



Actual Wellpath Report

Rodzina Unit 2H AWP Proj: 20567'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #10
Area	Tyler County, WV	Well	Rodzina Unit 2H
Field	Tyler	Wellbore	Rodzina Unit 2H AWB
Facility	Dawson Pad		

REPORT SETUP INFORMATION

Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect® 5.1
North Reference	Grid	User	Delaset
Scale	0.999601	Report Generated	8/7/2019 at 5:16:08 PM
Convergence at slot	0.08° East	Database/Source file	WA_MPL_EasternUS_Defn/Rodzina_Unit_2H_AWP_Proj_20567_.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-206.10	220.16	1676269.80	14300386.50	39°22'48.670"N	80°52'23.230"W
Facility Reference Pt			1676049.73	14300592.52	39°22'50.710"N	80°52'26.030"W
Field Reference Pt			0.00	0.00	0°00'00.000"	85°29'19.301"W

WELLPATH DATUM

Calculation method	Minimum curvature	H&P 519 (RKB) to Facility Vertical Datum	1039.00ft
Horizontal Reference Pt	Slot	H&P 519 (RKB) to Mean Sea Level	1039.00ft
Vertical Reference Pt	H&P 519 (RKB)	H&P 519 (RKB) to Ground Level at Slot (Slot #10)	30.00ft
MD Reference Pt	H&P 519 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	161.67°



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WELLPATH DATA (228 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	6.920	0.00	0.00	0.00	0.00	1676269.80	14300386.50	39°22'48.670"N	80°52'23.230"W	0.00	0.000	0.00	0.00	0.00	
30.00	0.000	6.920	30.00	0.00	0.00	0.00	1676269.80	14300386.50	39°22'48.670"N	80°52'23.230"W	0.00	0.000	0.00	0.00	0.00	
115.00	0.100	6.920	115.00	-0.07	0.07	0.01	1676269.81	14300386.57	39°22'48.671"N	80°52'23.230"W	0.07	6.920	0.12	0.12	8.14	Gyrodata MS Gyro <17-1/2">(100'-574')
215.00	0.020	320.310	215.00	-0.16	0.17	0.01	1676269.81	14300386.67	39°22'48.672"N	80°52'23.230"W	0.17	2.737	0.09	-0.08	-46.61	
315.00	0.090	310.860	315.00	-0.25	0.24	-0.06	1676269.74	14300386.74	39°22'48.672"N	80°52'23.231"W	0.25	345.374	0.07	0.07	-9.45	
415.00	0.090	326.440	415.00	-0.39	0.36	-0.17	1676269.64	14300386.86	39°22'48.673"N	80°52'23.232"W	0.39	335.084	0.02	0.00	15.58	
515.00	0.080	258.440	515.00	-0.47	0.41	-0.28	1676269.52	14300386.91	39°22'48.674"N	80°52'23.233"W	0.49	325.760	0.10	-0.01	-68.00	
589.00	0.150	7.990	589.00	-0.57	0.49	-0.31	1676269.49	14300386.99	39°22'48.675"N	80°52'23.234"W	0.58	327.471	0.26	0.09	148.04	
675.00	0.530	227.010	675.00	-0.50	0.33	-0.59	1676269.21	14300386.83	39°22'48.673"N	80°52'23.237"W	0.68	299.442	0.76	0.44	-163.93	WFT EM <12-1/4">(574')(660'-2511')
792.00	3.610	232.000	791.91	0.96	-2.30	-3.89	1676265.91	14300384.20	39°22'48.647"N	80°52'23.280"W	4.52	239.345	2.63	2.63	4.26	
884.00	6.200	231.670	883.56	3.64	-7.17	-10.07	1676259.73	14300379.33	39°22'48.599"N	80°52'23.358"W	12.36	234.547	2.82	2.82	-0.36	
982.00	8.650	231.240	980.73	8.02	-15.07	-19.97	1676249.84	14300371.44	39°22'48.521"N	80°52'23.485"W	25.01	232.964	2.50	2.50	-0.44	
1076.00	10.080	230.490	1073.48	13.46	-24.73	-31.83	1676237.99	14300361.78	39°22'48.426"N	80°52'23.636"W	40.30	232.157	1.53	1.52	-0.80	
1171.00	10.740	228.060	1166.92	20.01	-35.93	-44.83	1676224.99	14300350.58	39°22'48.315"N	80°52'23.801"W	57.45	231.285	0.83	0.69	-2.56	
1265.00	10.750	224.000	1259.27	27.59	-48.09	-57.43	1676212.39	14300338.43	39°22'48.195"N	80°52'23.962"W	74.91	230.058	0.81	0.01	-4.32	
1360.00	10.720	227.730	1352.61	35.29	-60.41	-70.12	1676199.70	14300326.12	39°22'48.074"N	80°52'24.124"W	92.56	229.257	0.73	-0.03	3.93	
1454.00	11.760	231.030	1444.80	42.21	-72.31	-84.04	1676185.79	14300314.22	39°22'47.956"N	80°52'24.301"W	110.87	229.290	1.30	1.11	3.51	
1549.00	12.400	233.550	1537.70	48.80	-84.46	-99.77	1676170.07	14300302.07	39°22'47.837"N	80°52'24.502"W	130.72	229.751	0.87	0.67	2.65	
1643.00	12.830	234.170	1629.43	55.08	-96.57	-116.35	1676153.49	14300289.97	39°22'47.717"N	80°52'24.713"W	151.21	230.309	0.48	0.46	0.66	
1738.00	12.090	229.340	1722.20	62.03	-109.23	-132.45	1676137.40	14300277.32	39°22'47.592"N	80°52'24.919"W	171.68	230.490	1.34	-0.78	-5.08	
1832.00	10.380	226.230	1814.39	69.41	-121.50	-146.04	1676123.82	14300265.05	39°22'47.471"N	80°52'25.092"W	189.97	230.240	1.93	-1.82	-3.31	
1926.00	10.070	229.770	1906.90	76.11	-132.66	-158.43	1676111.44	14300253.89	39°22'47.361"N	80°52'25.250"W	206.64	230.057	0.75	-0.33	3.77	
2021.00	11.460	232.980	2000.23	82.23	-143.71	-172.30	1676097.57	14300242.85	39°22'47.252"N	80°52'25.427"W	224.37	230.170	1.59	1.46	3.38	
2115.00	12.240	234.790	2092.22	88.12	-155.08	-187.90	1676081.98	14300231.48	39°22'47.140"N	80°52'25.626"W	243.63	230.466	0.92	0.83	1.93	
2210.00	11.930	231.930	2185.12	94.36	-166.94	-203.86	1676066.02	14300219.63	39°22'47.023"N	80°52'25.829"W	263.49	230.686	0.71	-0.33	-3.01	
2305.00	11.460	228.520	2278.15	101.39	-179.25	-218.66	1676051.23	14300207.33	39°22'46.901"N	80°52'26.018"W	282.74	230.657	0.88	-0.49	-3.59	
2399.00	12.270	230.690	2370.14	108.63	-191.76	-233.38	1676036.51	14300194.82	39°22'46.778"N	80°52'26.205"W	302.06	230.592	0.98	0.86	2.31	
2493.00	12.430	230.460	2461.96	115.87	-204.53	-248.91	1676020.99	14300182.05	39°22'46.652"N	80°52'26.403"W	322.16	230.591	0.18	0.17	-0.24	
2526.00	12.370	229.160	2494.19	118.51	-209.10	-254.33	1676015.58	14300177.48	39°22'46.607"N	80°52'26.472"W	329.25	230.574	0.87	-0.18	-3.94	
2660.00	11.180	231.320	2625.37	128.52	-226.61	-275.33	1675994.58	14300159.98	39°22'46.434"N	80°52'26.740"W	356.59	230.544	0.95	-0.89	1.61	WFT EM <8-3/4">(2511')(2645'-6404')



