03	1730.29	-1780.39	1719526.88	14370512.10	39°34'21.0564"N	80°43'9.3549"W	2482.68	314.183	0.43	-0.43	0.07	
10064.00	90.220	340.660	7112.40	2312.02	1819.80	-1812.21	1719495.07	14370601.58	39°34'21.9420"N	80°43'9.7577"W	2568.22	315.120	0.57	0.29	0.48	
10158.00	90.650	340.330	7111.69	2406.02	1908.41	-1843.59	1719463.70	14370690.14	39°34'22.8187"N	80°43'10.1550"W	2653.46	315.990	0.58	0.46	-0.35	
10253.00	90.220	340.440	7110.97	2501.01	1997.89	-1875.48	1719431.82	14370779.59	39°34'23.7041"N	80°43'10.5586"W	2740.26	316.810	0.47	-0.45	0.12	
10348.00	90.460	340.970	7110.40	2596.01	2087.55	-1906.87	1719400.44	14370869.22	39°34'24.5912"N	80°43'10.9559"W	2827.37	317.590	0.61	0.25	0.56	
10442.00	89.970	340.210	7110.05	2690.00	2176.21	-1938.11	1719369.21	14370957.84	39°34'25.4683"N	80°43'11.3513"W	2914.13	318.312	0.96	-0.52	-0.81	
10537.00	90.430	340.750	7109.72	2785.00	2265.75	-1969.85	1719337.48	14371047.34	39°34'26.3542"N	80°43'11.7531"W	3002.32	318.996	0.75	0.48	0.57	
10632.00	91.080	341.100	7108.47	2879.99	2355.52	-2000.90	1719306.45	14371137.08	39°34'27.2425"N	80°43'12.1460"W	3090.64	319.654	0.78	0.68	0.37	

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Duke Unit 2H AWP Proj: 24317'  
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Field	Wetzel	API	47-103-03695-0000
Facility	Cedar Pad	Wellbore	Duke Unit 2H AWB
Slot	Slot H		

