



# ANTERO RESOURCES CORPORATION

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

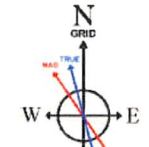
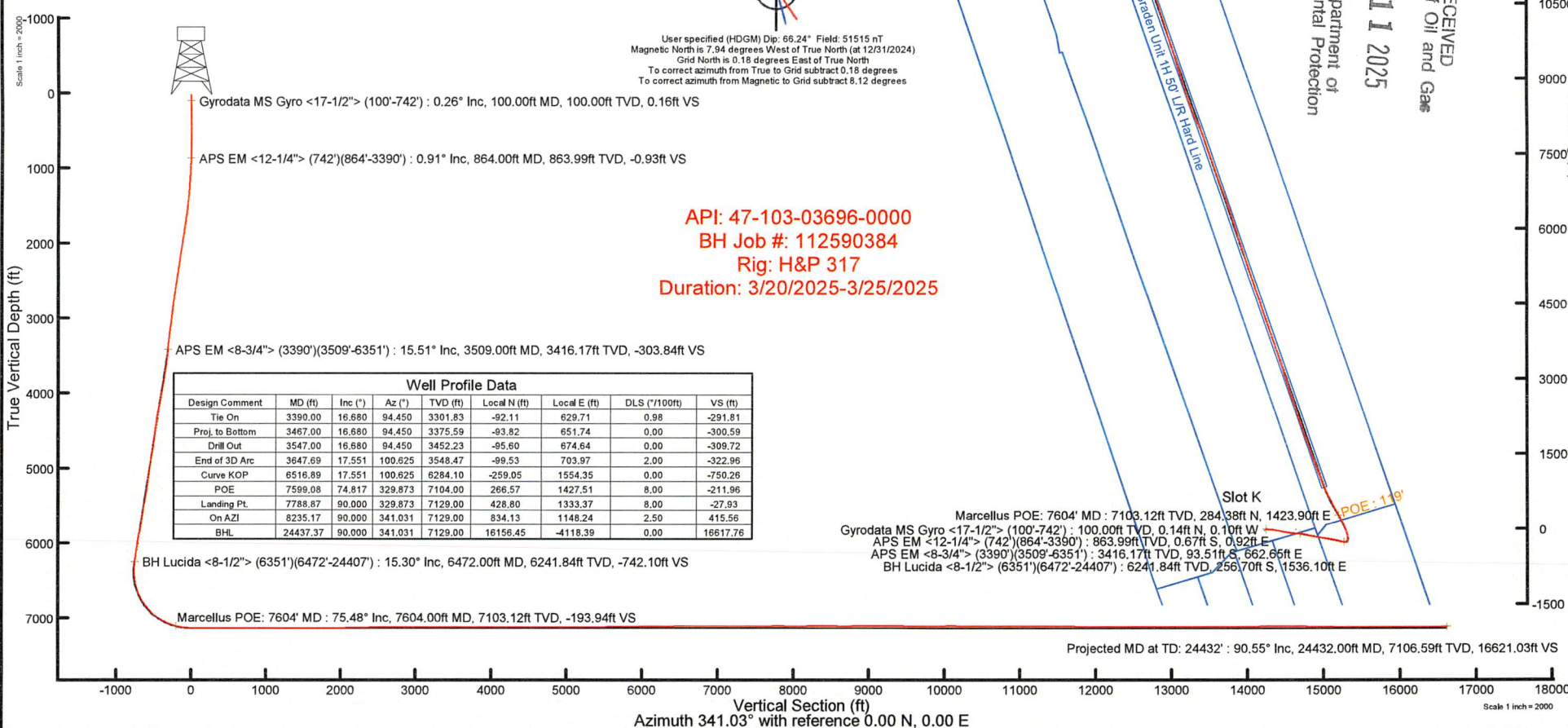
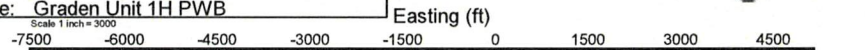
Slot: Slot K  
Well: Graden Unit 1H  
Wellbore: Graden Unit 1H PWB



Plot reference wellpath is Graden Unit 1H 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 K): -1250 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's default MD datum	Created by: edsaryar on 2025-04-06, Database: WA_MPL_EASTERNUS_Del

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 K	88.16	336.97	1721339.340	14368813.940
Comment: Graden Unit 1H				
H&P 317 (RKB) to Ground level (At Slot: Slot K)				25.5ft
Mean Sea Level to Ground level (At Slot: Slot K)				-1250ft
H&P 317 (RKB) to Mean Sea Level				1275.5ft

Well Data			
Slot	Well	Wellbore	Wellpath
Slot K	Graden Unit 1H	Graden Unit 1H AWP	Graden Unit 1H AWP Proj: 24432'
Slot K	Graden Unit 1H	Graden Unit 1H PWB	Graden Unit 1H PWP Rev-B.0



User specified (HDGM) Dip: 66.24° Field: 51515 nT  
Magnetic North is 7.94 degrees West of True North (at 12/31/2024)  
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 8.12 degrees

**API: 47-103-03696-0000**  
**BH Job #: 112590384**  
**Rig: H&P 317**  
**Duration: 3/20/2025-3/25/2025**

Well Profile Data							
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	VS (ft)
Tie On	3390.00	16.680	94.450	3301.83	-92.11	629.71	0.98
Proj. to Bottom	3467.00	16.680	94.450	3375.59	-93.82	651.74	0.00
Drill Out	3547.00	16.680	94.450	3452.23	-95.80	674.64	0.00
End of 3D Arc	3647.69	17.551	100.625	3548.47	-99.53	703.97	2.00
Curve KOP	6516.89	17.551	100.625	6284.10	-259.05	1554.35	0.00
POE	7599.08	74.817	329.873	7104.00	266.57	1427.51	8.00
Landing Pt.	7788.87	90.000	329.873	7129.00	428.80	1333.37	8.00
On AZI	8235.17	90.000	341.031	7129.00	834.13	1148.24	2.50
BHL	24437.37	90.000	341.031	7129.00	16156.45	-4118.39	0.00

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# Actual Wellpath Report

Graden Unit 1H AWP Proj: 24432'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Graden Unit 1H
Field	Wetzel	API	47-103-03696-0000
Facility	Cedar Pad	Wellbore	Graden Unit 1H AWB
Slot	Slot K		

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	4/6/2025 at 4:33:49 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	88.16	336.97	1721339.34	14368813.94	39°34'4.2100"N	80°42'46.2699"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 K)	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	341.03°

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Field	Wetzel	API	47-103-03696-0000
Facility	Cedar Pad	Wellbore	Graden Unit 1H AWP
Slot	Slot K		

