



ANTERO RESOURCES CORPORATION

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

Slot: Slot L
 Well: Graden Unit 2H
 Wellbore: Graden Unit 2H PWB

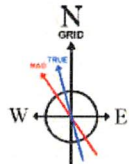
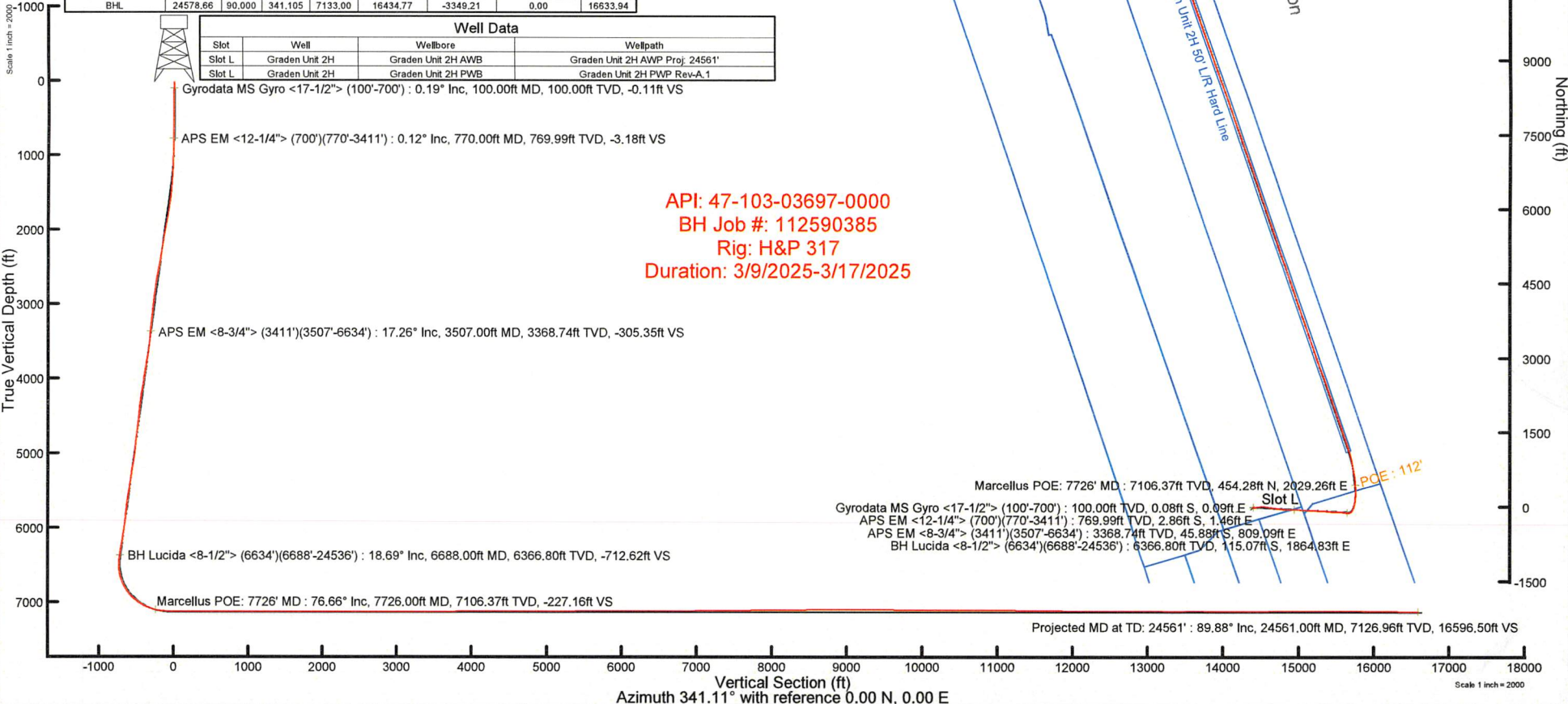


Plot reference wellpath is Graden Unit 2H PWB Rev-A.1	Grid System: NAD27 / UTM Zone 17 North, US feet
True vertical depths are referenced to H&P 317 (RKB)	North Reference: Grid north
Reference wellpath measured depths are referenced to H&P 317 (RKB)	Scale: True distance
H&P 317 (RKB) to Mean Sea Level: 1275.5 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (At Slot L): -1250 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's default MD datum	Created by: rdsarjar on 2025-04-09 Database: WA_MPL_EASTERNUS_Deit

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 L	98.32	347.90	1721350.260	14368824.090
			Latitude	Longitude
			39°34'4.3100"N	80°42'46.1300"W
Comment	Graden Unit 2H			
H&P 317 (RKB) to Ground level (At Slot: Slot L)	25.5ft			
Mean Sea Level to Ground level (At Slot: Slot L)	-1250ft			
H&P 317 (RKB) to Mean Sea Level	1275.5ft			

Well Profile Data							
Design Comment	MD (ft)	Inc. (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	VS (ft)
Tie On	25.50	0.000	93.147	25.50	0.00	0.00	0.00
KOP 1	780.00	0.000	93.147	780.00	0.00	0.00	0.00
End of Build	1435.36	19.661	93.147	1422.58	-8.11	111.18	3.00
Curve KOP	6719.86	19.661	93.147	6398.99	-103.73	1886.48	0.00
POE	7705.79	74.817	353.631	7108.00	450.39	2021.31	8.00
Landing Pt.	7895.58	90.000	353.631	7133.00	636.81	2000.50	8.00
On AZI	8396.63	90.000	341.105	7133.00	1124.75	1891.14	2.50
BHL	24578.66	90.000	341.105	7133.00	16434.77	-3349.21	0.00

Well Data			
Slot	Well	Wellbore	Wellpath
Slot L	Graden Unit 2H	Graden Unit 2H AWB	Graden Unit 2H AWB Proj: 24561'
Slot L	Graden Unit 2H	Graden Unit 2H PWB	Graden Unit 2H PWB Rev-A.1



User specified (HDGM) Dip: 68.24° 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



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Graden Unit 2H AWP Proj: 24561'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Graden Unit 2H
Field	Wetzel	API	47-103-03697-0000
Facility	Cedar Pad	Wellbore	Graden Unit 2H AWB
Slot	Slot L		

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 5:00:39 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	98.32	347.90	1721350.26	14368824.09	39°34'4.3100"N	80°42'46.1300"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 L)	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	341.11°

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Field	Wetzel	API	47-103-03697-0000
Facility	Cedar Pad	Wellbore	Graden Unit 2H AWB
Slot	Slot L		

