



Actual Wellpath Report

Genny Unit 2H AWP Proj: 21514'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #05
Area	Ritchie County, WV	Well	Genny Unit 2H
Field	Ritchie	Wellbore	Genny Unit 2H AWB
Facility	Lynn Camp Pad		

REPORT SETUP INFORMATION			
Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect® 5.1
North Reference	Grid	User	Delaset
Scale	0.999600	Report Generated	6/12/2019 at 12:19:11 PM
Convergence at slot	0.03° East	Database/Source file	WA_MPL_EasternUS_Defn/Genny_Unit_2H_AWP_Proj_21514_.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	13.16	7.86	1655932.08	14239839.20	39°12'50.200"N	80°56'42.800"W
Facility Reference Pt			1655924.22	14239826.05	39°12'50.070"N	80°56'42.900"W
Field Reference Pt			0.00	0.00	0°00'00.000"	85°29'19.301"W

WELLPATH DATUM			
Calculation method	Minimum curvature	Patterson 342 (RKB) to Facility Vertical Datum	25.00ft
Horizontal Reference Pt	Slot	Patterson 342 (RKB) to Mean Sea Level	1174.00ft
Vertical Reference Pt	Patterson 342 (RKB)	Patterson 342 (RKB) to Ground Level at Slot (Slot #05)	25.00ft
MD Reference Pt	Patterson 342 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	341.11°

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Area	Ritchie County, WV	Well	Genny Unit 2H
Field	Ritchie	Wellbore	Genny Unit 2H AWB
Facility	Lynn Camp Pad		

WELLPATH DATA (262 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	0.00	257.050	0.00	0.00	0.00	0.00	1655932.08	14239839.20	39°12'50.200"N	80°56'42.800"W	0.00	0.000	0.00	0.00	0.00	
25.00	0.000	257.050	25.00	0.00	0.00	0.00	1655932.08	14239839.20	39°12'50.200"N	80°56'42.800"W	0.00	0.000	0.00	0.00	0.00	
110.00	0.050	257.050	110.00	0.00	-0.01	-0.04	1655932.05	14239839.19	39°12'50.200"N	80°56'42.800"W	0.04	257.050	0.06	0.06	-121.12	Gyrodata MS Gyro <17-1/2">(100'-542')
135.00	0.060	195.110	135.00	-0.01	-0.02	-0.05	1655932.03	14239839.18	39°12'50.200"N	80°56'42.801"W	0.06	245.009	0.23	0.04	-247.76	
160.00	0.070	216.100	160.00	-0.03	-0.05	-0.06	1655932.02	14239839.15	39°12'50.200"N	80°56'42.801"W	0.08	232.306	0.10	0.04	83.96	
185.00	0.030	216.100	185.00	-0.04	-0.07	-0.08	1655932.01	14239839.13	39°12'50.199"N	80°56'42.801"W	0.10	228.824	0.16	-0.16	0.00	
210.00	0.100	225.620	210.00	-0.05	-0.09	-0.09	1655931.99	14239839.11	39°12'50.199"N	80°56'42.801"W	0.13	227.637	0.28	0.28	38.08	
235.00	0.010	30.540	235.00	-0.06	-0.10	-0.11	1655931.97	14239839.10	39°12'50.199"N	80°56'42.801"W	0.15	227.588	0.44	-0.36	659.68	
260.00	0.110	273.540	260.00	-0.05	-0.10	-0.13	1655931.95	14239839.10	39°12'50.199"N	80°56'42.802"W	0.16	233.860	0.46	0.40	-468.00	
285.00	0.060	324.940	285.00	-0.03	-0.08	-0.16	1655931.92	14239839.12	39°12'50.199"N	80°56'42.802"W	0.18	242.735	0.35	-0.20	205.60	
310.00	0.100	301.780	310.00	0.00	-0.06	-0.19	1655931.89	14239839.14	39°12'50.199"N	80°56'42.802"W	0.20	251.863	0.20	0.16	-92.64	
335.00	0.070	142.810	335.00	0.00	-0.06	-0.20	1655931.88	14239839.14	39°12'50.199"N	80°56'42.803"W	0.21	252.482	0.67	-0.12	-635.88	
360.00	0.030	256.980	360.00	-0.01	-0.08	-0.20	1655931.89	14239839.12	39°12'50.199"N	80°56'42.802"W	0.21	248.707	0.35	-0.16	456.68	
385.00	0.100	350.020	385.00	0.01	-0.06	-0.21	1655931.88	14239839.14	39°12'50.199"N	80°56'42.803"W	0.21	254.698	0.42	0.28	372.16	
410.00	0.050	13.320	410.00	0.04	-0.02	-0.21	1655931.87	14239839.18	39°12'50.200"N	80°56'42.803"W	0.21	263.308	0.23	-0.20	93.20	
435.00	0.040	168.860	435.00	0.04	-0.02	-0.20	1655931.88	14239839.18	39°12'50.200"N	80°56'42.803"W	0.20	263.741	0.35	-0.04	622.16	
460.00	0.080	331.900	460.00	0.05	-0.02	-0.21	1655931.87	14239839.19	39°12'50.200"N	80°56'42.803"W	0.21	265.784	0.48	0.16	652.16	
485.00	0.100	278.550	485.00	0.08	0.00	-0.24	1655931.84	14239839.20	39°12'50.200"N	80°56'42.803"W	0.24	270.755	0.33	0.08	-213.40	
510.00	0.170	198.730	510.00	0.06	-0.03	-0.27	1655931.81	14239839.17	39°12'50.200"N	80°56'42.803"W	0.27	264.000	0.73	0.28	-319.28	
535.00	0.050	94.160	535.00	0.03	-0.06	-0.27	1655931.81	14239839.14	39°12'50.199"N	80°56'42.803"W	0.28	256.741	0.76	-0.48	-418.28	
552.00	0.110	58.700	552.00	0.03	-0.06	-0.25	1655931.83	14239839.14	39°12'50.199"N	80°56'42.803"W	0.26	257.367	0.44	0.35	-208.59	
692.00	0.110	116.080	692.00	-0.04	-0.05	-0.02	1655932.06	14239839.16	39°12'50.200"N	80°56'42.800"W	0.05	200.754	0.08	0.00	40.99	WFT EM <12-1/4">(542')(682'-2562')
785.00	0.690	245.040	785.00	-0.16	-0.32	-0.44	1655931.64	14239838.88	39°12'50.197"N	80°56'42.806"W	0.55	234.147	0.82	0.62	138.67	
877.00	2.080	235.260	876.97	-0.67	-1.51	-2.32	1655929.76	14239837.69	39°12'50.185"N	80°56'42.829"W	2.77	236.989	1.53	1.51	-10.63	
975.00	3.770	228.380	974.84	-2.41	-4.66	-6.19	1655925.90	14239834.54	39°12'50.154"N	80°56'42.879"W	7.75	233.022	1.76	1.72	-7.02	
1070.00	5.270	230.100	1069.54	-5.18	-9.53	-11.87	1655920.22	14239829.67	39°12'50.106"N	80°56'42.951"W	15.23	231.234	1.59	1.58	1.81	
1164.00	6.860	233.660	1163.01	-8.41	-15.63	-19.71	1655912.38	14239823.58	39°12'50.046"N	80°56'43.050"W	25.15	231.580	1.74	1.69	3.79	
1259.00	8.730	234.190	1257.13	-12.21	-23.21	-30.12	1655901.97	14239816.00	39°12'49.971"N	80°56'43.183"W	38.03	232.385	1.97	1.97	0.56	
1353.00	10.820	233.250	1349.76	-16.99	-32.66	-42.98	1655889.12	14239806.55	39°12'49.877"N	80°56'43.346"W	53.98	232.765	2.23	2.22	-1.00	
1448.00	12.270	237.190	1442.84	-22.15	-43.47	-58.61	1655873.50	14239795.75	39°12'49.771"N	80°56'43.545"W	72.97	233.436	1.74	1.53	4.15	

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Area	Ritchie County, WV		Well	Genny Unit 2H
Field	Ritchie		Wellbore	Genny Unit 2H AWB
Facility	Lynn Camp Pad			