WELLPATH DATA (264 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	325.680	0.00	0.00	0.00	0.00	1721339.34	14368813.94	39°34'4.2100"N	80°42'46.2699"W	0.00	0.000	0.00	0.00	0.00	
25.50	0.000	325.680	25.50	0.00	0.00	0.00	1721339.34	14368813.94	39°34'4.2100"N	80°42'46.2699"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.260	325.680	100.00	0.16	0.14	-0.10	1721339.24	14368814.08	39°34'4.2113"N	80°42'46.2712"W	0.17	325.680	0.35	0.35	0.00	Gyrodata MS Gyro <17-1/2"> (100'-742')
200.00	0.190	6.830	200.00	0.53	0.49	-0.20	1721339.14	14368814.43	39°34'4.2148"N	80°42'46.2725"W	0.53	337.513	0.17	-0.07	41.15	
300.00	0.120	93.790	300.00	0.64	0.65	-0.08	1721339.26	14368814.59	39°34'4.2164"N	80°42'46.2709"W	0.65	353.037	0.22	-0.07	86.96	
400.00	0.120	142.010	400.00	0.50	0.56	0.09	1721339.43	14368814.50	39°34'4.2155"N	80°42'46.2688"W	0.57	9.097	0.10	0.00	48.22	
500.00	0.200	160.610	500.00	0.23	0.31	0.21	1721339.55	14368814.25	39°34'4.2130"N	80°42'46.2672"W	0.38	34.141	0.09	0.08	18.60	
600.00	0.220	161.250	600.00	-0.14	-0.03	0.33	1721339.67	14368813.91	39°34'4.2096"N	80°42'46.2657"W	0.33	95.804	0.02	0.02	0.64	
700.00	0.240	238.690	700.00	-0.38	-0.32	0.21	1721339.55	14368813.62	39°34'4.2067"N	80°42'46.2672"W	0.39	146.525	0.29	0.02	77.44	
742.00	0.220	217.120	742.00	-0.44	-0.43	0.09	1721339.43	14368813.51	39°34'4.2057"N	80°42'46.2688"W	0.44	168.210	0.21	-0.05	-51.36	
864.00	0.910	93.070	863.99	-0.93	-0.67	0.92	1721340.26	14368813.27	39°34'4.2033"N	80°42'46.2583"W	1.14	126.284	0.86	0.57	-101.68	APS EM <12-1/4"> (742')(864'-3390')
954.00	3.310	101.080	953.92	-2.50	-1.21	4.18	1721343.52	14368812.73	39°34'4.1979"N	80°42'46.2166"W	4.35	106.151	2.68	2.67	8.90	
1045.00	5.390	100.760	1044.66	-5.94	-2.51	10.96	1721350.29	14368811.43	39°34'4.1848"N	80°42'46.1301"W	11.24	102.919	2.29	2.29	-0.35	
1140.00	7.660	98.240	1139.04	-11.05	-4.25	21.61	1721360.94	14368809.69	39°34'4.1672"N	80°42'45.9942"W	22.02	101.138	2.41	2.39	-2.65	
1234.00	10.180	95.840	1231.89	-17.40	-6.00	36.08	1721375.40	14368807.94	39°34'4.1495"N	80°42'45.8095"W	36.57	99.439	2.71	2.68	-2.55	
1329.00	12.300	94.160	1325.06	-24.90	-7.59	54.52	1721393.84	14368806.36	39°34'4.1333"N	80°42'45.5741"W	55.05	97.921	2.26	2.23	-1.77	
1424.00	14.080	93.430	1417.55	-33.28	-9.01	76.15	1721415.46	14368804.93	39°34'4.1185"N	80°42'45.2979"W	76.68	96.749	1.88	1.87	-0.77	
1518.00	15.040	93.950	1508.53	-42.38	-10.54	99.73	1721439.03	14368803.41	39°34'4.1027"N	80°42'44.9969"W	100.29	96.031	1.03	1.02	0.55	
1613.00	15.530	97.510	1600.18	-52.86	-13.05	124.64	1721463.93	14368800.90	39°34'4.0771"N	80°42'44.6790"W	125.32	95.976	1.11	0.52	3.75	
1708.00	16.200	100.770	1691.56	-65.10	-17.19	150.27	1721489.55	14368796.76	39°34'4.0354"N	80°42'44.3519"W	151.25	96.525	1.17	0.71	3.43	
1802.00	15.600	99.450	1781.96	-77.62	-21.71	175.62	1721514.89	14368792.24	39°34'3.9898"N	80°42'44.0284"W	176.95	97.048	0.75	-0.64	-1.40	
1897.00	16.350	97.520	1873.29	-89.66	-25.56	201.47	1721540.73	14368788.39	39°34'3.9510"N	80°42'43.6984"W	203.09	97.230	0.97	0.79	-2.03	
1992.00	17.340	100.820	1964.22	-102.66	-29.97	228.64	1721567.89	14368783.99	39°34'3.9066"N	80°42'43.3517"W	230.59	97.467	1.45	1.04	3.47	
2086.00	17.730	103.980	2053.85	-117.41	-36.05	256.28	1721595.52	14368777.90	39°34'3.8455"N	80°42'42.9989"W	258.81	98.008	1.09	0.41	3.36	
2181.00	17.110	102.350	2144.50	-132.54	-42.54	283.97	1721623.20	14368771.42	39°34'3.7806"N	80°42'42.6456"W	287.14	98.519	0.83	-0.65	-1.72	
2276.00	17.090	100.950	2235.30	-146.77	-48.18	311.33	1721650.55	14368765.78	39°34'3.7240"N	80°42'42.2965"W	315.04	98.797	0.43	-0.02	-1.47	
2370.00	16.830	100.320	2325.21	-160.31	-53.24	338.28	1721677.49	14368760.72	39°34'3.6731"N	80°42'41.9526"W	342.44	98.944	0.34	-0.28	-0.67	
2465.00	16.920	99.850	2416.12	-173.71	-58.07	365.43	1721704.63	14368755.89	39°34'3.6245"N	80°42'41.6061"W	370.01	99.029	0.17	0.09	-0.49	
2559.00	16.910	99.830	2506.05	-186.89	-62.74	392.38	1721731.56	14368751.22	39°34'3.5775"N	80°42'41.2622"W	397.36	99.085	0.01	-0.01	-0.02	
2654.00	16.840	99.320	2596.96	-200.06	-67.33	419.57	1721758.74	14368746.64	39°34'3.5313"N	80°42'40.9152"W	424.94	99.117	0.17	-0.07	-0.54	

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Graden Unit 1H AWP Proj: 24432'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Graden Unit 1H
Field	Wetzel	API	47-103-03696-0000
Facility	Cedar Pad	Wellbore	Graden Unit 1H AWP
Slot	Slot K		

WELLPATH DATA (264 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
2749.00	16.750	99.560	2687.91	-213.12	-71.83	446.65	1721785.81	14368742.14	39°34'3.4859"N	80°42'40.5696"W	452.39	99.136	0.12	-0.09	0.25	
2844.00	16.650	98.370	2778.90	-225.91	-76.09	473.61	1721812.76	14368737.88	39°34'3.4430"N	80°42'40.2255"W	479.68	99.127	0.38	-0.11	-1.25	
2938.00	15.750	96.060	2869.17	-237.50	-79.39	499.62	1721838.76	14368734.58	39°34'3.4095"N	80°42'39.8935"W	505.89	99.029	1.18	-0.96	-2.46	
3033.00	16.340	94.390	2960.47	-248.25	-81.78	525.77	1721864.90	14368732.19	39°34'3.3851"N	80°42'39.5597"W	532.09	98.841	0.79	0.62	-1.76	
3128.00	16.770	95.030	3051.53	-259.12	-84.00	552.74	1721891.87	14368729.97	39°34'3.3622"N	80°42'39.2153"W	559.09	98.641	0.49	0.45	0.67	
3222.00	17.780	96.440	3141.29	-270.80	-86.80	580.52	1721919.63	14368727.17	39°34'3.3337"N	80°42'38.8608"W	586.97	98.504	1.16	1.07	1.50	
3317.00	16.960	96.720	3231.96	-283.03	-90.05	608.69	1721947.79	14368723.93	39°34'3.3007"N	80°42'38.5012"W	615.32	98.415	0.87	-0.86	0.29	
3390.00	16.680	94.450	3301.83	-291.81	-92.11	629.71	1721968.80	14368721.87	39°34'3.2797"N	80°42'38.2329"W	636.41	98.322	0.98	-0.38	-3.11	
3509.00	15.510	90.270	3416.17	-303.84	-93.51	662.65	1722001.73	14368720.47	39°34'3.2648"N	80°42'37.8124"W	669.21	98.032	1.38	-0.98	-3.51	APS EM <8-3/4"> (3390')(3509'-6351')
3603.00	16.540	91.080	3506.52	-312.57	-93.82	688.60	1722027.66	14368720.16	39°34'3.2609"N	80°42'37.4811"W	694.96	97.759	1.12	1.10	0.86	
3698.00	17.390	95.590	3597.39	-323.11	-95.46	716.25	1722055.30	14368718.52	39°34'3.2438"N	80°42'37.1281"W	722.58	97.591	1.65	0.89	4.75	
3792.00	17.140	103.680	3687.16	-336.42	-100.10	743.69	1722082.74	14368713.88	39°34'3.1971"N	80°42'36.7778"W	750.40	97.666	2.57	-0.27	8.61	
3887.00	17.090	104.100	3777.96	-351.59	-106.81	770.83	1722109.86	14368707.17	39°34'3.1299"N	80°42'36.4316"W	778.19	97.889	0.14	-0.05	0.44	
3982.00	16.690	101.690	3868.86	-366.16	-112.98	797.73	1722136.75	14368701.01	39°34'3.0681"N	80°42'36.0883"W	805.69	98.061	0.85	-0.42	-2.54	
4076.00	18.060	105.060	3958.57	-381.20	-119.50	825.02	1722164.03	14368694.49	39°34'3.0028"N	80°42'35.7401"W	833.63	98.242	1.81	1.46	3.59	
4171.00	18.880	104.780	4048.68	-397.98	-127.25	854.10	1722193.10	14368686.74	39°34'2.9253"N	80°42'35.3691"W	863.53	98.474	0.87	0.86	-0.29	
4266.00	18.460	102.080	4138.68	-414.28	-134.32	883.67	1722222.66	14368679.68	39°34'2.8545"N	80°42'34.9918"W	893.82	98.643	1.01	-0.44	-2.84	
4360.00	19.030	103.400	4227.69	-430.16	-140.98	913.13	1722252.11	14368673.01	39°34'2.7876"N	80°42'34.6159"W	923.95	98.777	0.76	0.61	1.40	
4455.00	18.810	101.260	4317.56	-446.16	-147.56	943.22	1722282.19	14368666.44	39°34'2.7216"N	80°42'34.2320"W	954.69	98.892	0.77	-0.23	-2.25	
4549.00	17.780	98.200	4406.81	-460.35	-152.57	972.29	1722311.24	14368661.43	39°34'2.6712"N	80°42'33.8610"W	984.18	98.918	1.50	-1.10	-3.26	
4644.00	16.120	95.210	4497.68	-472.37	-155.84	999.78	1722338.72	14368658.17	39°34'2.6381"N	80°42'33.5101"W	1011.85	98.859	1.97	-1.75	-3.15	
4738.00	15.920	97.880	4588.03	-483.54	-158.79	1025.55	1722364.48	14368655.21	39°34'2.6081"N	80°42'33.1812"W	1037.77	98.801	0.81	-0.21	2.84	
4833.00	16.270	100.570	4679.31	-495.99	-163.02	1051.53	1722390.46	14368650.99	39°34'2.5655"N	80°42'32.8495"W	1064.09	98.812	0.87	0.37	2.83	
4928.00	18.060	99.830	4770.08	-509.64	-167.97	1079.13	1722418.04	14368646.04	39°34'2.5156"N	80°42'32.4974"W	1092.12	98.847	1.90	1.88	-0.78	
5025.00	18.180	102.440	4862.27	-524.77	-173.80	1108.72	1722447.62	14368640.21	39°34'2.4571"N	80°42'32.1198"W	1122.26	98.909	0.85	0.12	2.69	
5120.00	17.630	99.440	4952.67	-539.34	-179.35	1137.38	1722476.28	14368634.66	39°34'2.4013"N	80°42'31.7540"W	1151.44	98.961	1.13	-0.58	-3.16	
5215.00	18.380	99.300	5043.01	-553.28	-184.13	1166.36	1722505.24	14368629.88	39°34'2.3531"N	80°42'31.3842"W	1180.80	98.971	0.79	0.79	-0.15	
5309.00	17.590	96.460	5132.42	-566.40	-188.12	1195.10	1722533.97	14368625.89	39°34'2.3127"N	80°42'31.0174"W	1209.81	98.946	1.26	-0.84	-3.02	
5404.00	16.790	97.770	5223.18	-578.74	-191.59	1222.96	1722561.81	14368622.42	39°34'2.2775"N	80°42'30.6618"W	1237.87	98.904	0.94	-0.84	1.38	
5499.00	17.260	99.680	5314.02	-591.67	-195.82	1250.44	1722589.29	14368618.20	39°34'2.2349"N	80°42'30.3110"W	1265.68	98.900	0.77	0.49	2.01	