WELLPATH DATA (263 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	129.850	0.00	0.00	0.00	0.00	1721350.26	14368824.09	39°34'4.3100"N	80°42'46.1300"W	0.00	0.000	0.00	0.00	0.00	
25.50	0.000	129.850	25.50	0.00	0.00	0.00	1721350.26	14368824.09	39°34'4.3100"N	80°42'46.1300"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.190	129.850	100.00	-0.11	-0.08	0.09	1721350.35	14368824.01	39°34'4.3092"N	80°42'46.1288"W	0.12	129.850	0.26	0.26	0.00	Gyrodata MS Gyro <17-1/2"> (100'-700')
200.00	0.260	149.010	200.00	-0.47	-0.38	0.34	1721350.60	14368823.71	39°34'4.3062"N	80°42'46.1257"W	0.51	138.260	0.10	0.07	19.16	
300.00	0.260	139.210	300.00	-0.90	-0.75	0.60	1721350.86	14368823.34	39°34'4.3026"N	80°42'46.1224"W	0.96	141.012	0.04	0.00	-9.80	
400.00	0.390	140.420	400.00	-1.43	-1.18	0.97	1721351.23	14368822.91	39°34'4.2983"N	80°42'46.1177"W	1.53	140.612	0.13	0.13	1.21	
500.00	0.320	153.220	499.99	-2.03	-1.69	1.31	1721351.57	14368822.40	39°34'4.2932"N	80°42'46.1134"W	2.14	142.213	0.11	-0.07	12.80	
600.00	0.330	175.700	599.99	-2.58	-2.23	1.46	1721351.72	14368821.86	39°34'4.2879"N	80°42'46.1115"W	2.66	146.783	0.13	0.01	22.48	
700.00	0.190	175.900	699.99	-3.02	-2.68	1.49	1721351.75	14368821.41	39°34'4.2834"N	80°42'46.1111"W	3.07	150.893	0.14	-0.14	0.20	
770.00	0.120	213.680	769.99	-3.18	-2.86	1.46	1721351.72	14368821.23	39°34'4.2817"N	80°42'46.1115"W	3.21	152.933	0.17	-0.10	53.97	APS EM <12-1/4"> (700')(770'-3411')
863.00	1.890	94.330	862.98	-3.84	-3.05	2.94	1721353.19	14368821.04	39°34'4.2797"N	80°42'46.0927"W	4.24	136.137	2.10	1.90	-128.33	
953.00	3.760	88.650	952.86	-5.32	-3.10	7.37	1721357.62	14368820.99	39°34'4.2791"N	80°42'46.0361"W	7.99	112.804	2.10	2.08	-6.31	
1044.00	4.990	91.880	1043.60	-7.62	-3.16	14.30	1721364.56	14368820.93	39°34'4.2783"N	80°42'45.9475"W	14.65	102.444	1.38	1.35	3.55	
1139.00	9.270	87.330	1137.84	-11.22	-2.94	26.08	1721376.33	14368821.16	39°34'4.2801"N	80°42'45.7971"W	26.25	96.421	4.54	4.51	-4.79	
1234.00	12.660	85.920	1231.09	-16.02	-1.84	44.12	1721394.36	14368822.25	39°34'4.2904"N	80°42'45.5668"W	44.15	92.386	3.58	3.57	-1.48	
1328.00	15.970	83.190	1322.16	-21.36	0.43	67.24	1721417.47	14368824.52	39°34'4.3121"N	80°42'45.2715"W	67.24	89.635	3.59	3.52	-2.90	
1423.00	19.210	81.870	1412.71	-27.02	4.19	95.69	1721445.92	14368828.28	39°34'4.3484"N	80°42'44.9080"W	95.79	87.493	3.44	3.41	-1.39	
1518.00	20.930	83.590	1501.94	-33.60	8.29	128.03	1721478.24	14368832.38	39°34'4.3879"N	80°42'44.4949"W	128.30	86.293	1.91	1.81	1.81	
1612.00	21.770	87.470	1589.49	-42.14	10.94	162.13	1721512.33	14368835.02	39°34'4.4130"N	80°42'44.0593"W	162.50	86.140	1.75	0.89	4.13	
1707.00	22.360	92.580	1677.54	-53.72	10.90	197.79	1721547.97	14368834.99	39°34'4.4115"N	80°42'43.6040"W	198.09	86.845	2.11	0.62	5.38	
1801.00	21.560	96.440	1764.72	-67.65	8.16	232.81	1721582.98	14368832.25	39°34'4.3833"N	80°42'43.1569"W	232.96	87.992	1.76	-0.85	4.11	
1896.00	20.710	99.780	1853.33	-83.18	3.35	266.71	1721616.87	14368827.44	39°34'4.3346"N	80°42'42.7242"W	266.74	89.281	1.55	-0.89	3.52	
1991.00	20.670	99.180	1942.21	-99.13	-2.18	299.82	1721649.96	14368821.91	39°34'4.2790"N	80°42'42.3017"W	299.83	90.416	0.23	-0.04	-0.63	
2086.00	20.410	98.420	2031.17	-114.62	-7.28	332.76	1721682.89	14368816.81	39°34'4.2275"N	80°42'41.8813"W	332.84	91.253	0.39	-0.27	-0.80	
2180.00	20.100	97.680	2119.36	-129.36	-11.84	364.98	1721715.10	14368812.26	39°34'4.1814"N	80°42'41.4701"W	365.17	91.858	0.43	-0.33	-0.79	
2275.00	20.360	96.950	2208.50	-143.87	-16.02	397.56	1721747.66	14368808.08	39°34'4.1391"N	80°42'41.0542"W	397.88	92.307	0.38	0.27	-0.77	
2370.00	21.040	96.600	2297.36	-158.41	-19.98	430.91	1721781.00	14368804.12	39°34'4.0989"N	80°42'40.6286"W	431.37	92.655	0.73	0.72	-0.37	
2464.00	21.490	97.140	2384.96	-173.23	-24.06	464.75	1721814.83	14368800.04	39°34'4.0575"N	80°42'40.1965"W	465.38	92.963	0.52	0.48	0.57	
2559.00	22.020	97.110	2473.20	-188.67	-28.43	499.69	1721849.76	14368795.68	39°34'4.0132"N	80°42'39.7506"W	500.50	93.256	0.56	0.56	-0.03	
2653.00	20.920	98.370	2560.67	-204.08	-33.05	533.78	1721883.83	14368791.05	39°34'3.9664"N	80°42'39.3155"W	534.81	93.543	1.27	-1.17	1.34	

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Graden Unit 2H
Field	Wetzel	API	47-103-03697-0000
Facility	Cedar Pad	Wellbore	Graden Unit 2H AWP
Slot	Slot L		

WELLPATH DATA (263 stations)																
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS ["/100ft]	Build Rate ["/100ft]	Turn Rate ["/100ft]	Comments
2748.00	19.800	98.880	2649.74	-219.35	-38.00	566.46	1721916.50	14368786.10	39°34'3.9164"N	80°42'38.8984"W	567.73	93.838	1.19	-1.18	0.54	
2843.00	19.270	95.360	2739.27	-233.29	-41.95	597.97	1721947.99	14368782.16	39°34'3.8764"N	80°42'38.4963"W	599.44	94.013	1.36	-0.56	-3.71	
2937.00	18.400	93.720	2828.24	-245.36	-44.36	628.22	1721978.23	14368779.74	39°34'3.8516"N	80°42'38.1101"W	629.78	94.039	1.08	-0.93	-1.74	
3032.00	18.990	92.140	2918.22	-256.67	-45.91	658.62	1722008.62	14368778.20	39°34'3.8353"N	80°42'37.7219"W	660.22	93.988	0.82	0.62	-1.66	
3127.00	18.620	90.920	3008.15	-267.36	-46.73	689.23	1722039.22	14368777.38	39°34'3.8263"N	80°42'37.3311"W	690.82	93.879	0.57	-0.39	-1.28	
3221.00	18.260	89.960	3097.33	-277.20	-46.96	718.97	1722068.94	14368777.14	39°34'3.8230"N	80°42'36.9514"W	720.50	93.737	0.50	-0.38	-1.02	
3316.00	18.900	90.340	3187.37	-287.08	-47.04	749.23	1722099.20	14368777.06	39°34'3.8213"N	80°42'36.5649"W	750.71	93.593	0.69	0.67	0.40	
3411.00	18.470	89.290	3277.37	-296.84	-46.95	779.67	1722129.62	14368777.16	39°34'3.8212"N	80°42'36.1763"W	781.08	93.446	0.57	-0.45	-1.11	
3507.00	17.260	86.440	3368.74	-305.35	-45.88	809.09	1722159.03	14368778.23	39°34'3.8309"N	80°42'35.8006"W	810.39	93.245	1.55	-1.26	-2.97	APS EM <8-3/4"> (3411')(3507'-6634')
3601.00	17.240	91.220	3458.52	-313.83	-45.31	836.94	1722186.87	14368778.80	39°34'3.8356"N	80°42'35.4450"W	838.16	93.099	1.51	-0.02	5.09	
3695.00	18.380	94.470	3548.01	-324.49	-46.76	865.64	1722215.56	14368777.35	39°34'3.8204"N	80°42'35.0785"W	866.90	93.092	1.61	1.21	3.46	
3789.00	20.510	93.850	3636.64	-336.74	-49.02	896.85	1722246.75	14368775.09	39°34'3.7970"N	80°42'34.6801"W	898.19	93.129	2.28	2.27	-0.66	
3884.00	22.530	94.660	3725.02	-350.44	-51.62	931.60	1722281.49	14368772.49	39°34'3.7703"N	80°42'34.2365"W	933.03	93.171	2.15	2.13	0.85	
3979.00	22.970	93.820	3812.63	-364.87	-54.33	968.23	1722318.11	14368769.78	39°34'3.7423"N	80°42'33.7688"W	969.76	93.212	0.58	0.46	-0.88	
4074.00	22.790	91.480	3900.15	-378.43	-56.04	1005.12	1722354.99	14368768.07	39°34'3.7242"N	80°42'33.2978"W	1006.68	93.191	0.98	-0.19	-2.46	
4169.00	20.920	92.860	3988.32	-391.12	-57.36	1040.46	1722390.31	14368766.75	39°34'3.7100"N	80°42'32.8467"W	1042.04	93.156	2.04	-1.97	1.45	
4263.00	20.280	98.450	4076.32	-404.83	-60.59	1073.34	1722423.17	14368763.52	39°34'3.6770"N	80°42'32.4270"W	1075.05	93.231	2.20	-0.68	5.95	
4358.00	19.870	97.570	4165.55	-419.58	-65.14	1105.63	1722455.45	14368758.98	39°34'3.6311"N	80°42'32.0149"W	1107.54	93.372	0.54	-0.43	-0.93	
4453.00	19.090	94.670	4255.11	-432.98	-68.53	1137.11	1722486.93	14368755.59	39°34'3.5965"N	80°42'31.6129"W	1139.18	93.449	1.31	-0.82	-3.05	
4547.00	18.150	91.960	4344.19	-444.34	-70.28	1167.07	1722516.87	14368753.83	39°34'3.5782"N	80°42'31.2305"W	1169.18	93.446	1.36	-1.00	-2.88	
4642.00	16.160	88.860	4434.96	-453.64	-70.53	1195.08	1722544.87	14368753.59	39°34'3.5749"N	80°42'30.8729"W	1197.16	93.377	2.30	-2.09	-3.26	
4737.00	16.690	88.670	4526.09	-461.78	-69.95	1221.93	1722571.71	14368754.17	39°34'3.5798"N	80°42'30.5299"W	1223.93	93.276	0.56	0.56	-0.20	
4831.00	18.440	92.760	4615.70	-471.34	-70.35	1250.28	1722600.05	14368753.77	39°34'3.5749"N	80°42'30.1680"W	1252.26	93.220	2.28	1.86	4.35	
4926.00	20.170	95.190	4705.36	-483.57	-72.56	1281.60	1722631.36	14368751.56	39°34'3.5521"N	80°42'29.7681"W	1283.65	93.240	2.01	1.82	2.56	
5021.00	19.360	92.130	4794.77	-495.90	-74.62	1313.65	1722663.39	14368749.50	39°34'3.5307"N	80°42'29.3590"W	1315.77	93.251	1.38	-0.85	-3.22	
5116.00	17.620	87.690	4884.86	-505.65	-74.63	1343.76	1722693.49	14368749.49	39°34'3.5297"N	80°42'28.9746"W	1345.83	93.179	2.35	-1.83	-4.67	
5210.00	17.860	91.930	4974.40	-514.84	-74.54	1372.38	1722722.10	14368749.58	39°34'3.5296"N	80°42'28.6091"W	1374.40	93.109	1.40	0.26	4.51	
5308.00	19.360	96.400	5067.27	-527.12	-76.86	1403.54	1722753.25	14368747.26	39°34'3.5057"N	80°42'28.2112"W	1405.65	93.134	2.11	1.53	4.56	
5403.00	20.050	98.020	5156.71	-541.22	-80.88	1435.32	1722785.01	14368743.24	39°34'3.4649"N	80°42'27.8057"W	1437.60	93.225	0.93	0.73	1.71	
5497.00	18.960	93.400	5245.32	-554.30	-84.04	1466.52	1722816.20	14368740.08	39°34'3.4327"N	80°42'27.4074"W	1468.93	93.280	2.01	-1.16	-4.91	