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Area	Tyler County, WV	Well	Rodzina Unit 2H
Field	Tyler	Wellbore	Rodzina Unit 2H AWB
Facility	Dawson Pad		

WELLPATH DATA (228 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
2754.00	12.250	234.380	2717.41	134.65	-238.11	-290.55	1675979.37	14300148.49	39°22'46.321"N	80°52'26.934"W	375.65	230.665	1.32	1.14	3.26	
2849.00	13.980	233.090	2809.93	141.31	-250.87	-307.92	1675962.01	14300135.73	39°22'46.195"N	80°52'27.156"W	397.18	230.829	1.85	1.82	-1.36	
2943.00	15.660	234.780	2900.80	148.61	-265.01	-327.36	1675942.57	14300121.60	39°22'46.055"N	80°52'27.404"W	421.18	231.009	1.85	1.79	1.80	
3040.00	17.450	235.690	2993.78	156.42	-280.76	-350.07	1675919.87	14300105.85	39°22'45.900"N	80°52'27.693"W	448.75	231.270	1.86	1.85	0.94	
3135.00	19.740	236.030	3083.81	164.67	-297.75	-375.15	1675894.80	14300088.87	39°22'45.732"N	80°52'28.013"W	478.95	231.561	2.41	2.41	0.36	
3229.00	22.370	234.740	3171.53	174.16	-316.95	-402.92	1675867.04	14300069.67	39°22'45.543"N	80°52'28.367"W	512.65	231.810	2.84	2.80	-1.37	
3324.00	25.000	233.560	3258.52	185.66	-339.32	-433.84	1675836.13	14300047.32	39°22'45.322"N	80°52'28.761"W	550.77	231.970	2.81	2.77	-1.24	
3419.00	26.250	232.730	3344.17	198.72	-363.96	-466.71	1675803.28	14300022.68	39°22'45.079"N	80°52'29.180"W	591.85	232.051	1.37	1.32	-0.87	
3513.00	26.130	231.600	3428.52	212.57	-389.41	-499.47	1675770.53	14299997.25	39°22'44.828"N	80°52'29.598"W	633.34	232.059	0.55	-0.13	-1.20	
3608.00	25.440	229.890	3514.07	227.32	-415.55	-531.47	1675738.54	14299971.12	39°22'44.570"N	80°52'30.006"W	674.65	231.979	1.07	-0.73	-1.80	
3703.00	25.040	231.330	3600.00	241.88	-441.26	-562.78	1675707.25	14299945.42	39°22'44.317"N	80°52'30.405"W	715.14	231.901	0.77	-0.42	1.52	
3797.00	26.020	230.470	3684.82	256.25	-466.81	-594.21	1675675.83	14299919.88	39°22'44.064"N	80°52'30.805"W	755.65	231.847	1.11	1.04	-0.91	
3891.00	25.600	227.530	3769.44	272.02	-493.65	-625.09	1675644.96	14299893.05	39°22'43.800"N	80°52'31.199"W	796.51	231.701	1.43	-0.45	-3.13	
3986.00	24.910	224.620	3855.37	289.51	-521.75	-654.29	1675615.77	14299864.96	39°22'43.522"N	80°52'31.571"W	836.85	231.430	1.49	-0.73	-3.06	
4080.00	24.100	227.490	3940.90	306.37	-548.81	-682.34	1675587.73	14299837.91	39°22'43.255"N	80°52'31.929"W	875.66	231.190	1.53	-0.86	3.05	
4175.00	22.920	230.730	4028.02	320.93	-573.63	-710.96	1675559.12	14299813.10	39°22'43.010"N	80°52'32.294"W	913.52	231.102	1.84	-1.24	3.41	
4270.00	23.450	232.250	4115.35	333.83	-596.91	-740.23	1675529.87	14299789.83	39°22'42.781"N	80°52'32.667"W	950.92	231.118	0.84	0.56	1.60	
4364.00	24.540	232.650	4201.22	346.41	-620.20	-770.54	1675499.57	14299766.55	39°22'42.551"N	80°52'33.054"W	989.13	231.170	1.17	1.16	0.43	
4459.00	26.170	232.790	4287.07	359.62	-644.84	-802.91	1675467.21	14299741.92	39°22'42.308"N	80°52'33.466"W	1029.80	231.231	1.72	1.72	0.15	
4556.00	26.920	234.480	4373.84	373.03	-670.53	-837.82	1675432.32	14299716.23	39°22'42.054"N	80°52'33.911"W	1073.10	231.328	1.10	0.77	1.74	
4651.00	26.220	232.040	4458.81	386.43	-695.94	-871.87	1675398.28	14299690.84	39°22'41.804"N	80°52'34.345"W	1115.56	231.403	1.36	-0.74	-2.57	
4746.00	26.550	233.710	4543.92	400.03	-721.41	-905.53	1675364.63	14299665.37	39°22'41.552"N	80°52'34.774"W	1157.77	231.456	0.85	0.35	1.76	
4841.00	26.730	232.570	4628.83	413.57	-746.97	-939.61	1675330.57	14299639.83	39°22'41.300"N	80°52'35.209"W	1200.34	231.516	0.57	0.19	-1.20	
4935.00	26.280	232.750	4712.95	427.23	-772.41	-972.96	1675297.23	14299614.40	39°22'41.049"N	80°52'35.634"W	1242.28	231.555	0.49	-0.48	0.19	
5030.00	25.870	231.110	4798.28	441.33	-798.15	-1005.83	1675264.37	14299588.67	39°22'40.795"N	80°52'36.053"W	1284.04	231.567	0.87	-0.43	-1.73	
5125.00	24.880	232.710	4884.12	455.10	-823.27	-1037.86	1675232.35	14299563.56	39°22'40.547"N	80°52'36.461"W	1324.74	231.577	1.27	-1.04	1.68	
5220.00	24.810	231.560	4970.33	468.45	-847.77	-1069.38	1675200.85	14299539.07	39°22'40.306"N	80°52'36.863"W	1364.65	231.594	0.51	-0.07	-1.21	
5314.00	24.450	229.760	5055.78	482.49	-872.60	-1099.67	1675170.57	14299514.25	39°22'40.061"N	80°52'37.249"W	1403.82	231.568	0.89	-0.38	-1.91	
5409.00	23.120	231.160	5142.71	496.36	-897.00	-1129.21	1675141.04	14299489.86	39°22'39.820"N	80°52'37.626"W	1442.12	231.538	1.52	-1.40	1.47	
5504.00	24.090	233.350	5229.76	508.99	-920.27	-1159.29	1675110.97	14299466.60	39°22'39.590"N	80°52'38.009"W	1480.15	231.557	1.38	1.02	2.31	