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WELLPATH DATA (264 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
5593.00	17.450	102.700	5403.74	-605.75	-201.26	1277.94	1722616.78	14368612.76	39°34'2.1802"N	80°42'29.9601"W	1293.69	98.950	0.98	0.20	3.21	
5688.00	18.920	102.760	5493.99	-621.33	-207.80	1306.86	1722645.68	14368606.23	39°34'2.1147"N	80°42'29.5911"W	1323.28	99.035	1.55	1.55	0.06	
5783.00	18.580	98.680	5583.95	-636.46	-213.48	1336.84	1722675.66	14368600.54	39°34'2.0576"N	80°42'29.2085"W	1353.78	99.073	1.43	-0.36	-4.29	
5877.00	17.270	100.000	5673.39	-650.17	-218.16	1365.39	1722704.19	14368595.86	39°34'2.0104"N	80°42'28.8442"W	1382.71	99.078	1.46	-1.39	1.40	
5972.00	17.800	103.230	5763.98	-664.74	-223.94	1393.41	1722732.20	14368590.09	39°34'1.9524"N	80°42'28.4866"W	1411.29	99.130	1.17	0.56	3.40	
6067.00	18.640	104.930	5854.21	-680.94	-231.17	1422.22	1722761.00	14368582.86	39°34'1.8800"N	80°42'28.1191"W	1440.88	99.232	1.05	0.88	1.79	
6161.00	19.000	105.690	5943.19	-698.02	-239.18	1451.47	1722790.23	14368574.85	39°34'1.7999"N	80°42'27.7460"W	1471.04	99.357	0.46	0.38	0.81	
6256.00	16.730	101.950	6033.60	-713.85	-246.19	1479.74	1722818.49	14368567.84	39°34'1.7297"N	80°42'27.3853"W	1500.08	99.446	2.68	-2.39	-3.94	
6351.00	14.870	101.350	6125.01	-727.03	-251.42	1505.07	1722843.81	14368562.61	39°34'1.6772"N	80°42'27.0620"W	1525.92	99.484	1.97	-1.96	-0.63	
6472.00	15.300	97.990	6241.84	-742.10	-256.70	1536.10	1722874.83	14368557.34	39°34'1.6240"N	80°42'26.6660"W	1557.40	99.487	0.81	0.36	-2.78	BH Lucida <8-1/2"> (6351')(6472'-24407')
6566.00	14.240	79.890	6332.78	-749.51	-256.39	1559.78	1722898.50	14368557.65	39°34'1.6263"N	80°42'26.3637"W	1580.71	99.335	5.02	-1.13	-19.26	
6661.00	14.190	54.520	6424.97	-748.00	-247.58	1580.78	1722919.50	14368566.46	39°34'1.7128"N	80°42'26.0951"W	1600.05	98.901	6.51	-0.05	-26.71	
6756.00	15.500	28.630	6516.89	-736.12	-229.66	1596.36	1722935.07	14368584.38	39°34'1.8894"N	80°42'25.8954"W	1612.80	98.186	7.06	1.38	-27.25	
6850.00	19.760	8.780	6606.54	-713.55	-202.89	1604.82	1722943.52	14368611.13	39°34'2.1536"N	80°42'25.7863"W	1617.59	97.205	7.78	4.53	-21.12	
6945.00	25.420	356.340	6694.26	-679.63	-166.62	1605.97	1722944.68	14368647.38	39°34'2.5120"N	80°42'25.7701"W	1614.59	95.923	7.77	5.96	-13.09	
7013.00†	30.396	351.006	6754.35	-648.59	-135.04	1602.34	1722941.05	14368678.95	39°34'2.8243"N	80°42'25.8151"W	1608.03	94.817	8.18	7.32	-7.84	Sycamore: 7013' MD
7040.00	32.420	349.310	6777.39	-634.69	-121.18	1599.93	1722938.64	14368692.81	39°34'2.9613"N	80°42'25.8453"W	1604.52	94.331	8.18	7.50	-6.28	
7134.00	38.720	342.850	6853.84	-580.30	-68.26	1586.57	1722925.29	14368745.71	39°34'3.4848"N	80°42'26.0137"W	1588.04	92.463	7.80	6.70	-6.87	
7178.00†	42.264	340.846	6887.30	-551.74	-41.12	1577.66	1722916.37	14368772.84	39°34'3.7533"N	80°42'26.1264"W	1578.19	91.493	8.58	8.06	-4.56	Middlesex: 7178' MD
7229.00	46.410	338.840	6923.77	-516.12	-7.68	1565.36	1722904.08	14368806.26	39°34'4.0842"N	80°42'26.2821"W	1565.38	90.281	8.58	8.13	-3.93	
7324.00	54.180	337.190	6984.41	-443.19	60.02	1537.96	1722876.70	14368873.93	39°34'4.7541"N	80°42'26.6290"W	1539.13	87.765	8.29	8.18	-1.74	Burkett: 7324' MD
7378.00†	58.554	336.066	7014.31	-398.38	101.27	1520.12	1722858.86	14368915.17	39°34'5.1624"N	80°42'26.8552"W	1523.49	86.189	8.28	8.10	-2.08	Tully: 7378' MD
7418.00	61.800	335.300	7034.21	-363.83	132.89	1505.83	1722844.58	14368946.78	39°34'5.4754"N	80°42'27.0363"W	1511.68	84.957	8.28	8.11	-1.92	
7513.00	67.920	330.320	7074.57	-278.81	209.27	1466.49	1722805.25	14369023.13	39°34'6.2316"N	80°42'27.5356"W	1481.34	81.878	8.00	6.44	-5.24	
7604.00†	75.481	330.562	7103.12	-193.94	284.38	1423.90	1722762.68	14369098.20	39°34'6.9752"N	80°42'28.0763"W	1452.02	78.706	8.31	8.31	0.27	Marcellus POE: 7604' MD
7607.00	75.730	330.570	7103.86	-191.08	286.91	1422.47	1722761.25	14369100.73	39°34'7.0002"N	80°42'28.0944"W	1451.12	78.597	8.31	8.31	0.26	
7650.00	79.290	331.670	7113.16	-149.73	323.66	1402.20	1722740.99	14369137.47	39°34'7.3641"N	80°42'28.3517"W	1439.07	77.002	8.65	8.28	2.56	
7702.00	82.500	331.860	7121.39	-99.07	368.89	1377.91	1722716.71	14369182.69	39°34'7.8119"N	80°42'28.6600"W	1426.44	75.012	6.18	6.17	0.37	
7797.00	89.940	332.230	7127.65	-5.50	452.57	1333.51	1722672.32	14369266.33	39°34'8.6403"N	80°42'29.2235"W	1408.21	71.254	7.84	7.83	0.39	
7891.00	89.850	332.480	7127.82	87.42	535.83	1289.89	1722628.72	14369349.56	39°34'9.4647"N	80°42'29.7770"W	1396.76	67.442	0.28	-0.10	0.27	