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Facility	Cedar Pad		Wellbore	Graden Unit 2H AWB
Slot	Slot L			

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5592.00	18.720	95.880	5335.23	-566.54	-86.52	1497.09	1722846.76	14368737.61	39°34'3.4072"N	80°42'27.0171"W	1499.59	93.307	0.88	-0.25	2.61	
5687.00	20.380	96.330	5424.75	-579.98	-89.90	1528.70	1722878.36	14368734.22	39°34'3.3728"N	80°42'26.6136"W	1531.34	93.366	1.75	1.75	0.47	
5781.00	21.700	96.080	5512.48	-594.29	-93.55	1562.25	1722911.89	14368730.58	39°34'3.3357"N	80°42'26.1854"W	1565.05	93.427	1.41	1.40	-0.27	
5876.00	20.820	92.250	5601.02	-607.79	-96.07	1596.59	1722946.22	14368728.06	39°34'3.3096"N	80°42'25.7471"W	1599.47	93.443	1.73	-0.93	-4.03	
5971.00	21.100	90.200	5689.74	-619.48	-96.79	1630.56	1722980.17	14368727.34	39°34'3.3014"N	80°42'25.3133"W	1633.43	93.397	0.83	0.29	-2.16	
6066.00	20.010	87.360	5778.69	-629.62	-96.10	1663.89	1723013.50	14368728.02	39°34'3.3071"N	80°42'24.8876"W	1666.67	93.306	1.55	-1.15	-2.99	
6160.00	19.490	87.990	5867.16	-638.67	-94.81	1695.63	1723045.22	14368729.31	39°34'3.3189"N	80°42'24.4823"W	1698.28	93.200	0.60	-0.55	0.67	
6255.00	18.590	93.190	5956.97	-648.97	-95.10	1726.59	1723076.17	14368729.03	39°34'3.3150"N	80°42'24.0870"W	1729.21	93.153	2.02	-0.95	5.47	
6350.00	18.290	99.120	6047.10	-661.66	-98.31	1756.43	1723106.00	14368725.82	39°34'3.2824"N	80°42'23.7061"W	1759.18	93.203	2.00	-0.32	6.24	
6444.00	18.800	99.490	6136.22	-675.79	-103.14	1785.94	1723135.49	14368720.99	39°34'3.2336"N	80°42'23.3295"W	1788.91	93.305	0.56	0.54	0.39	
6539.00	19.220	97.900	6226.04	-690.11	-107.81	1816.52	1723166.07	14368716.32	39°34'3.1865"N	80°42'22.9392"W	1819.72	93.397	0.70	0.44	-1.67	
6634.00	19.250	98.880	6315.73	-704.45	-112.38	1847.48	1723197.01	14368711.75	39°34'3.1403"N	80°42'22.5440"W	1850.90	93.481	0.34	0.03	1.03	
6688.00	18.690	98.760	6366.80	-712.62	-115.07	1864.83	1723214.35	14368709.06	39°34'3.1132"N	80°42'22.3226"W	1868.38	93.531	1.04	-1.04	-0.22	BH Lucida <8-1/2"> (6634')(6688'-24536')
6752.00	20.090	91.460	6427.18	-721.20	-116.91	1885.96	1723235.47	14368707.22	39°34'3.0943"N	80°42'22.0529"W	1889.58	93.547	4.37	2.19	-11.41	
6847.00	21.000	66.960	6516.30	-725.65	-110.66	1917.99	1723267.50	14368713.48	39°34'3.1551"N	80°42'21.6436"W	1921.18	93.302	9.04	0.96	-25.79	
6941.00	23.800	47.610	6603.32	-716.85	-91.25	1947.55	1723297.04	14368732.88	39°34'3.3460"N	80°42'21.2654"W	1949.68	92.682	8.35	2.98	-20.59	
7036.00	28.540	29.870	6688.69	-694.20	-58.58	1973.06	1723322.54	14368765.54	39°34'3.6680"N	80°42'20.9383"W	1973.93	91.700	9.58	4.99	-18.67	
7114.00†	32.579	22.457	6755.86	-666.13	-22.98	1990.37	1723339.85	14368801.12	39°34'4.0192"N	80°42'20.7157"W	1990.51	90.662	7.07	5.18	-9.50	Sycamore: 7114' MD
7131.00	33.510	21.060	6770.11	-659.10	-14.37	1993.81	1723343.28	14368809.72	39°34'4.1042"N	80°42'20.6715"W	1993.86	90.413	7.07	5.48	-8.22	
7226.00	39.030	12.880	6846.72	-613.50	39.33	2009.92	1723359.39	14368863.41	39°34'4.6345"N	80°42'20.4635"W	2010.31	88.879	7.72	5.81	-8.61	
7282.00†	43.127	9.738	6888.93	-581.70	75.41	2017.09	1723366.56	14368899.47	39°34'4.9908"N	80°42'20.3704"W	2018.50	87.859	8.19	7.32	-5.61	Middlesex: 7282' MD
7320.00	45.950	7.870	6916.01	-558.10	101.74	2021.16	1723370.63	14368925.79	39°34'5.2509"N	80°42'20.3174"W	2023.72	87.118	8.19	7.43	-4.92	
7415.00	53.620	4.380	6977.32	-492.37	173.81	2028.77	1723378.23	14368997.83	39°34'5.9629"N	80°42'20.2172"W	2036.20	85.103	8.54	8.07	-3.67	
7431.00†	54.837	3.824	6986.67	-480.42	186.76	2029.70	1723379.16	14369010.77	39°34'6.0909"N	80°42'20.2048"W	2038.27	84.743	8.11	7.60	-3.47	Burkett: 7431' MD
7487.00†	59.113	2.001	7017.18	-436.83	233.64	2032.07	1723381.52	14369057.63	39°34'6.5541"N	80°42'20.1726"W	2045.45	83.441	8.11	7.64	-3.26	Tully: 7487' MD
7509.00	60.800	1.330	7028.20	-419.00	252.67	2032.62	1723382.08	14369076.66	39°34'6.7422"N	80°42'20.1648"W	2048.26	82.914	8.11	7.67	-3.05	
7604.00	67.950	359.490	7069.26	-338.20	338.27	2033.19	1723382.65	14369162.22	39°34'7.5881"N	80°42'20.1539"W	2061.14	80.554	7.73	7.53	-1.94	
7699.00	74.670	357.370	7099.69	-252.34	428.16	2030.69	1723380.15	14369252.08	39°34'8.4767"N	80°42'20.1820"W	2075.34	78.094	7.38	7.07	-2.23	
7726.00†	76.665	356.354	7106.37	-227.16	454.28	2029.26	1723378.72	14369278.19	39°34'8.7349"N	80°42'20.1992"W	2079.49	77.381	8.24	7.39	-3.76	Marcellus POE: 7726' MD
7793.00	81.630	353.900	7118.98	-163.34	519.82	2023.66	1723373.12	14369343.70	39°34'9.3828"N	80°42'20.2680"W	2089.36	75.594	8.24	7.41	-3.66	