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5598.00	24.180	231.680	5315.54	521.60	-943.66	-1189.79	1675080.49	14299443.22	39°22'39.359"N	80°52'38.398"W	1518.58	231.581	0.73	0.10	-1.78	
5693.00	23.960	233.520	5402.28	534.26	-967.19	-1220.56	1675049.73	14299419.69	39°22'39.127"N	80°52'38.790"W	1557.32	231.606	0.82	-0.23	1.94	
5787.00	23.940	232.570	5488.19	546.45	-990.13	-1251.06	1675019.25	14299396.76	39°22'38.901"N	80°52'39.179"W	1595.46	231.641	0.41	-0.02	-1.01	
5882.00	23.310	229.580	5575.23	559.83	-1014.04	-1280.67	1674989.64	14299372.87	39°22'38.665"N	80°52'39.557"W	1633.52	231.628	1.42	-0.66	-3.15	
5977.00	22.560	230.640	5662.72	573.43	-1037.78	-1309.07	1674961.25	14299349.14	39°22'38.431"N	80°52'39.919"W	1670.53	231.594	0.90	-0.79	1.12	
6166.00	25.540	228.360	5835.30	602.57	-1087.86	-1367.57	1674902.78	14299299.08	39°22'37.937"N	80°52'40.664"W	1747.48	231.499	1.65	1.58	-1.21	
6261.00	25.750	219.090	5920.97	621.80	-1117.49	-1395.90	1674874.46	14299269.46	39°22'37.644"N	80°52'41.026"W	1788.10	231.321	4.23	0.22	-9.76	
6324.00	26.740	206.380	5977.52	639.25	-1140.83	-1410.83	1674859.53	14299246.13	39°22'37.414"N	80°52'41.216"W	1814.37	231.040	9.04	1.57	-20.17	
6387.00	31.470	196.640	6032.58	662.83	-1169.32	-1421.85	1674848.52	14299217.65	39°22'37.132"N	80°52'41.357"W	1840.91	230.566	10.61	7.51	-15.46	
6419.00	33.490	194.190	6059.58	677.12	-1185.88	-1426.41	1674843.96	14299201.09	39°22'36.969"N	80°52'41.416"W	1854.98	230.261	7.53	6.31	-7.66	
6515.00	37.720	191.020	6137.62	725.08	-1240.41	-1438.52	1674831.85	14299146.58	39°22'36.430"N	80°52'41.571"W	1899.47	229.229	4.81	4.41	-3.30	BH AT Curve <8-1/2">(6419')(6515'-20542')
6609.00	42.630	189.420	6209.42	778.34	-1300.08	-1449.24	1674821.14	14299086.94	39°22'35.840"N	80°52'41.708"W	1946.92	228.105	5.34	5.22	-1.70	
6700.00†	48.691	185.870	6273.00	836.85	-1364.55	-1457.78	1674812.60	14299022.50	39°22'35.203"N	80°52'41.818"W	1996.78	226.892	7.22	6.66	-3.90	Middlesex: 6700' MD
6704.00	48.960	185.730	6275.64	839.60	-1367.54	-1458.09	1674812.30	14299019.51	39°22'35.174"N	80°52'41.822"W	1999.05	226.835	7.22	6.72	-3.51	
6798.00	54.830	178.660	6333.67	908.83	-1441.35	-1460.73	1674809.65	14298945.73	39°22'34.444"N	80°52'41.857"W	2052.13	225.383	8.60	6.24	-7.52	
6893.00	61.110	171.190	6384.08	987.14	-1521.42	-1453.44	1674816.94	14298865.68	39°22'33.653"N	80°52'41.765"W	2104.10	223.691	9.38	6.61	-7.86	
6919.00†	63.114	168.872	6396.24	1009.87	-1544.05	-1449.46	1674820.92	14298843.06	39°22'33.429"N	80°52'41.715"W	2117.79	223.190	11.02	7.71	-8.91	Burkett: 6919' MD
6940.00	64.760	167.060	6405.46	1028.62	-1562.50	-1445.52	1674824.85	14298824.62	39°22'33.247"N	80°52'41.665"W	2128.60	222.773	11.02	7.84	-8.63	
6988.00	68.270	166.090	6424.59	1072.48	-1605.31	-1435.30	1674835.07	14298781.83	39°22'32.823"N	80°52'41.536"W	2153.40	221.800	7.54	7.31	-2.02	
7004.00†	69.431	165.955	6430.36	1087.35	-1619.79	-1431.70	1674838.68	14298767.35	39°22'32.680"N	80°52'41.490"W	2161.83	221.473	7.30	7.25	-0.84	Tully: 7004' MD
7035.00	71.680	165.700	6440.68	1116.51	-1648.13	-1424.54	1674845.83	14298739.03	39°22'32.400"N	80°52'41.400"W	2178.45	220.838	7.30	7.26	-0.82	
7085.00	74.740	166.230	6455.12	1164.24	-1694.57	-1412.93	1674857.43	14298692.61	39°22'31.941"N	80°52'41.253"W	2206.34	219.821	6.20	6.12	1.06	
7107.00†	76.491	166.334	6460.59	1185.48	-1715.27	-1407.88	1674862.48	14298671.92	39°22'31.736"N	80°52'41.189"W	2219.07	219.379	7.97	7.96	0.47	Marcellus POE: 7107' MD
7132.00	78.480	166.450	6466.01	1209.80	-1738.99	-1402.14	1674868.22	14298648.21	39°22'31.502"N	80°52'41.116"W	2233.85	218.879	7.97	7.96	0.46	
7181.00	83.280	166.820	6473.77	1257.98	-1786.05	-1390.96	1674879.40	14298601.17	39°22'31.036"N	80°52'40.974"W	2263.79	217.911	9.82	9.80	0.76	
7228.00	85.780	166.780	6478.25	1304.58	-1831.59	-1380.28	1674890.08	14298555.64	39°22'30.586"N	80°52'40.839"W	2293.45	217.001	5.32	5.32	-0.09	
7277.00	89.420	166.340	6480.30	1353.35	-1879.20	-1368.90	1674901.45	14298508.05	39°22'30.115"N	80°52'40.695"W	2324.93	216.071	7.48	7.43	-0.90	
7371.00	90.060	163.660	6480.73	1447.18	-1969.99	-1344.57	1674925.77	14298417.30	39°22'29.218"N	80°52'40.387"W	2385.11	214.315	2.93	0.68	-2.85	
7465.00	90.030	159.920	6480.66	1541.16	-2059.27	-1315.20	1674955.12	14298328.06	39°22'28.335"N	80°52'40.014"W	2443.43	212.565	3.98	-0.03	-3.98	
7559.00	89.820	157.820	6480.78	1635.04	-2146.94	-1281.32	1674988.99	14298240.42	39°22'27.468"N	80°52'39.584"W	2500.23	210.829	2.25	-0.22	-2.23	