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# Actual Wellpath Report

Graden Unit 1H AWP Proj: 24432'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Graden Unit 1H
Field	Wetzel	API	47-103-03696-0000
Facility	Cedar Pad	Wellbore	Graden Unit 1H AWB
Slot	Slot K		

WELLPATH DATA (264 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
7986.00	89.970	333.470	7127.97	181.48	620.46	1246.73	1722585.58	14369434.16	39°34'10.3024"N	80°42'30.3247"W	1392.59	63.542	1.05	0.13	1.04	
8081.00	90.000	333.690	7127.99	275.68	705.54	1204.46	1722543.32	14369519.20	39°34'11.1446"N	80°42'30.8609"W	1395.89	59.639	0.23	0.03	0.23	
8176.00	90.060	337.050	7127.94	370.21	791.88	1164.87	1722503.75	14369605.51	39°34'11.9993"N	80°42'31.3628"W	1408.55	55.792	3.54	0.06	3.54	
8270.00	89.940	338.130	7127.94	464.04	878.78	1129.04	1722467.93	14369692.38	39°34'12.8593"N	80°42'31.8168"W	1430.73	52.105	1.16	-0.13	1.15	
8365.00	89.570	339.470	7128.35	558.96	967.35	1094.68	1722433.59	14369780.91	39°34'13.7357"N	80°42'32.2519"W	1460.85	48.534	1.46	-0.39	1.41	
8460.00	89.940	339.940	7128.76	653.93	1056.45	1061.73	1722400.65	14369869.97	39°34'14.6173"N	80°42'32.6689"W	1497.79	45.143	0.63	0.39	0.49	
8554.00	90.000	339.860	7128.81	747.92	1144.73	1029.43	1722368.36	14369958.21	39°34'15.4908"N	80°42'33.0778"W	1539.52	41.964	0.11	0.06	-0.09	
8649.00	90.000	339.430	7128.81	842.89	1233.79	996.38	1722335.33	14370047.25	39°34'16.3721"N	80°42'33.4961"W	1585.88	38.924	0.45	0.00	-0.45	
8744.00	89.850	339.420	7128.93	937.85	1322.73	963.00	1722301.96	14370136.15	39°34'17.2522"N	80°42'33.9188"W	1636.15	36.056	0.16	-0.16	-0.01	
8838.00	89.910	339.130	7129.13	1031.81	1410.65	929.73	1722268.71	14370224.03	39°34'18.1222"N	80°42'34.3399"W	1689.48	33.388	0.32	0.06	-0.31	
8932.00	89.660	339.910	7129.48	1125.77	1498.71	896.84	1722235.83	14370312.06	39°34'18.9935"N	80°42'34.7563"W	1746.56	30.897	0.87	-0.27	0.83	
9027.00	89.850	339.370	7129.89	1220.74	1587.77	863.79	1722202.79	14370401.09	39°34'19.8748"N	80°42'35.1747"W	1807.53	28.547	0.60	0.20	-0.57	
9122.00	89.940	338.510	7130.06	1315.68	1676.42	829.66	1722168.67	14370489.70	39°34'20.7521"N	80°42'35.6069"W	1870.49	26.331	0.91	0.09	-0.91	
9216.00	90.060	339.920	7130.06	1409.63	1764.31	796.30	1722135.33	14370577.55	39°34'21.6217"N	80°42'36.0293"W	1935.68	24.292	1.51	0.13	1.50	
9311.00	90.220	340.910	7129.83	1504.62	1853.81	764.46	1722103.49	14370667.02	39°34'22.5073"N	80°42'36.4322"W	2005.24	22.410	1.06	0.17	1.04	
9406.00	90.710	342.580	7129.06	1599.61	1944.02	734.70	1722073.75	14370757.19	39°34'23.3998"N	80°42'36.8085"W	2078.22	20.703	1.83	0.52	1.76	
9500.00	89.320	339.710	7129.03	1693.59	2032.96	704.32	1722043.39	14370846.10	39°34'24.2798"N	80°42'37.1928"W	2151.51	19.109	3.39	-1.48	-3.05	
9595.00	89.820	338.460	7129.75	1788.54	2121.70	670.41	1722009.49	14370934.80	39°34'25.1579"N	80°42'37.6222"W	2225.10	17.535	1.42	0.53	-1.32	
9690.00	90.090	340.110	7129.82	1883.49	2210.56	636.81	1721975.90	14371023.62	39°34'26.0371"N	80°42'38.0476"W	2300.45	16.070	1.76	0.28	1.74	
9784.00	90.950	342.730	7128.97	1977.47	2299.64	606.86	1721945.96	14371112.68	39°34'26.9185"N	80°42'38.4264"W	2378.37	14.783	2.93	0.91	2.79	
9879.00	91.290	344.690	7127.11	2072.35	2390.81	580.22	1721919.33	14371203.80	39°34'27.8204"N	80°42'38.7629"W	2460.21	13.641	2.09	0.36	2.06	
9974.00	92.060	343.620	7124.33	2167.16	2482.16	554.30	1721893.42	14371295.12	39°34'28.7240"N	80°42'39.0902"W	2543.29	12.588	1.39	0.81	-1.13	
10068.00	90.250	342.200	7122.44	2261.09	2571.98	526.68	1721865.81	14371384.91	39°34'29.6127"N	80°42'39.4392"W	2625.35	11.573	2.45	-1.93	-1.51	
10163.00	91.080	342.370	7121.34	2356.06	2662.47	497.77	1721836.92	14371475.36	39°34'30.5079"N	80°42'39.8046"W	2708.60	10.590	0.89	0.87	0.18	
10258.00	90.310	340.730	7120.18	2451.04	2752.58	467.71	1721806.87	14371565.43	39°34'31.3994"N	80°42'40.1848"W	2792.03	9.643	1.91	-0.81	-1.73	
10352.00	89.970	342.550	7119.95	2545.03	2841.79	438.10	1721777.27	14371654.61	39°34'32.2820"N	80°42'40.5592"W	2875.36	8.764	1.97	-0.36	1.94	
10447.00	90.740	342.540	7119.37	2640.00	2932.41	409.61	1721748.79	14371745.19	39°34'33.1786"N	80°42'40.9194"W	2960.88	7.952	0.81	0.81	-0.01	
10542.00	90.680	342.640	7118.19	2734.95	3023.05	381.19	1721720.38	14371835.80	39°34'34.0753"N	80°42'41.2787"W	3046.99	7.187	0.12	-0.06	0.11	
10637.00	90.030	342.770	7117.60	2829.91	3113.75	352.95	1721692.15	14371926.47	39°34'34.9726"N	80°42'41.6356"W	3133.69	6.467	0.70	-0.68	0.14	
10731.00	90.340	342.940	7117.30	2923.86	3203.58	325.24	1721664.45	14372016.25	39°34'35.8612"N	80°42'41.9858"W	3220.04	5.797	0.38	0.33	0.18	

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# Actual Wellpath Report

Graden Unit 1H AWP Proj: 24432'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Graden Unit 1H
Field	Wetzel	API	47-103-03696-0000
Facility	Cedar Pad	Wellbore	Graden Unit 1H AWB
Slot	Slot K		