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Graden Unit 2H AWP Proj: 24561'

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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Graden Unit 2H
Field	Wetzel		API	47-103-03697-0000
Facility	Cedar Pad		Wellbore	Graden Unit 2H AWB
Slot	Slot L			

WELLPATH DATA (263 stations)																
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
7888.00	87.840	351.010	7127.70	-70.64	613.54	2011.24	1723360.70	14369437.39	39°34'10.3095"N	80°42'20.4227"W	2102.74	73.035	7.20	6.54	-3.04	
7983.00	89.940	350.620	7129.54	22.97	707.30	1996.07	1723345.55	14369531.11	39°34'11.2366"N	80°42'20.6124"W	2117.68	70.488	2.25	2.21	-0.41	
8077.00	89.880	349.760	7129.69	115.79	799.93	1980.06	1723329.54	14369623.70	39°34'12.1525"N	80°42'20.8131"W	2135.54	68.002	0.92	-0.06	-0.91	
8172.00	89.880	348.900	7129.89	209.82	893.28	1962.47	1723311.96	14369717.02	39°34'13.0758"N	80°42'21.0338"W	2156.21	65.526	0.91	0.00	-0.91	
8267.00	89.940	346.560	7130.04	304.18	986.10	1942.28	1723291.78	14369809.81	39°34'13.9938"N	80°42'21.2877"W	2178.27	63.083	2.46	0.06	-2.46	
8361.00	89.910	344.330	7130.16	397.90	1077.08	1918.66	1723268.16	14369900.75	39°34'14.8937"N	80°42'21.5855"W	2200.31	60.691	2.37	-0.03	-2.37	
8456.00	90.000	341.680	7130.23	492.84	1167.93	1890.90	1723240.41	14369991.55	39°34'15.7924"N	80°42'21.9363"W	2222.51	58.298	2.79	0.09	-2.79	
8551.00	89.940	341.030	7130.28	587.84	1257.94	1860.52	1723210.05	14370081.53	39°34'16.6830"N	80°42'22.3204"W	2245.88	55.937	0.69	-0.06	-0.68	
8646.00	89.720	340.510	7130.56	682.84	1347.64	1829.23	1723178.77	14370171.20	39°34'17.5705"N	80°42'22.7162"W	2272.05	53.620	0.59	-0.23	-0.55	
8740.00	89.940	341.540	7130.84	776.84	1436.53	1798.67	1723148.22	14370260.05	39°34'18.4501"N	80°42'23.1028"W	2301.92	51.387	1.12	0.23	1.10	
8835.00	89.940	341.170	7130.94	871.83	1526.54	1768.30	1723117.86	14370350.03	39°34'19.3407"N	80°42'23.4868"W	2336.07	49.197	0.39	0.00	-0.39	
8929.00	90.460	341.810	7130.62	965.83	1615.68	1738.46	1723088.03	14370439.13	39°34'20.2226"N	80°42'23.8642"W	2373.32	47.096	0.88	0.55	0.68	
9024.00	90.220	340.780	7130.05	1060.83	1705.66	1707.99	1723057.58	14370529.07	39°34'21.1128"N	80°42'24.2495"W	2413.82	45.039	1.11	-0.25	-1.08	
9118.00	90.340	341.020	7129.59	1154.83	1794.48	1677.23	1723026.83	14370617.86	39°34'21.9917"N	80°42'24.6386"W	2456.27	43.066	0.29	0.13	0.26	
9213.00	90.340	341.250	7129.03	1249.82	1884.38	1646.52	1722996.13	14370707.72	39°34'22.8811"N	80°42'25.0271"W	2502.38	41.146	0.24	0.00	0.24	
9308.00	90.310	340.910	7128.49	1344.82	1974.24	1615.71	1722965.34	14370797.55	39°34'23.7703"N	80°42'25.4167"W	2551.11	39.297	0.36	-0.03	-0.36	
9402.00	90.340	341.200	7127.96	1438.82	2063.15	1585.20	1722934.83	14370886.43	39°34'24.6499"N	80°42'25.8027"W	2601.81	37.536	0.31	0.03	0.31	
9497.00	90.150	341.060	7127.55	1533.82	2153.04	1554.47	1722904.12	14370976.28	39°34'25.5394"N	80°42'26.1913"W	2655.56	35.829	0.25	-0.20	-0.15	
9592.00	88.640	338.970	7128.55	1628.79	2242.31	1522.01	1722871.67	14371065.51	39°34'26.4226"N	80°42'26.6022"W	2710.07	34.167	2.71	-1.59	-2.20	
9686.00	90.000	340.950	7129.67	1722.76	2330.61	1489.80	1722839.47	14371153.78	39°34'27.2963"N	80°42'27.0098"W	2766.09	32.588	2.56	1.45	2.11	
9781.00	90.120	341.230	7129.57	1817.76	2420.48	1459.01	1722808.70	14371243.61	39°34'28.1855"N	80°42'27.3993"W	2826.20	31.081	0.32	0.13	0.29	
9876.00	89.780	339.700	7129.65	1912.75	2510.01	1427.25	1722776.95	14371333.11	39°34'29.0714"N	80°42'27.8012"W	2887.42	29.624	1.65	-0.36	-1.61	
9970.00	90.120	340.230	7129.73	2006.73	2598.32	1395.04	1722744.75	14371421.38	39°34'29.9452"N	80°42'28.2088"W	2949.14	28.231	0.67	0.36	0.56	
10065.00	90.120	340.850	7129.54	2101.72	2687.89	1363.40	1722713.12	14371510.92	39°34'30.8315"N	80°42'28.6092"W	3013.90	26.896	0.65	0.00	0.65	
10160.00	89.940	338.900	7129.49	2196.70	2777.09	1330.71	1722680.45	14371600.08	39°34'31.7141"N	80°42'29.0230"W	3079.45	25.603	2.06	-0.19	-2.05	
10254.00	90.220	338.390	7129.35	2290.61	2864.63	1296.48	1722646.23	14371687.59	39°34'32.5804"N	80°42'29.4565"W	3144.36	24.351	0.62	0.30	-0.54	
10349.00	90.150	340.850	7129.05	2385.57	2953.68	1263.40	1722613.16	14371776.60	39°34'33.4615"N	80°42'29.8752"W	3212.54	23.158	2.59	-0.07	2.59	
10444.00	91.540	342.230	7127.65	2480.55	3043.77	1233.32	1722583.10	14371866.66	39°34'34.3529"N	80°42'30.2556"W	3284.15	22.058	2.06	1.46	1.45	
10538.00	89.910	341.260	7126.46	2574.53	3133.03	1203.88	1722553.67	14371955.89	39°34'35.2360"N	80°42'30.6279"W	3356.37	21.020	2.02	-1.73	-1.03	
10633.00	89.750	341.340	7126.74	2669.53	3223.02	1173.42	1722523.22	14372045.84	39°34'36.1263"N	80°42'31.0131"W	3429.98	20.005	0.19	-0.17	0.08	

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Graden Unit 2H AWP Proj: 24561'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Graden Unit 2H
Field	Wetzel	API	47-103-03697-0000
Facility	Cedar Pad	Wellbore	Graden Unit 2H AWB
Slot	Slot L		