WELLPATH DATA (265 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
10726.00	90.460	339.770	7107.20	2973.98	2444.09	-2032.37	1719274.99	14371225.61	39°34'28.1187"N	80°43'12.5444"W	3178.69	320.255	1.56	-0.66	-1.41	
10821.00	90.280	340.310	7106.59	3068.96	2533.38	-2064.80	1719242.58	14371314.87	39°34'29.0022"N	80°43'12.9550"W	3268.24	320.819	0.60	-0.19	0.57	
11011.00	90.830	339.030	7104.75	3258.90	2711.53	-2130.81	1719176.60	14371492.95	39°34'30.7649"N	80°43'13.7908"W	3448.58	321.839	0.73	0.29	-0.67	
11105.00	90.980	336.130	7103.26	3352.72	2798.40	-2166.65	1719140.77	14371579.79	39°34'31.6246"N	80°43'14.2451"W	3539.13	322.251	3.09	0.16	-3.09	
11200.00	90.830	339.510	7101.76	3447.56	2886.35	-2202.50	1719104.93	14371667.70	39°34'32.4949"N	80°43'14.6995"W	3630.71	322.654	3.56	-0.16	3.56	
11295.00	91.140	340.840	7100.13	3542.53	2975.70	-2234.72	1719072.73	14371757.02	39°34'33.3790"N	80°43'15.1073"W	3721.39	323.094	1.44	0.33	1.40	
11389.00	90.890	340.710	7098.46	3636.52	3064.45	-2265.66	1719041.79	14371845.73	39°34'34.2570"N	80°43'15.4990"W	3811.05	323.523	0.30	-0.27	-0.14	
11484.00	91.050	340.650	7096.86	3731.50	3154.08	-2297.09	1719010.38	14371935.33	39°34'35.1439"N	80°43'15.8968"W	3901.91	323.935	0.18	0.17	-0.06	
11579.00	91.140	340.730	7095.04	3826.48	3243.72	-2328.50	1718978.98	14372024.93	39°34'36.0308"N	80°43'16.2944"W	3992.95	324.327	0.13	0.09	0.08	
11673.00	91.080	340.860	7093.22	3920.46	3332.48	-2359.41	1718948.08	14372113.65	39°34'36.9089"N	80°43'16.6857"W	4083.16	324.701	0.15	-0.06	0.14	
11768.00	91.020	340.600	7091.48	4015.45	3422.14	-2390.76	1718916.74	14372203.28	39°34'37.7960"N	80°43'17.0825"W	4174.54	325.061	0.28	-0.06	-0.27	
11863.00	91.140	340.640	7089.69	4110.43	3511.74	-2422.28	1718885.24	14372292.84	39°34'38.6825"N	80°43'17.4814"W	4266.12	325.403	0.13	0.13	0.04	
11958.00	90.980	340.810	7087.93	4205.41	3601.40	-2453.63	1718853.90	14372382.47	39°34'39.5696"N	80°43'17.8783"W	4357.80	325.733	0.25	-0.17	0.18	
12052.00	90.950	340.510	7086.35	4299.40	3690.08	-2484.76	1718822.78	14372471.12	39°34'40.4470"N	80°43'18.2723"W	4448.68	326.045	0.32	-0.03	-0.32	
12147.00	90.710	340.940	7084.97	4394.39	3779.75	-2516.11	1718791.44	14372560.75	39°34'41.3341"N	80°43'18.6692"W	4540.63	326.349	0.52	-0.25	0.45	
12242.00	90.770	340.890	7083.75	4489.38	3869.52	-2547.17	1718760.39	14372650.48	39°34'42.2223"N	80°43'19.0623"W	4632.63	326.644	0.08	0.06	-0.05	
12336.00	91.110	340.930	7082.20	4583.37	3958.34	-2577.91	1718729.66	14372739.26	39°34'43.1010"N	80°43'19.4514"W	4723.78	326.925	0.36	0.36	0.04	
12431.00	90.400	340.490	7080.95	4678.36	4047.99	-2609.29	1718698.30	14372828.89	39°34'43.9881"N	80°43'19.8486"W	4816.08	327.195	0.88	-0.75	-0.46	
12526.00	90.400	340.670	7080.29	4773.35	4137.59	-2640.88	1718666.72	14372918.44	39°34'44.8745"N	80°43'20.2485"W	4908.55	327.451	0.19	0.00	0.19	
12620.00	90.430	340.730	7079.61	4867.35	4226.30	-2671.95	1718635.67	14373007.12	39°34'45.7523"N	80°43'20.6417"W	5000.09	327.698	0.07	0.03	0.06	
12715.00	88.370	337.460	7080.60	4962.28	4315.03	-2705.84	1718601.79	14373095.81	39°34'46.6302"N	80°43'21.0710"W	5093.23	327.909	4.07	-2.17	-3.44	
12810.00	89.540	340.740	7082.34	5057.20	4403.75	-2739.71	1718567.93	14373184.50	39°34'47.5081"N	80°43'21.5002"W	5186.43	328.113	3.67	1.23	3.45	
12904.00	89.020	339.190	7083.52	5151.18	4492.05	-2771.91	1718535.74	14373272.77	39°34'48.3818"N	80°43'21.9080"W	5278.45	328.322	1.74	-0.55	-1.65	
12999.00	89.050	340.490	7085.12	5246.14	4581.21	-2804.65	1718503.02	14373361.90	39°34'49.2640"N	80°43'22.3226"W	5371.55	328.525	1.37	0.03	1.37	
13094.00	88.920	340.540	7086.80	5341.12	4670.76	-2836.33	1718471.35	14373451.41	39°34'50.1499"N	80°43'22.7237"W	5464.50	328.732	0.15	-0.14	0.05	
13188.00	89.290	340.550	7088.27	5435.11	4759.38	-2867.64	1718440.05	14373539.99	39°34'51.0268"N	80°43'23.1200"W	5556.53	328.930	0.39	0.39	0.01	
13283.00	89.050	340.430	7089.64	5530.10	4848.92	-2899.36	1718408.34	14373629.49	39°34'51.9126"N	80°43'23.5216"W	5649.63	329.123	0.28	-0.25	-0.13	
13378.00	89.690	340.510	7090.69	5625.09	4938.45	-2931.12	1718376.60	14373718.99	39°34'52.7984"N	80°43'23.9237"W	5742.80	329.310	0.68	0.67	0.08	
13472.00	89.690	340.430	7091.20	5719.08	5027.04	-2962.54	1718345.19	14373807.54	39°34'53.6749"N	80°43'24.3215"W	5835.05	329.488	0.09	0.00	-0.09	
13567.00	89.910	340.550	7091.53	5814.08	5116.58	-2994.27	1718313.47	14373897.05	39°34'54.5609"N	80°43'24.7232"W	5928.33	329.663	0.26	0.23	0.13	

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# Actual Wellpath Report

Duke Unit 2H AWP Proj: 24317'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Duke Unit 2H
Field	Wetzel	API	47-103-03695-0000
Facility	Cedar Pad	Wellbore	Duke Unit 2H AWB
Slot	Slot H		