WELLPATH DATA (262 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	
1543.00	14.420	239.950	1535.27	-26.87	-54.86	-77.34	1655854.78	14239784.36	39°12'49.658"N	80°56'43.783"W	94.82	234.646	2.36	2.26	2.91		
1638.00	16.500	238.800	1626.82	-32.04	-67.78	-99.12	1655833.01	14239771.45	39°12'49.531"N	80°56'44.060"W	120.07	235.635	2.21	2.19	-1.21		
1733.00	17.640	240.380	1717.64	-37.60	-81.88	-123.17	1655808.96	14239757.35	39°12'49.391"N	80°56'44.365"W	147.90	236.385	1.30	1.20	1.66		
1827.00	19.660	239.180	1806.70	-43.52	-97.02	-149.13	1655783.01	14239742.22	39°12'49.242"N	80°56'44.695"W	177.92	236.953	2.19	2.15	-1.28		
1922.00	20.210	235.840	1896.01	-51.14	-114.43	-176.44	1655755.72	14239724.82	39°12'49.070"N	80°56'45.042"W	210.29	237.035	1.33	0.58	-3.52		
2017.00	18.840	233.070	1985.54	-60.21	-132.86	-202.28	1655729.89	14239706.40	39°12'48.888"N	80°56'45.371"W	242.01	236.703	1.74	-1.44	-2.92		
2111.00	20.180	233.830	2074.15	-69.73	-151.55	-227.50	1655704.67	14239687.71	39°12'48.703"N	80°56'45.692"W	273.36	236.331	1.45	1.43	0.81		
2206.00	19.270	233.340	2163.57	-79.38	-170.58	-253.30	1655678.88	14239668.69	39°12'48.516"N	80°56'46.019"W	305.39	236.043	0.97	-0.96	-0.52		
2301.00	17.120	235.520	2253.82	-87.93	-187.86	-277.41	1655654.78	14239651.42	39°12'48.345"N	80°56'46.326"W	335.03	235.895	2.37	-2.26	2.29		
2396.00	17.010	235.620	2344.63	-95.40	-203.62	-300.40	1655631.80	14239635.66	39°12'48.189"N	80°56'46.618"W	362.91	235.870	0.12	-0.12	0.11		
2491.00	18.470	233.830	2435.11	-103.58	-220.35	-324.02	1655608.19	14239618.94	39°12'48.024"N	80°56'46.918"W	391.85	235.783	1.64	1.54	-1.88		
2572.00	17.250	232.120	2512.21	-111.30	-235.29	-343.86	1655588.36	14239604.00	39°12'47.876"N	80°56'47.170"W	416.66	235.617	1.64	-1.51	-2.11		
2727.00	15.490	228.380	2660.92	-126.77	-263.16	-377.48	1655554.76	14239576.15	39°12'47.601"N	80°56'47.598"W	460.15	235.118	1.32	-1.14	-2.41	WFT EM <8-3/4">(2562')(2717'-6159')	
2821.00	17.630	231.180	2751.02	-136.48	-280.42	-397.95	1655534.29	14239558.89	39°12'47.431"N	80°56'47.858"W	486.83	234.829	2.43	2.28	2.96		
2916.00	19.740	233.710	2841.01	-146.18	-298.94	-422.10	1655510.16	14239540.39	39°12'47.248"N	80°56'48.165"W	517.23	234.693	2.38	2.22	2.66		
3011.00	20.530	233.580	2930.20	-156.00	-318.32	-448.43	1655483.83	14239521.01	39°12'47.056"N	80°56'48.500"W	549.93	234.631	0.83	0.83	-0.14		
3107.00	19.690	232.820	3020.35	-166.14	-338.09	-474.86	1655457.41	14239501.25	39°12'46.861"N	80°56'48.836"W	582.92	234.550	0.92	-0.87	-0.79		
3201.00	20.140	233.700	3108.73	-175.95	-357.24	-500.52	1655431.76	14239482.11	39°12'46.672"N	80°56'49.162"W	614.93	234.483	0.58	0.48	0.94		
3296.00	20.000	231.740	3197.96	-186.24	-376.98	-526.46	1655405.83	14239462.37	39°12'46.477"N	80°56'49.491"W	647.52	234.395	0.72	-0.16	-2.06		
3390.00	19.240	234.410	3286.51	-196.02	-395.95	-551.68	1655380.63	14239443.41	39°12'46.290"N	80°56'49.812"W	679.06	234.332	1.25	-0.81	2.84		
3485.00	20.020	236.750	3375.99	-204.55	-413.98	-578.01	1655354.31	14239425.39	39°12'46.112"N	80°56'50.147"W	710.96	234.389	1.17	0.82	2.46		
3579.00	19.900	235.210	3464.34	-212.92	-431.93	-604.60	1655327.72	14239407.45	39°12'45.934"N	80°56'50.485"W	743.04	234.458	0.57	-0.13	-1.64		
3674.00	18.920	232.130	3553.94	-222.36	-450.61	-630.04	1655302.30	14239388.77	39°12'45.750"N	80°56'50.808"W	774.59	234.427	1.49	-1.03	-3.24		
3768.00	19.060	235.970	3642.83	-231.33	-468.55	-654.79	1655277.55	14239370.84	39°12'45.573"N	80°56'51.122"W	805.17	234.413	1.34	0.15	4.09		
3863.00	18.780	234.150	3732.70	-239.84	-486.19	-680.04	1655252.31	14239353.21	39°12'45.399"N	80°56'51.443"W	835.96	234.437	0.69	-0.29	-1.92		
3957.00	18.380	235.730	3821.80	-248.18	-503.40	-704.55	1655227.81	14239336.01	39°12'45.229"N	80°56'51.755"W	865.91	234.455	0.68	-0.43	1.68		
4052.00	18.890	233.520	3911.82	-256.80	-520.97	-729.30	1655203.08	14239318.44	39°12'45.055"N	80°56'52.069"W	896.26	234.460	0.92	0.54	-2.33		
4146.00	18.890	235.350	4000.76	-265.53	-538.67	-754.05	1655178.34	14239300.75	39°12'44.880"N	80°56'52.384"W	926.69	234.459	0.63	0.00	1.95		
4241.00	19.320	238.010	4090.53	-273.27	-555.74	-780.03	1655152.37	14239283.68	39°12'44.712"N	80°56'52.714"W	957.75	234.532	1.02	0.45	2.80		
4336.00	18.630	236.720	4180.36	-280.61	-572.39	-806.04	1655126.36	14239267.04	39°12'44.547"N	80°56'53.045"W	988.60	234.620	0.85	-0.73	-1.36		

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Area	Ritchie County, WV		Well	Genny Unit 2H
Field	Ritchie		Wellbore	Genny Unit 2H AWB
Facility	Lynn Camp Pad			