WELLPATH DATA (263 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
10728.00	90.800	341.960	7126.28	2764.53	3313.18	1143.52	1722493.33	14372135.97	39°34'37.0184"N	80°42'31.3913"W	3504.97	19.042	1.28	1.11	0.65	
10822.00	89.850	341.570	7125.75	2858.52	3402.46	1114.10	1722463.92	14372225.21	39°34'37.9017"N	80°42'31.7633"W	3580.22	18.131	1.09	-1.01	-0.41	
10917.00	90.220	341.370	7125.69	2953.51	3492.54	1083.91	1722433.75	14372315.25	39°34'38.7929"N	80°42'32.1451"W	3656.87	17.242	0.44	0.39	-0.21	
11012.00	89.110	340.690	7126.25	3048.51	3582.37	1053.03	1722402.88	14372405.05	39°34'39.6818"N	80°42'32.5358"W	3733.93	16.381	1.37	-1.17	-0.72	
11107.00	89.780	340.890	7127.17	3143.50	3672.08	1021.78	1722371.63	14372494.72	39°34'40.5693"N	80°42'32.9312"W	3811.59	15.550	0.74	0.71	0.21	
11201.00	90.120	341.080	7127.25	3237.50	3760.95	991.15	1722341.02	14372583.55	39°34'41.4486"N	80°42'33.3187"W	3889.36	14.764	0.41	0.36	0.20	
11296.00	90.060	341.110	7127.10	3332.50	3850.82	960.37	1722310.25	14372673.39	39°34'42.3379"N	80°42'33.7081"W	3968.77	14.004	0.07	-0.06	0.03	
11391.00	90.150	341.440	7126.93	3427.50	3940.79	929.87	1722279.77	14372763.33	39°34'43.2280"N	80°42'34.0939"W	4049.02	13.277	0.36	0.09	0.35	
11485.00	90.150	340.990	7126.68	3521.50	4029.79	899.60	1722249.51	14372852.29	39°34'44.1085"N	80°42'34.4768"W	4128.98	12.584	0.48	0.00	-0.48	
11580.00	90.340	341.410	7126.27	3616.50	4119.72	868.99	1722218.90	14372942.18	39°34'44.9983"N	80°42'34.8640"W	4210.37	11.911	0.49	0.20	0.44	
11675.00	90.180	341.380	7125.84	3711.50	4209.75	838.68	1722188.61	14373032.18	39°34'45.8891"N	80°42'35.2474"W	4292.48	11.267	0.17	-0.17	-0.03	
11769.00	90.890	341.810	7124.97	3805.49	4298.94	809.00	1722158.94	14373121.33	39°34'46.7715"N	80°42'35.6227"W	4374.40	10.658	0.88	0.76	0.46	
11864.00	90.400	341.510	7123.90	3900.48	4389.11	779.11	1722129.06	14373211.47	39°34'47.6636"N	80°42'36.0008"W	4457.72	10.066	0.60	-0.52	-0.32	
11959.00	90.340	340.530	7123.28	3995.48	4478.94	748.22	1722098.18	14373301.26	39°34'48.5524"N	80°42'36.3917"W	4541.01	9.484	1.03	-0.06	-1.03	
12053.00	90.340	341.380	7122.72	4089.47	4567.79	717.54	1722067.52	14373390.08	39°34'49.4315"N	80°42'36.7797"W	4623.81	8.927	0.90	0.00	0.90	
12148.00	90.280	341.120	7122.21	4184.47	4657.75	687.01	1722037.00	14373480.00	39°34'50.3216"N	80°42'37.1660"W	4708.14	8.390	0.28	-0.06	-0.27	
12243.00	90.250	341.320	7121.77	4279.47	4747.69	656.42	1722006.42	14373569.91	39°34'51.2115"N	80°42'37.5529"W	4792.85	7.872	0.21	-0.03	0.21	
12337.00	90.280	341.160	7121.34	4373.47	4836.70	626.19	1721976.21	14373658.88	39°34'52.0921"N	80°42'37.9353"W	4877.06	7.377	0.17	0.03	-0.17	
12432.00	90.220	341.430	7120.92	4468.47	4926.68	595.73	1721945.75	14373748.82	39°34'52.9823"N	80°42'38.3207"W	4962.56	6.895	0.29	-0.06	0.28	
12527.00	90.120	341.240	7120.64	4563.47	5016.68	565.32	1721915.36	14373838.79	39°34'53.8728"N	80°42'38.7053"W	5048.43	6.429	0.23	-0.11	-0.20	
12621.00	90.180	341.360	7120.39	4657.47	5105.72	535.19	1721885.23	14373927.79	39°34'54.7538"N	80°42'39.0866"W	5133.69	5.984	0.14	0.06	0.13	
12716.00	90.220	341.700	7120.06	4752.46	5195.82	505.09	1721855.15	14374017.86	39°34'55.6452"N	80°42'39.4673"W	5220.32	5.552	0.36	0.04	0.36	
12811.00	90.340	342.740	7119.60	4847.44	5286.28	476.08	1721826.15	14374108.29	39°34'56.5402"N	80°42'39.8340"W	5307.68	5.146	1.10	0.13	1.09	
12905.00	90.220	341.390	7119.14	4941.43	5375.71	447.14	1721797.22	14374197.68	39°34'57.4250"N	80°42'40.2001"W	5394.28	4.755	1.44	-0.13	-1.44	
13000.00	90.090	341.290	7118.88	5036.42	5465.72	416.74	1721766.84	14374287.65	39°34'58.3155"N	80°42'40.5846"W	5481.58	4.360	0.17	-0.14	-0.11	
13095.00	90.150	340.910	7118.68	5131.42	5555.60	385.97	1721736.08	14374377.49	39°34'59.2047"N	80°42'40.9739"W	5568.99	3.974	0.40	0.06	-0.40	
13189.00	89.940	341.050	7118.61	5225.42	5644.46	355.33	1721705.45	14374466.33	39°35'00.0840"N	80°42'41.3615"W	5655.64	3.602	0.27	-0.22	0.15	
13284.00	90.090	340.220	7118.58	5320.42	5734.09	323.83	1721673.97	14374555.92	39°35'00.9708"N	80°42'41.7602"W	5743.23	3.232	0.89	0.16	-0.87	
13379.00	90.180	341.250	7118.36	5415.42	5823.77	292.49	1721642.63	14374645.56	39°35'1.8581"N	80°42'42.1568"W	5831.11	2.875	1.09	0.09	1.08	
13473.00	90.180	341.340	7118.06	5509.42	5912.80	262.34	1721612.50	14374734.56	39°35'2.7390"N	80°42'42.5382"W	5918.62	2.540	0.10	0.00	0.10	

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Graden Unit 2H AWP Proj: 24561'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Graden Unit 2H
Field	Wetzel	API	47-103-03697-0000
Facility	Cedar Pad	Wellbore	Graden Unit 2H AWP
Slot	Slot L		

WELLPATH DATA (263 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
13568.00	90.120	341.290	7117.82	5604.41	6002.79	231.91	1721582.08	14374824.52	39°35'3.6293"N	80°42'42.9232"W	6007.27	2.212	0.08	-0.06	-0.05	
13662.00	90.180	341.070	7117.57	5698.41	6091.77	201.59	1721551.77	14374913.46	39°35'4.5096"N	80°42'43.3069"W	6095.10	1.895	0.24	0.06	-0.23	
13757.00	89.970	341.440	7117.45	5793.41	6181.73	171.06	1721521.25	14375003.38	39°35'5.3997"N	80°42'43.6931"W	6184.10	1.585	0.45	-0.22	0.39	
13852.00	89.480	340.690	7117.90	5888.41	6271.59	140.23	1721490.44	14375093.20	39°35'6.2888"N	80°42'44.0832"W	6273.15	1.281	0.94	-0.52	-0.79	
13946.00	90.150	341.710	7118.20	5982.41	6360.57	109.94	1721460.16	14375182.15	39°35'7.1691"N	80°42'44.4664"W	6361.52	0.990	1.30	0.71	1.09	
14041.00	90.180	341.070	7117.93	6077.41	6450.60	79.62	1721429.85	14375272.15	39°35'8.0599"N	80°42'44.8500"W	6451.09	0.707	0.67	0.03	-0.67	
14136.00	90.520	341.040	7117.35	6172.40	6540.45	48.78	1721399.02	14375361.96	39°35'8.9489"N	80°42'45.2402"W	6540.64	0.427	0.36	0.36	-0.03	
14230.00	90.460	341.240	7116.55	6266.40	6629.40	18.40	1721368.65	14375450.88	39°35'9.8290"N	80°42'45.6247"W	6629.43	0.159	0.22	-0.06	0.21	
14325.00	90.490	341.150	7115.76	6361.40	6719.33	-12.23	1721338.04	14375540.77	39°35'10.7187"N	80°42'46.0121"W	6719.34	359.896	0.10	0.03	-0.09	
14420.00	90.490	341.310	7114.95	6456.39	6809.27	-42.79	1721307.48	14375630.68	39°35'11.6086"N	80°42'46.3989"W	6809.41	359.640	0.17	0.00	0.17	
14514.00	90.400	339.810	7114.22	6550.38	6897.91	-74.08	1721276.21	14375719.28	39°35'12.4856"N	80°42'46.7948"W	6898.31	359.385	1.60	-0.10	-1.60	
14609.00	89.910	340.390	7113.96	6645.37	6987.24	-106.41	1721243.89	14375808.57	39°35'13.3694"N	80°42'47.2042"W	6988.05	359.127	0.80	-0.52	0.61	
14704.00	90.400	341.170	7113.70	6740.37	7076.94	-137.69	1721212.63	14375898.24	39°35'14.2570"N	80°42'47.6000"W	7078.28	358.885	0.97	0.52	0.82	
14799.00	90.460	341.170	7112.99	6835.36	7166.85	-168.35	1721181.98	14375988.12	39°35'15.1466"N	80°42'47.9880"W	7168.83	358.654	0.06	0.06	0.00	
14893.00	90.460	341.130	7112.24	6929.36	7255.81	-198.72	1721151.62	14376077.04	39°35'16.0267"N	80°42'48.3722"W	7258.53	358.431	0.04	0.00	-0.04	
15083.00	90.370	341.260	7110.86	7119.35	7435.66	-259.96	1721090.40	14376256.82	39°35'17.8061"N	80°42'49.1472"W	7440.21	357.998	0.08	-0.05	0.07	
15177.00	90.250	339.750	7110.35	7213.35	7524.27	-291.33	1721059.04	14376345.39	39°35'18.6828"N	80°42'49.5443"W	7529.91	357.783	1.61	-0.13	-1.61	
15272.00	90.400	338.680	7109.81	7308.29	7613.08	-325.04	1721025.35	14376434.17	39°35'19.5617"N	80°42'49.9712"W	7620.02	357.555	1.14	0.16	-1.13	
15367.00	90.370	341.330	7109.17	7403.26	7702.35	-357.52	1720992.88	14376523.40	39°35'20.4449"N	80°42'50.3825"W	7710.64	357.342	2.79	-0.03	2.79	
15461.00	90.710	340.510	7108.29	7497.26	7791.18	-388.25	1720962.17	14376612.19	39°35'21.3238"N	80°42'50.7713"W	7800.85	357.147	0.94	0.36	-0.87	
15556.00	90.800	341.350	7107.04	7592.25	7880.96	-419.28	1720931.14	14376701.94	39°35'22.2120"N	80°42'51.1641"W	7892.10	356.955	0.89	0.09	0.88	
15651.00	90.740	341.400	7105.76	7687.24	7970.97	-449.62	1720900.82	14376791.92	39°35'23.1026"N	80°42'51.5480"W	7983.64	356.772	0.08	-0.06	0.05	
15745.00	91.230	341.350	7104.14	7781.22	8060.04	-479.64	1720870.81	14376880.95	39°35'23.9838"N	80°42'51.9277"W	8074.30	356.594	0.52	0.52	-0.05	
15840.00	90.890	341.020	7102.39	7876.21	8149.94	-510.27	1720840.19	14376970.82	39°35'24.8734"N	80°42'52.3154"W	8165.90	356.417	0.50	-0.36	-0.35	
15935.00	90.830	341.020	7100.96	7971.19	8239.77	-541.17	1720809.31	14377060.61	39°35'25.7621"N	80°42'52.7064"W	8257.52	356.242	0.06	-0.06	0.00	
16030.00	90.220	340.350	7100.09	8066.19	8329.42	-572.59	1720777.90	14377150.22	39°35'26.6491"N	80°42'53.1041"W	8349.08	356.068	0.95	-0.64	-0.71	
16124.00	90.120	340.470	7099.81	8160.18	8417.98	-604.10	1720746.40	14377238.75	39°35'27.5253"N	80°42'53.5031"W	8439.62	355.895	0.17	-0.11	0.13	
16219.00	90.310	339.390	7099.45	8255.16	8507.21	-636.70	1720713.81	14377327.94	39°35'28.4082"N	80°42'53.9159"W	8531.00	355.720	1.15	0.20	-1.14	
16314.00	90.220	341.250	7099.01	8350.14	8596.65	-668.69	1720681.83	14377417.35	39°35'29.2932"N	80°42'54.3209"W	8622.62	355.552	1.96	-0.09	1.96	
16408.00	90.280	340.990	7098.60	8444.14	8685.59	-699.11	1720651.43	14377506.26	39°35'30.1732"N	80°42'54.7058"W	8713.68	355.398	0.28	0.06	-0.28	