Actual Wellpath Report

Rodzina Unit 2H AWP Proj: 20567'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #10
Area	Tyler County, WV	Well	Rodzina Unit 2H
Field	Tyler	Wellbore	Rodzina Unit 2H AWB
Facility	Dawson Pad		

WELLPATH DATA (228 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
7654.00	89.940	161.450	6480.98	1729.97	-2235.99	-1248.26	1675022.04	14298151.41	39°22'26.587"N	80°52'39.165"W	2560.82	209.173	3.82	0.13	3.82	
7749.00	89.910	163.290	6481.10	1824.96	-2326.52	-1219.49	1675050.79	14298060.91	39°22'25.692"N	80°52'38.800"W	2626.76	207.662	1.94	-0.03	1.94	
7844.00	90.060	162.780	6481.13	1919.93	-2417.39	-1191.77	1675078.50	14297970.08	39°22'24.794"N	80°52'38.449"W	2695.20	206.243	0.56	0.16	-0.54	
7939.00	90.180	163.000	6480.93	2014.91	-2508.18	-1163.82	1675106.44	14297879.32	39°22'23.896"N	80°52'38.095"W	2765.04	204.892	0.26	0.13	0.23	
8033.00	90.060	163.790	6480.73	2108.86	-2598.26	-1136.96	1675133.29	14297789.28	39°22'23.005"N	80°52'37.754"W	2836.13	203.634	0.85	-0.13	0.84	
8127.00	90.280	167.880	6480.45	2202.60	-2689.38	-1113.96	1675156.28	14297698.19	39°22'22.104"N	80°52'37.463"W	2910.96	202.500	4.36	0.23	4.35	
8222.00	91.200	165.830	6479.22	2297.19	-2781.88	-1092.36	1675177.87	14297605.73	39°22'21.190"N	80°52'37.189"W	2988.66	201.438	2.37	0.97	-2.16	
8317.00	90.770	162.700	6477.59	2392.07	-2873.29	-1066.61	1675203.62	14297514.36	39°22'20.286"N	80°52'36.863"W	3064.88	200.366	3.33	-0.45	-3.29	
8412.00	90.370	164.170	6476.65	2487.02	-2964.34	-1039.52	1675230.69	14297423.34	39°22'19.386"N	80°52'36.520"W	3141.33	199.325	1.60	-0.42	1.55	
8507.00	90.250	161.580	6476.13	2581.99	-3055.12	-1011.55	1675258.65	14297332.60	39°22'18.488"N	80°52'36.165"W	3218.23	198.320	2.73	-0.13	-2.73	
8602.00	90.280	162.650	6475.69	2676.98	-3145.53	-982.38	1675287.81	14297242.23	39°22'17.594"N	80°52'35.795"W	3295.37	197.344	1.13	0.03	1.13	
8697.00	90.280	162.030	6475.23	2771.97	-3236.05	-953.56	1675316.62	14297151.74	39°22'16.699"N	80°52'35.430"W	3373.62	196.419	0.65	0.00	-0.65	
8793.00	90.220	161.250	6474.81	2867.97	-3327.16	-923.32	1675346.85	14297060.67	39°22'15.798"N	80°52'35.046"W	3452.90	195.510	0.81	-0.06	-0.81	
8889.00	90.280	161.890	6474.39	2963.97	-3418.24	-892.97	1675377.19	14296969.63	39°22'14.898"N	80°52'34.661"W	3532.95	194.641	0.67	0.06	0.67	
8984.00	90.250	161.100	6473.95	3058.97	-3508.33	-862.82	1675407.33	14296879.58	39°22'14.007"N	80°52'34.279"W	3612.87	193.817	0.83	-0.03	-0.83	
9081.00	90.150	161.670	6473.61	3155.97	-3600.25	-831.86	1675438.28	14296787.69	39°22'13.098"N	80°52'33.886"W	3695.10	193.010	0.60	-0.10	0.59	
9177.00	90.120	161.560	6473.39	3251.97	-3691.35	-801.58	1675468.54	14296696.63	39°22'12.197"N	80°52'33.503"W	3777.38	192.252	0.12	-0.03	-0.11	
9272.00	90.180	161.900	6473.14	3346.97	-3781.56	-771.80	1675498.31	14296606.45	39°22'11.305"N	80°52'33.125"W	3859.52	191.535	0.36	0.06	0.36	
9367.00	90.310	161.300	6472.73	3441.96	-3871.70	-741.81	1675528.29	14296516.35	39°22'10.414"N	80°52'32.745"W	3942.13	190.846	0.65	0.14	-0.63	
9462.00	90.250	162.260	6472.27	3536.96	-3961.94	-712.11	1675557.98	14296426.15	39°22'09.522"N	80°52'32.368"W	4025.42	190.189	1.01	-0.06	1.01	
9557.00	90.340	162.200	6471.78	3631.96	-4052.40	-683.12	1675586.96	14296335.72	39°22'08.627"N	80°52'32.000"W	4109.58	189.568	0.11	0.09	-0.06	
9652.00	90.400	162.120	6471.16	3726.95	-4142.83	-654.01	1675616.05	14296245.33	39°22'07.733"N	80°52'31.631"W	4194.14	188.971	0.11	0.06	-0.08	
9746.00	90.220	160.650	6470.66	3820.94	-4231.91	-624.01	1675646.04	14296156.28	39°22'06.852"N	80°52'31.251"W	4277.67	188.388	1.58	-0.19	-1.56	
9843.00	90.120	161.170	6470.37	3917.94	-4323.58	-592.28	1675677.75	14296064.65	39°22'05.946"N	80°52'30.849"W	4363.96	187.800	0.55	-0.10	0.54	
9938.00	90.060	161.550	6470.22	4012.93	-4413.59	-561.92	1675708.11	14295974.67	39°22'05.056"N	80°52'30.464"W	4449.22	187.256	0.40	-0.06	0.40	
10033.00	90.150	160.880	6470.04	4107.93	-4503.53	-531.33	1675738.68	14295884.77	39°22'04.166"N	80°52'30.076"W	4534.77	186.729	0.71	0.09	-0.71	
10129.00	90.060	160.480	6469.87	4203.92	-4594.13	-499.57	1675770.43	14295794.21	39°22'03.270"N	80°52'29.673"W	4621.21	186.206	0.43	-0.09	-0.42	
10224.00	90.120	161.590	6469.72	4298.91	-4683.97	-468.69	1675801.29	14295704.41	39°22'02.382"N	80°52'29.281"W	4707.36	185.714	1.17	0.06	1.17	
10318.00	90.030	160.780	6469.60	4392.90	-4772.94	-438.38	1675831.60	14295615.47	39°22'01.502"N	80°52'28.897"W	4793.03	185.248	0.87	-0.10	-0.86	
10413.00	90.060	160.300	6469.52	4487.89	-4862.52	-406.73	1675863.23	14295525.93	39°22'00.617"N	80°52'28.496"W	4879.50	184.781	0.51	0.03	-0.51	