WELLPATH DATA (262 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
4431.00	17.710	233.750	4270.63	-288.69	-589.26	-830.38	1655102.03	14239250.17	39°12'44.381"N	80°56'53.354"W	1018.22	234.639	1.37	-0.97	-3.13	
4528.00	18.210	233.430	4362.90	-297.69	-607.02	-854.45	1655077.97	14239232.43	39°12'44.205"N	80°56'53.660"W	1048.12	234.609	0.53	0.52	-0.33	
4622.00	18.140	233.650	4452.21	-306.55	-624.44	-878.03	1655054.40	14239215.01	39°12'44.033"N	80°56'53.960"W	1077.44	234.580	0.10	-0.07	0.23	
4717.00	18.460	233.560	4542.41	-315.52	-642.14	-902.05	1655030.40	14239197.32	39°12'43.858"N	80°56'54.265"W	1107.26	234.554	0.34	0.34	-0.09	
4812.00	18.910	235.620	4632.40	-324.16	-659.77	-926.85	1655005.60	14239179.70	39°12'43.684"N	80°56'54.580"W	1137.69	234.555	0.84	0.47	2.17	
4906.00	18.590	234.200	4721.41	-332.59	-677.13	-951.57	1654980.89	14239162.34	39°12'43.513"N	80°56'54.894"W	1167.91	234.565	0.59	-0.34	-1.51	
5001.00	18.740	235.190	4811.41	-341.18	-694.70	-976.39	1654956.09	14239144.78	39°12'43.339"N	80°56'55.210"W	1198.31	234.568	0.37	0.16	1.04	
5096.00	18.500	232.600	4901.44	-350.15	-712.57	-1000.89	1654931.60	14239126.92	39°12'43.163"N	80°56'55.521"W	1228.63	234.552	0.91	-0.25	-2.73	
5190.00	18.950	233.060	4990.47	-359.62	-730.80	-1024.94	1654907.56	14239108.69	39°12'42.983"N	80°56'55.827"W	1258.79	234.510	0.50	0.48	0.49	
5285.00	18.800	235.010	5080.36	-368.64	-748.85	-1049.81	1654882.70	14239090.65	39°12'42.805"N	80°56'56.143"W	1289.52	234.499	0.68	-0.16	2.05	
5379.00	18.870	233.140	5169.33	-377.53	-766.65	-1074.38	1654858.14	14239072.86	39°12'42.629"N	80°56'56.455"W	1319.86	234.489	0.65	0.07	-1.99	
5474.00	18.580	234.160	5259.30	-386.68	-784.73	-1098.94	1654833.59	14239054.79	39°12'42.450"N	80°56'56.767"W	1350.36	234.470	0.46	-0.31	1.07	
5569.00	18.690	236.760	5349.32	-394.87	-801.94	-1123.94	1654808.60	14239037.59	39°12'42.280"N	80°56'57.085"W	1380.70	234.492	0.88	0.12	2.74	
5664.00	18.320	234.720	5439.41	-402.85	-818.90	-1148.86	1654783.69	14239020.63	39°12'42.113"N	80°56'57.402"W	1410.84	234.519	0.78	-0.39	-2.15	
5758.00	18.010	232.640	5528.73	-411.63	-836.25	-1172.47	1654760.09	14239003.28	39°12'41.941"N	80°56'57.702"W	1440.14	234.502	0.76	-0.33	-2.21	
5853.00	17.770	231.330	5619.13	-421.18	-854.22	-1195.46	1654737.10	14238985.32	39°12'41.764"N	80°56'57.994"W	1469.29	234.452	0.49	-0.25	-1.38	
5885.00	16.720	237.400	5649.70	-423.93	-859.76	-1203.15	1654729.41	14238979.79	39°12'41.709"N	80°56'58.092"W	1478.77	234.451	6.51	-3.28	18.97	
5916.00	15.850	246.060	5679.46	-425.36	-863.88	-1210.78	1654721.79	14238975.67	39°12'41.689"N	80°56'58.189"W	1487.37	234.493	8.31	-2.81	27.94	
5948.00	15.630	257.150	5710.26	-425.29	-866.61	-1218.98	1654713.60	14238972.94	39°12'41.642"N	80°56'58.293"W	1495.63	234.590	9.41	-0.69	34.66	
5980.00	15.670	268.610	5741.08	-423.54	-867.67	-1227.50	1654705.07	14238971.88	39°12'41.631"N	80°56'58.401"W	1503.20	234.745	9.65	0.12	35.81	
6011.00	15.800	279.750	5770.93	-420.25	-867.06	-1235.85	1654696.73	14238972.49	39°12'41.637"N	80°56'58.507"W	1509.67	234.947	9.74	0.42	35.94	
6043.00	16.710	287.070	5801.65	-415.46	-864.97	-1244.54	1654688.04	14238974.58	39°12'41.658"N	80°56'58.618"W	1515.61	235.200	7.00	2.84	22.87	
6074.00	18.610	292.560	5831.19	-409.57	-861.77	-1253.37	1654679.22	14238977.78	39°12'41.690"N	80°56'58.730"W	1521.05	235.489	8.14	6.13	17.71	
6106.00	20.930	298.240	5861.31	-402.00	-857.10	-1263.12	1654669.47	14238982.44	39°12'41.736"N	80°56'58.854"W	1526.47	235.841	9.41	7.25	17.75	
6138.00	23.720	303.620	5890.91	-392.70	-850.83	-1273.52	1654659.07	14238988.71	39°12'41.798"N	80°56'58.986"W	1531.59	236.253	10.80	8.72	16.81	
6169.00	26.490	307.920	5918.98	-381.97	-843.13	-1284.17	1654648.43	14238996.41	39°12'41.874"N	80°56'59.121"W	1536.22	236.713	10.69	8.94	13.87	
6222.00	28.090	309.900	5966.08	-361.40	-827.86	-1303.07	1654629.54	14239011.68	39°12'42.025"N	80°56'59.361"W	1543.81	237.572	3.47	3.02	3.74	BH AT Curve <8-1/2"> (6169')/(6222'-21489')
6296.00	30.420	321.150	6030.69	-328.86	-802.07	-1328.21	1654604.41	14239037.45	39°12'42.280"N	80°56'59.680"W	1551.60	238.873	8.06	3.15	15.20	
6342.00	32.650	327.340	6069.90	-305.85	-782.55	-1342.22	1654590.41	14239056.97	39°12'42.473"N	80°56'59.858"W	1553.68	239.757	8.54	4.85	13.46	
6390.00	36.160	328.950	6109.50	-279.43	-759.51	-1356.51	1654576.11	14239080.00	39°12'42.701"N	80°57'00.040"W	1554.66	240.756	7.55	7.31	3.35	

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Genny Unit 2H AWP Proj: 21514'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #05
Area	Ritchie County, WV	Well	Genny Unit 2H
Field	Ritchie	Wellbore	Genny Unit 2H AWB
Facility	Lynn Camp Pad		