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Graden Unit 2H
Field	Wetzel	API	47-103-03697-0000
Facility	Cedar Pad	Wellbore	Graden Unit 2H AWB
Slot	Slot L		

WELLPATH DATA (263 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
16503.00	90.310	341.210	7098.12	8539.14	8775.47	-729.88	1720620.67	14377596.10	39°35'31.0624"N	80°42'55.0952"W	8805.77	355.245	0.23	0.03	0.23	
16598.00	90.400	341.090	7097.53	8634.14	8865.37	-760.58	1720589.98	14377685.97	39°35'31.9519"N	80°42'55.4837"W	8897.94	355.097	0.16	0.09	-0.13	
16692.00	90.370	341.400	7096.89	8728.14	8954.38	-790.80	1720559.77	14377774.94	39°35'32.8325"N	80°42'55.8661"W	8989.23	354.953	0.33	-0.03	0.33	
16787.00	90.830	341.580	7095.90	8823.13	9044.46	-820.96	1720529.63	14377864.98	39°35'33.7237"N	80°42'56.2477"W	9081.64	354.814	0.52	0.48	0.19	
16882.00	89.850	341.010	7095.34	8918.13	9134.44	-851.42	1720499.17	14377954.93	39°35'34.6140"N	80°42'56.6332"W	9174.03	354.675	1.19	-1.03	-0.60	
16976.00	90.030	341.220	7095.43	9012.12	9223.38	-881.85	1720468.76	14378043.83	39°35'35.4939"N	80°42'57.0183"W	9265.44	354.539	0.29	0.19	0.22	
17071.00	89.850	340.880	7095.53	9107.12	9313.23	-912.70	1720437.92	14378133.65	39°35'36.3829"N	80°42'57.4087"W	9357.85	354.403	0.40	-0.19	-0.36	
17166.00	89.690	341.050	7095.92	9202.12	9403.03	-943.68	1720406.95	14378223.42	39°35'37.2714"N	80°42'57.8009"W	9450.27	354.269	0.25	-0.17	0.18	
17260.00	89.750	340.850	7096.37	9296.12	9491.89	-974.36	1720376.28	14378312.23	39°35'38.1505"N	80°42'58.1892"W	9541.76	354.139	0.22	0.06	-0.21	
17355.00	89.630	340.990	7096.89	9391.12	9581.67	-1005.41	1720345.24	14378401.98	39°35'39.0388"N	80°42'58.5822"W	9634.27	354.010	0.19	-0.13	0.15	
17544.00	89.630	340.740	7098.11	9580.11	9760.22	-1067.37	1720283.31	14378580.46	39°35'40.8054"N	80°42'59.3664"W	9818.41	353.759	0.13	0.00	-0.13	
17639.00	89.660	340.870	7098.70	9675.11	9849.94	-1098.60	1720252.09	14378670.14	39°35'41.6930"N	80°42'59.7618"W	9911.01	353.636	0.14	0.03	0.14	
17733.00	89.940	340.800	7099.03	9769.11	9938.73	-1129.46	1720221.25	14378758.89	39°35'42.5715"N	80°43'0.1524"W	10002.70	353.517	0.31	0.30	-0.07	
17828.00	90.030	341.020	7099.05	9864.11	10028.50	-1160.53	1720190.19	14378848.63	39°35'43.4597"N	80°43'0.5457"W	10095.43	353.399	0.25	0.09	0.23	
17922.00	89.910	340.530	7099.10	9958.11	10117.26	-1191.48	1720159.25	14378937.36	39°35'44.3379"N	80°43'0.9375"W	10187.18	353.283	0.54	-0.13	-0.52	
18017.00	90.120	340.970	7099.08	10053.10	10206.95	-1222.80	1720127.94	14379027.01	39°35'45.2253"N	80°43'1.3340"W	10279.93	353.168	0.51	0.22	0.46	
18111.00	90.000	340.850	7098.98	10147.10	10295.78	-1253.54	1720097.21	14379115.81	39°35'46.1042"N	80°43'1.7231"W	10371.81	353.058	0.18	-0.13	-0.13	
18206.00	89.940	341.010	7099.03	10242.10	10385.56	-1284.58	1720066.18	14379205.56	39°35'46.9925"N	80°43'2.1160"W	10464.71	352.949	0.18	-0.06	0.17	
18300.00	89.970	340.770	7099.10	10336.10	10474.38	-1315.36	1720035.42	14379294.34	39°35'47.8713"N	80°43'2.5056"W	10556.65	352.842	0.26	0.03	-0.26	
18395.00	90.060	340.790	7099.08	10431.10	10564.09	-1346.63	1720004.16	14379384.01	39°35'48.7588"N	80°43'2.9015"W	10649.57	352.736	0.10	0.09	0.02	
18490.00	89.540	340.770	7099.41	10526.10	10653.79	-1377.90	1719972.90	14379473.68	39°35'49.6463"N	80°43'3.2974"W	10742.53	352.631	0.55	-0.55	-0.02	
18679.00	89.630	340.940	7100.78	10715.09	10832.33	-1439.89	1719910.94	14379652.15	39°35'51.4128"N	80°43'4.0820"W	10927.61	352.428	0.10	0.05	0.09	
18773.00	89.540	341.040	7101.46	10809.09	10921.20	-1470.51	1719880.33	14379740.99	39°35'52.2921"N	80°43'4.4696"W	11019.76	352.331	0.14	-0.10	0.11	
18868.00	89.570	341.030	7102.19	10904.09	11011.05	-1501.38	1719849.47	14379830.79	39°35'53.1810"N	80°43'4.8604"W	11112.93	352.235	0.03	0.03	-0.01	
18963.00	89.600	341.090	7102.88	10999.08	11100.90	-1532.21	1719818.65	14379920.61	39°35'54.0700"N	80°43'5.2507"W	11206.14	352.141	0.07	0.03	0.06	
19058.00	89.480	341.280	7103.65	11094.08	11190.82	-1562.85	1719788.03	14380010.50	39°35'54.9596"N	80°43'5.6385"W	11299.42	352.050	0.24	-0.13	0.20	
19152.00	89.510	340.930	7104.47	11188.08	11279.75	-1593.29	1719757.60	14380099.39	39°35'55.8395"N	80°43'6.0238"W	11391.72	351.960	0.37	0.03	-0.37	
19247.00	89.480	341.100	7105.31	11283.07	11369.58	-1624.19	1719726.71	14380189.18	39°35'56.7282"N	80°43'6.4150"W	11485.01	351.870	0.18	-0.03	0.18	
19342.00	89.510	341.150	7106.15	11378.07	11459.47	-1654.93	1719695.99	14380279.04	39°35'57.6175"N	80°43'6.8040"W	11578.35	351.782	0.06	0.03	0.05	
19436.00	89.200	341.210	7107.21	11472.06	11548.44	-1685.25	1719665.68	14380367.97	39°35'58.4978"N	80°43'7.1878"W	11670.75	351.698	0.34	-0.33	0.06	