Actual Wellpath Report

Rodzina Unit 2H AWP Proj: 20567'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #10
Area	Tyler County, WV	Well	Rodzina Unit 2H
Field	Tyler	Wellbore	Rodzina Unit 2H AWB
Facility	Dawson Pad		

WELLPATH DATA (228 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
10509.00	89.970	160.310	6469.50	4583.86	-4952.90	-374.38	1675895.57	14295435.58	39°21'59.723"N	80°52'28.085"W	4967.03	184.323	0.09	-0.09	0.01	
10605.00	90.310	161.430	6469.26	4679.85	-5043.60	-342.92	1675927.02	14295344.92	39°21'58.826"N	80°52'27.686"W	5055.24	183.890	1.22	0.35	1.17	
10700.00	90.280	161.070	6468.77	4774.84	-5133.55	-312.38	1675957.55	14295255.00	39°21'57.936"N	80°52'27.299"W	5143.05	183.482	0.38	-0.03	-0.38	
10796.00	90.400	160.980	6468.20	4870.83	-5224.34	-281.16	1675988.75	14295164.26	39°21'57.039"N	80°52'26.903"W	5231.90	183.081	0.16	0.12	-0.09	
10891.00	90.280	161.190	6467.64	4965.83	-5314.20	-250.37	1676019.53	14295074.42	39°21'56.150"N	80°52'26.513"W	5320.10	182.697	0.25	-0.13	0.22	
10987.00	90.250	160.510	6467.20	5061.82	-5404.89	-218.88	1676051.01	14294983.77	39°21'55.253"N	80°52'26.113"W	5409.32	182.319	0.71	-0.03	-0.71	
11083.00	90.680	161.920	6466.42	5157.81	-5495.77	-187.97	1676081.91	14294892.93	39°21'54.355"N	80°52'25.721"W	5498.98	181.959	1.54	0.45	1.47	
11177.00	90.280	161.260	6465.10	5251.80	-5584.95	-158.28	1676111.58	14294803.79	39°21'53.473"N	80°52'25.345"W	5587.19	181.623	0.75	0.26	-0.70	
11272.00	90.890	160.850	6463.60	5346.78	-5674.79	-127.44	1676142.41	14294713.98	39°21'52.584"N	80°52'24.954"W	5676.22	181.287	0.43	-0.03	-0.43	
11368.00	90.920	160.710	6462.09	5442.76	-5765.43	-95.85	1676173.99	14294623.38	39°21'51.688"N	80°52'24.553"W	5766.23	180.952	0.15	0.03	-0.15	
11463.00	90.830	159.750	6460.64	5537.71	-5854.82	-63.72	1676206.11	14294534.02	39°21'50.804"N	80°52'24.146"W	5855.17	180.624	1.01	-0.09	-1.01	
11558.00	90.400	161.260	6459.62	5632.69	-5944.37	-32.02	1676237.80	14294444.51	39°21'49.919"N	80°52'23.744"W	5944.45	180.309	1.65	-0.45	1.59	
11651.00	90.520	160.510	6458.87	5725.67	-6032.24	-1.56	1676268.24	14294356.68	39°21'49.050"N	80°52'23.358"W	6032.24	180.015	0.82	0.13	-0.81	
11746.00	90.460	160.820	6458.06	5820.66	-6121.87	29.89	1676299.68	14294267.08	39°21'48.164"N	80°52'22.959"W	6121.95	179.720	0.33	-0.06	0.33	
11841.00	90.520	161.360	6457.25	5915.65	-6211.74	60.68	1676330.45	14294177.25	39°21'47.275"N	80°52'22.569"W	6212.04	179.440	0.57	0.06	0.57	
11936.00	91.780	159.820	6455.34	6010.61	-6301.32	92.24	1676362.00	14294087.70	39°21'46.389"N	80°52'22.168"W	6302.00	179.161	2.09	1.33	-1.62	
12032.00	91.170	161.200	6452.87	6106.55	-6391.79	124.26	1676394.01	14293997.27	39°21'45.495"N	80°52'21.762"W	6393.00	178.886	1.57	-0.64	1.44	
12126.00	90.030	160.810	6451.88	6200.54	-6480.66	154.85	1676424.59	14293908.43	39°21'44.616"N	80°52'21.374"W	6482.51	178.631	1.28	-1.21	-0.41	
12221.00	90.060	161.240	6451.81	6295.53	-6570.50	185.74	1676455.47	14293818.63	39°21'43.727"N	80°52'20.983"W	6573.12	178.381	0.45	0.03	0.45	
12315.00	91.020	162.210	6450.92	6389.53	-6659.75	215.22	1676484.93	14293729.41	39°21'42.845"N	80°52'20.609"W	6663.23	178.149	1.45	1.02	1.03	
12411.00	91.080	161.130	6449.16	6485.51	-6750.87	245.40	1676515.10	14293638.34	39°21'41.944"N	80°52'20.226"W	6755.32	177.918	1.13	0.06	-1.12	
12506.00	91.320	161.190	6447.17	6580.48	-6840.76	276.07	1676545.76	14293548.48	39°21'41.055"N	80°52'19.837"W	6846.32	177.689	0.26	0.25	0.06	
12601.00	91.260	160.480	6445.03	6675.45	-6930.47	307.25	1676576.93	14293458.81	39°21'40.168"N	80°52'19.442"W	6937.27	177.462	0.75	-0.06	-0.75	
12697.00	90.550	160.450	6443.52	6771.42	-7020.93	339.35	1676609.01	14293368.38	39°21'39.273"N	80°52'19.035"W	7029.13	177.233	0.74	-0.74	-0.03	
12793.00	89.420	159.550	6443.54	6867.37	-7111.14	372.18	1676641.83	14293278.21	39°21'38.381"N	80°52'18.619"W	7120.87	177.004	1.50	-1.18	-0.94	
12887.00	89.940	161.830	6444.07	6961.35	-7199.84	403.26	1676672.90	14293189.54	39°21'37.504"N	80°52'18.225"W	7211.13	176.794	2.49	0.55	2.43	
12982.00	89.910	160.750	6444.19	7056.35	-7289.82	433.74	1676703.36	14293099.60	39°21'36.614"N	80°52'17.838"W	7302.71	176.595	1.14	-0.03	-1.14	
13077.00	89.940	161.230	6444.32	7151.34	-7379.64	464.68	1676734.29	14293009.82	39°21'35.726"N	80°52'17.446"W	7394.25	176.397	0.51	0.03	0.51	
13173.00	90.000	159.740	6444.37	7247.32	-7470.12	496.75	1676766.35	14292919.37	39°21'34.832"N	80°52'17.039"W	7486.62	176.196	1.55	0.06	-1.55	
13267.00	89.970	161.110	6444.39	7341.29	-7558.69	528.24	1676797.83	14292830.84	39°21'33.956"N	80°52'16.640"W	7577.12	176.002	1.46	-0.03	1.46	



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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #10
Area	Tyler County, WV	Well	Rodzina Unit 2H
Field	Tyler	Wellbore	Rodzina Unit 2H AWB
Facility	Dawson Pad		