WELLPATH DATA (262 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
6437.00	39.710	329.600	6146.56	-251.15	-734.67	-1371.27	1654561.37	14239104.83	39°12'42.946"N	80°57'00.227"W	1555.67	241.819	7.60	7.55	1.38	
6485.00	43.210	333.200	6182.54	-219.83	-706.76	-1386.44	1654546.20	14239132.72	39°12'43.222"N	80°57'00.419"W	1556.19	242.989	8.82	7.29	7.50	
6531.00	47.440	335.630	6214.87	-187.36	-677.26	-1400.54	1654532.10	14239162.21	39°12'43.514"N	80°57'00.598"W	1555.70	244.193	9.93	9.20	5.28	
6554.00†	49.539	336.514	6230.11	-170.20	-661.52	-1407.52	1654525.12	14239177.95	39°12'43.670"N	80°57'00.687"W	1555.23	244.827	9.57	9.13	3.85	Middlesex: 6554' MD
6580.00	51.920	337.450	6246.57	-150.13	-642.99	-1415.39	1654517.26	14239196.47	39°12'43.853"N	80°57'00.787"W	1554.60	245.568	9.57	9.16	3.60	
6626.00	56.500	339.660	6273.47	-112.86	-608.27	-1429.01	1654503.65	14239231.18	39°12'44.196"N	80°57'00.960"W	1553.08	246.943	10.69	9.96	4.80	
6674.00	61.230	339.660	6298.28	-71.80	-569.75	-1443.29	1654489.38	14239269.68	39°12'44.577"N	80°57'01.141"W	1551.67	248.458	9.85	9.85	0.00	
6721.00	65.880	339.660	6319.20	-29.74	-530.31	-1457.91	1654474.76	14239309.11	39°12'44.967"N	80°57'01.326"W	1551.36	250.011	9.89	9.89	0.00	
6750.00†	68.454	340.085	6330.46	-3.02	-505.21	-1467.10	1654465.57	14239334.19	39°12'45.215"N	80°57'01.443"W	1551.66	250.998	8.98	8.88	1.47	Burkett: 6750' MD
6770.00	70.230	340.370	6337.51	15.69	-487.60	-1473.43	1654459.24	14239351.79	39°12'45.389"N	80°57'01.523"W	1552.02	251.689	8.98	8.88	1.42	
6816.00	74.460	340.450	6351.46	59.51	-446.32	-1488.13	1654444.55	14239393.06	39°12'45.797"N	80°57'01.710"W	1553.62	253.305	9.20	9.20	0.17	
6847.00†	75.763	340.577	6359.43	89.46	-418.07	-1498.12	1654434.56	14239421.30	39°12'46.076"N	80°57'01.836"W	1555.36	254.407	4.22	4.20	0.41	Tully: 6847' MD
6865.00	76.520	340.650	6363.74	106.94	-401.59	-1503.92	1654428.76	14239437.77	39°12'46.239"N	80°57'01.910"W	1556.62	255.049	4.22	4.20	0.41	
6911.00	77.130	337.720	6374.22	151.70	-359.73	-1519.84	1654412.86	14239479.62	39°12'46.653"N	80°57'02.112"W	1561.83	256.684	6.34	1.33	-6.37	
6927.00†	78.034	336.831	6377.66	167.29	-345.32	-1525.87	1654406.82	14239494.02	39°12'46.796"N	80°57'02.188"W	1564.46	257.248	7.83	5.65	-5.56	Marcellus POE: 6927' MD
6959.00	79.850	335.070	6383.80	198.56	-316.64	-1538.67	1654394.03	14239522.69	39°12'47.079"N	80°57'02.351"W	1570.91	258.372	7.83	5.68	-5.50	
7005.00	82.590	335.540	6390.82	243.79	-275.34	-1557.66	1654375.05	14239563.97	39°12'47.487"N	80°57'02.592"W	1581.81	259.976	6.04	5.96	1.02	
7053.00	85.130	337.530	6395.96	291.35	-231.57	-1576.66	1654356.05	14239607.73	39°12'47.920"N	80°57'02.833"W	1593.58	261.645	6.71	5.29	4.15	
7100.00	86.310	338.400	6399.46	338.15	-188.12	-1594.25	1654338.48	14239651.15	39°12'48.350"N	80°57'03.056"W	1605.31	263.270	3.12	2.51	1.85	
7148.00	90.150	339.990	6400.95	386.09	-143.28	-1611.28	1654321.45	14239695.98	39°12'48.793"N	80°57'03.272"W	1617.64	264.918	8.66	8.00	3.31	
7244.00	90.710	339.430	6400.23	482.06	-53.24	-1644.57	1654288.17	14239785.98	39°12'49.683"N	80°57'03.694"W	1645.43	268.146	0.82	0.58	-0.58	
7338.00	90.680	333.120	6399.09	575.67	32.76	-1682.37	1654250.39	14239871.95	39°12'50.533"N	80°57'04.174"W	1682.69	271.116	6.71	-0.03	-6.71	
7433.00	90.680	326.590	6397.96	668.78	114.86	-1730.05	1654202.73	14239954.02	39°12'51.345"N	80°57'04.779"W	1733.86	273.799	6.87	0.00	-6.87	
7527.00	90.620	332.540	6396.89	760.84	195.87	-1777.64	1654155.16	14240034.99	39°12'52.146"N	80°57'05.383"W	1788.40	276.288	6.33	-0.06	6.33	
7623.00	90.550	340.860	6395.91	856.46	283.96	-1815.58	1654117.23	14240123.05	39°12'53.017"N	80°57'05.865"W	1837.65	278.889	8.67	-0.07	8.67	
7717.00	90.980	344.210	6394.65	950.41	373.60	-1843.78	1654089.04	14240212.66	39°12'53.903"N	80°57'06.222"W	1881.25	281.455	3.59	0.46	3.56	
7811.00	91.750	344.280	6392.41	1044.24	464.05	-1869.30	1654063.53	14240303.06	39°12'54.797"N	80°57'06.546"W	1926.04	283.942	0.82	0.82	0.07	
7907.00	89.940	343.490	6391.00	1140.12	556.26	-1895.94	1654036.90	14240395.24	39°12'55.709"N	80°57'06.884"W	1975.86	286.351	2.06	-1.89	-0.82	
8002.00	90.740	342.520	6390.43	1235.06	647.11	-1923.71	1654009.15	14240486.05	39°12'56.607"N	80°57'07.236"W	2029.63	288.592	1.32	0.84	-1.02	
8096.00	90.680	341.780	6389.27	1329.04	736.58	-1952.52	1653980.35	14240575.48	39°12'57.491"N	80°57'07.601"W	2086.83	290.669	0.79	-0.06	-0.79	

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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Slot	Slot #05
Area	Ritchie County, WV		Well	Genny Unit 2H
Field	Ritchie		Wellbore	Genny Unit 2H AWB
Facility	Lynn Camp Pad			

WELLPATH DATA (262 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
8190.00	90.740	340.960	6388.10	1423.03	825.64	-1982.54	1653950.33	14240664.51	39°12'58.372"N	80°57'07.982"W	2147.60	292.610	0.87	0.06	-0.87	
8286.00	90.710	340.610	6386.89	1519.02	916.29	-2014.14	1653918.75	14240755.12	39°12'59.268"N	80°57'08.383"W	2212.76	294.462	0.37	-0.03	-0.36	
8381.00	90.680	340.420	6385.74	1614.01	1005.84	-2045.82	1653887.08	14240844.64	39°13'00.153"N	80°57'08.785"W	2279.72	296.181	0.20	-0.03	-0.20	
8476.00	90.710	340.390	6384.58	1708.99	1095.33	-2077.68	1653855.24	14240934.09	39°13'01.038"N	80°57'09.189"W	2348.72	297.798	0.04	0.03	-0.03	
8570.00	90.770	340.990	6383.37	1802.98	1184.03	-2108.76	1653824.17	14241022.76	39°13'01.915"N	80°57'09.584"W	2418.43	299.313	0.64	0.06	0.64	
8665.00	90.710	341.850	6382.14	1897.97	1274.08	-2139.03	1653793.91	14241112.76	39°13'02.805"N	80°57'09.968"W	2489.72	300.779	0.91	-0.06	0.91	
8761.00	91.050	341.210	6380.67	1993.96	1365.12	-2169.44	1653763.52	14241203.77	39°13'03.705"N	80°57'10.353"W	2563.20	302.180	0.75	0.35	-0.67	
8856.00	90.710	342.690	6379.21	2088.93	1455.43	-2198.87	1653734.10	14241294.05	39°13'04.597"N	80°57'10.727"W	2636.91	303.501	1.60	-0.36	1.56	
8950.00	90.680	343.770	6378.07	2182.86	1545.42	-2225.99	1653706.99	14241384.00	39°13'05.487"N	80°57'11.071"W	2709.86	304.771	1.15	-0.03	1.15	
9045.00	90.620	344.170	6376.99	2277.74	1636.72	-2252.22	1653680.77	14241475.27	39°13'06.390"N	80°57'11.403"W	2784.13	306.007	0.43	-0.06	0.42	
9140.00	90.090	342.890	6376.40	2372.65	1727.82	-2279.15	1653653.85	14241566.33	39°13'07.290"N	80°57'11.745"W	2860.05	307.166	1.46	-0.56	-1.35	
9236.00	90.250	341.830	6376.12	2468.62	1819.31	-2308.24	1653624.77	14241657.78	39°13'08.195"N	80°57'12.114"W	2939.02	308.244	1.12	0.17	-1.10	
9331.00	89.720	341.230	6376.14	2563.62	1909.41	-2338.34	1653594.68	14241747.85	39°13'09.085"N	80°57'12.496"W	3018.89	309.234	0.84	-0.56	-0.63	
9426.00	90.250	341.560	6376.17	2658.62	1999.45	-2368.65	1653564.38	14241837.85	39°13'09.975"N	80°57'12.880"W	3099.72	310.169	0.66	0.56	0.35	
9521.00	90.220	341.620	6375.78	2753.61	2089.58	-2398.65	1653534.39	14241927.95	39°13'10.866"N	80°57'13.261"W	3181.18	311.061	0.07	-0.03	0.06	
9616.00	90.180	341.010	6375.45	2848.61	2179.58	-2429.09	1653503.97	14242017.90	39°13'11.756"N	80°57'13.647"W	3263.59	311.901	0.64	-0.04	-0.64	
9711.00	90.220	340.440	6375.12	2943.61	2269.25	-2460.44	1653472.63	14242107.54	39°13'12.642"N	80°57'14.045"W	3347.13	312.685	0.60	0.04	-0.60	
9807.00	90.220	339.680	6374.75	3039.59	2359.49	-2493.18	1653439.90	14242197.75	39°13'13.535"N	80°57'14.460"W	3432.66	313.422	0.79	0.00	-0.79	
9901.00	90.150	339.850	6374.44	3133.56	2447.69	-2525.70	1653407.40	14242285.91	39°13'14.406"N	80°57'14.873"W	3517.15	314.101	0.20	-0.07	0.18	
9996.00	89.780	339.630	6374.50	3228.54	2536.81	-2558.59	1653374.52	14242375.00	39°13'15.288"N	80°57'15.290"W	3603.03	314.755	0.45	-0.39	-0.23	
10090.00	89.720	339.870	6374.91	3322.51	2625.00	-2591.13	1653342.00	14242463.15	39°13'16.159"N	80°57'15.703"W	3688.44	315.372	0.26	-0.06	0.26	
10185.00	89.720	341.480	6375.38	3417.50	2714.65	-2622.56	1653310.57	14242552.76	39°13'17.045"N	80°57'16.102"W	3774.54	315.988	1.69	0.00	1.69	
10281.00	89.660	342.740	6375.90	3513.48	2806.00	-2652.05	1653281.10	14242644.08	39°13'17.949"N	80°57'16.476"W	3860.96	316.616	1.31	-0.06	1.31	
10376.00	89.660	343.720	6376.46	3608.42	2896.96	-2679.46	1653253.70	14242735.00	39°13'18.848"N	80°57'16.824"W	3946.12	317.234	1.03	0.00	1.03	
10471.00	89.630	344.090	6377.05	3703.30	2988.23	-2705.80	1653227.37	14242826.23	39°13'19.750"N	80°57'17.158"W	4031.24	317.840	0.39	-0.03	0.39	
10566.00	89.660	343.140	6377.64	3798.21	3079.37	-2732.60	1653200.58	14242917.34	39°13'20.651"N	80°57'17.498"W	4116.99	318.415	1.00	0.03	-1.00	
10660.00	89.690	342.000	6378.17	3892.17	3169.05	-2760.75	1653172.44	14243006.98	39°13'21.537"N	80°57'17.855"W	4202.93	318.939	1.21	0.03	-1.21	
10755.00	89.720	340.670	6378.66	3987.17	3259.05	-2791.15	1653142.05	14243096.95	39°13'22.427"N	80°57'18.241"W	4290.92	319.422	1.40	0.03	-1.40	
10850.00	89.750	340.300	6379.10	4082.16	3348.60	-2822.89	1653110.33	14243186.45	39°13'23.312"N	80°57'18.643"W	4379.70	319.869	0.39	0.03	-0.39	
10944.00	89.660	340.120	6379.58	4176.15	3437.04	-2854.71	1653078.51	14243274.86	39°13'24.187"N	80°57'19.047"W	4467.96	320.288	0.21	-0.10	-0.19	