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Operator	ANTERO RESOURCES CORPORATION	Well	Graden Unit 2H
Field	Wetzel	API	47-103-03697-0000
Facility	Cedar Pad	Wellbore	Graden Unit 2H AWB
Slot	Slot L		

WELLPATH DATA (263 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
19531.00	89.230	341.140	7108.51	11567.05	11638.35	-1715.90	1719635.04	14380457.85	39°35'59.3873"N	80°43'7.5757"W	11764.16	351.613	0.08	0.03	-0.07	
19626.00	89.320	341.430	7109.71	11662.05	11728.32	-1746.38	1719604.57	14380547.78	39°36'0.2774"N	80°43'7.9615"W	11857.62	351.531	0.32	0.09	0.31	
19720.00	89.320	341.130	7110.83	11756.04	11817.34	-1776.55	1719574.42	14380636.77	39°36'1.1582"N	80°43'8.3433"W	11950.13	351.451	0.32	0.00	-0.32	
19815.00	89.690	341.160	7111.65	11851.03	11907.24	-1807.25	1719543.73	14380726.63	39°36'2.0476"N	80°43'8.7320"W	12043.60	351.370	0.39	0.39	0.03	
19910.00	89.630	340.930	7112.21	11946.03	11997.08	-1838.10	1719512.88	14380816.44	39°36'2.9365"N	80°43'9.1226"W	12137.08	351.289	0.25	-0.06	-0.24	
20004.00	90.090	341.050	7112.44	12040.03	12085.96	-1868.72	1719482.28	14380905.28	39°36'3.8158"N	80°43'9.5102"W	12229.57	351.211	0.51	0.49	0.13	
20099.00	89.970	341.060	7112.39	12135.03	12175.81	-1899.56	1719451.44	14380995.10	39°36'4.7048"N	80°43'9.9006"W	12323.10	351.133	0.13	-0.13	0.01	
20288.00	89.910	341.150	7112.59	12324.03	12354.63	-1960.77	1719390.26	14381173.84	39°36'6.4740"N	80°43'10.6754"W	12509.25	350.982	0.06	-0.03	0.05	
20382.00	89.570	340.870	7113.01	12418.03	12443.51	-1991.36	1719359.69	14381262.69	39°36'7.3533"N	80°43'11.0626"W	12601.84	350.908	0.47	-0.36	-0.30	
20477.00	89.600	340.940	7113.70	12513.03	12533.28	-2022.43	1719328.62	14381352.42	39°36'8.2415"N	80°43'11.4561"W	12695.41	350.833	0.08	0.03	0.07	
20571.00	89.630	341.190	7114.33	12607.03	12622.19	-2052.94	1719298.13	14381441.30	39°36'9.1212"N	80°43'11.8422"W	12788.05	350.762	0.27	0.03	0.27	
20666.00	89.600	341.200	7114.97	12702.02	12712.12	-2083.56	1719267.52	14381531.19	39°36'10.0109"N	80°43'12.2299"W	12881.74	350.692	0.03	-0.03	0.01	
20761.00	89.570	340.980	7115.66	12797.02	12801.99	-2114.35	1719236.75	14381621.03	39°36'10.9000"N	80°43'12.6196"W	12975.41	350.622	0.23	-0.03	-0.23	
20856.00	89.630	341.140	7116.32	12892.02	12891.84	-2145.18	1719205.93	14381710.85	39°36'11.7890"N	80°43'13.0100"W	13069.10	350.553	0.18	0.06	0.17	
20950.00	89.660	340.990	7116.91	12986.02	12980.75	-2175.68	1719175.44	14381799.72	39°36'12.6687"N	80°43'13.3961"W	13161.82	350.485	0.16	0.03	-0.16	
21045.00	89.630	341.140	7117.50	13081.01	13070.61	-2206.51	1719144.62	14381889.54	39°36'13.5577"N	80°43'13.7864"W	13255.55	350.418	0.16	-0.03	0.16	
21141.00	89.540	340.990	7118.19	13177.01	13161.41	-2237.66	1719113.48	14381980.31	39°36'14.4561"N	80°43'14.1807"W	13350.28	350.351	0.18	-0.09	-0.16	
21236.00	89.630	341.110	7118.88	13272.01	13251.26	-2268.51	1719082.65	14382070.12	39°36'15.3450"N	80°43'14.5713"W	13444.04	350.286	0.16	0.09	0.13	
21330.00	90.000	341.520	7119.18	13366.01	13340.31	-2298.62	1719052.54	14382159.13	39°36'16.2260"N	80°43'14.9525"W	13536.89	350.224	0.59	0.39	0.44	
21425.00	90.490	341.000	7118.78	13461.01	13430.27	-2329.14	1719022.04	14382249.06	39°36'17.1160"N	80°43'15.3389"W	13630.74	350.161	0.75	0.52	-0.55	
21520.00	90.400	341.160	7118.04	13556.00	13520.13	-2359.95	1718991.25	14382338.89	39°36'18.0051"N	80°43'15.7288"W	13724.55	350.099	0.19	-0.09	0.17	
21615.00	89.660	341.060	7117.99	13651.00	13610.02	-2390.70	1718960.50	14382428.74	39°36'18.8944"N	80°43'16.1182"W	13818.39	350.037	0.79	-0.78	-0.11	
21709.00	89.820	341.350	7118.42	13745.00	13699.00	-2420.99	1718930.23	14382517.69	39°36'19.7748"N	80°43'16.5016"W	13911.29	349.978	0.35	0.17	0.31	
21804.00	89.690	341.190	7118.82	13840.00	13788.97	-2451.49	1718899.74	14382607.62	39°36'20.6649"N	80°43'16.8878"W	14005.20	349.919	0.22	-0.14	-0.17	
21898.00	89.720	341.090	7119.31	13934.00	13877.92	-2481.88	1718869.36	14382696.54	39°36'21.5449"N	80°43'17.2724"W	14098.10	349.861	0.11	0.03	-0.11	
21993.00	89.660	340.990	7119.82	14029.00	13967.77	-2512.74	1718838.51	14382786.35	39°36'22.4338"N	80°43'17.6632"W	14191.98	349.802	0.12	-0.06	-0.11	
22088.00	89.780	341.250	7120.28	14124.00	14057.66	-2543.48	1718807.78	14382876.20	39°36'23.3231"N	80°43'18.0524"W	14285.90	349.744	0.30	0.13	0.27	
22182.00	89.780	340.890	7120.64	14217.99	14146.57	-2573.98	1718777.30	14382965.08	39°36'24.2028"N	80°43'18.4385"W	14378.83	349.688	0.38	0.00	-0.38	
22277.00	89.820	341.120	7120.98	14312.99	14236.40	-2604.90	1718746.39	14383054.87	39°36'25.0915"N	80°43'18.8300"W	14472.75	349.631	0.25	0.04	0.24	
22372.00	90.120	341.230	7121.03	14407.99	14326.32	-2635.55	1718715.75	14383144.75	39°36'25.9812"N	80°43'19.2181"W	14566.72	349.576	0.34	0.32	0.12	

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Actual Wellpath Report

Graden Unit 2H AWP Proj: 24561'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Graden Unit 2H
Field	Wetzel	API	47-103-03697-0000
Facility	Cedar Pad	Wellbore	Graden Unit 2H AWB
Slot	Slot L		

