



Actual Wellpath Report

Genny Unit 1H AWP Proj: 21825'
Page 1 of 13



REFERENCE WELLPATH IDENTIFICATION

| | | | |
|----------|------------------------------|----------|-------------------|
| Operator | ANTERO RESOURCES CORPORATION | Slot | Slot #04 |
| Area | Ritchie County, WV | Well | Genny Unit 1H |
| Field | Ritchie | Wellbore | Genny Unit 1H 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 | 6/6/2019 at 4:28:10 PM |
| Convergence at slot | 0.03° East | Database/Source file | WA_MPL_EasternUS_Defn/Genny_Unit_1H_AWP_Proj_21825_.xml |

WELLPATH LOCATION

| | Local coordinates | | Grid coordinates | | Geographic coordinates | |
|-----------------------|-------------------|----------|------------------|-----------------|------------------------|----------------|
| | North[ft] | East[ft] | Easting[US ft] | Northing[US ft] | Latitude | Longitude |
| Slot Location | 0.00 | 0.00 | 1655924.22 | 14239826.05 | 39°12'50.070"N | 80°56'42.900"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 #04) | 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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Page 2 of 13



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| Operator | ANTERO RESOURCES CORPORATION | Slot | Slot #04 |
| Area | Ritchie County, WV | Well | Genny Unit 1H |
| Field | Ritchie | Wellbore | Genny Unit 1H AWB |
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| WELLPATH DATA (267 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 | 181.230 | 0.00 | 0.00 | 0.00 | 0.00 | 1655924.22 | 14239826.05 | 39°12'50.070"N | 80°56'42.900"W | 0.00 | 0.000 | 0.00 | 0.00 | 0.00 | |
| 25.00 | 0.000 | 181.230 | 25.00 | 0.00 | 0.00 | 0.00 | 1655924.22 | 14239826.05 | 39°12'50.070"N | 80°56'42.900"W | 0.00 | 0.000 | 0.00 | 0.00 | 0.00 | |
| 110.00 | 0.600 | 181.230 | 110.00 | -0.42 | -0.44 | -0.01 | 1655924.21 | 14239825.60 | 39°12'50.066"N | 80°56'42.900"W | 0.45 | 181.230 | 0.71 | 0.71 | -210.32 | Gyrodata MS Gyro <17-1/2">(100'-539') |
| 135.00 | 0.540 | 177.050 | 135.00 | -0.65 | -0.69 | -0.01 | 1655924.22 | 14239825.36 | 39°12'50.063"N | 80°56'42.900"W | 0.69 | 180.521 | 0.29 | -0.24 | -16.72 | |
| 160.00 | 0.490 | 178.750 | 160.00 | -0.87 | -0.92 | 0.00 | 1655924.22 | 14239825.13 | 39°12'50.061"N | 80°56'42.900"W | 0.92 | 179.869 | 0.21 | -0.20 | 6.80 | |
| 185.00 | 0.400 | 185.470 | 185.00 | -1.05 | -1.11 | 0.00 | 1655924.22 | 14239824.94 | 39°12'50.059"N | 80°56'42.900"W | 1.11 | 180.201 | 0.42 | -0.36 | 26.88 | |
| 210.00 | 0.460 | 184.570 | 209.99 | -1.22 | -1.30 | -0.02 | 1655924.20 | 14239824.75 | 39°12'50.057"N | 80°56'42.900"W | 1.30 | 180.891 | 0.24 | 0.24 | -3.60 | |
| 235.00 | 0.230 | 154.540 | 234.99 | -1.36 | -1.44 | -0.01 | 1655924.22 | 14239824.61 | 39°12'50.056"N | 80°56'42.900"W | 1.44 | 180.263 | 1.14 | -0.92 | -120.12 | |
| 260.00 | 0.240 | 183.640 | 259.99 | -1.46 | -1.54 | 0.01 | 1655924.23 | 14239824.51 | 39°12'50.055"N | 80°56'42.900"W | 1.54 | 179.568 | 0.47 | 0.04 | 116.40 | |
| 285.00 | 0.360 | 180.100 | 284.99 | -1.58 | -1.67 | 0.01 | 1655924.23 | 14239824.38 | 39°12'50.053"N | 80°56'42.900"W | 1.67 | 179.721 | 0.49 | 0.48 | -14.16 | |
| 310.00 | 0.150 | 209.640 | 309.99 | -1.68 | -1.78 | -0.01 | 1655924.21 | 14239824.27 | 39°12'50.052"N | 80°56'42.900"W | 1.78 | 180.263 | 0.96 | -0.84 | 118.16 | |