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Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #05
Area	Ritchie County, WV	Well	Genny Unit 2H
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Facility	Lynn Camp Pad		

WELLPATH DATA (262 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
11039.00	89.690	340.600	6380.12	4271.14	3526.51	-2886.64	1653046.60	14243364.30	39°13'25.071"N	80°57'19.452"W	4557.30	320.698	0.51	0.03	0.51	
11134.00	89.720	341.520	6380.61	4366.14	3616.37	-2917.48	1653015.78	14243454.12	39°13'25.959"N	80°57'19.844"W	4646.48	321.105	0.97	0.03	0.97	
11228.00	89.820	342.160	6380.99	4460.13	3705.68	-2946.78	1652986.49	14243543.40	39°13'26.842"N	80°57'20.215"W	4734.51	321.508	0.69	0.11	0.68	
11322.00	89.690	341.690	6381.39	4554.12	3795.04	-2975.94	1652957.34	14243632.72	39°13'27.726"N	80°57'20.585"W	4822.72	321.898	0.52	-0.14	-0.50	
11418.00	89.940	341.260	6381.70	4650.12	3886.07	-3006.44	1652926.85	14243723.71	39°13'28.626"N	80°57'20.972"W	4913.27	322.273	0.52	0.26	-0.45	
11512.00	89.970	342.600	6381.77	4744.10	3975.43	-3035.60	1652897.71	14243813.04	39°13'29.509"N	80°57'21.342"W	5001.89	322.635	1.43	0.03	1.43	
11607.00	89.690	342.030	6382.05	4839.08	4065.94	-3064.46	1652868.86	14243903.51	39°13'30.404"N	80°57'21.708"W	5091.44	322.995	0.67	-0.29	-0.60	
11701.00	89.690	341.860	6382.56	4933.07	4155.31	-3093.59	1652839.74	14243992.84	39°13'31.287"N	80°57'22.078"W	5180.43	323.333	0.18	0.00	-0.18	
11797.00	89.720	341.630	6383.06	5029.06	4246.48	-3123.66	1652809.68	14244083.97	39°13'32.188"N	80°57'22.460"W	5271.61	323.662	0.24	0.03	-0.24	
11891.00	89.660	341.540	6383.57	5123.06	4335.66	-3153.35	1652780.00	14244173.12	39°13'33.070"N	80°57'22.836"W	5361.12	323.971	0.12	-0.06	-0.10	
11985.00	89.660	341.620	6384.12	5217.05	4424.85	-3183.06	1652750.31	14244262.27	39°13'33.952"N	80°57'23.213"W	5450.79	324.270	0.09	0.00	0.09	
12079.00	89.630	341.120	6384.71	5311.05	4513.92	-3213.08	1652720.29	14244351.31	39°13'34.832"N	80°57'23.594"W	5540.70	324.556	0.53	-0.03	-0.53	
12174.00	89.600	340.280	6385.34	5406.05	4603.58	-3244.48	1652688.90	14244440.93	39°13'35.718"N	80°57'23.993"W	5632.01	324.825	0.88	-0.03	-0.88	
12268.00	89.660	340.970	6385.95	5500.04	4692.25	-3275.66	1652657.73	14244529.57	39°13'36.595"N	80°57'24.388"W	5722.52	325.081	0.74	0.06	0.73	
12363.00	89.630	341.030	6386.54	5595.04	4782.07	-3306.59	1652626.82	14244619.35	39°13'37.483"N	80°57'24.781"W	5813.93	325.338	0.07	-0.03	0.06	
12457.00	89.660	340.850	6387.12	5689.03	4870.92	-3337.29	1652596.13	14244708.16	39°13'38.361"N	80°57'25.170"W	5904.52	325.583	0.19	0.03	-0.19	
12551.00	90.000	341.130	6387.40	5783.03	4959.79	-3367.91	1652565.53	14244797.00	39°13'39.240"N	80°57'25.559"W	5995.19	325.822	0.47	0.36	0.30	
12646.00	89.970	341.140	6387.43	5878.03	5049.69	-3398.63	1652534.82	14244886.86	39°13'40.128"N	80°57'25.949"W	6086.87	326.058	0.03	-0.03	0.01	
12741.00	89.940	340.890	6387.50	5973.03	5139.52	-3429.53	1652503.93	14244976.66	39°13'41.016"N	80°57'26.341"W	6178.70	326.285	0.27	-0.03	-0.26	
12835.00	89.970	340.550	6387.58	6067.03	5228.25	-3460.57	1652472.90	14245065.35	39°13'41.894"N	80°57'26.735"W	6269.78	326.499	0.36	0.03	-0.36	
12930.00	89.720	341.270	6387.83	6162.03	5318.02	-3491.64	1652441.85	14245155.09	39°13'42.781"N	80°57'27.129"W	6361.83	326.712	0.80	-0.26	0.76	
13024.00	89.850	341.520	6388.18	6256.03	5407.11	-3521.63	1652411.87	14245244.14	39°13'43.662"N	80°57'27.510"W	6452.81	326.924	0.30	0.14	0.27	
13118.00	89.750	341.420	6388.51	6350.03	5496.24	-3551.50	1652382.01	14245333.23	39°13'44.543"N	80°57'27.889"W	6543.83	327.131	0.15	-0.11	-0.11	
13213.00	89.780	341.310	6388.90	6445.02	5586.25	-3581.86	1652351.67	14245423.21	39°13'45.433"N	80°57'28.274"W	6635.96	327.332	0.12	0.03	-0.12	
13307.00	89.850	342.070	6389.21	6539.02	5675.49	-3611.39	1652322.15	14245512.42	39°13'46.315"N	80°57'28.649"W	6727.06	327.531	0.81	0.07	0.81	
13401.00	89.820	341.550	6389.48	6633.01	5764.80	-3640.73	1652292.81	14245601.68	39°13'47.198"N	80°57'29.021"W	6818.20	327.726	0.55	-0.03	-0.55	
13496.00	89.780	342.020	6389.81	6728.00	5855.04	-3670.43	1652263.13	14245691.88	39°13'48.090"N	80°57'29.398"W	6910.39	327.917	0.50	-0.04	0.49	
13590.00	89.820	342.240	6390.14	6821.99	5944.50	-3699.27	1652234.30	14245781.31	39°13'48.974"N	80°57'29.764"W	7001.55	328.106	0.24	0.04	0.23	
13684.00	89.750	341.950	6390.49	6915.97	6033.95	-3728.17	1652205.41	14245870.72	39°13'49.858"N	80°57'30.131"W	7092.80	328.289	0.32	-0.07	-0.31	
13779.00	89.750	341.750	6390.90	7010.96	6124.22	-3757.76	1652175.83	14245960.96	39°13'50.751"N	80°57'30.506"W	7185.18	328.467	0.21	0.00	-0.21	