WELLPATH DATA (264 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
10826.00	89.720	342.500	7117.25	3018.82	3294.29	297.02	1721636.24	14372106.93	39°34'36.7586"N	80°42'42.3425"W	3307.65	5.152	0.80	-0.65	-0.46	
10921.00	89.690	341.560	7117.74	3113.80	3384.65	267.71	1721606.94	14372197.26	39°34'37.6526"N	80°42'42.7131"W	3395.22	4.522	0.99	-0.03	-0.99	
11015.00	89.720	341.280	7118.22	3207.80	3473.75	237.76	1721577.00	14372286.32	39°34'38.5342"N	80°42'43.0919"W	3481.88	3.915	0.30	0.03	-0.30	
11110.00	90.250	341.160	7118.24	3302.80	3563.69	207.17	1721546.43	14372376.23	39°34'39.4241"N	80°42'43.4789"W	3569.71	3.327	0.57	0.56	-0.13	
11205.00	89.880	341.520	7118.14	3397.80	3653.70	176.78	1721516.05	14372466.20	39°34'40.3146"N	80°42'43.8633"W	3657.97	2.770	0.54	-0.39	0.38	
11299.00	89.540	340.890	7118.61	3491.79	3742.69	146.49	1721485.78	14372555.15	39°34'41.1950"N	80°42'44.2465"W	3745.55	2.241	0.76	-0.36	-0.67	
11394.00	89.230	340.870	7119.63	3586.79	3832.44	115.38	1721454.67	14372644.87	39°34'42.0830"N	80°42'44.6402"W	3834.18	1.724	0.33	-0.33	-0.02	
11489.00	89.910	340.780	7120.34	3681.78	3922.17	84.18	1721423.48	14372734.56	39°34'42.9708"N	80°42'45.0350"W	3923.07	1.229	0.72	0.72	-0.09	
11583.00	90.060	341.290	7120.37	3775.78	4011.06	53.63	1721392.95	14372823.42	39°34'43.8503"N	80°42'45.4215"W	4011.42	0.766	0.57	0.16	0.54	
11678.00	90.340	340.860	7120.04	3870.78	4100.93	22.82	1721362.15	14372913.25	39°34'44.7394"N	80°42'45.8113"W	4100.99	0.319	0.54	0.29	-0.45	
11773.00	89.970	340.730	7119.78	3965.78	4190.64	-8.43	1721330.91	14373002.93	39°34'45.6271"N	80°42'46.2068"W	4190.65	359.885	0.41	-0.39	-0.14	
11867.00	90.460	341.690	7119.43	4059.78	4279.63	-38.71	1721300.64	14373091.88	39°34'46.5075"N	80°42'46.5898"W	4279.80	359.482	1.15	0.52	1.02	
11962.00	90.220	341.130	7118.86	4154.78	4369.67	-69.00	1721270.37	14373181.88	39°34'47.3984"N	80°42'46.9729"W	4370.21	359.095	0.64	-0.25	-0.59	
12057.00	90.280	341.300	7118.45	4249.77	4459.61	-99.59	1721239.79	14373271.79	39°34'48.2882"N	80°42'47.3600"W	4460.72	358.721	0.19	0.06	0.18	
12152.00	90.310	341.230	7117.96	4344.77	4549.57	-130.10	1721209.29	14373361.72	39°34'49.1783"N	80°42'47.7460"W	4551.43	358.362	0.08	0.03	-0.07	
12246.00	90.340	341.480	7117.43	4438.77	4638.64	-160.15	1721179.25	14373450.75	39°34'50.0595"N	80°42'48.1262"W	4641.40	358.023	0.27	0.03	0.27	
12341.00	90.430	341.740	7116.79	4533.76	4728.78	-190.12	1721149.29	14373540.86	39°34'50.9514"N	80°42'48.5053"W	4732.60	357.698	0.29	0.09	0.27	
12436.00	90.120	341.470	7116.33	4628.76	4818.93	-220.10	1721119.33	14373630.97	39°34'51.8432"N	80°42'48.8845"W	4823.95	357.385	0.43	-0.33	-0.28	
12530.00	90.150	341.720	7116.11	4722.75	4908.12	-249.78	1721089.66	14373720.12	39°34'52.7257"N	80°42'49.2599"W	4914.47	357.087	0.27	0.03	0.27	
12625.00	90.030	341.280	7115.96	4817.75	4998.21	-279.92	1721059.53	14373810.18	39°34'53.6170"N	80°42'49.6412"W	5006.04	356.795	0.48	-0.13	-0.46	
12719.00	90.220	341.660	7115.76	4911.74	5087.34	-309.80	1721029.67	14373899.27	39°34'54.4988"N	80°42'50.0191"W	5096.76	356.515	0.45	0.20	0.40	
12814.00	90.090	341.740	7115.50	5006.74	5177.53	-339.62	1720999.85	14373989.43	39°34'55.3911"N	80°42'50.3964"W	5188.66	356.247	0.16	-0.14	0.08	
12909.00	90.220	341.480	7115.24	5101.73	5267.68	-369.60	1720969.89	14374079.54	39°34'56.2830"N	80°42'50.7755"W	5280.63	355.987	0.31	0.14	-0.27	
13003.00	90.060	341.710	7115.01	5195.73	5356.87	-399.27	1720940.22	14374168.70	39°34'57.1655"N	80°42'51.1510"W	5371.73	355.737	0.30	-0.17	0.24	
13098.00	90.120	341.570	7114.86	5290.72	5447.04	-429.20	1720910.31	14374258.83	39°34'58.0575"N	80°42'51.5295"W	5463.92	355.495	0.16	0.06	-0.15	
13193.00	90.000	341.190	7114.77	5385.72	5537.06	-459.53	1720879.99	14374348.82	39°34'58.9482"N	80°42'51.9132"W	5556.10	355.256	0.42	-0.13	-0.40	
13287.00	90.490	341.530	7114.36	5479.72	5626.13	-489.57	1720849.96	14374437.85	39°34'59.8294"N	80°42'52.2933"W	5647.39	355.027	0.63	0.52	0.36	
13477.00	90.620	342.100	7112.52	5669.69	5806.63	-548.87	1720790.69	14374618.28	39°35'1.6152"N	80°42'53.0433"W	5832.51	354.600	0.31	0.07	0.30	
13571.00	91.080	341.680	7111.13	5763.67	5895.96	-578.08	1720761.48	14374707.58	39°35'2.4990"N	80°42'53.4128"W	5924.24	354.400	0.66	0.49	-0.45	
13666.00	91.110	341.680	7109.31	5858.64	5986.13	-607.94	1720731.64	14374797.71	39°35'3.3911"N	80°42'53.7905"W	6016.92	354.201	0.03	0.03	0.00	

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# Actual Wellpath Report

Graden Unit 1H AWP Proj: 24432'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Graden Unit 1H
Field	Wetzel	API	47-103-03696-0000
Facility	Cedar Pad	Wellbore	Graden Unit 1H AWB
Slot	Slot K		

WELLPATH DATA (264 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
13760.00	90.980	341.690	7107.60	5952.62	6075.36	-637.47	1720702.12	14374886.90	39°35'4.2738"N	80°42'54.1641"W	6108.71	354.010	0.14	-0.14	0.01	
13950.00	90.860	341.310	7104.55	6142.59	6255.51	-697.75	1720641.86	14375066.99	39°35'6.0563"N	80°42'54.9267"W	6294.31	353.635	0.21	-0.06	-0.20	
14044.00	90.800	341.740	7103.19	6236.58	6344.66	-727.54	1720612.09	14375156.10	39°35'6.9382"N	80°42'55.3035"W	6386.24	353.459	0.46	-0.06	0.46	
14139.00	90.740	341.300	7101.91	6331.57	6434.75	-757.65	1720581.99	14375246.15	39°35'7.8296"N	80°42'55.6845"W	6479.20	353.285	0.47	-0.06	-0.46	
14234.00	90.740	341.810	7100.68	6426.55	6524.86	-787.70	1720551.95	14375336.23	39°35'8.7211"N	80°42'56.0647"W	6572.24	353.116	0.54	0.00	0.54	
14328.00	90.520	339.360	7099.65	6520.54	6613.51	-818.94	1720520.72	14375424.84	39°35'9.5982"N	80°42'56.4601"W	6664.02	352.941	2.62	-0.23	-2.61	
14423.00	90.490	338.480	7098.81	6615.47	6702.15	-853.11	1720486.57	14375513.44	39°35'10.4752"N	80°42'56.8930"W	6756.22	352.746	0.93	-0.03	-0.93	
14518.00	90.370	339.870	7098.10	6710.41	6790.93	-886.88	1720452.81	14375602.20	39°35'11.3538"N	80°42'57.3207"W	6848.60	352.559	1.47	-0.13	1.46	
14613.00	90.520	340.490	7097.36	6805.40	6880.30	-919.09	1720420.61	14375691.53	39°35'12.2381"N	80°42'57.7285"W	6941.42	352.391	0.67	0.16	0.65	
14707.00	90.550	340.410	7096.48	6899.39	6968.88	-950.55	1720389.17	14375780.07	39°35'13.1145"N	80°42'58.1267"W	7033.41	352.233	0.09	0.03	-0.09	
14802.00	90.090	339.900	7095.95	6994.38	7058.24	-982.80	1720356.93	14375869.39	39°35'13.9986"N	80°42'58.5350"W	7126.33	352.073	0.72	-0.48	-0.54	
14897.00	90.340	340.320	7095.60	7089.36	7147.57	-1015.12	1720324.62	14375958.69	39°35'14.8825"N	80°42'58.9442"W	7219.29	351.917	0.51	0.26	0.44	
14992.00	90.180	340.730	7095.16	7184.36	7237.13	-1046.79	1720292.96	14376048.22	39°35'15.7687"N	80°42'59.3452"W	7312.45	351.770	0.46	-0.17	0.43	
15086.00	90.250	340.970	7094.81	7278.36	7325.93	-1077.62	1720262.14	14376136.98	39°35'16.6472"N	80°42'59.7354"W	7404.76	351.632	0.27	0.07	0.26	
15181.00	90.280	339.960	7094.37	7373.35	7415.46	-1109.39	1720230.39	14376226.47	39°35'17.5330"N	80°43'0.1376"W	7497.99	351.491	1.06	0.03	-1.06	
15276.00	89.970	340.190	7094.17	7468.34	7504.77	-1141.76	1720198.03	14376315.75	39°35'18.4167"N	80°43'0.5475"W	7591.13	351.349	0.41	-0.33	0.24	
15370.00	89.970	340.690	7094.21	7562.33	7593.35	-1173.24	1720166.57	14376404.29	39°35'19.2931"N	80°43'0.9459"W	7683.45	351.217	0.53	0.00	0.53	
15465.00	89.910	341.150	7094.31	7657.33	7683.13	-1204.29	1720135.53	14376494.04	39°35'20.1814"N	80°43'1.3390"W	7776.94	351.092	0.49	-0.06	0.48	
15560.00	91.050	340.580	7093.52	7752.33	7772.88	-1235.43	1720104.40	14376583.75	39°35'21.0694"N	80°43'1.7331"W	7870.44	350.969	1.34	1.20	-0.60	
15654.00	89.170	340.460	7093.34	7846.32	7861.49	-1266.77	1720073.07	14376672.33	39°35'21.9461"N	80°43'2.1299"W	7962.90	350.846	2.00	-2.00	-0.13	
15749.00	88.580	337.890	7095.20	7941.24	7950.26	-1300.54	1720039.32	14376761.06	39°35'22.8245"N	80°43'2.5576"W	8055.93	350.710	2.78	-0.62	-2.71	
15844.00	90.310	337.120	7096.12	8036.05	8038.02	-1336.88	1720002.99	14376848.79	39°35'23.6930"N	80°43'3.0183"W	8148.44	350.557	1.99	1.82	-0.81	
15938.00	90.890	336.240	7095.14	8129.78	8124.34	-1374.09	1719965.79	14376935.07	39°35'24.5472"N	80°43'3.4901"W	8239.72	350.400	1.12	0.62	-0.94	
16033.00	91.760	333.200	7092.94	8224.16	8210.21	-1414.64	1719925.25	14377020.91	39°35'25.3971"N	80°43'4.0047"W	8331.19	350.224	3.33	0.92	-3.20	
16127.00	89.540	336.510	7091.88	8317.59	8295.28	-1454.57	1719885.34	14377105.94	39°35'26.2391"N	80°43'4.5113"W	8421.84	350.054	4.24	-2.36	3.52	
16222.00	89.630	340.300	7092.56	8412.47	8383.59	-1489.53	1719850.40	14377194.22	39°35'27.1130"N	80°43'4.9543"W	8514.89	349.925	3.99	0.09	3.99	
16317.00	89.480	341.150	7093.30	8507.47	8473.26	-1520.89	1719819.05	14377283.86	39°35'28.0002"N	80°43'5.3512"W	8608.67	349.824	0.91	-0.16	0.89	
16412.00	89.510	342.870	7094.14	8602.45	8563.61	-1550.23	1719789.72	14377374.17	39°35'28.8941"N	80°43'5.7224"W	8702.79	349.739	1.81	0.03	1.81	
16506.00	90.250	343.080	7094.34	8696.39	8653.49	-1577.75	1719762.21	14377464.01	39°35'29.7832"N	80°43'6.0703"W	8796.14	349.667	0.82	0.79	0.22	
16601.00	90.150	343.340	7094.00	8791.32	8744.44	-1605.19	1719734.78	14377554.93	39°35'30.6829"N	80°43'6.4172"W	8890.55	349.598	0.29	-0.11	0.27	