| 335.00 | 0.200 | 187.400 | 334.99 | -1.74 | -1.85 | -0.03 | 1655924.19 | 14239824.20 | 39°12'50.052"N | 80°56'42.900"W | 1.85 | 180.928 | 0.33 | 0.20 | -88.96 | |
| 360.00 | 0.240 | 219.420 | 359.99 | -1.81 | -1.93 | -0.07 | 1655924.15 | 14239824.11 | 39°12'50.051"N | 80°56'42.901"W | 1.94 | 182.038 | 0.51 | 0.16 | 128.08 | |
| 385.00 | 0.170 | 224.970 | 384.99 | -1.85 | -2.00 | -0.13 | 1655924.09 | 14239824.05 | 39°12'50.050"N | 80°56'42.902"W | 2.01 | 183.668 | 0.29 | -0.28 | 22.20 | |
| 410.00 | 0.220 | 210.610 | 409.99 | -1.90 | -2.07 | -0.18 | 1655924.04 | 14239823.98 | 39°12'50.050"N | 80°56'42.902"W | 2.08 | 184.943 | 0.28 | 0.20 | -57.44 | |
| 435.00 | 0.170 | 240.230 | 434.99 | -1.94 | -2.13 | -0.24 | 1655923.99 | 14239823.92 | 39°12'50.049"N | 80°56'42.903"W | 2.14 | 186.315 | 0.44 | -0.20 | 118.48 | |
| 460.00 | 0.170 | 203.280 | 459.99 | -1.97 | -2.18 | -0.28 | 1655923.94 | 14239823.87 | 39°12'50.048"N | 80°56'42.904"W | 2.20 | 187.378 | 0.43 | 0.00 | -147.80 | |
| 485.00 | 0.180 | 145.710 | 484.99 | -2.04 | -2.25 | -0.27 | 1655923.95 | 14239823.80 | 39°12'50.048"N | 80°56'42.904"W | 2.26 | 186.975 | 0.68 | 0.04 | -230.28 | |
| 510.00 | 0.250 | 163.960 | 509.99 | -2.13 | -2.33 | -0.24 | 1655923.98 | 14239823.72 | 39°12'50.047"N | 80°56'42.903"W | 2.34 | 185.820 | 0.39 | 0.28 | 73.00 | |
| 535.00 | 0.290 | 172.400 | 534.99 | -2.25 | -2.45 | -0.21 | 1655924.01 | 14239823.60 | 39°12'50.046"N | 80°56'42.903"W | 2.46 | 185.004 | 0.23 | 0.16 | 33.76 | |
| 549.00 | 0.300 | 201.110 | 548.99 | -2.31 | -2.52 | -0.22 | 1655924.00 | 14239823.53 | 39°12'50.045"N | 80°56'42.903"W | 2.53 | 185.060 | 1.05 | 0.07 | 205.07 | |
| 629.00 | 0.500 | 197.010 | 628.99 | -2.75 | -3.05 | -0.40 | 1655923.82 | 14239823.00 | 39°12'50.040"N | 80°56'42.905"W | 3.07 | 187.488 | 0.25 | 0.25 | -5.13 | WFT EM <12-1/4">(539')(619'-2580') |
| 721.00 | 1.760 | 225.100 | 720.97 | -3.70 | -4.43 | -1.52 | 1655922.70 | 14239821.62 | 39°12'50.026"N | 80°56'42.919"W | 4.68 | 198.932 | 1.46 | 1.37 | 30.53 | |
| 789.00 | 4.530 | 227.720 | 788.86 | -5.22 | -6.97 | -4.25 | 1655919.98 | 14239819.08 | 39°12'50.001"N | 80°56'42.954"W | 8.16 | 211.341 | 4.08 | 4.07 | 3.85 | |
| 885.00 | 8.660 | 232.410 | 884.21 | -9.05 | -13.93 | -12.78 | 1655911.45 | 14239812.12 | 39°12'49.932"N | 80°56'43.062"W | 18.91 | 222.530 | 4.33 | 4.30 | 4.89 | |
| 1004.00 | 12.380 | 237.180 | 1001.19 | -14.99 | -26.32 | -30.61 | 1655893.63 | 14239799.74 | 39°12'49.810"N | 80°56'43.289"W | 40.37 | 229.309 | 3.21 | 3.13 | 4.01 | |
| 1098.00 | 13.930 | 239.920 | 1092.72 | -19.61 | -37.45 | -48.87 | 1655875.37 | 14239788.61 | 39°12'49.700"N | 80°56'43.521"W | 61.57 | 232.534 | 1.78 | 1.65 | 2.91 | |
| 1193.00 | 15.150 | 241.970 | 1184.68 | -23.80 | -49.02 | -69.72 | 1655854.53 | 14239777.05 | 39°12'49.586"N | 80°56'43.786"W | 85.23 | 234.891 | 1.39 | 1.28 | 2.16 | |
| 1287.00 | 15.980 | 242.760 | 1275.23 | -27.63 | -60.71 | -92.07 | 1655832.19 | 14239765.36 | 39°12'49.470"N | 80°56'44.070"W | 110.28 | 236.598 | 0.91 | 0.88 | 0.84 | |
| 1382.00 | 17.940 | 243.500 | 1366.09 | -31.47 | -73.23 | -116.79 | 1655807.48 | 14239752.85 | 39°12'49.347"N | 80°56'44.384"W | 137.85 | 237.913 | 2.08 | 2.06 | 0.78 | |