WELLPATH DATA (265 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
13662.00	90.150	340.010	7091.48	5909.07	5206.01	-3026.32	1718281.43	14373986.45	39°34'55.4457"N	80°43'25.1291"W	6021.73	329.830	0.62	0.25	-0.57	
13756.00	90.180	340.510	7091.21	6003.07	5294.49	-3058.07	1718249.69	14374074.89	39°34'56.3211"N	80°43'25.5311"W	6114.20	329.989	0.53	0.03	0.53	
13851.00	90.680	340.810	7090.50	6098.06	5384.12	-3089.53	1718218.25	14374164.49	39°34'57.2079"N	80°43'25.9294"W	6207.57	330.152	0.61	0.53	0.32	
13945.00	90.400	340.500	7089.61	6192.06	5472.81	-3120.67	1718187.12	14374253.14	39°34'58.0854"N	80°43'26.3236"W	6300.02	330.308	0.44	-0.30	-0.33	
14040.00	90.120	340.730	7089.18	6287.06	5562.42	-3152.20	1718155.60	14374342.72	39°34'58.9720"N	80°43'26.7228"W	6393.51	330.460	0.38	-0.29	0.24	
14135.00	90.620	340.360	7088.56	6382.05	5652.00	-3183.84	1718123.97	14374432.26	39°34'59.8582"N	80°43'27.1234"W	6487.06	330.607	0.65	0.53	-0.39	
14230.00	90.650	341.280	7087.51	6477.04	5741.72	-3215.05	1718092.78	14374521.94	39°35'0.7459"N	80°43'27.5185"W	6580.57	330.754	0.97	0.03	0.97	
14324.00	90.370	341.640	7086.67	6571.04	5830.83	-3244.94	1718062.90	14374611.02	39°35'1.6276"N	80°43'27.8967"W	6672.95	330.903	0.49	-0.30	0.38	
14419.00	90.250	341.350	7086.16	6666.03	5920.92	-3275.09	1718032.76	14374701.08	39°35'2.5188"N	80°43'28.2783"W	6766.35	331.051	0.33	-0.13	-0.31	
14513.00	90.310	341.710	7085.70	6760.02	6010.08	-3304.87	1718002.99	14374790.20	39°35'3.4009"N	80°43'28.6552"W	6858.80	331.194	0.39	0.06	0.38	
14608.00	90.520	341.760	7085.01	6855.01	6100.29	-3334.64	1717973.23	14374880.37	39°35'4.2934"N	80°43'29.0319"W	6952.22	331.337	0.23	0.22	0.05	
14703.00	90.280	341.040	7084.35	6950.00	6190.32	-3364.94	1717942.94	14374970.37	39°35'5.1841"N	80°43'29.4154"W	7045.78	331.472	0.80	-0.25	-0.76	
14797.00	90.340	341.750	7083.84	7044.00	6279.41	-3394.93	1717912.97	14375059.42	39°35'6.0655"N	80°43'29.7949"W	7138.39	331.602	0.76	0.06	0.76	
14892.00	90.250	341.600	7083.35	7138.99	6369.59	-3424.80	1717883.11	14375149.57	39°35'6.9576"N	80°43'30.1729"W	7231.94	331.734	0.18	-0.09	-0.16	
14987.00	90.280	341.810	7082.91	7233.98	6459.79	-3454.62	1717853.30	14375239.73	39°35'7.8500"N	80°43'30.5503"W	7325.52	331.863	0.22	0.03	0.22	
15081.00	89.880	341.300	7082.78	7327.97	6548.96	-3484.36	1717823.57	14375328.87	39°35'8.7322"N	80°43'30.9267"W	7418.20	331.985	0.69	-0.43	-0.54	
15176.00	90.340	341.790	7082.60	7422.97	6639.07	-3514.44	1717793.51	14375418.94	39°35'9.6237"N	80°43'31.3072"W	7511.89	332.105	0.71	0.48	0.52	
15271.00	90.030	340.330	7082.29	7517.97	6728.93	-3545.27	1717762.69	14375508.76	39°35'10.5127"N	80°43'31.6976"W	7605.75	332.217	1.57	-0.33	-1.54	
15366.00	90.060	339.850	7082.22	7612.95	6818.25	-3577.62	1717730.35	14375598.05	39°35'11.3964"N	80°43'32.1073"W	7699.86	332.313	0.51	0.03	-0.51	
15460.00	90.370	341.990	7081.87	7706.95	6907.08	-3608.35	1717699.64	14375686.84	39°35'12.2753"N	80°43'32.4963"W	7792.81	332.417	2.30	0.33	2.28	
15555.00	90.090	341.340	7081.48	7801.94	6997.25	-3638.23	1717669.77	14375776.98	39°35'13.1674"N	80°43'32.8745"W	7886.59	332.528	0.74	-0.29	-0.68	
15650.00	90.180	341.730	7081.26	7896.93	7087.36	-3668.32	1717639.69	14375867.06	39°35'14.0589"N	80°43'33.2553"W	7980.43	332.635	0.42	0.09	0.41	
15744.00	90.150	341.130	7080.99	7990.93	7176.47	-3698.25	1717609.76	14375956.13	39°35'14.9404"N	80°43'33.6341"W	8073.34	332.737	0.64	-0.03	-0.64	
15839.00	89.910	340.790	7080.94	8085.93	7266.27	-3729.25	1717578.79	14376045.89	39°35'15.8289"N	80°43'34.0265"W	8167.37	332.832	0.44	-0.25	-0.36	
15934.00	90.250	341.560	7080.81	8180.93	7356.19	-3759.90	1717548.14	14376135.78	39°35'16.7185"N	80°43'34.4145"W	8261.38	332.927	0.89	0.36	0.81	
16029.00	90.120	340.050	7080.50	8275.92	7445.90	-3791.13	1717516.92	14376225.46	39°35'17.6061"N	80°43'34.8100"W	8355.49	333.017	1.60	-0.14	-1.59	
16123.00	90.090	341.260	7080.33	8369.92	7534.59	-3822.27	1717485.80	14376314.11	39°35'18.4835"N	80°43'35.2043"W	8448.66	333.101	1.29	-0.03	1.29	
16218.00	90.220	341.990	7080.07	8464.91	7624.75	-3852.22	1717455.86	14376404.23	39°35'19.3755"N	80°43'35.5833"W	8542.62	333.196	0.78	0.14	0.77	
16312.00	90.220	341.760	7079.71	8558.90	7714.08	-3881.46	1717426.63	14376493.53	39°35'20.2593"N	80°43'35.9533"W	8635.56	333.290	0.24	0.00	-0.24	
16407.00	90.370	341.930	7079.22	8653.89	7804.35	-3911.06	1717397.04	14376583.76	39°35'21.1523"N	80°43'36.3279"W	8729.51	333.383	0.24	0.16	0.18	