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# Actual Wellpath Report

Graden Unit 1H AWP Proj: 24432'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Graden Unit 1H
Field	Wetzel	API	47-103-03696-0000
Facility	Cedar Pad	Wellbore	Graden Unit 1H AWB
Slot	Slot K		

WELLPATH DATA (264 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
16695.00	90.000	343.050	7093.88	8885.26	8834.42	-1632.37	1719707.62	14377644.88	39°35'31.5731"N	80°43'6.7608"W	8983.97	349.531	0.35	-0.16	-0.31	
16790.00	90.120	343.400	7093.78	8980.19	8925.38	-1659.79	1719680.21	14377735.80	39°35'32.4729"N	80°43'7.1074"W	9078.40	349.465	0.39	0.13	0.37	
16885.00	89.940	343.010	7093.73	9075.12	9016.33	-1687.24	1719652.77	14377826.71	39°35'33.3726"N	80°43'7.4544"W	9172.84	349.401	0.45	-0.19	-0.41	
16980.00	89.910	342.870	7093.86	9170.06	9107.15	-1715.11	1719624.91	14377917.50	39°35'34.2711"N	80°43'7.8067"W	9267.24	349.335	0.15	-0.03	-0.15	
17074.00	90.030	343.470	7093.91	9264.00	9197.12	-1742.32	1719597.70	14378007.43	39°35'35.1611"N	80°43'8.1508"W	9360.70	349.273	0.65	0.13	0.64	
17169.00	90.030	343.530	7093.86	9358.91	9288.21	-1769.30	1719570.73	14378098.48	39°35'36.0622"N	80°43'8.4918"W	9455.22	349.215	0.06	0.00	0.06	
17264.00	89.820	342.810	7093.98	9453.84	9379.14	-1796.81	1719543.24	14378189.38	39°35'36.9617"N	80°43'8.8395"W	9549.70	349.155	0.79	-0.22	-0.76	
17359.00	89.630	342.310	7094.44	9548.81	9469.77	-1825.28	1719514.78	14378279.98	39°35'37.8583"N	80°43'9.1996"W	9644.08	349.090	0.56	-0.20	-0.53	
17453.00	89.780	342.380	7094.92	9642.78	9559.34	-1853.79	1719486.28	14378369.51	39°35'38.7444"N	80°43'9.5602"W	9737.43	349.025	0.18	0.16	0.07	
17548.00	90.250	342.380	7094.89	9737.75	9649.89	-1882.55	1719457.54	14378460.02	39°35'39.6402"N	80°43'9.9239"W	9831.80	348.961	0.49	0.49	0.00	
17642.00	90.150	342.140	7094.57	9831.73	9739.41	-1911.19	1719428.91	14378549.51	39°35'40.5259"N	80°43'10.2862"W	9925.16	348.898	0.28	-0.11	-0.26	
17736.00	90.120	342.280	7094.35	9925.71	9828.92	-1939.91	1719400.20	14378638.98	39°35'41.4114"N	80°43'10.6495"W	10018.53	348.835	0.15	-0.03	0.15	
17831.00	90.280	342.290	7094.01	10020.69	9919.41	-1968.81	1719371.30	14378729.44	39°35'42.3066"N	80°43'11.0152"W	10112.91	348.774	0.17	0.17	0.01	
17926.00	89.880	342.320	7093.88	10115.66	10009.92	-1997.69	1719342.44	14378819.91	39°35'43.2020"N	80°43'11.3804"W	10207.31	348.714	0.42	-0.42	0.03	
18020.00	89.750	342.170	7094.18	10209.64	10099.44	-2026.35	1719313.78	14378909.40	39°35'44.0876"N	80°43'11.7430"W	10300.72	348.655	0.21	-0.14	-0.16	
18115.00	89.750	342.040	7094.60	10304.63	10189.84	-2055.55	1719284.61	14378999.76	39°35'44.9820"N	80°43'12.1123"W	10395.10	348.595	0.14	0.00	-0.14	
18209.00	89.820	341.950	7094.95	10398.61	10279.24	-2084.60	1719255.56	14379089.13	39°35'45.8664"N	80°43'12.4799"W	10488.49	348.536	0.12	0.07	-0.10	
18304.00	89.660	342.190	7095.38	10493.59	10369.63	-2113.85	1719226.33	14379179.48	39°35'46.7606"N	80°43'12.8499"W	10582.89	348.478	0.30	-0.17	0.25	
18398.00	89.820	342.060	7095.81	10587.58	10459.09	-2142.70	1719197.49	14379268.90	39°35'47.6457"N	80°43'13.2149"W	10676.31	348.422	0.22	0.17	-0.14	
18493.00	89.750	340.920	7096.17	10682.57	10549.17	-2172.86	1719167.34	14379358.95	39°35'48.5369"N	80°43'13.5966"W	10770.62	348.361	1.20	-0.07	-1.20	
18588.00	89.820	341.010	7096.52	10777.57	10638.98	-2203.84	1719136.37	14379448.72	39°35'49.4254"N	80°43'13.9888"W	10864.84	348.297	0.12	0.07	0.09	
18682.00	89.820	341.360	7096.82	10871.57	10727.95	-2234.16	1719106.06	14379537.66	39°35'50.3057"N	80°43'14.3726"W	10958.12	348.236	0.37	0.00	0.37	
18777.00	89.780	341.100	7097.15	10966.57	10817.90	-2264.73	1719075.51	14379627.57	39°35'51.1956"N	80°43'14.7595"W	11052.42	348.176	0.28	-0.04	-0.27	
18871.00	89.720	341.390	7097.56	11060.57	10906.91	-2294.95	1719045.30	14379716.54	39°35'52.0762"N	80°43'15.1421"W	11145.73	348.118	0.32	-0.06	0.31	
18966.00	89.850	341.180	7097.92	11155.57	10996.88	-2325.43	1719014.83	14379806.49	39°35'52.9664"N	80°43'15.5279"W	11240.07	348.060	0.26	0.14	-0.22	
19061.00	89.750	341.110	7098.25	11250.56	11086.79	-2356.13	1718984.14	14379896.35	39°35'53.8558"N	80°43'15.9165"W	11334.38	348.002	0.13	-0.11	-0.07	
19156.00	89.720	340.810	7098.69	11345.56	11176.59	-2387.12	1718953.16	14379986.12	39°35'54.7443"N	80°43'16.3089"W	11428.67	347.944	0.32	-0.03	-0.32	
19250.00	89.780	340.670	7099.10	11439.56	11265.32	-2418.13	1718922.17	14380074.82	39°35'55.6223"N	80°43'16.7014"W	11521.93	347.885	0.16	0.06	-0.15	
19345.00	89.750	340.820	7099.49	11534.56	11355.01	-2449.46	1718890.85	14380164.47	39°35'56.5096"N	80°43'17.0981"W	11616.20	347.827	0.16	-0.03	0.16	
19440.00	89.720	340.850	7099.93	11629.56	11444.74	-2480.64	1718859.68	14380254.17	39°35'57.3974"N	80°43'17.4930"W	11710.50	347.770	0.04	-0.03	0.03	