WELLPATH DATA (228 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
13362.00	90.830	162.720	6443.73	7436.28	-7648.99	557.73	1676827.31	14292740.58	39°21'33.063"N	80°52'16.266"W	7669.29	175.830	1.92	0.91	1.69	
13458.00	90.920	162.260	6442.26	7532.26	-7740.53	586.61	1676856.18	14292649.07	39°21'32.158"N	80°52'15.900"W	7762.72	175.666	0.49	0.09	-0.48	
13553.00	90.490	161.520	6441.09	7627.25	-7830.81	616.14	1676885.69	14292558.82	39°21'31.265"N	80°52'15.526"W	7855.02	175.501	0.90	-0.45	-0.78	
13648.00	90.650	162.300	6440.15	7722.25	-7921.11	645.63	1676915.18	14292468.56	39°21'30.372"N	80°52'15.152"W	7947.38	175.340	0.84	0.17	0.82	
13743.00	90.400	161.160	6439.28	7817.24	-8011.32	675.42	1676944.94	14292378.39	39°21'29.480"N	80°52'14.775"W	8039.74	175.181	1.23	-0.26	-1.20	
13840.00	90.400	161.910	6438.60	7914.24	-8103.32	706.14	1676975.65	14292286.42	39°21'28.570"N	80°52'14.385"W	8134.03	175.020	0.77	0.00	0.77	
13937.00	90.400	161.860	6437.92	8011.24	-8195.51	736.30	1677005.80	14292194.27	39°21'27.659"N	80°52'14.003"W	8228.52	174.866	0.05	0.00	-0.05	
14033.00	89.850	160.320	6437.71	8107.23	-8286.33	767.41	1677036.90	14292103.49	39°21'26.761"N	80°52'13.608"W	8321.79	174.709	1.70	-0.57	-1.60	
14127.00	90.000	162.730	6437.84	8201.22	-8375.48	797.19	1677066.67	14292014.38	39°21'25.879"N	80°52'13.231"W	8413.33	174.563	2.57	0.16	2.56	
14222.00	89.200	163.110	6438.50	8296.19	-8466.28	825.09	1677094.56	14291923.61	39°21'24.981"N	80°52'12.877"W	8506.39	174.434	0.93	-0.84	0.40	
14318.00	90.430	162.960	6438.81	8392.17	-8558.10	853.10	1677122.56	14291831.82	39°21'24.073"N	80°52'12.522"W	8600.52	174.307	1.29	1.28	-0.16	
14412.00	89.570	161.680	6438.81	8486.16	-8647.66	881.65	1677151.10	14291742.30	39°21'23.188"N	80°52'12.161"W	8692.49	174.179	1.64	-0.91	-1.36	
14508.00	89.290	160.680	6439.77	8582.15	-8738.52	912.62	1677182.05	14291651.48	39°21'22.289"N	80°52'11.768"W	8786.05	174.038	1.08	-0.29	-1.04	
14602.00	89.200	162.310	6441.00	8676.13	-8827.65	942.45	1677211.87	14291562.38	39°21'21.408"N	80°52'11.390"W	8877.82	173.906	1.74	-0.10	1.73	
14697.00	90.620	162.190	6441.15	8771.13	-8918.13	971.41	1677240.82	14291471.95	39°21'20.513"N	80°52'11.023"W	8970.88	173.784	1.50	1.49	-0.13	
14792.00	89.910	161.390	6440.71	8866.12	-9008.37	1001.10	1677270.50	14291381.74	39°21'19.621"N	80°52'10.647"W	9063.82	173.659	1.13	-0.75	-0.84	
14886.00	89.320	161.700	6441.35	8960.12	-9097.53	1030.85	1677300.24	14291292.61	39°21'18.739"N	80°52'10.269"W	9155.75	173.535	0.71	-0.63	0.33	
14980.00	89.200	161.290	6442.56	9054.11	-9186.66	1060.68	1677330.06	14291203.52	39°21'17.858"N	80°52'09.891"W	9247.69	173.414	0.45	-0.13	-0.44	
15075.00	89.320	163.030	6443.79	9149.10	-9277.08	1089.79	1677359.15	14291113.13	39°21'16.964"N	80°52'09.523"W	9340.87	173.300	1.84	0.13	1.83	
15170.00	89.170	161.840	6445.04	9244.08	-9367.64	1118.45	1677387.80	14291022.61	39°21'16.068"N	80°52'09.159"W	9434.18	173.191	1.26	-0.16	-1.25	
15266.00	91.140	161.680	6444.78	9340.07	-9458.82	1148.50	1677417.84	14290931.47	39°21'15.167"N	80°52'08.778"W	9528.29	173.077	2.06	2.05	-0.17	
15361.00	89.690	160.690	6444.09	9435.07	-9548.73	1179.14	1677448.46	14290841.59	39°21'14.278"N	80°52'08.390"W	9621.26	172.960	1.85	-1.53	-1.04	
15455.00	89.140	162.250	6445.05	9529.06	-9637.85	1209.01	1677478.32	14290752.51	39°21'13.396"N	80°52'08.012"W	9713.39	172.850	1.76	-0.59	1.66	
15550.00	89.880	162.300	6445.86	9624.05	-9728.34	1237.93	1677507.23	14290662.06	39°21'12.502"N	80°52'07.645"W	9806.79	172.748	0.78	0.78	0.05	
15646.00	89.780	161.560	6446.15	9720.04	-9819.60	1267.70	1677537.00	14290570.83	39°21'11.599"N	80°52'07.268"W	9901.09	172.644	0.78	-0.10	-0.77	
15742.00	89.570	161.950	6446.69	9816.04	-9910.77	1297.76	1677567.04	14290479.69	39°21'10.698"N	80°52'06.887"W	9995.38	172.540	0.46	-0.22	0.41	
15837.00	89.200	162.040	6447.71	9911.04	-10001.12	1327.12	1677596.39	14290389.39	39°21'09.804"N	80°52'06.515"W	10088.79	172.441	0.40	-0.39	0.09	
15932.00	89.170	161.780	6449.06	10006.03	-10091.41	1356.62	1677625.87	14290299.13	39°21'08.911"N	80°52'06.141"W	10182.19	172.343	0.28	-0.03	-0.27	
16028.00	89.140	161.570	6450.48	10102.01	-10182.53	1386.80	1677656.04	14290208.04	39°21'08.010"N	80°52'05.758"W	10276.54	172.244	0.22	-0.03	-0.22	
16123.00	89.050	161.410	6451.98	10197.00	-10272.61	1416.95	1677686.19	14290118.01	39°21'07.120"N	80°52'05.376"W	10369.87	172.146	0.19	-0.09	-0.17	



Actual Wellpath Report

Rodzina Unit 2H AWP Proj: 20567'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #10
Area	Tyler County, WV	Well	Rodzina Unit 2H
Field	Tyler	Wellbore	Rodzina Unit 2H AWB
Facility	Dawson Pad		