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Genny Unit 2H AWP Proj: 21514'

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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Slot	Slot #05
Area	Ritchie County, WV		Well	Genny Unit 2H
Field	Ritchie		Wellbore	Genny Unit 2H AWB
Facility	Lynn Camp Pad			

WELLPATH DATA (262 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
13874.00	89.570	341.900	6391.47	7105.95	6214.48	-3787.39	1652146.21	14246051.18	39°13'51.643"N	80°57'30.882"W	7277.64	328.640	0.25	-0.19	0.16	
13969.00	89.630	343.750	6392.13	7200.91	6305.23	-3815.44	1652118.17	14246141.90	39°13'52.540"N	80°57'31.238"W	7369.78	328.821	1.95	0.06	1.95	
14065.00	89.420	344.290	6392.93	7296.78	6397.52	-3841.87	1652091.75	14246234.15	39°13'53.452"N	80°57'31.573"W	7462.46	329.014	0.60	-0.22	0.56	
14160.00	89.140	344.020	6394.12	7391.64	6488.90	-3867.81	1652065.83	14246325.50	39°13'54.356"N	80°57'31.902"W	7554.19	329.202	0.41	-0.29	-0.28	
14255.00	89.630	343.930	6395.14	7486.51	6580.21	-3894.03	1652039.61	14246416.76	39°13'55.258"N	80°57'32.235"W	7646.09	329.384	0.52	0.52	-0.09	
14350.00	89.570	344.220	6395.80	7581.38	6671.56	-3920.10	1652013.56	14246508.08	39°13'56.161"N	80°57'32.566"W	7738.01	329.562	0.31	-0.06	0.31	
14445.00	89.660	342.910	6396.44	7676.29	6762.67	-3946.97	1651986.69	14246599.16	39°13'57.062"N	80°57'32.907"W	7830.22	329.730	1.38	0.09	-1.38	
14540.00	89.660	339.660	6397.01	7771.28	6852.64	-3977.75	1651956.23	14246689.08	39°13'57.951"N	80°57'33.294"W	7923.30	329.868	3.42	0.00	-3.42	
14636.00	89.540	337.220	6397.68	7867.16	6941.91	-4012.73	1651920.97	14246778.32	39°13'58.834"N	80°57'33.741"W	8018.24	329.970	2.54	-0.12	-2.54	
14730.00	89.600	336.280	6398.38	7960.89	7028.27	-4049.83	1651883.88	14246864.65	39°13'59.687"N	80°57'34.213"W	8111.58	330.049	1.00	0.06	-1.00	
14826.00	89.570	336.050	6399.08	8056.53	7116.08	-4088.62	1651845.10	14246952.43	39°14'00.555"N	80°57'34.705"W	8207.04	330.120	0.24	-0.03	-0.24	
14921.00	89.480	337.740	6399.86	8151.26	7203.46	-4125.90	1651807.84	14247039.76	39°14'01.419"N	80°57'35.178"W	8301.38	330.197	1.78	-0.09	1.78	
15015.00	89.540	337.710	6400.67	8245.10	7290.44	-4161.53	1651772.22	14247126.71	39°14'02.279"N	80°57'35.631"W	8394.57	330.281	0.07	0.06	-0.03	
15108.00	89.510	338.000	6401.44	8337.94	7376.58	-4196.59	1651737.18	14247212.81	39°14'03.131"N	80°57'36.076"W	8486.77	330.364	0.31	-0.03	0.31	
15204.00	89.540	337.450	6402.24	8433.77	7465.41	-4232.97	1651700.81	14247301.61	39°14'04.009"N	80°57'36.537"W	8581.98	330.446	0.57	0.03	-0.57	
15299.00	89.910	336.370	6402.69	8528.51	7552.80	-4270.23	1651663.57	14247388.96	39°14'04.873"N	80°57'37.010"W	8676.38	330.517	1.20	0.39	-1.14	
15393.00	90.400	336.950	6402.44	8622.23	7639.10	-4307.47	1651626.34	14247475.24	39°14'05.726"N	80°57'37.483"W	8769.85	330.583	0.81	0.52	0.62	
15488.00	89.910	336.190	6402.18	8716.93	7726.27	-4345.24	1651588.58	14247562.37	39°14'06.587"N	80°57'37.963"W	8864.33	330.647	0.95	-0.52	-0.80	
15582.00	89.880	338.700	6402.35	8810.73	7813.07	-4381.30	1651552.55	14247649.13	39°14'07.446"N	80°57'38.421"W	8957.67	330.718	2.67	-0.03	2.67	
15677.00	89.880	340.490	6402.55	8905.69	7902.11	-4414.42	1651519.44	14247738.13	39°14'08.326"N	80°57'38.841"W	9051.54	330.811	1.88	0.00	1.88	
15772.00	90.180	340.760	6402.50	9000.69	7991.73	-4445.93	1651487.93	14247827.72	39°14'09.212"N	80°57'39.241"W	9145.16	330.912	0.42	0.32	0.28	
15867.00	90.060	343.890	6402.30	9095.65	8082.23	-4474.77	1651459.11	14247918.18	39°14'10.106"N	80°57'39.607"W	9238.29	331.029	3.30	-0.13	3.29	
15962.00	89.940	346.390	6402.30	9190.41	8174.05	-4499.14	1651434.75	14248009.96	39°14'11.014"N	80°57'39.916"W	9330.45	331.171	2.63	-0.13	2.63	
16056.00	89.970	346.140	6402.38	9284.03	8265.36	-4521.45	1651412.44	14248101.24	39°14'11.917"N	80°57'40.199"W	9421.24	331.320	0.27	0.03	-0.27	
16152.00	90.000	345.570	6402.40	9379.70	8358.45	-4544.91	1651388.99	14248194.29	39°14'12.837"N	80°57'40.497"W	9514.19	331.465	0.59	0.03	-0.59	
16246.00	89.970	344.980	6402.43	9473.45	8449.36	-4568.81	1651365.11	14248285.17	39°14'13.735"N	80°57'40.800"W	9605.50	331.599	0.63	-0.03	-0.63	
16341.00	89.970	345.540	6402.48	9568.20	8541.23	-4592.98	1651340.95	14248377.00	39°14'14.643"N	80°57'41.107"W	9697.84	331.731	0.59	0.00	0.59	
16435.00	89.940	344.710	6402.55	9661.97	8632.08	-4617.11	1651316.83	14248467.81	39°14'15.542"N	80°57'41.413"W	9789.31	331.859	0.88	-0.03	-0.88	
16530.00	89.940	345.980	6402.65	9756.71	8723.99	-4641.14	1651292.80	14248559.69	39°14'16.450"N	80°57'41.718"W	9881.71	331.987	1.34	0.00	1.34	
16624.00	89.720	344.700	6402.93	9850.45	8814.93	-4664.93	1651269.02	14248650.59	39°14'17.349"N	80°57'42.020"W	9973.19	332.112	1.38	-0.23	-1.38	