WELLPATH DATA (263 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
22468.00	90.650	342.640	7120.38	14503.98	14417.58	-2665.32	1718685.99	14383235.98	39°36'26.8840"N	80°43'19.5948"W	14661.87	349.526	1.57	0.55	1.47	
22562.00	91.170	345.360	7118.89	14597.84	14507.92	-2691.23	1718660.10	14383326.28	39°36'27.7777"N	80°43'19.9222"W	14755.42	349.491	2.95	0.55	2.89	
22657.00	90.710	342.980	7117.33	14692.68	14599.30	-2717.13	1718634.20	14383417.63	39°36'28.6815"N	80°43'20.2496"W	14849.99	349.457	2.55	-0.48	-2.51	
22751.00	90.710	342.900	7116.16	14786.63	14689.15	-2744.71	1718606.63	14383507.45	39°36'29.5705"N	80°43'20.5984"W	14943.38	349.416	0.09	0.00	-0.09	
22846.00	90.830	341.220	7114.89	14881.60	14779.52	-2773.97	1718577.39	14383597.78	39°36'30.4645"N	80°43'20.9687"W	15037.59	349.370	1.77	0.13	-1.77	
22941.00	90.860	341.410	7113.49	14976.59	14869.50	-2804.40	1718546.97	14383687.73	39°36'31.3547"N	80°43'21.3539"W	15131.65	349.319	0.20	0.03	0.20	
23036.00	90.000	341.180	7112.77	15071.59	14959.48	-2834.86	1718516.51	14383777.67	39°36'32.2449"N	80°43'21.7396"W	15225.72	349.270	0.94	-0.91	-0.24	
23130.00	89.880	340.980	7112.87	15165.59	15048.41	-2865.34	1718486.05	14383866.56	39°36'33.1247"N	80°43'22.1255"W	15318.77	349.219	0.25	-0.13	-0.21	
23225.00	90.030	341.310	7112.95	15260.59	15138.31	-2896.04	1718455.36	14383956.43	39°36'34.0141"N	80°43'22.5143"W	15412.83	349.170	0.38	0.16	0.35	
23320.00	89.570	341.430	7113.28	15355.59	15228.33	-2926.39	1718425.02	14384046.41	39°36'34.9047"N	80°43'22.8985"W	15506.96	349.122	0.50	-0.48	0.13	
23414.00	89.570	341.100	7113.98	15449.58	15317.35	-2956.58	1718394.84	14384135.39	39°36'35.7854"N	80°43'23.2807"W	15600.08	349.075	0.35	0.00	-0.35	
23509.00	89.540	341.130	7114.72	15544.58	15407.23	-2987.33	1718364.11	14384225.24	39°36'36.6747"N	80°43'23.6700"W	15694.17	349.027	0.04	-0.03	0.03	
23603.00	89.260	341.140	7115.71	15638.57	15496.17	-3017.72	1718333.73	14384314.15	39°36'37.5547"N	80°43'24.0548"W	15787.28	348.980	0.30	-0.30	0.01	
23698.00	89.320	341.260	7116.88	15733.57	15586.10	-3048.34	1718303.13	14384404.04	39°36'38.4443"N	80°43'24.4424"W	15881.40	348.934	0.14	0.06	0.13	
23792.00	89.200	341.130	7118.10	15827.56	15675.07	-3078.63	1718272.84	14384492.98	39°36'39.3246"N	80°43'24.8261"W	15974.54	348.888	0.19	-0.13	-0.14	
23887.00	89.230	341.230	7119.40	15922.55	15764.99	-3109.28	1718242.21	14384582.86	39°36'40.2142"N	80°43'25.2141"W	16068.68	348.843	0.11	0.03	0.11	
23982.00	89.290	341.180	7120.63	16017.54	15854.91	-3139.88	1718211.62	14384672.75	39°36'41.1039"N	80°43'25.6016"W	16162.83	348.798	0.08	0.06	-0.05	
24171.00	89.140	341.420	7123.21	16206.52	16033.92	-3200.47	1718151.05	14384851.68	39°36'42.8748"N	80°43'26.3687"W	16350.22	348.712	0.15	-0.08	0.13	
24266.00	89.110	341.250	7124.67	16301.51	16123.91	-3230.87	1718120.66	14384941.64	39°36'43.7652"N	80°43'26.7536"W	16444.42	348.669	0.18	-0.03	-0.18	
24361.00	89.110	341.130	7126.14	16396.50	16213.83	-3261.50	1718090.05	14385031.52	39°36'44.6547"N	80°43'27.1414"W	16538.61	348.626	0.13	0.00	-0.13	
24455.00	90.030	341.210	7126.85	16490.50	16302.79	-3291.84	1718059.72	14385120.45	39°36'45.5349"N	80°43'27.5256"W	16631.82	348.584	0.98	0.98	0.09	
24536.00	89.880	341.250	7126.91	16571.50	16379.49	-3317.90	1718033.67	14385197.11	39°36'46.2937"N	80°43'27.8556"W	16712.15	348.549	0.19	-0.19	0.05	
24561.00†	89.880	341.250	7126.96	16596.50	16403.16	-3325.94	1718025.63	14385220.78	39°36'46.5279"N	80°43'27.9573"W	16736.95	348.538	0.00	0.00	0.00	Projected MD at TD: 24561'

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Actual Wellpath Report

Graden Unit 2H AWP Proj: 24561'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Graden Unit 2H
Field	Wetzel	API	47-103-03697-0000
Facility	Cedar Pad	Wellbore	Graden Unit 2H AWB
Slot	Slot L		

HOLE & CASING SECTIONS - Ref Wellbore: Graden Unit 2H AWB Ref Wellpath: Graden Unit 2H AWP Proj: 24561'									
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	-0.14	0.16
17.5in Open Hole	125.50	710.00	584.50	125.50	709.99	-0.14	0.16	-2.71	1.49
13.375in Casing Surface	25.50	690.00	664.50	25.50	689.99	0.00	0.00	-2.65	1.49
12.25in Open Hole	710.00	3493.00	2783.00	709.99	3355.38	-2.71	1.49	-46.12	804.92
9.625in Casing Intermediate	25.50	3463.00	3437.50	25.50	3326.78	0.00	0.00	-46.54	795.85
8.75in Open Hole	3493.00	6711.00	3218.00	3355.38	6388.56	-46.12	804.92	-116.03	1872.23
8.5in Open Hole	6711.00	24561.00	17850.00	6388.56	7126.96	-116.03	1872.23	16403.16	-3325.94
5.5in Casing Production	25.50	24541.00	24515.50	25.50	7126.92	0.00	0.00	16384.22	-3319.51



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Graden Unit 2H AWP Proj: 24561'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Graden Unit 2H
Field	Wetzel	API	47-103-03697-0000
Facility	Cedar Pad	Wellbore	Graden Unit 2H AWB
Slot	Slot L		

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Graden Unit 2H POE Rev-1	7108.00	450.39	2021.31	1723370.77	14369274.30	39°34'8.6967"N	80°42'20.3009"W	point
Graden Unit 2H AZI Rev-1	7133.00	1124.75	1891.14	1723240.66	14369948.40	39°34'15.3657"N	80°42'21.9349"W	point
Graden Unit 2H BHL Rev-1	7133.00	16434.77	-3349.21	1718002.37	14385252.38	39°36'46.8410"N	80°43'28.2535"W	point
Graden Unit 2H LP Rev-1	7133.00	636.81	2000.50	1723349.97	14369460.64	39°34'10.5397"N	80°42'20.5589"W	point
Graden Unit 2H 50' L/R Hard Line	7500.00	8779.76	-729.03	1720621.51	14377600.39	39°35'31.1048"N	80°42'55.0842"W	rectangle
2D Rectangle 16182 x 100.								

WELLPATH COMPOSITION - Ref Wellbore: Graden Unit 2H AWB Ref Wellpath: Graden Unit 2H AWP Proj: 24561'					
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
25.50	700.00	Gyrodata 2015 - GC+WR+DPIPE	01 Gyrodata MS Gyro <17-1/2"> (100'-700')	Graden Unit 2H AWB	3/8/2025
700.00	3411.00	BH NaviTrak (2019) (Axial Corr+HRGM)	02 APS EM <12-1/4"> (700')(770'-3411')	Graden Unit 2H AWB	3/8/2025
3411.00	6634.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03 APS EM <8-3/4"> (3411')(3507'-6634')	Graden Unit 2H AWB	3/8/2025
6634.00	24561.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	04 BH Lucida <8-1/2"> (6634')(6688'-24536')	Graden Unit 2H AWB	3/8/2025

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Graden Unit 2H
Field	Wetzel	API	47-103-03697-0000
Facility	Cedar Pad	Wellbore	Graden Unit 2H AWB
Slot	Slot L		

COMMENTS
<p>Wellpath general comments API: 47-103-03697-0000 BH Job #: 112590385 Rig: H&P 317 Duration: 3/9/2025-3/17/2025 Gyrodatta MS Gyro <17-1/2"> (100'-700') APS EM <12-1/4"> (700')(770'-3411') APS EM <8-3/4"> (3411')(3507'-6634') BH Lucida <8-1/2"> (6634')(6688'-24536') Sycamore: 7114' MD Middlesex: 7282' MD Burkett: 7431' MD Tully: 7487' MD Marcellus POE: 7726' MD Projected MD at TD: 24561'</p>

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