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# Actual Wellpath Report

Duke Unit 2H AWP Proj: 24317'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Duke Unit 2H
Field	Wetzel	API	47-103-03695-0000
Facility	Cedar Pad	Wellbore	Duke Unit 2H AWB
Slot	Slot H		

WELLPATH DATA (265 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
16502.00	90.000	341.680	7078.91	8748.87	7894.60	-3940.72	1717367.39	14376673.98	39°35'22.0451"N	80°43'36.7033"W	8823.49	333.473	0.47	-0.39	-0.26	
16596.00	90.060	341.670	7078.87	8842.87	7983.84	-3970.28	1717337.85	14376763.18	39°35'22.9279"N	80°43'37.0773"W	8916.54	333.559	0.06	0.06	-0.01	
16691.00	89.910	341.760	7078.89	8937.86	8074.04	-4000.08	1717308.05	14376853.34	39°35'23.8203"N	80°43'37.4545"W	9010.59	333.645	0.18	-0.16	0.09	
16786.00	89.720	340.940	7079.20	9032.85	8164.05	-4030.46	1717277.69	14376943.32	39°35'24.7108"N	80°43'37.8391"W	9104.74	333.725	0.89	-0.20	-0.86	
16881.00	90.030	342.040	7079.40	9127.85	8254.13	-4060.62	1717247.54	14377033.37	39°35'25.6020"N	80°43'38.2208"W	9198.88	333.805	1.20	0.33	1.16	
16975.00	89.970	342.220	7079.40	9221.83	8343.60	-4089.47	1717218.71	14377122.80	39°35'26.4871"N	80°43'38.5858"W	9291.90	333.889	0.20	-0.06	0.19	
17070.00	89.970	341.960	7079.45	9316.81	8433.99	-4118.68	1717189.50	14377213.16	39°35'27.3814"N	80°43'38.9555"W	9385.94	333.972	0.27	0.00	-0.27	
17165.00	89.970	341.800	7079.50	9411.79	8524.28	-4148.23	1717159.97	14377303.41	39°35'28.2746"N	80°43'39.3294"W	9480.04	334.051	0.17	0.00	-0.17	
17259.00	90.060	341.950	7079.48	9505.78	8613.62	-4177.47	1717130.74	14377392.71	39°35'29.1584"N	80°43'39.6994"W	9573.18	334.127	0.19	0.10	0.16	
17354.00	89.780	339.500	7079.61	9600.77	8703.29	-4208.83	1717099.39	14377482.34	39°35'30.0455"N	80°43'40.0965"W	9667.54	334.192	2.60	-0.29	-2.58	
17449.00	89.940	341.560	7079.84	9695.76	8792.85	-4240.49	1717067.74	14377571.87	39°35'30.9316"N	80°43'40.4975"W	9761.96	334.254	2.17	0.17	2.17	
17543.00	89.970	341.720	7079.92	9789.76	8882.06	-4270.10	1717038.15	14377661.05	39°35'31.8142"N	80°43'40.8723"W	9855.19	334.324	0.17	0.03	0.17	
17638.00	90.060	342.030	7079.89	9884.74	8972.35	-4299.65	1717008.60	14377751.30	39°35'32.7074"N	80°43'41.2463"W	9949.38	334.396	0.34	0.09	0.33	
17733.00	90.000	341.850	7079.84	9979.73	9062.67	-4329.10	1716979.16	14377841.58	39°35'33.6010"N	80°43'41.6190"W	10043.56	334.467	0.20	-0.06	-0.19	
17827.00	90.060	341.810	7079.79	10073.72	9151.98	-4358.42	1716949.86	14377930.86	39°35'34.4845"N	80°43'41.9900"W	10136.79	334.535	0.08	0.06	-0.04	
17922.00	90.490	341.970	7079.34	10168.70	9242.27	-4387.95	1716920.34	14378021.12	39°35'35.3778"N	80°43'42.3637"W	10231.02	334.603	0.48	0.45	0.17	
18017.00	90.550	341.710	7078.48	10263.69	9332.54	-4417.55	1716890.75	14378111.35	39°35'36.2708"N	80°43'42.7384"W	10325.26	334.669	0.28	0.06	-0.27	
18112.00	90.370	340.740	7077.71	10358.68	9422.48	-4448.13	1716860.19	14378201.25	39°35'37.1606"N	80°43'43.1255"W	10419.64	334.729	1.04	-0.19	-1.02	
18206.00	89.880	340.710	7077.51	10452.68	9511.21	-4479.16	1716829.17	14378289.95	39°35'38.0384"N	80°43'43.5184"W	10513.13	334.783	0.52	-0.52	-0.03	
18300.00	89.780	340.630	7077.79	10546.68	9599.91	-4510.27	1716798.07	14378378.61	39°35'38.9160"N	80°43'43.9125"W	10606.64	334.835	0.14	-0.11	-0.09	
18395.00	90.280	340.970	7077.74	10641.68	9689.63	-4541.51	1716766.84	14378468.29	39°35'39.8036"N	80°43'44.3081"W	10701.13	334.888	0.64	0.53	0.36	
18489.00	89.970	340.670	7077.53	10735.68	9778.41	-4572.40	1716735.97	14378557.04	39°35'40.6820"N	80°43'44.6992"W	10794.63	334.939	0.46	-0.33	-0.32	
18584.00	90.060	340.550	7077.51	10830.68	9868.02	-4603.94	1716704.44	14378646.62	39°35'41.5686"N	80°43'45.0986"W	10889.17	334.989	0.16	0.09	-0.13	
18678.00	89.970	340.560	7077.48	10924.67	9956.66	-4635.23	1716673.16	14378735.22	39°35'42.4455"N	80°43'45.4949"W	10982.73	335.036	0.10	-0.10	0.01	
18773.00	90.090	340.770	7077.43	11019.67	10046.30	-4666.68	1716641.72	14378824.83	39°35'43.3324"N	80°43'45.8933"W	11077.28	335.084	0.25	0.13	0.22	
18867.00	90.120	340.880	7077.26	11113.67	10135.08	-4697.56	1716610.86	14378913.58	39°35'44.2108"N	80°43'46.2843"W	11170.81	335.133	0.12	0.03	0.12	
18962.00	90.000	340.710	7077.16	11208.67	10224.80	-4728.81	1716579.62	14379003.25	39°35'45.0984"N	80°43'46.6800"W	11265.35	335.180	0.22	-0.13	-0.18	
19057.00	90.280	340.590	7076.93	11303.67	10314.43	-4760.28	1716548.15	14379092.85	39°35'45.9852"N	80°43'47.0787"W	11359.92	335.226	0.32	0.29	-0.13	
19151.00	90.180	340.600	7076.55	11397.67	10403.09	-4791.52	1716516.93	14379181.48	39°35'46.8623"N	80°43'47.4742"W	11453.51	335.270	0.11	-0.11	0.01	
19246.00	90.430	340.800	7076.05	11492.67	10492.75	-4822.91	1716485.55	14379271.10	39°35'47.7494"N	80°43'47.8719"W	11548.09	335.314	0.34	0.26	0.21	