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Genny Unit 2H AWP Proj: 21514'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #05
Area	Ritchie County, WV	Well	Genny Unit 2H
Field	Ritchie	Wellbore	Genny Unit 2H AWB
Facility	Lynn Camp Pad		

WELLPATH DATA (262 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
16719.00	89.660	344.090	6403.44	9945.30	8906.42	-4690.49	1651243.48	14248742.05	39°14'18.253"N	80°57'42.344"W	10066.03	332.227	0.65	-0.06	-0.64	
16813.00	89.750	341.790	6403.93	10039.24	8996.28	-4718.06	1651215.92	14248831.87	39°14'19.142"N	80°57'42.694"W	10158.40	332.325	2.45	0.10	-2.45	
16908.00	89.780	339.920	6404.32	10134.23	9086.02	-4749.22	1651184.77	14248921.57	39°14'20.029"N	80°57'43.090"W	10252.36	332.404	1.97	0.03	-1.97	
17003.00	89.690	338.450	6404.76	10229.18	9174.82	-4782.97	1651151.03	14249010.33	39°14'20.907"N	80°57'43.518"W	10346.69	332.466	1.55	-0.09	-1.55	
17099.00	89.660	337.370	6405.30	10325.02	9263.77	-4819.07	1651114.94	14249099.25	39°14'21.786"N	80°57'43.976"W	10442.26	332.516	1.13	-0.03	-1.12	
17194.00	89.690	336.530	6405.84	10419.77	9351.18	-4856.27	1651077.76	14249186.62	39°14'22.650"N	80°57'44.449"W	10536.98	332.556	0.88	0.03	-0.88	
17290.00	89.420	335.890	6406.58	10515.42	9439.02	-4894.99	1651039.06	14249274.43	39°14'23.518"N	80°57'44.940"W	10632.78	332.589	0.72	-0.28	-0.67	
17384.00	89.420	336.850	6407.54	10609.09	9525.13	-4932.67	1651001.40	14249360.51	39°14'24.370"N	80°57'45.419"W	10726.57	332.622	1.02	0.00	1.02	
17478.00	89.320	339.980	6408.57	10702.97	9612.52	-4967.24	1650966.84	14249447.86	39°14'25.233"N	80°57'45.858"W	10820.08	332.672	3.33	-0.11	3.33	
17573.00	89.350	341.970	6409.67	10797.96	9702.32	-4998.21	1650935.88	14249537.63	39°14'26.121"N	80°57'46.251"W	10914.08	332.744	2.09	0.03	2.09	
17668.00	89.420	342.210	6410.69	10892.94	9792.72	-5027.42	1650906.68	14249627.98	39°14'27.015"N	80°57'46.622"W	11007.83	332.825	0.26	0.07	0.25	
17764.00	89.480	342.500	6411.61	10988.91	9884.20	-5056.52	1650877.60	14249719.43	39°14'27.919"N	80°57'46.991"W	11102.51	332.907	0.31	0.06	0.30	
17860.00	89.480	342.770	6412.48	11084.87	9975.82	-5085.17	1650848.96	14249811.01	39°14'28.825"N	80°57'47.355"W	11197.14	332.990	0.28	0.00	0.28	
17954.00	89.690	344.640	6413.17	11178.77	10066.03	-5111.54	1650822.59	14249901.19	39°14'29.716"N	80°57'47.689"W	11289.50	333.078	2.00	0.22	1.99	
18049.00	89.690	344.500	6413.68	11273.59	10157.61	-5136.82	1650797.33	14249992.73	39°14'30.622"N	80°57'48.010"W	11382.61	333.174	0.15	0.00	-0.15	
18144.00	89.750	343.540	6414.14	11368.47	10248.93	-5162.97	1650771.19	14250084.02	39°14'31.524"N	80°57'48.342"W	11475.93	333.263	1.01	0.06	-1.01	
18238.00	89.690	342.810	6414.60	11462.41	10338.91	-5190.18	1650743.99	14250173.96	39°14'32.414"N	80°57'48.687"W	11568.53	333.343	0.78	-0.06	-0.78	
18334.00	89.880	342.130	6414.96	11558.38	10430.45	-5219.09	1650715.09	14250265.46	39°14'33.319"N	80°57'49.054"W	11663.33	333.418	0.74	0.20	-0.71	
18429.00	89.850	341.370	6415.19	11653.37	10520.67	-5248.84	1650685.35	14250355.64	39°14'34.211"N	80°57'49.432"W	11757.33	333.485	0.80	-0.03	-0.80	
18524.00	89.780	339.800	6415.49	11748.36	10610.26	-5280.42	1650653.78	14250445.20	39°14'35.096"N	80°57'49.833"W	11851.61	333.542	1.65	-0.07	-1.65	
18618.00	89.910	338.640	6415.75	11842.31	10698.15	-5313.77	1650620.45	14250533.05	39°14'35.965"N	80°57'50.256"W	11945.15	333.586	1.24	0.14	-1.23	
18713.00	89.850	338.570	6415.95	11937.22	10786.60	-5348.43	1650585.81	14250621.47	39°14'36.839"N	80°57'50.697"W	12039.78	333.626	0.10	-0.06	-0.07	
18808.00	89.850	338.290	6416.20	12032.12	10874.95	-5383.35	1650550.89	14250709.78	39°14'37.713"N	80°57'51.140"W	12134.45	333.664	0.29	0.00	-0.29	
18904.00	89.910	338.000	6416.40	12127.99	10964.05	-5419.09	1650515.17	14250798.84	39°14'38.593"N	80°57'51.594"W	12230.16	333.699	0.31	0.06	-0.30	
19000.00	89.820	337.800	6416.62	12223.84	11052.99	-5455.20	1650479.07	14250887.76	39°14'39.473"N	80°57'52.052"W	12325.91	333.731	0.23	-0.09	-0.21	
19095.00	89.850	337.310	6416.90	12318.65	11140.80	-5491.48	1650442.81	14250975.52	39°14'40.341"N	80°57'52.513"W	12420.69	333.761	0.52	0.03	-0.52	
19191.00	89.880	337.720	6417.12	12414.46	11229.50	-5528.19	1650406.11	14251064.19	39°14'41.218"N	80°57'52.979"W	12516.49	333.789	0.43	0.03	0.43	
19287.00	89.880	338.340	6417.32	12510.32	11318.53	-5564.10	1650370.21	14251153.18	39°14'42.098"N	80°57'53.435"W	12612.23	333.822	0.65	0.00	0.65	
19383.00	89.780	337.690	6417.61	12606.18	11407.54	-5600.04	1650334.29	14251242.16	39°14'42.978"N	80°57'53.892"W	12707.97	333.853	0.69	-0.10	-0.68	
19479.00	89.820	337.790	6417.94	12702.02	11496.39	-5636.41	1650297.94	14251330.97	39°14'43.856"N	80°57'54.353"W	12803.75	333.882	0.11	0.04	0.10	

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Genny Unit 2H AWP Proj: 21514'

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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Slot	Slot #05
Area	Ritchie County, WV		Well	Genny Unit 2H
Field	Ritchie		Wellbore	Genny Unit 2H AWB
Facility	Lynn Camp Pad			