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# Actual Wellpath Report

Graden Unit 1H AWP Proj: 24432'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Graden Unit 1H
Field	Wetzel	API	47-103-03696-0000
Facility	Cedar Pad	Wellbore	Graden Unit 1H AWB
Slot	Slot K		

WELLPATH DATA (264 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
19534.00	89.380	340.990	7100.66	11723.55	11533.58	-2511.37	1718828.96	14380342.97	39°35'58.2763"N	80°43'17.8820"W	11803.83	347.716	0.39	-0.36	0.15	
19629.00	89.420	341.070	7101.66	11818.55	11623.41	-2542.25	1718798.09	14380432.77	39°35'59.1651"N	80°43'18.2729"W	11898.18	347.663	0.09	0.04	0.08	
19724.00	89.630	341.480	7102.45	11913.54	11713.38	-2572.75	1718767.61	14380522.70	39°36'0.0552"N	80°43'18.6590"W	11992.59	347.612	0.48	0.22	0.43	
19818.00	89.910	341.250	7102.82	12007.54	11802.45	-2602.78	1718737.58	14380611.74	39°36'0.9364"N	80°43'19.0391"W	12086.04	347.564	0.39	0.30	-0.24	
19913.00	89.820	341.210	7103.05	12102.54	11892.40	-2633.35	1718707.03	14380701.65	39°36'1.8263"N	80°43'19.4261"W	12180.46	347.514	0.10	-0.09	-0.04	
20008.00	89.910	341.530	7103.27	12197.54	11982.42	-2663.70	1718676.69	14380791.63	39°36'2.7170"N	80°43'19.8102"W	12274.92	347.467	0.35	0.09	0.34	
20102.00	89.820	341.490	7103.49	12291.54	12071.57	-2693.51	1718646.89	14380880.75	39°36'3.5989"N	80°43'20.1876"W	12368.42	347.422	0.10	-0.10	-0.04	
20197.00	89.780	340.950	7103.83	12386.53	12161.51	-2724.09	1718616.32	14380970.65	39°36'4.4888"N	80°43'20.5747"W	12462.86	347.375	0.57	-0.04	-0.57	
20291.00	89.780	341.260	7104.19	12480.53	12250.44	-2754.53	1718585.89	14381059.55	39°36'5.3686"N	80°43'20.9601"W	12556.31	347.328	0.33	0.00	0.33	
20386.00	89.820	341.180	7104.52	12575.53	12340.39	-2785.12	1718555.32	14381149.46	39°36'6.2585"N	80°43'21.3473"W	12650.77	347.282	0.09	0.04	-0.08	
20480.00	89.780	341.530	7104.85	12669.53	12429.45	-2815.17	1718525.28	14381238.49	39°36'7.1396"N	80°43'21.7277"W	12744.27	347.238	0.37	-0.04	0.37	
20575.00	89.850	341.280	7105.15	12764.53	12519.49	-2845.46	1718495.00	14381328.49	39°36'8.0304"N	80°43'22.1111"W	12838.78	347.195	0.27	0.07	-0.26	
20669.00	89.880	341.130	7105.37	12858.53	12608.48	-2875.75	1718464.73	14381417.44	39°36'8.9108"N	80°43'22.4945"W	12932.27	347.152	0.16	0.03	-0.16	
20764.00	89.820	341.190	7105.62	12953.53	12698.39	-2906.43	1718434.06	14381507.32	39°36'9.8004"N	80°43'22.8829"W	13026.76	347.108	0.09	-0.06	0.06	
20859.00	89.850	341.440	7105.90	13048.52	12788.38	-2936.86	1718403.64	14381597.28	39°36'10.6907"N	80°43'23.2682"W	13121.27	347.066	0.27	0.03	0.26	
20954.00	89.780	341.210	7106.20	13143.52	12878.38	-2967.28	1718373.23	14381687.24	39°36'11.5811"N	80°43'23.6533"W	13215.80	347.025	0.25	-0.07	-0.24	
21049.00	89.780	341.350	7106.57	13238.52	12968.35	-2997.77	1718342.75	14381777.18	39°36'12.4712"N	80°43'24.0393"W	13310.33	346.984	0.15	0.00	0.15	
21144.00	89.970	341.550	7106.77	13333.52	13058.42	-3027.99	1718312.54	14381867.21	39°36'13.3623"N	80°43'24.4218"W	13404.89	346.945	0.29	0.20	0.21	
21239.00	89.820	341.200	7106.95	13428.52	13148.44	-3058.33	1718282.22	14381957.19	39°36'14.2529"N	80°43'24.8059"W	13499.44	346.906	0.40	-0.16	-0.37	
21334.00	90.120	341.650	7107.00	13523.51	13238.49	-3088.59	1718251.97	14382047.21	39°36'15.1438"N	80°43'25.1890"W	13594.01	346.868	0.57	0.32	0.47	
21428.00	90.060	340.910	7106.85	13617.51	13327.52	-3118.76	1718221.81	14382136.20	39°36'16.0246"N	80°43'25.5709"W	13687.56	346.829	0.79	-0.06	-0.79	
21523.00	90.400	341.060	7106.47	13712.51	13417.33	-3149.71	1718190.87	14382225.98	39°36'16.9132"N	80°43'25.9628"W	13782.07	346.789	0.39	0.36	0.16	
21618.00	90.400	341.190	7105.81	13807.51	13507.22	-3180.45	1718160.15	14382315.83	39°36'17.8025"N	80°43'26.3519"W	13876.61	346.750	0.14	0.00	0.14	
21712.00	90.890	341.480	7104.75	13901.50	13596.27	-3210.53	1718130.08	14382404.85	39°36'18.6835"N	80°43'26.7328"W	13970.19	346.714	0.61	0.52	0.31	
21807.00	90.920	340.500	7103.25	13996.49	13686.08	-3241.47	1718099.15	14382494.62	39°36'19.5720"N	80°43'27.1245"W	14064.70	346.675	1.03	0.03	-1.03	
21902.00	90.920	340.400	7101.72	14091.47	13775.59	-3273.25	1718067.38	14382584.10	39°36'20.4577"N	80°43'27.5271"W	14159.14	346.634	0.11	0.00	-0.11	
21996.00	90.860	340.260	7100.26	14185.45	13864.10	-3304.89	1718035.75	14382672.57	39°36'21.3333"N	80°43'27.9279"W	14252.56	346.592	0.16	-0.06	-0.15	
22092.00	90.920	340.260	7098.77	14281.43	13954.44	-3337.31	1718003.35	14382762.88	39°36'22.2272"N	80°43'28.3385"W	14347.97	346.550	0.06	0.06	0.00	
22186.00	90.860	340.170	7097.31	14375.41	14042.88	-3369.12	1717971.54	14382851.28	39°36'23.1023"N	80°43'28.7415"W	14441.38	346.509	0.12	-0.06	-0.10	
22281.00	89.880	340.140	7096.70	14470.40	14132.24	-3401.37	1717939.31	14382940.60	39°36'23.9863"N	80°43'29.1501"W	14535.80	346.467	1.03	-1.03	-0.03	

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# Actual Wellpath Report

Graden Unit 1H AWP Proj: 24432'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Graden Unit 1H
Field	Wetzel	API	47-103-03696-0000
Facility	Cedar Pad	Wellbore	Graden Unit 1H AWB
Slot	Slot K		