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# Actual Wellpath Report

Duke Unit 2H AWP Proj: 24317'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Duke Unit 2H
Field	Wetzel	API	47-103-03695-0000
Facility	Cedar Pad	Wellbore	Duke Unit 2H AWB
Slot	Slot H		

WELLPATH DATA (265 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
19341.00	90.090	340.340	7075.61	11587.66	10582.34	-4854.52	1716453.96	14379360.65	39°35'48.6357"N	80°43'48.2721"W	11642.69	335.357	0.60	-0.36	-0.48	
19435.00	90.090	340.520	7075.47	11681.66	10670.91	-4886.00	1716422.49	14379449.19	39°35'49.5120"N	80°43'48.6710"W	11736.32	335.398	0.19	0.00	0.19	
19530.00	90.220	339.840	7075.21	11776.65	10760.28	-4918.21	1716390.29	14379538.52	39°35'50.3963"N	80°43'49.0790"W	11830.99	335.436	0.73	0.14	-0.72	
19624.00	90.310	340.470	7074.78	11870.64	10848.70	-4950.12	1716358.39	14379626.91	39°35'51.2710"N	80°43'49.4833"W	11924.68	335.473	0.68	0.10	0.67	
19719.00	90.150	340.890	7074.39	11965.64	10938.35	-4981.55	1716326.97	14379716.52	39°35'52.1580"N	80°43'49.8813"W	12019.29	335.514	0.47	-0.17	0.44	
19814.00	90.180	340.690	7074.12	12060.64	11028.06	-5012.81	1716295.73	14379806.19	39°35'53.0455"N	80°43'50.2772"W	12113.89	335.556	0.21	0.03	-0.21	
19909.00	90.490	341.150	7073.56	12155.64	11117.83	-5043.86	1716264.69	14379895.94	39°35'53.9337"N	80°43'50.6705"W	12208.47	335.597	0.58	0.33	0.48	
20003.00	90.250	340.630	7072.96	12249.63	11206.65	-5074.64	1716233.92	14379984.72	39°35'54.8125"N	80°43'51.0602"W	12302.07	335.638	0.61	-0.26	-0.55	
20098.00	90.310	341.050	7072.49	12344.63	11296.39	-5105.82	1716202.76	14380074.42	39°35'55.7003"N	80°43'51.4551"W	12396.68	335.678	0.45	0.06	0.44	
20193.00	90.250	340.860	7072.03	12439.63	11386.19	-5136.82	1716171.77	14380164.18	39°35'56.5887"N	80°43'51.8476"W	12491.28	335.718	0.21	-0.06	-0.20	
20287.00	90.220	340.740	7071.64	12533.63	11474.96	-5167.73	1716140.87	14380252.92	39°35'57.4669"N	80°43'52.2392"W	12584.91	335.756	0.13	-0.03	-0.13	
20385.00	90.250	341.080	7071.24	12631.63	11567.57	-5199.78	1716108.83	14380345.49	39°35'58.3831"N	80°43'52.6451"W	12682.52	335.795	0.35	0.03	0.35	
20479.00	90.250	341.250	7070.83	12725.63	11656.53	-5230.13	1716078.50	14380434.42	39°35'59.2633"N	80°43'53.0294"W	12776.11	335.835	0.18	0.00	0.18	
20574.00	90.180	341.230	7070.48	12820.62	11746.49	-5260.68	1716047.96	14380524.34	39°36'0.1532"N	80°43'53.4162"W	12870.69	335.875	0.08	-0.07	-0.02	
20669.00	90.120	341.430	7070.23	12915.62	11836.49	-5291.09	1716017.56	14380614.31	39°36'1.0436"N	80°43'53.8013"W	12965.26	335.915	0.22	-0.06	0.21	