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Page 3 of 13



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| Field | Ritchie | Wellbore | Genny Unit 1H AWB |
| Facility | Lynn Camp Pad | | |

| WELLPATH DATA (267 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 |
| 1476.00 | 19.310 | 244.530 | 1455.17 | -35.17 | -86.37 | -143.78 | 1655780.50 | 14239739.71 | 39°12'49.217"N | 80°56'44.727"W | 167.73 | 239.006 | 1.50 | 1.46 | 1.10 | |
| 1571.00 | 22.650 | 247.780 | 1543.86 | -38.03 | -100.05 | -174.90 | 1655749.39 | 14239726.04 | 39°12'49.082"N | 80°56'45.123"W | 201.50 | 240.230 | 3.72 | 3.52 | 3.42 | |
| 1665.00 | 25.190 | 248.540 | 1629.78 | -39.98 | -114.21 | -210.28 | 1655714.02 | 14239711.88 | 39°12'48.942"N | 80°56'45.572"W | 239.30 | 241.492 | 2.72 | 2.70 | 0.81 | |
| 1760.00 | 23.550 | 246.120 | 1716.31 | -42.54 | -129.29 | -246.46 | 1655677.87 | 14239696.81 | 39°12'48.794"N | 80°56'46.032"W | 278.31 | 242.318 | 2.02 | -1.73 | -2.55 | |
| 1854.00 | 23.720 | 242.360 | 1802.43 | -47.05 | -145.67 | -280.38 | 1655643.96 | 14239680.44 | 39°12'48.632"N | 80°56'46.463"W | 315.96 | 242.546 | 1.61 | 0.18 | -4.00 | |
| 1949.00 | 26.330 | 242.260 | 1888.51 | -53.20 | -164.34 | -315.96 | 1655608.39 | 14239661.77 | 39°12'48.448"N | 80°56'46.915"W | 356.14 | 242.519 | 2.75 | 2.75 | -0.11 | |
| 2043.00 | 25.270 | 241.110 | 1973.14 | -59.89 | -183.74 | -351.98 | 1655572.39 | 14239642.38 | 39°12'48.256"N | 80°56'47.373"W | 397.05 | 242.435 | 1.25 | -1.13 | -1.22 | |
| 2137.00 | 26.420 | 241.290 | 2057.73 | -66.94 | -203.48 | -387.89 | 1655536.49 | 14239622.65 | 39°12'48.061"N | 80°56'47.830"W | 438.02 | 242.319 | 1.23 | 1.22 | 0.19 | |
| 2232.00 | 28.000 | 241.560 | 2142.22 | -74.25 | -224.25 | -426.03 | 1655498.36 | 14239601.89 | 39°12'47.856"N | 80°56'48.314"W | 481.45 | 242.239 | 1.67 | 1.66 | 0.28 | |
| 2327.00 | 25.100 | 239.070 | 2227.19 | -82.15 | -245.23 | -462.94 | 1655461.47 | 14239580.91 | 39°12'47.649"N | 80°56'48.783"W | 523.88 | 242.088 | 3.27 | -3.05 | -2.62 | |
| 2421.00 | 24.300 | 237.440 | 2312.59 | -90.88 | -265.89 | -496.34 | 1655428.08 | 14239560.26 | 39°12'47.445"N | 80°56'49.208"W | 563.07 | 241.822 | 1.12 | -0.85 | -1.73 | |
| 2516.00 | 26.190 | 239.050 | 2398.52 | -99.88 | -287.20 | -530.80 | 1655393.64 | 14239538.97 | 39°12'47.235"N | 80°56'49.646"W | 603.51 | 241.584 | 2.12 | 1.99 | 1.69 | |
| 2590.00 | 25.610 | 239.790 | 2465.08 | -106.43 | -303.64 | -558.62 | 1655365.82 | 14239522.53 | 39°12'47.072"N | 80°56'49.999"W | 635.81 | 241.474 | 0.90 | -0.78 | 1.00 | |
| 2719.00 | 24.160 | 237.730 | 2582.11 | -118.01 | -331.77 | -605.04 | 1655319.42 | 14239494.42 | 39°12'46.794"N | 80°56'50.589"W | 690.03 | 241.262 | 1.31 | -1.12 | -1.60 | WFT EM <8-3/4">(2580')(2709'-6374') |
| 2813.00 | 24.750 | 239.600 | 2667.67 | -126.39 | -351.99 | -638.28 | 1655286.20 | 14239474.20 | 39°12'46.595"N | 80°56'51.012"W | 728.90 | 241.124 | 1.04 | 0.63 | 1.99 | |
| 2908.00 | 25.310 | 241.780 | 2753.75 | -133.65 | -371.66 | -673.33 | 1655251.17 | 14239454.54 | 39°12'46.400"N | 80°56'51.457"W | 769.09 | 241.102 | 1.14 | 0.59 | 2.29 | |
| 3005.00 | 26.190 | 242.300 | 2841.12 | -140.29 | -391.42 | -710.55 | 1655213.96 | 14239434.79 | 39°12'46.205"N | 80°56'51.930"W | 811.22 | 241.151 | 0.94 | 0.91 | 0.54 | |
| 3100.00 | 26.230 | 241.740 | 2926.35 | -146.92 | -411.10 | -747.60 | 1655176.92 | 14239415.11 | 39°12'46.011"N | 80°56'52.401"W | 853.18 | 241.194 | 0.26 | 0.04 | -0.59 | |
| 3194.00 | 26.510 | 241.340 | 3010.57 | -153.86 | -431.00 | -784.31 | 1655140.23 | 14239395.22 | 39°12'45.815"N | 80°56'52.868"W | 894.93 | 241.210 | 0.35 | 0.30 | -0.43 | |
| 3289.00 | 26.770 | 241.850 | 3095.49 | -160.90 | -451.26 | -821.78 | 1655102.78 | 14239374.97 | 39°12'45.615"N | 80°56'53.344"W | 937.52 | 241.228 | 0.36 | 0.27 | 0.54 | |
| 3384.00 | 26.170 | 242.690 | 3180.53 | -167.41 | -470.96 | -859.25 | 1655065.31 | 14239355.27 | 39°12'45.420"N | 80°56'53.820"W | 979.86 | 241.272 | 0.74 | -0.63 | 0.88 | |
| 3478.00 | 26.270 | 242.580 | 3264.86 | -173.54 | -490.05 | -896.14 | 1655028.45 | 14239336.19 | 39°12'45.232"N | 80°56'54.289"W | 1021.38 | 241.328 | 0.12 | 0.11 | -0.12 | |
| 3573.00 | 26.030 | 242.650 | 3350.13 | -179.72 | -509.31 | -933.31 | 1654991.28 | 14239316.94 | 39°12'45.041"N | 80°56'54.761"W | 1063.24 | 241.379 | 0.25 | -0.25 | 0.07 | |
| 3668.00 | 26.790 | 242.810 | 3435.22 | -185.88 | -528.67 | -970.87 | 1654953.74 | 14239297.59 | 39°12'44.850"N | 80°56'55.239"W | 1105.48 | 241.430 | 0.80 | 0.80 | 0.17 | |
| 3762.00 | 27.600 | 242.640 | 3518.82 | -192.14 | -548.36 | -1009.06 | 1654915.57 | 14239277.91 | 39°12'44.656"N | 80°56'55.724"W | 1148.43 | 241.479 | 0.87 | 0.86 | -0.18 | |
| 3857.00 | 27.030 | 241.910 | 3603.23 | -198.84 | -568.64 | -1047.64 | 1654877.00 | 14239257.64 | 39°12'44.456"N | 80°56'56.214"W | 1192.02 | 241.508 | 0.70 | -0.60 | -0.77 | |
| 3952.00 | 27.090 | 241.490 | 3687.83 | -205.90 | -589.13 | -1085.70 | 1654838.96 | 14239237.16 | 39°12'44.253"N | 80°56'56.698"W | 1235.24 | 241.515 | 0.21 | 0.06 | -0.44 | |
| 4046.00 | 26.550 | 240.740 | 3771.72 | -213.26 | -609.61 | -1122.83 | 1654801.84 | 14239216.68 | 39°12'44.051"N | 80°56'57.170"W | 1277.65 | 241.501 | 0.68 | -0.57 | -0.80 | |
| 4141.00 | 26.600 | 240.510 | 3856.68 | -220.99 | -630.46 | -1159.87 | 1654764.82 | 14239195.84 | 39°12'43.845"N | 80°56'57.640"W | 1320.14 | 241.473 | 0.12 | 0.05 | -0.24 | |
| 4236.00 | 26.290 | 239.740 | 3941.74 | -229.05 | -651.53 | -1196.55 | 1654728.15 | 14239174.78 | 39°12'43.637"N | 80°56'58.107"W | 1362.44 | 241.431 | 0.49 | -0.33 | -0.81 | |