WELLPATH DATA (264 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
22376.00	89.260	340.120	7097.41	14565.38	14221.58	-3433.66	1717907.03	14383029.91	39°36'24.8703"N	80°43'29.5591"W	14630.22	346.426	0.65	-0.65	-0.02	
22471.00	89.260	340.310	7098.64	14660.36	14310.97	-3465.82	1717874.89	14383119.26	39°36'25.7547"N	80°43'29.9664"W	14724.66	346.386	0.20	0.00	0.20	
22566.00	88.830	340.220	7100.22	14755.34	14400.37	-3497.89	1717842.83	14383208.63	39°36'26.6393"N	80°43'30.3727"W	14819.11	346.347	0.46	-0.45	-0.09	
22660.00	88.920	340.120	7102.07	14849.31	14488.78	-3529.77	1717810.96	14383297.01	39°36'27.5140"N	80°43'30.7766"W	14912.55	346.308	0.14	0.10	-0.11	
22755.00	88.980	340.490	7103.81	14944.29	14578.21	-3561.78	1717778.96	14383386.40	39°36'28.3988"N	80°43'31.1821"W	15007.01	346.270	0.39	0.06	0.39	
22850.00	88.920	340.460	7105.55	15039.27	14667.73	-3593.53	1717747.23	14383475.88	39°36'29.2845"N	80°43'31.5842"W	15101.52	346.234	0.07	-0.06	-0.03	
22944.00	88.890	340.480	7107.34	15133.25	14756.31	-3624.95	1717715.82	14383564.43	39°36'30.1608"N	80°43'31.9821"W	15195.03	346.198	0.04	-0.03	0.02	
23039.00	88.860	340.320	7109.21	15228.22	14845.78	-3656.81	1717683.97	14383653.87	39°36'31.0461"N	80°43'32.3857"W	15289.52	346.162	0.17	-0.03	-0.17	
23133.00	88.860	340.100	7111.08	15322.20	14934.22	-3688.63	1717652.17	14383742.26	39°36'31.9211"N	80°43'32.7888"W	15383.00	346.126	0.23	0.00	-0.23	
23228.00	89.380	340.210	7112.54	15417.17	15023.56	-3720.87	1717619.93	14383831.58	39°36'32.8051"N	80°43'33.1973"W	15477.48	346.090	0.56	0.55	0.12	
23323.00	89.480	340.040	7113.48	15512.16	15112.90	-3753.17	1717587.65	14383920.88	39°36'33.6890"N	80°43'33.6065"W	15571.96	346.053	0.21	0.11	-0.18	
23418.00	90.250	340.750	7113.71	15607.15	15202.39	-3785.04	1717555.79	14384010.33	39°36'34.5744"N	80°43'34.0103"W	15666.50	346.019	1.10	0.81	0.75	
23512.00	90.310	340.430	7113.25	15701.14	15291.05	-3816.28	1717524.56	14384098.96	39°36'35.4515"N	80°43'34.4059"W	15760.08	345.987	0.35	0.06	-0.34	
23607.00	90.310	340.080	7112.73	15796.13	15380.46	-3848.38	1717492.48	14384188.33	39°36'36.3362"N	80°43'34.8125"W	15854.61	345.952	0.37	0.00	-0.37	
23701.00	90.340	340.030	7112.20	15890.12	15468.82	-3880.44	1717460.43	14384276.66	39°36'37.2104"N	80°43'35.2188"W	15948.11	345.918	0.06	0.03	-0.05	
23796.00	90.340	340.370	7111.64	15985.11	15558.20	-3912.62	1717428.26	14384366.01	39°36'38.0948"N	80°43'35.6264"W	16042.64	345.884	0.36	0.00	0.36	
23890.00	90.340	339.990	7111.08	16079.10	15646.63	-3944.49	1717396.40	14384454.40	39°36'38.9697"N	80°43'36.0302"W	16136.18	345.851	0.40	0.00	-0.40	
23985.00	90.310	340.260	7110.54	16174.08	15735.97	-3976.79	1717364.12	14384543.71	39°36'39.8536"N	80°43'36.4394"W	16230.70	345.817	0.29	-0.03	0.28	
24080.00	90.430	340.280	7109.93	16269.07	15825.39	-4008.86	1717332.06	14384633.09	39°36'40.7383"N	80°43'36.8457"W	16325.26	345.785	0.13	0.13	0.02	
24174.00	90.620	340.380	7109.07	16363.06	15913.91	-4040.50	1717300.44	14384721.57	39°36'41.6141"N	80°43'37.2465"W	16418.83	345.754	0.23	0.20	0.11	
24269.00	90.580	340.460	7108.07	16458.05	16003.41	-4072.33	1717268.61	14384811.03	39°36'42.4996"N	80°43'37.6498"W	16513.42	345.723	0.09	-0.04	0.08	
24364.00	90.460	340.240	7107.21	16553.04	16092.87	-4104.28	1717236.68	14384900.46	39°36'43.3847"N	80°43'38.0545"W	16608.00	345.692	0.26	-0.13	-0.23	
24407.00	90.550	340.480	7106.83	16596.03	16133.37	-4118.73	1717222.24	14384940.94	39°36'43.7854"N	80°43'38.2376"W	16650.81	345.679	0.60	0.21	0.56	
24432.00‡	90.550	340.480	7106.59	16621.03	16156.93	-4127.08	1717213.89	14384964.50	39°36'44.0185"N	80°43'38.3434"W	16675.71	345.671	0.00	0.00	0.00	Projected MD at TD: 24432'

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# Actual Wellpath Report

Graden Unit 1H AWP Proj: 24432'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Graden Unit 1H
Field	Wetzel	API	47-103-03696-0000
Facility	Cedar Pad	Wellbore	Graden Unit 1H AWB
Slot	Slot K		

HOLE & CASING SECTIONS - Ref Wellbore: Graden Unit 1H AWB    Ref Wellpath: Graden Unit 1H AWP Proj: 24432'									
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	0.23	-0.15
17.5in Open Hole	125.50	739.00	613.50	125.50	739.00	0.23	-0.15	-0.43	0.10
13.375in Casing Surface	25.50	719.00	693.50	25.50	719.00	0.00	0.00	-0.37	0.15
12.25in Open Hole	739.00	3467.00	2728.00	739.00	3375.74	-0.43	0.10	-93.30	651.28
9.625in Casing Intermediate	25.50	3437.00	3411.50	25.50	3346.91	0.00	0.00	-92.96	642.99
8.75in Open Hole	3467.00	6427.00	2960.00	3375.74	6198.42	-93.30	651.28	-254.93	1524.42
8.5in Open Hole	6427.00	24432.00	18005.00	6198.42	7106.59	-254.93	1524.42	16156.93	-4127.08
5.5in Casing Production	25.50	24412.00	24386.50	25.50	7106.78	0.00	0.00	16138.08	-4120.40

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# Actual Wellpath Report

Graden Unit 1H AWP Proj: 24432'  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Graden Unit 1H
Field	Wetzel	API	47-103-03696-0000
Facility	Cedar Pad	Wellbore	Graden Unit 1H AWB
Slot	Slot K		

## TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Graden Unit 1H POE Rev-2	7104.00	266.57	1427.51	1722766.29	14369080.40	39°34'6.7990"N	80°42'28.0308"W	point
Graden Unit 1H AZI Rev-2	7129.00	834.13	1148.24	1722487.13	14369647.74	39°34'12.4173"N	80°42'31.5735"W	point
Graden Unit 1H BHL Rev-2	7129.00	16156.45	-4118.39	1717222.57	14384964.02	39°36'44.0135"N	80°43'38.2324"W	point
Graden Unit 1H LP Rev-2	7129.00	428.80	1333.37	1722672.18	14369242.57	39°34'8.4055"N	80°42'29.2263"W	point
Graden Unit 1H 50' L/R Hard Line	7500.00	8495.29	-1485.08	1719854.85	14377305.88	39°35'28.2168"N	80°43'4.8929"W	rectangle
2D Rectangle 16202.2 x 100.								

## WELLPATH COMPOSITION - Ref Wellbore: Graden Unit 1H AWB Ref Wellpath: Graden Unit 1H AWP Proj: 24432'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
25.50	742.00	Gyrodata 2015 - GC+WVR+DPIPE	01_Gyrodata MS Gyro <17-1/2"> (100'-742')	Graden Unit 1H AWB	3/6/2025
742.00	3390.00	BH NaviTrak (2019) (Axial Corr+HRGM)	02_APS EM <12-1/4"> (742')(864'-3390')	Graden Unit 1H AWB	3/6/2025
3390.00	6351.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03_APS EM <8-3/4"> (3390')(3509'-6351')	Graden Unit 1H AWB	3/17/2025
6351.00	24432.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	04_BH Lucida <8-1/2"> (6351')(6472'-24407')	Graden Unit 1H AWB	3/17/2025

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Graden Unit 1H AWP Proj: 24432'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Graden Unit 1H
Field	Wetzel	API	47-103-03696-0000
Facility	Cedar Pad	Wellbore	Graden Unit 1H AWB
Slot	Slot K		

## COMMENTS

### Wellpath general comments

API: 47-103-03696-0000  
BH Job #: 112590384  
Rig: H&P 317  
Duration: 3/20/2025-3/25/2025  
Gyrodata MS Gyro <17-1/2"> (100'-742')  
APS EM <12-1/4"> (742')(864'-3390')  
APS EM <8-3/4"> (3390')(3509'-6351')  
BH Lucida <8-1/2"> (6351')(6472'-24407')  
Sycamore: 7013' MD  
Middlesex: 7178' MD  
Burkett: 7324' MD  
Tully: 7378' MD  
Marcellus POE: 7604' MD  
Projected MD at TD: 24432'

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