WELLPATH DATA (228 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
16217.00	90.460	162.780	6452.38	10290.99	-10362.05	1445.85	1677715.07	14290028.60	39°21'06.235"N	80°52'05.010"W	10462.44	172.057	2.09	1.50	1.46	
16313.00	89.970	162.170	6452.02	10386.98	-10453.59	1474.76	1677743.97	14289937.09	39°21'05.330"N	80°52'04.644"W	10557.11	171.970	0.82	-0.51	-0.64	
16408.00	89.940	162.420	6452.10	10481.98	-10544.09	1503.65	1677772.85	14289846.63	39°21'04.435"N	80°52'04.278"W	10650.77	171.884	0.27	-0.03	0.26	
16504.00	89.880	161.650	6452.25	10577.97	-10635.41	1533.26	1677802.44	14289755.35	39°21'03.532"N	80°52'03.902"W	10745.37	171.796	0.80	-0.06	-0.80	
16600.00	90.060	161.790	6452.30	10673.97	-10726.57	1563.37	1677832.54	14289664.23	39°21'02.631"N	80°52'03.521"W	10839.90	171.708	0.24	0.19	0.15	
16695.00	90.180	162.260	6452.10	10768.97	-10816.93	1592.69	1677861.85	14289573.90	39°21'01.737"N	80°52'03.149"W	10933.56	171.624	0.51	0.13	0.49	
16789.00	89.910	160.650	6452.02	10862.97	-10906.05	1622.58	1677891.73	14289484.82	39°21'00.856"N	80°52'02.770"W	11026.09	171.538	1.74	-0.29	-1.71	
16885.00	90.060	161.670	6452.05	10958.96	-10996.90	1653.58	1677922.72	14289394.00	39°20'59.958"N	80°52'02.377"W	11120.53	171.449	1.07	0.16	1.06	
16980.00	89.910	161.400	6452.07	11053.96	-11087.01	1683.67	1677952.80	14289303.93	39°20'59.067"N	80°52'01.996"W	11214.12	171.365	0.33	-0.16	-0.28	
17075.00	90.000	161.840	6452.15	11148.96	-11177.16	1713.63	1677982.74	14289213.81	39°20'58.175"N	80°52'01.616"W	11307.76	171.284	0.47	0.09	0.46	
17171.00	89.970	162.060	6452.17	11244.96	-11268.44	1743.37	1678012.47	14289122.57	39°20'57.273"N	80°52'01.240"W	11402.50	171.205	0.23	-0.03	0.23	
17266.00	90.030	161.410	6452.17	11339.96	-11358.65	1773.15	1678042.24	14289032.40	39°20'56.381"N	80°52'00.862"W	11496.22	171.127	0.69	0.06	-0.68	
17362.00	89.940	161.990	6452.20	11435.96	-11449.80	1803.29	1678072.37	14288941.29	39°20'55.479"N	80°52'00.480"W	11590.93	171.050	0.61	-0.09	0.60	
17456.00	89.970	161.530	6452.27	11529.96	-11539.07	1832.71	1678101.78	14288852.05	39°20'54.596"N	80°52'00.107"W	11683.71	170.975	0.49	0.03	-0.49	
17552.00	89.970	161.310	6452.32	11625.96	-11630.07	1863.30	1678132.35	14288761.09	39°20'53.697"N	80°51'59.720"W	11778.39	170.898	0.23	0.00	-0.23	
17648.00	89.940	161.390	6452.40	11721.96	-11721.03	1894.00	1678163.04	14288670.17	39°20'52.797"N	80°51'59.331"W	11873.07	170.821	0.09	-0.03	0.08	
17744.00	89.910	161.930	6452.52	11817.96	-11812.15	1924.21	1678193.24	14288579.08	39°20'51.896"N	80°51'58.948"W	11967.85	170.748	0.56	-0.03	0.56	
17839.00	89.910	161.870	6452.67	11912.96	-11902.45	1953.72	1678222.74	14288488.82	39°20'51.003"N	80°51'58.574"W	12061.73	170.678	0.06	0.00	-0.06	
17933.00	90.000	161.880	6452.75	12006.96	-11991.79	1982.96	1678251.97	14288399.52	39°20'50.120"N	80°51'58.203"W	12154.63	170.611	0.10	0.10	0.01	
18029.00	90.030	162.390	6452.72	12102.95	-12083.16	2012.41	1678281.41	14288308.18	39°20'49.216"N	80°51'57.830"W	12249.59	170.544	0.53	0.03	0.53	
18125.00	89.850	162.180	6452.82	12198.95	-12174.61	2041.62	1678310.61	14288216.77	39°20'48.312"N	80°51'57.460"W	12344.60	170.480	0.29	-0.19	-0.22	
18220.00	89.970	162.340	6452.97	12293.94	-12265.09	2070.57	1678339.54	14288126.32	39°20'47.417"N	80°51'57.093"W	12438.63	170.418	0.21	0.13	0.17	
18315.00	90.030	162.480	6452.97	12388.93	-12355.65	2099.28	1678368.24	14288035.80	39°20'46.522"N	80°51'56.730"W	12532.72	170.357	0.16	0.06	0.15	
18409.00	90.370	161.470	6452.64	12482.93	-12445.03	2128.37	1678397.31	14287946.45	39°20'45.638"N	80°51'56.361"W	12625.72	170.295	1.13	0.36	-1.07	
18504.00	90.310	157.770	6452.08	12577.85	-12534.07	2161.44	1678430.38	14287857.45	39°20'44.758"N	80°51'55.942"W	12719.07	170.216	3.90	-0.06	-3.89	
18600.00	90.490	153.520	6451.41	12673.30	-12621.50	2201.02	1678469.94	14287770.05	39°20'43.893"N	80°51'55.440"W	12811.98	170.108	4.43	0.19	-4.43	
18694.00	90.250	157.660	6450.80	12766.75	-12707.08	2239.86	1678508.76	14287684.51	39°20'43.046"N	80°51'54.947"W	12902.98	170.003	4.41	-0.26	4.40	
18789.00	90.220	160.810	6450.41	12861.65	-12795.90	2273.54	1678542.43	14287595.73	39°20'42.168"N	80°51'54.520"W	12996.30	169.925	3.32	-0.03	3.32	
18885.00	90.340	162.600	6449.94	12957.64	-12887.04	2303.67	1678572.55	14287504.62	39°20'41.267"N	80°51'54.138"W	13091.32	169.865	1.87	0.12	1.86	
18980.00	90.460	162.340	6449.28	13052.63	-12977.62	2332.28	1678601.15	14287414.07	39°20'40.371"N	80°51'53.776"W	13185.53	169.812	0.30	0.13	-0.27	



Actual Wellpath Report

Rodzina Unit 2H AWP Proj: 20567'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #10
Area	Tyler County, WV	Well	Rodzina Unit 2H
Field	Tyler	Wellbore	Rodzina Unit 2H AWB
Facility	Dawson Pad		