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Page 4 of 13



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|-----------------------------------|------------------------------|----------|-------------------|
| Operator | ANTERO RESOURCES CORPORATION | Slot | Slot #04 |
| Area | Ritchie County, WV | Well | Genny Unit 1H |
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|------------------------------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|----------------|----------------|-------------------|-----------------|---------------|----------------------|---------------------|--|
| 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 |
| 4331.00 | 25.820 | 241.520 | 4027.09 | -236.65 | -672.00 | -1232.91 | 1654691.81 | 14239154.32 | 39°12'43.435"N | 80°56'58.569"W | 1404.15 | 241.407 | 0.96 | -0.49 | 1.87 | |
| 4426.00 | 25.500 | 240.890 | 4112.72 | -243.72 | -691.81 | -1268.96 | 1654655.77 | 14239134.51 | 39°12'43.239"N | 80°56'59.027"W | 1445.29 | 241.402 | 0.44 | -0.34 | -0.66 | |
| 4520.00 | 25.810 | 239.990 | 4197.45 | -251.26 | -711.89 | -1304.36 | 1654620.39 | 14239114.44 | 39°12'43.041"N | 80°56'59.477"W | 1485.98 | 241.375 | 0.53 | 0.33 | -0.96 | |
| 4615.00 | 25.700 | 240.410 | 4283.02 | -259.07 | -732.41 | -1340.18 | 1654584.58 | 14239093.94 | 39°12'42.839"N | 80°56'59.932"W | 1527.25 | 241.343 | 0.22 | -0.12 | 0.44 | |
| 4711.00 | 25.850 | 243.050 | 4369.47 | -265.87 | -752.17 | -1376.94 | 1654547.84 | 14239074.18 | 39°12'42.644"N | 80°57'00.399"W | 1568.99 | 241.354 | 1.21 | 0.16 | 2.75 | |
| 4806.00 | 25.470 | 242.240 | 4455.10 | -271.93 | -771.07 | -1413.48 | 1654511.31 | 14239055.29 | 39°12'42.457"N | 80°57'00.863"W | 1610.11 | 241.387 | 0.54 | -0.40 | -0.85 | |
| 4901.00 | 26.260 | 241.810 | 4540.58 | -278.47 | -790.51 | -1450.08 | 1654474.73 | 14239035.85 | 39°12'42.265"N | 80°57'01.328"W | 1651.56 | 241.403 | 0.85 | 0.83 | -0.45 | |
| 4995.00 | 26.340 | 241.060 | 4624.85 | -285.47 | -810.43 | -1486.65 | 1654438.16 | 14239015.95 | 39°12'42.068"N | 80°57'01.793"W | 1693.20 | 241.404 | 0.36 | 0.09 | -0.80 | |
| 5090.00 | 26.000 | 239.670 | 4710.11 | -293.28 | -831.14 | -1523.07 | 1654401.76 | 14238995.24 | 39°12'41.864"N | 80°57'02.256"W | 1735.09 | 241.379 | 0.74 | -0.36 | -1.46 | |
| 5185.00 | 25.360 | 238.610 | 4795.73 | -301.81 | -852.25 | -1558.41 | 1654366.44 | 14238974.14 | 39°12'41.655"N | 80°57'02.705"W | 1776.23 | 241.327 | 0.83 | -0.67 | -1.12 | |
| 5279.00 | 26.260 | 239.660 | 4880.35 | -310.30 | -873.24 | -1593.54 | 1654331.32 | 14238953.16 | 39°12'41.448"N | 80°57'03.152"W | 1817.12 | 241.278 | 1.07 | 0.96 | 1.12 | |
| 5374.00 | 26.390 | 239.780 | 4965.50 | -318.62 | -894.49 | -1629.93 | 1654294.95 | 14238931.92 | 39°12'41.238"N | 80°57'03.614"W | 1859.24 | 241.242 | 0.15 | 0.14 | 0.13 | |
| 5469.00 | 25.530 | 241.130 | 5050.92 | -326.31 | -915.00 | -1666.10 | 1654258.79 | 14238911.42 | 39°12'41.036"N | 80°57'04.074"W | 1900.82 | 241.225 | 1.10 | -0.91 | 1.42 | |
| 5563.00 | 25.410 | 244.490 | 5135.78 | -332.15 | -933.46 | -1702.04 | 1654222.87 | 14238892.96 | 39°12'40.853"N | 80°57'04.530"W | 1941.21 | 241.258 | 1.54 | -0.13 | 3.57 | |
| 5658.00 | 25.730 | 243.800 | 5221.48 | -337.12 | -951.35 | -1738.94 | 1654185.98 | 14238875.08 | 39°12'40.677"N | 80°57'04.999"W | 1982.16 | 241.318 | 0.46 | 0.34 | -0.73 | |
| 5753.00 | 26.300 | 242.860 | 5306.86 | -342.77 | -970.05 | -1776.17 | 1654148.77 | 14238856.39 | 39°12'40.492"N | 80°57'05.472"W | 2023.80 | 241.359 | 0.74 | 0.60 | -0.99 | |
| 5848.00 | 24.900 | 238.320 | 5392.54 | -350.22 | -990.16 | -1811.92 | 1654113.03 | 14238836.29 | 39°12'40.294"N | 80°57'05.927"W | 2064.82 | 241.345 | 2.54 | -1.47 | -4.78 | |
| 5943.00 | 24.030 | 238.790 | 5479.01 | -358.77 | -1010.68 | -1845.48 | 1654079.48 | 14238815.77 | 39°12'40.091"N | 80°57'06.353"W | 2104.11 | 241.293 | 0.94 | -0.92 | 0.49 | |
| 6037.00 | 24.780 | 240.630 | 5564.61 | -366.44 | -1030.26 | -1879.02 | 1654045.96 | 14238796.20 | 39°12'39.898"N | 80°57'06.780"W | 2142.93 | 241.264 | 1.14 | 0.80 | 1.96 | |
| 6132.00 | 24.450 | 240.980 | 5650.97 | -373.52 | -1049.57 | -1913.56 | 1654011.43 | 14238776.90 | 39°12'39.707"N | 80°57'07.219"W | 2182.50 | 241.256 | 0.38 | -0.35 | 0.37 | |
| 6164.00 | 23.260 | 245.820 | 5680.24 | -375.26 | -1055.37 | -1925.12 | 1653999.88 | 14238771.11 | 39°12'39.650"N | 80°57'07.365"W | 2195.42 | 241.268 | 7.16 | -3.72 | 15.13 | |
| 6195.00 | 23.450 | 251.770 | 5708.71 | -375.76 | -1059.80 | -1936.56 | 1653988.44 | 14238766.67 | 39°12'39.606"N | 80°57'07.511"W | 2207.59 | 241.310 | 7.63 | 0.61 | 19.19 | |
| 6227.00 | 22.080 | 258.950 | 5738.22 | -374.86 | -1062.95 | -1948.52 | 1653976.49 | 14238763.53 | 39°12'39.575"N | 80°57'07.663"W | 2219.59 | 241.387 | 9.67 | -4.28 | 22.44 | |
| 6258.00 | 21.400 | 266.670 | 5767.02 | -372.55 | -1064.40 | -1959.89 | 1653965.12 | 14238762.08 | 39°12'39.561"N | 80°57'07.807"W | 2230.27 | 241.494 | 9.47 | -2.19 | 24.90 | |
| 6290.00 | 21.220 | 273.480 | 5796.84 | -368.78 | -1064.38 | -1971.50 | 1653953.52 | 14238762.09 | 39°12'39.561"N | 80°57'07.955"W | 2240.47 | 241.636 | 7.75 | -0.56 | 21.28 | |
| 6321.00 | 21.350 | 280.260 | 5825.73 | -363.90 | -1063.04 | -1982.65 | 1653942.37 | 14238763.44 | 39°12'39.574"N | 80°57'08.096"W | 2249.66 | 241.801 | 7.95 | 0.42 | 21.87 | |
| 6353.00 | 23.040 | 288.040 | 5855.36 | -357.29 | -1060.06 | -1994.34 | 1653930.68 | 14238766.42 | 39°12'39.604"N | 80°57'08.245"W | 2258.57 | 242.008 | 10.58 | 5.28 | 24.31 | |
| 6384.00 | 24.980 | 296.160 | 5883.68 | -349.01 | -1055.29 | -2005.99 | 1653919.04 | 14238771.18 | 39°12'39.651"N | 80°57'08.393"W | 2266.63 | 242.252 | 12.35 | 6.26 | 26.19 | |
| 6437.00 | 27.940 | 304.770 | 5931.14 | -331.08 | -1043.27 | -2026.24 | 1653898.79 | 14238783.20 | 39°12'39.770"N | 80°57'08.650"W | 2279.05 | 242.757 | 9.13 | 5.58 | 16.25 | BH AT Curve <8 1/2"> (6384')(6437'-21800') |
| 6495.00 | 32.610 | 307.330 | 5981.22 | -307.13 | -1026.03 | -2049.85 | 1653875.20 | 14238800.43 | 39°12'39.940"N | 80°57'08.950"W | 2292.30 | 243.410 | 8.35 | 8.05 | 4.41 | |

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Actual Wellpath Report

Genny Unit 1H AWP Proj: 21825'
Page 5 of 13



| REFERENCE WELLPATH IDENTIFICATION | | | | |
|-----------------------------------|------------------------------|--|----------|-------------------|
| Operator | ANTERO RESOURCES CORPORATION | | Slot | Slot #04 |
| Area | Ritchie County, WV | | Well | Genny Unit 1H |
| Field | Ritchie | | Wellbore | Genny Unit 1H AWB |
| Facility | Lynn Camp Pad | | | |