20763.00	90.250	341.030	7069.92	13009.62	11925.49	-5321.34	1715987.32	14380703.27	39°36'1.9241"N	80°43'54.1843"W	13058.86	335.953	0.45	0.14	-0.43	
20858.00	89.970	338.740	7069.74	13104.60	12014.69	-5354.01	1715954.67	14380792.44	39°36'2.8066"N	80°43'54.5983"W	13153.63	335.981	2.43	-0.29	-2.41	
20952.00	89.910	338.180	7069.84	13198.51	12102.12	-5388.52	1715920.17	14380879.84	39°36'3.6718"N	80°43'55.0358"W	13247.54	335.999	0.60	-0.06	-0.60	
21047.00	89.510	338.070	7070.32	13293.39	12190.28	-5423.91	1715884.79	14380967.96	39°36'4.5441"N	80°43'55.4846"W	13342.48	336.014	0.44	-0.42	-0.12	
21141.00	89.350	338.710	7071.25	13387.30	12277.67	-5458.53	1715850.18	14381055.31	39°36'5.4088"N	80°43'55.9236"W	13436.39	336.031	0.70	-0.17	0.68	
21236.00	89.380	340.470	7072.31	13482.26	12366.69	-5491.66	1715817.07	14381144.30	39°36'6.2896"N	80°43'56.3434"W	13531.20	336.056	1.85	0.03	1.85	
21330.00	89.290	340.250	7073.40	13576.25	12455.22	-5523.25	1715785.49	14381232.80	39°36'7.1655"N	80°43'56.7436"W	13624.93	336.085	0.25	-0.10	-0.23	
21425.00	89.350	340.830	7074.53	13671.24	12544.79	-5554.89	1715753.86	14381322.33	39°36'8.0516"N	80°43'57.1445"W	13719.64	336.116	0.61	0.06	0.61	
21520.00	89.540	340.400	7075.45	13766.24	12634.40	-5586.42	1715722.34	14381411.90	39°36'8.9382"N	80°43'57.5439"W	13814.34	336.147	0.49	0.20	-0.45	
21615.00	89.320	340.340	7076.39	13861.23	12723.87	-5618.34	1715690.44	14381501.34	39°36'9.8234"N	80°43'57.9482"W	13909.08	336.176	0.24	-0.23	-0.06	
21710.00	89.380	340.870	7077.47	13956.22	12813.47	-5649.88	1715658.91	14381590.91	39°36'10.7099"N	80°43'58.3478"W	14003.79	336.206	0.56	0.06	0.56	
21805.00	89.540	339.630	7078.36	14051.20	12902.88	-5681.98	1715626.82	14381680.28	39°36'11.5944"N	80°43'58.7545"W	14098.55	336.233	1.32	0.17	-1.31	
21900.00	89.420	337.470	7079.23	14146.11	12991.29	-5716.72	1715592.10	14381768.65	39°36'12.4692"N	80°43'59.1950"W	14193.47	336.248	2.28	-0.13	-2.27	
21995.00	89.050	339.380	7080.50	14241.01	13079.62	-5751.65	1715557.18	14381856.95	39°36'13.3432"N	80°43'59.6378"W	14288.39	336.263	2.05	-0.39	2.01	
22089.00	90.460	342.000	7080.90	14335.00	13168.32	-5782.73	1715526.11	14381945.62	39°36'14.2208"N	80°44'0.0316"W	14382.10	336.292	3.17	1.50	2.79	

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# Actual Wellpath Report

Duke Unit 2H AWP Proj: 24317'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Duke Unit 2H
Field	Wetzel	API	47-103-03695-0000
Facility	Cedar Pad	Wellbore	Duke Unit 2H AWB
Slot	Slot H		