WELLPATH DATA (228 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
19075.00	90.220	161.820	6448.72	13147.63	-13068.01	2361.51	1678630.37	14287323.72	39°20'39.477"N	80°51'53.405"W	13279.67	169.757	0.60	-0.25	-0.55	
19170.00	90.150	162.040	6448.41	13242.62	-13158.33	2390.98	1678659.82	14287233.44	39°20'38.584"N	80°51'53.032"W	13373.79	169.701	0.24	-0.07	0.23	
19266.00	90.220	161.470	6448.10	13338.62	-13249.50	2421.04	1678689.87	14287142.31	39°20'37.683"N	80°51'52.651"W	13468.88	169.645	0.60	0.07	-0.59	
19361.00	90.250	163.210	6447.71	13433.61	-13340.02	2449.85	1678718.67	14287051.82	39°20'36.788"N	80°51'52.286"W	13563.11	169.594	1.83	0.03	1.83	
19456.00	90.220	163.480	6447.32	13528.57	-13431.03	2477.08	1678745.89	14286960.85	39°20'35.888"N	80°51'51.941"W	13657.55	169.550	0.29	-0.03	0.28	
19551.00	90.310	163.490	6446.88	13623.52	-13522.11	2504.09	1678772.88	14286869.80	39°20'34.987"N	80°51'51.599"W	13752.02	169.509	0.10	0.09	0.01	
19647.00	90.430	163.070	6446.26	13719.48	-13614.05	2531.70	1678800.49	14286777.90	39°20'34.078"N	80°51'51.249"W	13847.45	169.465	0.45	0.12	-0.44	
19742.00	90.310	163.710	6445.65	13814.44	-13705.09	2558.86	1678827.64	14286686.90	39°20'33.178"N	80°51'50.906"W	13941.92	169.424	0.69	-0.13	0.67	
19838.00	90.280	163.200	6445.15	13910.39	-13797.11	2586.20	1678854.96	14286594.92	39°20'32.268"N	80°51'50.559"W	14037.40	169.383	0.53	-0.03	-0.53	
19933.00	89.600	163.390	6445.25	14005.35	-13888.10	2613.50	1678882.26	14286503.96	39°20'31.368"N	80°51'50.214"W	14131.87	169.343	0.74	-0.72	0.20	
20028.00	89.630	163.650	6445.89	14100.30	-13979.19	2640.45	1678909.20	14286412.90	39°20'30.467"N	80°51'49.872"W	14226.38	169.304	0.28	0.03	0.27	
20124.00	89.290	162.810	6446.80	14196.26	-14071.11	2668.15	1678936.88	14286321.03	39°20'29.559"N	80°51'49.522"W	14321.84	169.263	0.94	-0.35	-0.87	
20218.00	89.380	163.760	6447.89	14290.21	-14161.13	2695.18	1678963.90	14286231.04	39°20'28.668"N	80°51'49.179"W	14415.32	169.224	1.02	0.10	1.01	
20312.00	89.450	163.240	6448.85	14384.16	-14251.25	2721.88	1678990.59	14286140.96	39°20'27.777"N	80°51'48.841"W	14508.85	169.187	0.56	0.07	-0.55	
20407.00	89.480	163.060	6449.73	14479.12	-14342.17	2749.42	1679018.12	14286050.08	39°20'26.878"N	80°51'48.492"W	14603.32	169.148	0.19	0.03	-0.19	
20503.00	89.260	163.420	6450.79	14575.08	-14434.09	2777.10	1679045.79	14285958.20	39°20'25.969"N	80°51'48.142"W	14698.81	169.109	0.44	-0.23	0.38	
20542.00	89.510	163.670	6451.21	14614.06	-14471.49	2788.14	1679056.83	14285920.81	39°20'25.600"N	80°51'48.002"W	14737.63	169.095	0.91	0.64	0.64	
20567.00	89.510	163.670	6451.42	14639.04	-14495.48	2795.17	1679063.85	14285896.83	39°20'25.362"N	80°51'47.913"W	14762.51	169.086	0.00	0.00	0.00	Projected MD at TD: 20567'



Actual Wellpath Report

Rodzina Unit 2H AWP Proj: 20567'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #10
Area	Tyler County, WV	Well	Rodzina Unit 2H
Field	Tyler	Wellbore	Rodzina Unit 2H AWB
Facility	Dawson Pad		

HOLE & CASING SECTIONS - Ref Wellbore: Rodzina Unit 2H AWB Ref Wellpath: Rodzina Unit 2H AWP Proj: 20567'									
String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
20in Conductor	30.00	110.00	80.00	30.00	110.00	0.00	0.00	0.07	0.01
17.5in Open Hole	110.00	597.60	487.60	110.00	597.60	0.07	0.01	0.51	-0.31
13.375in Casing Surface	30.00	597.60	567.60	30.00	597.60	0.00	0.00	0.51	-0.31
12.25in Open Hole	597.60	2610.00	2012.40	597.60	2576.36	0.51	-0.31	-220.37	-267.66
9.625in Casing Intermediate	30.00	2610.00	2580.00	30.00	2576.36	0.00	0.00	-220.37	-267.66
8.75in Open Hole	2610.00	6494.00	3884.00	2576.36	6120.90	-220.37	-267.66	-1227.95	-1436.02
8.5in Open Hole	6494.00	20567.00	14073.00	6120.90	6451.42	-1227.95	-1436.02	-14495.48	2795.17
5.5in Casing Production	30.00	20567.00	20537.00	30.00	6451.42	0.00	0.00	-14495.48	2795.17

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Rodzina Unit 2H POE Rev-2	6453.00	-1680.20	-1430.39	1674839.98	14298706.97	39°22'32.083"N	80°52'41.475"W	point
Rodzina Unit 2H BHL Rev-1	6478.00	-14501.28	2802.31	1679070.99	14285891.03	39°20'25.305"N	80°51'47.822"W	point

WELLPATH COMPOSITION - Ref Wellbore: Rodzina Unit 2H AWB Ref Wellpath: Rodzina Unit 2H AWP Proj: 20567'				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
30.00	589.00	Gyrodata standard - Drop gyro or Multi-shot	01_Gyrodata MS Gyro <17-1/2">(100'-574')	Rodzina Unit 2H AWB
589.00	2526.00	OWSG MWD rev2 + HRGM	02_WFT EM <12-1/4">(574')(660'-2511')	Rodzina Unit 2H AWB
2526.00	6419.00	OWSG MWD rev2 + HRGM	03_WFT EM <8-3/4">(2511')(2645'-6404')	Rodzina Unit 2H AWB
6419.00	20542.00	BHI AutoTrak Curve (Short)	04_BH AT Curve <8-1/2">(6419')(6515'-20542')	Rodzina Unit 2H AWB
20542.00	20567.00	Blind Drilling (std)	Projection to bit	Rodzina Unit 2H AWB



Actual Wellpath Report

Rodzina Unit 2H AWP Proj: 20567'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #10
Area	Tyler County, WV	Well	Rodzina Unit 2H
Field	Tyler	Wellbore	Rodzina Unit 2H AWB
Facility	Dawson Pad		

COMMENTS
<p>Wellpath general comments API: 47-095-02586-0000 BHI Job #: 109933266 Rig: H&P 519 Duration: 07/22/2019-07/25/2019 Gyrodata MS Gyro <17-1/2">(100'-574') WFT EM <12-1/4">(574')(660'-2511') WFT EM <8-3/4">(2511')(2645'-6404') BH AT Curve <8-1/2">(6419')(6515'-20542') Middlesex: 6700' MD Burkett: 6919' MD Tully: 7004' MD Marcellus POE: 7107' MD Projected MD at TD: 20567'</p>