| WELLPATH DATA (267 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 |
| 6532.00 | 35.750 | 311.140 | 6011.83 | -289.48 | -1012.87 | -2065.92 | 1653859.13 | 14238813.58 | 39°12'40.070"N | 80°57'09.154"W | 2300.86 | 243.882 | 10.27 | 8.49 | 10.30 | |
| 6579.00 | 38.710 | 314.640 | 6049.25 | -264.42 | -993.51 | -2086.72 | 1653838.34 | 14238832.94 | 39°12'40.262"N | 80°57'09.418"W | 2311.16 | 244.540 | 7.74 | 6.30 | 7.45 | |
| 6626.00 | 41.790 | 317.620 | 6085.12 | -236.89 | -971.61 | -2107.74 | 1653817.33 | 14238854.83 | 39°12'40.479"N | 80°57'09.685"W | 2320.91 | 245.252 | 7.73 | 6.55 | 6.34 | |
| 6674.00 | 44.770 | 320.710 | 6120.07 | -206.37 | -946.70 | -2129.23 | 1653795.84 | 14238879.73 | 39°12'40.725"N | 80°57'09.958"W | 2330.21 | 246.029 | 7.62 | 6.21 | 6.44 | |
| 6721.00 | 48.440 | 322.630 | 6152.36 | -174.17 | -919.91 | -2150.40 | 1653774.69 | 14238906.51 | 39°12'40.990"N | 80°57'10.226"W | 2338.90 | 246.839 | 8.35 | 7.81 | 4.09 | |
| 6770.00 | 52.270 | 324.550 | 6183.61 | -138.19 | -889.54 | -2172.77 | 1653752.32 | 14238936.87 | 39°12'41.290"N | 80°57'10.511"W | 2347.81 | 247.736 | 8.38 | 7.82 | 3.92 | |
| 6817.00 | 56.010 | 326.620 | 6211.14 | -101.49 | -858.11 | -2194.28 | 1653730.82 | 14238968.28 | 39°12'41.601"N | 80°57'10.784"W | 2356.10 | 248.641 | 8.72 | 7.96 | 4.40 | |
| 6838.00† | 57.361 | 327.686 | 6222.68 | -84.46 | -843.37 | -2203.80 | 1653721.31 | 14238983.02 | 39°12'41.746"N | 80°57'10.904"W | 2359.66 | 249.059 | 7.70 | 6.43 | 5.08 | Middlesex: 6838' MD |
| 6865.00 | 59.110 | 329.010 | 6236.89 | -62.08 | -823.83 | -2215.84 | 1653709.27 | 14239002.55 | 39°12'41.940"N | 80°57'11.057"W | 2364.03 | 249.605 | 7.70 | 6.48 | 4.90 | |
| 6912.00 | 62.000 | 331.070 | 6260.00 | -21.91 | -788.37 | -2236.27 | 1653688.85 | 14239037.99 | 39°12'42.290"N | 80°57'11.317"W | 2371.17 | 250.580 | 7.24 | 6.15 | 4.38 | |
| 6960.00 | 64.530 | 332.050 | 6281.59 | 20.36 | -750.68 | -2256.68 | 1653668.45 | 14239075.67 | 39°12'42.663"N | 80°57'11.576"W | 2378.26 | 251.600 | 5.58 | 5.27 | 2.04 | |
| 7007.00 | 68.770 | 333.290 | 6300.21 | 63.03 | -712.35 | -2276.48 | 1653648.66 | 14239113.98 | 39°12'43.042"N | 80°57'11.827"W | 2385.33 | 252.624 | 9.34 | 9.02 | 2.64 | |
| 7054.00 | 72.920 | 334.340 | 6315.63 | 107.06 | -672.52 | -2296.06 | 1653629.09 | 14239153.80 | 39°12'43.436"N | 80°57'12.075"W | 2392.52 | 253.675 | 9.08 | 8.83 | 2.23 | |
| 7078.00† | 73.915 | 334.750 | 6322.48 | 129.91 | -651.75 | -2305.95 | 1653619.20 | 14239174.56 | 39°12'43.641"N | 80°57'12.201"W | 2396.28 | 254.218 | 4.46 | 4.15 | 1.71 | Burkett: 7078' MD |
| 7101.00 | 74.870 | 335.140 | 6328.67 | 151.93 | -631.68 | -2315.33 | 1653609.83 | 14239194.62 | 39°12'43.839"N | 80°57'12.320"W | 2399.95 | 254.740 | 4.46 | 4.15 | 1.69 | |
| 7149.00 | 74.830 | 335.280 | 6341.21 | 198.02 | -589.62 | -2334.75 | 1653590.41 | 14239236.67 | 39°12'44.255"N | 80°57'12.566"W | 2408.05 | 255.827 | 0.29 | -0.08 | 0.29 | |
| 7189.00† | 74.804 | 335.042 | 6351.69 | 236.42 | -554.59 | -2350.97 | 1653574.20 | 14239271.69 | 39°12'44.602"N | 80°57'12.772"W | 2415.50 | 256.727 | 0.58 | -0.06 | -0.60 | Tully: 7189' MD |
| 7196.00 | 74.800 | 335.000 | 6353.53 | 243.13 | -548.46 | -2353.82 | 1653571.35 | 14239277.81 | 39°12'44.662"N | 80°57'12.808"W | 2416.88 | 256.884 | 0.58 | -0.06 | -0.60 | |
| 7244.00 | 74.770 | 335.040 | 6366.12 | 289.19 | -506.48 | -2373.38 | 1653551.79 | 14239319.77 | 39°12'45.077"N | 80°57'13.057"W | 2426.82 | 257.954 | 0.10 | -0.06 | 0.08 | |
| 7256.00† | 75.183 | 335.343 | 6369.23 | 300.72 | -495.96 | -2378.24 | 1653546.93 | 14239330.29 | 39°12'45.181"N | 80°57'13.118"W | 2429.41 | 258.220 | 4.22 | 3.44 | 2.52 | Marcellus POE: 7256' MD |
| 7291.00 | 76.390 | 336.220 | 6377.83 | 334.50 | -465.02 | -2392.16 | 1653533.02 | 14239361.22 | 39°12'45.487"N | 80°57'13.295"W | 2436.94 | 258.999 | 4.22 | 3.45 | 2.51 | |
| 7339.00 | 81.260 | 337.840 | 6387.13 | 381.45 | -421.67 | -2410.53 | 1653514.66 | 14239404.55 | 39°12'45.916"N | 80°57'13.528"W | 2447.13 | 260.078 | 10.67 | 10.15 | 3.37 | |
| 7386.00 | 86.610 | 340.140 | 6392.09 | 428.14 | -378.06 | -2427.27 | 1653497.93 | 14239448.14 | 39°12'46.347"N | 80°57'13.741"W | 2456.54 | 261.147 | 12.38 | 11.38 | 4.89 | |
| 7433.00 | 90.250 | 341.890 | 6393.38 | 475.11 | -333.64 | -2442.55 | 1653482.65 | 14239492.54 | 39°12'46.786"N | 80°57'13.934"W | 2465.23 | 262.222 | 8.59 | 7.74 | 3.72 | |
| 7528.00 | 90.370 | 342.550 | 6392.87 | 570.09 | -243.18 | -2471.56 | 1653453.65 | 14239582.97 | 39°12'47.680"N | 80°57'14.302"W | 2483.50 | 264.381 | 0.71 | 0.13 | 0.69 | |
| 7624.00 | 90.430 | 342.460 | 6392.20 | 666.06 | -151.62 | -2500.42 | 1653424.81 | 14239674.49 | 39°12'48.585"N | 80°57'14.668"W | 2505.01 | 266.530 | 0.11 | 0.06 | -0.09 | |
| 7720.00 | 90.740 | 341.570 | 6391.22 | 762.04 | -60.32 | -2530.06 | 1653395.18 | 14239765.75 | 39°12'49.488"N | 80°57'15.044"W | 2530.78 | 268.634 | 0.98 | 0.32 | -0.93 | |
| 7814.00 | 90.740 | 340.850 | 6390.00 | 856.03 | 28.66 | -2560.34 | 1653364.92 | 14239854.70 | 39°12'50.367"N | 80°57'15.428"W | 2560.50 | 270.641 | 0.77 | 0.00 | -0.77 | |
| 7909.00 | 90.580 | 339.150 | 6388.91 | 951.01 | 117.92 | -2592.82 | 1653332.44 | 14239943.92 | 39°12'51.250"N | 80°57'15.841"W | 2595.50 | 272.604 | 1.80 | -0.17 | -1.79 | |
| 8003.00 | 90.770 | 340.200 | 6387.80 | 1044.97 | 206.06 | -2625.47 | 1653299.81 | 14240032.03 | 39°12'52.121"N | 80°57'16.255"W | 2633.55 | 274.488 | 1.14 | 0.20 | 1.12 | |