WELLPATH DATA (265 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
22184.00	90.120	342.460	7080.42	14429.97	13258.79	-5811.72	1715497.13	14382036.05	39°36'15.1157"N	80°44'0.3985"W	14476.59	336.331	0.60	-0.36	0.48	
22279.00	90.180	343.350	7080.17	14524.91	13349.59	-5839.65	1715469.22	14382126.81	39°36'16.0140"N	80°44'0.7519"W	14570.97	336.373	0.94	0.06	0.94	
22373.00	90.340	344.450	7079.74	14618.78	13439.90	-5865.71	1715443.16	14382217.09	39°36'16.9073"N	80°44'1.0815"W	14664.16	336.422	1.18	0.17	1.17	
22468.00	89.820	343.760	7079.61	14713.64	13531.27	-5891.73	1715417.15	14382308.42	39°36'17.8110"N	80°44'1.4104"W	14758.31	336.471	0.91	-0.55	-0.73	
22563.00	90.310	345.390	7079.50	14808.44	13622.84	-5917.00	1715391.90	14382399.96	39°36'18.7168"N	80°44'1.7298"W	14852.36	336.523	1.79	0.52	1.72	
22657.00	90.150	345.690	7079.12	14902.14	13713.86	-5940.47	1715368.43	14382490.94	39°36'19.6171"N	80°44'2.0262"W	14945.21	336.579	0.36	-0.17	0.32	
22753.00	90.370	344.820	7078.69	14997.86	13806.70	-5964.90	1715344.01	14382583.74	39°36'20.5353"N	80°44'2.3348"W	15040.11	336.634	0.93	0.23	-0.91	
22847.00	90.550	343.960	7077.93	15091.69	13897.23	-5990.20	1715318.73	14382674.24	39°36'21.4308"N	80°44'2.6546"W	15133.26	336.682	0.93	0.19	-0.91	
22942.00	90.490	344.390	7077.07	15186.53	13988.62	-6016.10	1715292.83	14382765.60	39°36'22.3348"N	80°44'2.9821"W	15227.45	336.729	0.46	-0.06	0.45	
23037.00	90.580	340.480	7076.18	15281.47	14079.17	-6044.77	1715264.18	14382856.11	39°36'23.2305"N	80°44'3.3449"W	15321.96	336.764	4.12	0.09	-4.12	
23132.00	90.740	340.430	7075.09	15376.47	14168.69	-6076.55	1715232.41	14382945.59	39°36'24.1162"N	80°44'3.7475"W	15416.75	336.787	0.18	0.17	-0.05	
23227.00	90.800	342.010	7073.81	15471.45	14258.63	-6107.13	1715201.84	14383035.49	39°36'25.0059"N	80°44'4.1348"W	15511.46	336.814	1.66	0.06	1.66	
23321.00	90.620	342.370	7072.65	15565.42	14348.11	-6135.87	1715173.11	14383124.94	39°36'25.8912"N	80°44'4.4987"W	15605.04	336.846	0.43	-0.19	0.38	
23416.00	90.770	342.120	7071.50	15660.39	14438.58	-6164.84	1715144.15	14383215.38	39°36'26.7861"N	80°44'4.8654"W	15699.62	336.879	0.31	0.16	-0.26	
23511.00	91.200	342.150	7069.86	15755.36	14528.99	-6193.98	1715115.02	14383305.75	39°36'27.6805"N	80°44'5.2343"W	15794.20	336.911	0.45	0.45	0.03	
23605.00	90.680	339.790	7068.32	15849.34	14617.83	-6224.63	1715084.39	14383394.55	39°36'28.5594"N	80°44'5.6225"W	15887.95	336.935	2.57	-0.55	-2.51	
23700.00	90.370	336.120	7067.45	15944.19	14705.87	-6260.27	1715048.76	14383482.56	39°36'29.4305"N	80°44'6.0746"W	15982.91	336.941	3.88	-0.33	-3.86	
23794.00	90.550	334.940	7066.69	16037.77	14791.42	-6299.21	1715009.84	14383568.07	39°36'30.2772"N	80°44'6.5689"W	16076.88	336.932	1.27	0.19	-1.26	
23889.00	90.000	335.300	7066.24	16132.28	14877.60	-6339.18	1714969.88	14383654.22	39°36'31.1301"N	80°44'7.0763"W	16171.83	336.922	0.69	-0.58	0.38	
23984.00	89.910	336.290	7066.31	16226.89	14964.25	-6378.13	1714930.95	14383740.83	39°36'31.9876"N	80°44'7.5707"W	16266.81	336.915	1.05	-0.09	1.04	
24078.00	89.850	337.040	7066.51	16320.63	15050.56	-6415.36	1714893.73	14383827.11	39°36'32.8417"N	80°44'8.0431"W	16360.81	336.914	0.80	-0.06	0.80	
24173.00	89.780	338.530	7066.82	16415.49	15138.50	-6451.28	1714857.83	14383915.02	39°36'33.7119"N	80°44'8.4987"W	16455.80	336.919	1.57	-0.07	1.57	
24268.00	90.060	339.710	7066.95	16510.44	15227.26	-6485.14	1714823.98	14384003.75	39°36'34.5901"N	80°44'8.9280"W	16550.73	336.931	1.28	0.29	1.24	
24292.00	90.000	340.030	7066.94	16534.43	15249.80	-6493.39	1714815.73	14384026.27	39°36'34.8131"N	80°44'9.0327"W	16574.69	336.936	1.36	-0.25	1.33	
24317.00‡	90.000	340.030	7066.94	16559.43	15273.29	-6501.93	1714807.19	14384049.76	39°36'35.0455"N	80°44'9.1409"W	16599.66	336.940	0.00	0.00	0.00	Projected MD at TD: 24317'