WELLPATH DATA (262 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
19575.00	89.850	337.300	6418.22	12797.83	11585.11	-5673.08	1650261.28	14251419.66	39°14'44.733"N	80°57'54.819"W	12899.56	333.910	0.51	0.03	-0.51	
19672.00	89.910	337.630	6418.42	12894.63	11674.70	-5710.25	1650224.12	14251509.21	39°14'45.619"N	80°57'55.291"W	12996.37	333.936	0.35	0.06	0.34	
19768.00	89.750	338.800	6418.71	12990.51	11763.85	-5745.88	1650188.51	14251598.32	39°14'46.500"N	80°57'55.743"W	13092.10	333.967	1.23	-0.17	1.22	
19864.00	89.630	340.370	6419.23	13086.47	11853.81	-5779.36	1650155.04	14251688.25	39°14'47.389"N	80°57'56.169"W	13187.64	334.008	1.64	-0.13	1.64	
19960.00	89.540	341.950	6419.92	13182.46	11944.66	-5810.36	1650124.05	14251779.07	39°14'48.287"N	80°57'56.562"W	13282.89	334.060	1.65	-0.09	1.65	
20056.00	89.110	341.360	6421.05	13278.45	12035.78	-5840.58	1650093.85	14251870.14	39°14'49.188"N	80°57'56.946"W	13378.05	334.114	0.76	-0.45	-0.61	
20152.00	89.690	341.700	6422.06	13374.44	12126.83	-5870.99	1650063.45	14251961.16	39°14'50.088"N	80°57'57.332"W	13473.25	334.167	0.70	0.60	0.35	
20249.00	89.140	341.790	6423.05	13471.43	12218.94	-5901.37	1650033.08	14252053.23	39°14'50.998"N	80°57'57.718"W	13569.40	334.221	0.57	-0.57	0.09	
20345.00	89.660	343.100	6424.06	13567.40	12310.46	-5930.32	1650004.14	14252144.72	39°14'51.903"N	80°57'58.085"W	13664.41	334.278	1.47	0.54	1.36	
20442.00	88.890	343.100	6425.28	13664.33	12403.26	-5958.52	1649975.96	14252237.48	39°14'52.820"N	80°57'58.443"W	13760.27	334.340	0.79	-0.79	0.00	
20537.00	89.820	345.690	6426.35	13759.16	12494.75	-5984.07	1649950.42	14252328.93	39°14'53.725"N	80°57'58.768"W	13853.80	334.409	2.90	0.98	2.73	
20632.00	89.480	346.680	6426.93	13853.79	12587.00	-6006.75	1649927.74	14252421.14	39°14'54.637"N	80°57'59.055"W	13946.81	334.489	1.10	-0.36	1.04	
20728.00	89.420	344.200	6427.85	13949.50	12679.90	-6030.89	1649903.62	14252514.01	39°14'55.555"N	80°57'59.362"W	14041.06	334.563	2.58	-0.06	-2.58	
20823.00	89.200	341.550	6429.00	14044.44	12770.68	-6058.85	1649875.66	14252604.75	39°14'56.452"N	80°57'59.717"W	14135.06	334.619	2.80	-0.23	-2.79	
20918.00	89.140	340.630	6430.37	14139.43	12860.54	-6089.64	1649844.89	14252694.57	39°14'57.341"N	80°58'00.108"W	14229.45	334.662	0.97	-0.06	-0.97	
21013.00	89.420	341.510	6431.57	14234.42	12950.39	-6120.45	1649814.09	14252784.39	39°14'58.229"N	80°58'00.499"W	14323.85	334.704	0.97	0.29	0.93	
21108.00	89.480	342.650	6432.48	14329.40	13040.78	-6149.68	1649784.87	14252874.74	39°14'59.122"N	80°58'00.870"W	14418.06	334.753	1.20	0.06	1.20	
21203.00	89.260	343.230	6433.52	14424.35	13131.59	-6177.55	1649757.01	14252965.52	39°15'00.020"N	80°58'01.224"W	14512.09	334.806	0.65	-0.23	0.61	
21297.00	89.450	345.230	6434.58	14518.20	13222.04	-6203.10	1649731.48	14253055.93	39°15'00.914"N	80°58'01.548"W	14604.82	334.866	2.14	0.20	2.13	
21393.00	89.350	345.410	6435.59	14613.93	13314.90	-6227.42	1649707.16	14253148.76	39°15'01.832"N	80°58'01.857"W	14699.23	334.934	0.21	-0.10	0.19	
21489.00	89.480	344.890	6436.57	14709.69	13407.69	-6252.03	1649682.57	14253241.51	39°15'02.749"N	80°58'02.169"W	14793.72	335.000	0.56	0.14	-0.54	
21514.00	89.480	344.890	6436.80	14734.63	13431.83	-6258.54	1649676.05	14253265.63	39°15'02.988"N	80°58'02.252"W	14818.34	335.017	0.00	0.00	0.00	Projected MD at TD: 21514'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #05
Area	Ritchie County, WV	Well	Genny Unit 2H
Field	Ritchie	Wellbore	Genny Unit 2H AWB
Facility	Lynn Camp Pad		

HOLE & CASING SECTIONS - Ref Wellbore: Genny Unit 2H AWB Ref Wellpath: Genny Unit 2H AWP Proj: 21514'

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	25.00	105.00	80.00	25.00	105.00	0.00	0.00	-0.01	-0.03
17.5in Open Hole	105.00	587.00	482.00	105.00	587.00	-0.01	-0.03	-0.03	-0.20
13.375in Casing Surface	25.00	587.00	562.00	25.00	587.00	0.00	0.00	-0.03	-0.20
12.25in Open Hole	587.00	2654.00	2067.00	587.00	2590.72	-0.03	-0.20	-250.12	-362.31
9.625in Casing Intermediate	25.00	2654.00	2629.00	25.00	2590.72	0.00	0.00	-250.12	-362.31
8.75in Open Hole	2654.00	6242.00	3588.00	2590.72	5983.68	-250.12	-362.31	-821.56	-1310.18
8.5in Open Hole	6242.00	21514.00	15272.00	5983.68	6436.80	-821.56	-1310.18	13431.83	-6258.54
5.5in Casing Production	25.00	21514.00	21489.00	25.00	6436.80	0.00	0.00	13431.83	-6258.54

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Genny Unit 2H - POE - Rev-2	6378.00	-410.37	-1534.70	1654398.00	14239429.00	39°12'46.153"N	80°57'02.301"W	point
Genny Unit 2H - BHL - Rev-2	6402.00	13446.20	-6277.60	1649657.00	14253280.00	39°15'03.130"N	80°58'02.494"W	point
Genny Unit 2H - LP - Rev-2	6402.00	-241.71	-1592.43	1654340.29	14239597.59	39°12'47.820"N	80°57'03.033"W	point

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Area	Ritchie County, WV	Well	Genny Unit 2H
Field	Ritchie	Wellbore	Genny Unit 2H AWB
Facility	Lynn Camp Pad		

WELLPATH COMPOSITION - Ref Wellbore: Genny Unit 2H AWB Ref Wellpath: Genny Unit 2H AWP Proj: 21514'				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
25.00	552.00	Gyrodata standard - Drop gyro or Multi-shot	01 Gyrodata MS Gyro <17-1/2">(100'-542')	Genny Unit 2H AWB
552.00	2572.00	OWSG MWD rev2 + HRGM	02 WFT EM <12-1/4">(542')(682'-2562')	Genny Unit 2H AWB
2572.00	6169.00	OWSG MWD rev2 + HRGM	03 WFT EM <8-3/4">(2562')(2717'-6159')	Genny Unit 2H AWB
6169.00	21489.00	BHI AutoTrak Curve (Short)	04 BH AT Curve <8-1/2"> (6169')(6222'-21489')	Genny Unit 2H AWB
21489.00	21514.00	Blind Drilling (std)	Projection to bit	Genny Unit 2H AWB

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COMMENTS

Wellpath general comments

API: 47-085-10383-0000
BHI Job #: 109831200
Rig: Patterson 342
Duration: 06/02/2019-06/07/2019
Gyrodatta MS Gyro <17-1/2">(100'-542')
WFT EM <12-1/4">(542')(682'-2562')
WFT EM <8-3/4">(2562')(2717'-6159')
BH AT Curve <8-1/2"> (6169')(6222'-21489')
Middlesex: 6554' MD
Burkett: 6750' MD
Tully: 6847' MD
Marcellus POE: 6927' MD
Projected MD at TD: 21514'

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