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Actual Wellpath Report

Genny Unit 1H AWP Proj: 21825'
Page 6 of 13



| REFERENCE WELLPATH IDENTIFICATION | | | | |
|-----------------------------------|------------------------------|--|----------|-------------------|
| Operator | ANTERO RESOURCES CORPORATION | | Slot | Slot #04 |
| Area | Ritchie County, WV | | Well | Genny Unit 1H |
| Field | Ritchie | | Wellbore | Genny Unit 1H AWB |
| Facility | Lynn Camp Pad | | | |

| WELLPATH DATA (267 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 |
| 8097.00 | 91.050 | 341.060 | 6386.31 | 1138.95 | 294.73 | -2656.64 | 1653268.65 | 14240120.66 | 39°12'52.998"N | 80°57'16.650"W | 2672.94 | 276.331 | 0.96 | 0.30 | 0.91 | |
| 8192.00 | 91.020 | 341.060 | 6384.59 | 1233.94 | 384.57 | -2687.47 | 1653237.83 | 14240210.47 | 39°12'53.886"N | 80°57'17.041"W | 2714.85 | 278.144 | 0.03 | -0.03 | 0.00 | |
| 8286.00 | 91.050 | 341.520 | 6382.89 | 1327.92 | 473.59 | -2717.62 | 1653207.69 | 14240299.45 | 39°12'54.766"N | 80°57'17.424"W | 2758.58 | 279.885 | 0.49 | 0.03 | 0.49 | |
| 8381.00 | 90.950 | 341.810 | 6381.23 | 1422.90 | 563.75 | -2747.50 | 1653177.82 | 14240389.58 | 39°12'55.657"N | 80°57'17.803"W | 2804.74 | 281.595 | 0.32 | -0.11 | 0.31 | |
| 8476.00 | 91.020 | 342.150 | 6379.60 | 1517.88 | 654.08 | -2776.89 | 1653148.45 | 14240479.87 | 39°12'56.550"N | 80°57'18.176"W | 2852.88 | 283.254 | 0.37 | 0.07 | 0.36 | |
| 8571.00 | 90.920 | 342.470 | 6377.99 | 1612.84 | 744.57 | -2805.75 | 1653119.60 | 14240570.32 | 39°12'57.445"N | 80°57'18.542"W | 2902.86 | 284.862 | 0.35 | -0.11 | 0.34 | |
| 8666.00 | 91.020 | 342.200 | 6376.38 | 1707.81 | 835.08 | -2834.57 | 1653090.79 | 14240660.80 | 39°12'58.339"N | 80°57'18.908"W | 2955.02 | 286.415 | 0.30 | 0.11 | -0.28 | |
| 8760.00 | 90.980 | 343.990 | 6374.74 | 1801.73 | 925.00 | -2861.90 | 1653063.47 | 14240750.68 | 39°12'59.228"N | 80°57'19.254"W | 3007.68 | 287.911 | 1.90 | -0.04 | 1.90 | |
| 8855.00 | 90.920 | 344.310 | 6373.17 | 1896.58 | 1016.38 | -2887.84 | 1653037.54 | 14240842.02 | 39°13'00.131"N | 80°57'19.583"W | 3061.48 | 289.390 | 0.34 | -0.06 | 0.34 | |
| 8950.00 | 90.550 | 345.000 | 6371.95 | 1991.39 | 1107.98 | -2912.98 | 1653012.41 | 14240933.59 | 39°13'01.037"N | 80°57'19.902"W | 3116.58 | 290.825 | 0.82 | -0.39 | 0.73 | |
| 9046.00 | 90.770 | 345.490 | 6370.84 | 2087.14 | 1200.81 | -2937.43 | 1652987.97 | 14241026.38 | 39°13'01.955"N | 80°57'20.212"W | 3173.40 | 292.235 | 0.56 | 0.23 | 0.51 | |
| 9140.00 | 90.340 | 345.210 | 6369.93 | 2180.88 | 1291.75 | -2961.20 | 1652964.21 | 14241117.28 | 39°13'02.853"N | 80°57'20.514"W | 3230.69 | 293.568 | 0.55 | -0.46 | -0.30 | |
| 9235.00 | 90.340 | 344.150 | 6369.37 | 2275.69 | 1383.37 | -2986.30 | 1652939.12 | 14241208.86 | 39°13'03.759"N | 80°57'20.832"W | 3291.16 | 294.855 | 1.12 | 0.00 | -1.12 | |
| 9329.00 | 90.150 | 342.320 | 6368.97 | 2369.62 | 1473.37 | -3013.41 | 1652912.02 | 14241298.83 | 39°13'04.649"N | 80°57'21.176"W | 3354.32 | 296.056 | 1.96 | -0.20 | -1.95 | |
| 9425.00 | 90.280 | 340.450 | 6368.61 | 2465.61 | 1564.34 | -3044.06 | 1652881.39 | 14241389.77 | 39°13'05.548"N | 80°57'21.565"W | 3422.49 | 297.199 | 1.95 | 0.14 | -1.95 | |
| 9520.00 | 90.620 | 338.760 | 6367.86 | 2560.57 | 1653.38 | -3077.16 | 1652848.30 | 14241478.77 | 39°13'06.428"N | 80°57'21.985"W | 3493.22 | 298.249 | 1.81 | 0.36 | -1.78 | |
| 9615.00 | 89.940 | 336.340 | 6367.40 | 2655.38 | 1741.18 | -3113.44 | 1652812.04 | 14241566.52 | 39°13'07.296"N | 80°57'22.445"W | 3567.24 | 299.216 | 2.65 | -0.72 | -2.55 | |
| 9709.00 | 89.680 | 336.540 | 6367.73 | 2749.07 | 1827.34 | -3151.01 | 1652774.48 | 14241652.65 | 39°13'08.148"N | 80°57'22.922"W | 3642.53 | 300.110 | 0.37 | -0.30 | 0.21 | |
| 9805.00 | 89.780 | 337.470 | 6368.19 | 2844.82 | 1915.71 | -3188.51 | 1652736.99 | 14241740.99 | 39°13'09.022"N | 80°57'23.398"W | 3719.75 | 300.998 | 0.98 | 0.12 | 0.97 | |
| 9901.00 | 89.720 | 338.350 | 6368.61 | 2940.67 | 2004.66 | -3224.61 | 1652700.91 | 14241829.90 | 39°13'09.901"N | 80°57'23.856"W | 3796.94 | 301.868 | 0.92 | -0.06 | 0.92 | |
| 9996.00 | 89.690 | 339.360 | 6369.10 | 3035.59 | 2093.26 | -3258.88 | 1652666.65 | 14241918.47 | 39°13'10.777"N | 80°57'24.291"W | 3873.25 | 302.714 | 1.06 | -0.03 | 1.06 | |
| 10090.00 | 89.850 | 340.070 | 6369.48 | 3129.56 | 2181.43 | -3291.47 | 1652634.08 | 14242006.60 | 39°13'11.648"N | 80°57'24.704"W | 3948.72 | 303.535 | 0.77 | 0.17 | 0.76 | |
| 10185.00 | 89.850 | 340.070 | 6369.73 | 3224.55 | 2270.74 | -3323.85 | 1652601.71 | 14242095.88 | 39°13'12.531"N | 80°57'25.115"W | 4025.45 | 304.340 | 0.00 | 0.00 | 0.00 | |
| 10281.00 | 89.690 | 343.470 | 6370.11 | 3320.53 | 2361.91 | -3353.88 | 1652571.69 | 14242187.01 | 39°13'13.433"N | 80°57'25.496"W | 4102.09 | 305.154 | 3.55 | -0.17 | 3.54 | |
| 10375.00 | 90.460 | 344.320 | 6369.99 | 3414.41 | 2452.22 | -3379.95 | 1652545.63 | 14242277.28 | 39°13'14.325"N | 80°57'25.827"W | 4175.82 | 305.962 | 1.22 | 0.82 | 0.90 | |
| 10471.00 | 89.780 | 343.110 | 6369.79 | 3510.31 | 2544.36 | -3406.87 | 1652518.72 | 14242369.39 | 39°13'15.236"N | 80°57'26.168"W | 4252.12 | 306.754 | 1.45 | -0.71 | -1.26 | |
| 10566.00 | 89.850 | 340.160 | 6370.10 | 3605.30 | 2634.51 | -3436.80 | 1652488.80 | 14242459.50 | 39°13'16.127"N | 80°57'26.548"W | 4330.39 | 307.472 | 3.11 | 0.07 | -3.11 | |
| 10660.00 | 89.600 | 337.410 | 6370.55 | 3699.21 | 2722.13 | -3470.81 | 1652454.80 | 14242547.09 | 39°13'16.994"N | 80°57'26.980"W | 4410.96 | 308.107 | 2.94 | -0.27 | -2.93 | |
| 10755.00 | 89.680 | 335.450 | 6371.16 | 3793.89 | 2809.20 | -3508.80 | 1652416.83 | 14242634.12 | 39°13'17.854"N | 80°57'27.462"W | 4494.81 | 308.681 | 2.06 | 0.06 | -2.06 | |
| 10850.00 | 89.970 | 334.760 | 6371.47 | 3888.36 | 2895.37 | -3548.79 | 1652376.86 | 14242720.26 | 39°13'18.706"N | 80°57'27.970"W | 4580.07 | 309.210 | 0.80 | 0.33 | -0.73 | |