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# Actual Wellpath Report

Duke Unit 2H AWP Proj: 24317'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Duke Unit 2H
Field	Wetzel	API	47-103-03695-0000
Facility	Cedar Pad	Wellbore	Duke Unit 2H AWB
Slot	Slot H		

DIRECTIONAL DIFFICULTY INDEX			
Directional Difficulty Index @ TD = 7.26		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: Duke Unit 2H AWB Ref Wellpath: Duke Unit 2H AWP Proj: 24317'									
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	25.50	125.50	100.00	25.50	125.50	0.00	0.00	-0.33	0.11
17.5in Open Hole	125.50	736.00	610.50	125.50	736.00	-0.33	0.11	-1.96	0.29
13.375in Casing Surface	25.50	716.00	690.50	25.50	716.00	0.00	0.00	-1.81	0.35
12.25in Open Hole	736.00	3419.00	2683.00	736.00	3371.18	-1.96	0.29	-431.12	-214.64
9.625in Casing Intermediate	25.50	3390.00	3364.50	25.50	3342.67	0.00	0.00	-426.25	-212.50
8.75in Open Hole	3419.00	6425.00	3006.00	3371.18	6312.53	-431.12	-214.64	-979.79	-499.78
8.5in Open Hole	6425.00	24317.00	17892.00	6312.53	7066.94	-979.79	-499.78	15273.29	-6501.93
5.5in Casing Production	25.50	24297.00	24271.50	25.50	7066.94	0.00	0.00	15254.50	-6495.10

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# Actual Wellpath Report

Duke Unit 2H AWP Proj: 24317'  
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### REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Duke Unit 2H
Field	Wetzel	API	47-103-03695-0000
Facility	Cedar Pad	Wellbore	Duke Unit 2H AWB
Slot	Slot H		

### TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Duke Unit 2H POE Rev-2	7093.00	-599.80	-888.73	1720418.18	14368182.93	39°33'58.0000"N	80°42'58.0624"W	point
Duke Unit 2H AZI Rev-2	7115.00	-25.22	-1196.40	1720110.63	14368757.28	39°34'3.6882"N	80°43'1.9680"W	point
Duke Unit 2H BHL Rev-2	7115.00	15291.00	-6490.44	1714818.68	14384067.46	39°36'35.2202"N	80°44'8.9934"W	point
Duke Unit 2H LP Rev-2	7115.00	-452.74	-985.71	1720321.24	14368329.92	39°33'59.4564"N	80°42'59.2948"W	point
Duke Unit 2H 50' L/R Hard Line	7500.00	7634.41	-3843.95	1717464.13	14376413.89	39°35'19.4707"N	80°43'35.4773"W	rectangle
2D Rectangle 16202.1 x 100.								

### WELLPATH COMPOSITION - Ref Wellbore: Duke Unit 2H AWB Ref Wellpath: Duke Unit 2H AWP Proj: 24317'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
25.50	733.00	Gyrodata 2015 - GC+WIR+DPIPE	01 Gyrodata MS Gyro <17-1/2"> (100'-733')	Duke Unit 2H AWB	3/1/2025
733.00	3318.00	BH NaviTrak (2019) (Axial Corr+HRGM)	02 APS EM <12-1/4"> (733')(768'-3318')	Duke Unit 2H AWB	3/1/2025
3318.00	6349.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03 APS EM <8-3/4"> (3318')(3412'-6349')	Duke Unit 2H AWB	4/9/2025
6349.00	24317.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	04 BH Lucida <8-1/2"> (6349')(6467'-24292')	Duke Unit 2H AWB	4/9/2025

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# Actual Wellpath Report

Duke Unit 2H AWP Proj: 24317'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Duke Unit 2H
Field	Wetzel	API	47-103-03695-0000
Facility	Cedar Pad	Wellbore	Duke Unit 2H AWB
Slot	Slot H		

## COMMENTS

### Wellpath general comments

API: 47-103-03695-0000

BH Job #: 112590380

Rig: H&P 317

Duration: 4/12/2025-4/18/2025

Gyrodata MS Gyro <17-1/2"> (100'-733')

APS EM <12-1/4"> (733')(768'-3318')

APS EM <8-3/4"> (3318')(3412'-6349')

BH Lucida <8-1/2"> (6349')(6467'-24292')

Sycamore: 6881' MD

Middlesex: 7042' MD

Burkett: 7195' MD

Tully: 7252' MD

Marcellus POE: 7472' MD

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