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Actual Wellpath Report

Genny Unit 1H AWP Proj: 21825'

Page 7 of 13



REFERENCE WELLPATH IDENTIFICATION

| | | | |
|----------|------------------------------|----------|-------------------|
| Operator | ANTERO RESOURCES CORPORATION | Slot | Slot #04 |
| Area | Ritchie County, WV | Well | Genny Unit 1H |
| Field | Ritchie | Wellbore | Genny Unit 1H AWP |
| Facility | Lynn Camp Pad | | |

WELLPATH DATA (267 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 |
|----------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|----------------|----------------|-------------------|-----------------|---------------|----------------------|---------------------|----------|
| 10945.00 | 89.660 | 334.240 | 6371.78 | 3982.73 | 2981.12 | -3589.69 | 1652335.98 | 14242805.97 | 39°13'19.554"N | 80°57'28.489"W | 4866.15 | 309.709 | 0.64 | -0.33 | -0.55 | |
| 11040.00 | 89.660 | 334.380 | 6372.34 | 4077.06 | 3066.73 | -3630.87 | 1652294.81 | 14242891.54 | 39°13'20.400"N | 80°57'29.011"W | 4752.68 | 310.185 | 0.15 | 0.00 | 0.15 | |
| 11135.00 | 90.060 | 335.390 | 6372.57 | 4171.50 | 3152.74 | -3671.19 | 1652254.51 | 14242977.53 | 39°13'21.251"N | 80°57'29.523"W | 4839.15 | 310.655 | 1.14 | 0.42 | 1.06 | |
| 11230.00 | 89.750 | 334.520 | 6372.73 | 4265.95 | 3238.81 | -3711.40 | 1652214.31 | 14243063.56 | 39°13'22.101"N | 80°57'30.034"W | 4925.89 | 311.110 | 0.97 | -0.33 | -0.92 | |
| 11325.00 | 89.750 | 337.010 | 6373.14 | 4360.53 | 3325.43 | -3750.40 | 1652175.33 | 14243150.14 | 39°13'22.958"N | 80°57'30.529"W | 5012.38 | 311.563 | 2.62 | 0.00 | 2.62 | |
| 11419.00 | 89.910 | 342.210 | 6373.42 | 4454.46 | 3413.51 | -3783.14 | 1652142.61 | 14243238.19 | 39°13'23.828"N | 80°57'30.944"W | 5095.50 | 312.060 | 5.53 | 0.17 | 5.53 | |
| 11514.00 | 90.370 | 342.770 | 6373.19 | 4549.44 | 3504.11 | -3811.72 | 1652114.04 | 14243328.75 | 39°13'24.724"N | 80°57'31.307"W | 5177.64 | 312.592 | 0.76 | 0.48 | 0.59 | |
| 11608.00 | 89.690 | 343.730 | 6373.14 | 4643.37 | 3594.12 | -3838.81 | 1652086.96 | 14243418.72 | 39°13'25.614"N | 80°57'31.651"W | 5258.72 | 313.115 | 1.25 | -0.72 | 1.02 | |
| 11703.00 | 89.600 | 343.880 | 6373.73 | 4738.26 | 3685.35 | -3865.30 | 1652060.47 | 14243509.91 | 39°13'26.516"N | 80°57'31.987"W | 5340.63 | 313.635 | 0.18 | -0.09 | 0.16 | |
| 11798.00 | 89.260 | 344.580 | 6374.67 | 4833.11 | 3776.77 | -3891.12 | 1652034.66 | 14243601.30 | 39°13'27.419"N | 80°57'32.314"W | 5422.62 | 314.146 | 0.82 | -0.36 | 0.74 | |
| 11892.00 | 89.660 | 345.180 | 6375.56 | 4926.91 | 3867.51 | -3915.64 | 1652010.16 | 14243692.00 | 39°13'28.316"N | 80°57'32.625"W | 5503.62 | 314.646 | 0.77 | 0.43 | 0.64 | |
| 11987.00 | 89.630 | 345.310 | 6376.15 | 5021.66 | 3959.37 | -3939.83 | 1651985.97 | 14243783.83 | 39°13'29.224"N | 80°57'32.932"W | 5585.60 | 315.142 | 0.14 | -0.03 | 0.14 | |
| 12082.00 | 89.750 | 345.070 | 6376.66 | 5116.42 | 4051.21 | -3964.12 | 1651961.70 | 14243875.64 | 39°13'30.132"N | 80°57'33.240"W | 5668.03 | 315.623 | 0.28 | 0.13 | -0.25 | |
| 12176.00 | 89.660 | 344.680 | 6377.15 | 5210.21 | 4141.96 | -3988.64 | 1651937.18 | 14243966.34 | 39°13'31.029"N | 80°57'33.551"W | 5750.22 | 316.080 | 0.43 | -0.10 | -0.41 | |
| 12271.00 | 89.720 | 345.160 | 6377.66 | 5305.00 | 4233.68 | -4013.36 | 1651912.48 | 14244058.03 | 39°13'31.936"N | 80°57'33.865"W | 5833.62 | 316.530 | 0.51 | 0.06 | 0.51 | |
| 12366.00 | 89.720 | 346.180 | 6378.13 | 5399.70 | 4325.73 | -4036.87 | 1651888.97 | 14244150.04 | 39°13'32.846"N | 80°57'34.163"W | 5916.78 | 316.978 | 1.07 | 0.00 | 1.07 | |
| 12461.00 | 89.880 | 346.250 | 6378.46 | 5494.32 | 4417.99 | -4059.51 | 1651866.35 | 14244242.26 | 39°13'33.758"N | 80°57'34.450"W | 5999.85 | 317.421 | 0.18 | 0.17 | 0.07 | |
| 12555.00 | 89.720 | 344.200 | 6378.79 | 5588.07 | 4508.88 | -4083.48 | 1651842.38 | 14244333.11 | 39°13'34.656"N | 80°57'34.754"W | 6083.15 | 317.834 | 2.19 | -0.17 | -2.18 | |
| 12650.00 | 89.850 | 342.580 | 6379.14 | 5682.99 | 4599.91 | -4110.63 | 1651815.24 | 14244424.11 | 39°13'35.556"N | 80°57'35.099"W | 6168.99 | 318.215 | 1.71 | 0.14 | -1.71 | |
| 12744.00 | 89.750 | 340.790 | 6379.47 | 5776.98 | 4689.14 | -4140.17 | 1651785.72 | 14244513.31 | 39°13'36.438"N | 80°57'35.474"W | 6255.32 | 318.558 | 1.91 | -0.11 | -1.90 | |
| 12838.00 | 90.150 | 338.670 | 6379.55 | 5870.95 | 4777.31 | -4172.73 | 1651753.16 | 14244601.44 | 39°13'37.310"N | 80°57'35.887"W | 6343.06 | 318.864 | 2.30 | 0.43 | -2.26 | |
| 12932.00 | 89.750 | 335.940 | 6379.63 | 5964.73 | 4864.03 | -4209.00 | 1651716.91 | 14244688.12 | 39°13'38.167"N | 80°57'36.347"W | 6432.30 | 319.129 | 2.94 | -0.43 | -2.90 | |
| 13027.00 | 89.750 | 335.570 | 6380.05 | 6059.32 | 4950.65 | -4248.01 | 1651677.92 | 14244774.71 | 39°13'39.023"N | 80°57'36.843"W | 6523.38 | 319.368 | 0.39 | 0.00 | -0.39 | |
| 13121.00 | 89.690 | 334.710 | 6380.51 | 6152.81 | 5035.94 | -4287.53 | 1651638.42 | 14244859.96 | 39°13'39.866"N | 80°57'37.344"W | 6613.89 | 319.589 | 0.92 | -0.06 | -0.91 | |
| 13215.00 | 89.750 | 335.410 | 6380.97 | 6246.28 | 5121.17 | -4327.16 | 1651598.80 | 14244945.16 | 39°13'40.709"N | 80°57'37.847"W | 6704.53 | 319.804 | 0.75 | 0.06 | 0.74 | |
| 13310.00 | 89.660 | 336.850 | 6381.46 | 6340.92 | 5208.04 | -4365.60 | 1651560.37 | 14245032.00 | 39°13'41.568"N | 80°57'38.335"W | 6795.75 | 320.029 | 1.52 | -0.09 | 1.52 | |
| 13405.00 | 89.750 | 337.460 | 6381.95 | 6435.69 | 5295.59 | -4402.49 | 1651523.51 | 14245119.51 | 39°13'42.433"N | 80°57'38.804"W | 6886.59 | 320.262 | 0.65 | 0.09 | 0.64 | |
| 13500.00 | 89.690 | 339.170 | 6382.41 | 6530.57 | 5383.86 | -4437.59 | 1651488.42 | 14245207.74 | 39°13'43.306"N | 80°57'39.249"W | 6976.97 | 320.503 | 1.80 | -0.06 | 1.80 | |
| 13594.00 | 89.170 | 340.810 | 6383.35 | 6624.55 | 5472.18 | -4469.75 | 1651456.27 | 14245296.03 | 39°13'44.179"N | 80°57'39.657"W | 7065.65 | 320.758 | 1.83 | -0.55 | 1.74 | |
| 13688.00 | 88.430 | 342.460 | 6385.31 | 6718.52 | 5561.37 | -4499.36 | 1651426.67 | 14245385.18 | 39°13'45.061"N | 80°57'40.033"W | 7153.53 | 321.026 | 1.92 | -0.79 | 1.76 | |

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Actual Wellpath Report

Genny Unit 1H AWP Proj: 21825'
Page 8 of 13



| REFERENCE WELLPATH IDENTIFICATION | | | | |
|-----------------------------------|------------------------------|--|----------|-------------------|
| Operator | ANTERO RESOURCES CORPORATION | | Slot | Slot #04 |
| Area | Ritchie County, WV | | Well | Genny Unit 1H |
| Field | Ritchie | | Wellbore | Genny Unit 1H AWB |
| Facility | Lynn Camp Pad | | | |

| WELLPATH DATA (267 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 |
| 13782.00 | 89.660 | 344.390 | 6386.88 | 6812.42 | 5651.44 | -4526.17 | 1651399.87 | 14245475.22 | 39°13'45.951"N | 80°57'40.373"W | 7240.51 | 321.309 | 2.43 | 1.31 | 2.05 | |
| 13877.00 | 89.750 | 344.160 | 6387.37 | 6907.28 | 5742.88 | -4551.91 | 1651374.14 | 14245566.63 | 39°13'46.855"N | 80°57'40.700"W | 7328.07 | 321.599 | 0.26 | 0.09 | -0.24 | |
| 13971.00 | 89.850 | 342.440 | 6387.70 | 7001.20 | 5832.92 | -4578.93 | 1651347.14 | 14245656.62 | 39°13'47.745"N | 80°57'41.043"W | 7415.49 | 321.868 | 1.83 | 0.11 | -1.83 | |
| 14065.00 | 89.750 | 344.660 | 6388.03 | 7095.11 | 5923.06 | -4605.54 | 1651320.53 | 14245746.73 | 39°13'48.636"N | 80°57'41.381"W | 7502.91 | 322.133 | 2.36 | -0.11 | 2.36 | |
| 14160.00 | 89.600 | 346.170 | 6388.57 | 7189.84 | 6015.00 | -4629.46 | 1651296.62 | 14245838.63 | 39°13'49.545"N | 80°57'41.684"W | 7590.26 | 322.416 | 1.60 | -0.16 | 1.59 | |
| 14254.00 | 89.660 | 345.930 | 6389.17 | 7283.49 | 6106.22 | -4652.12 | 1651273.97 | 14245929.82 | 39°13'50.447"N | 80°57'41.972"W | 7676.47 | 322.697 | 0.26 | 0.06 | -0.26 | |
| 14349.00 | 89.660 | 344.610 | 6389.74 | 7378.23 | 6198.10 | -4676.28 | 1651249.82 | 14246021.65 | 39°13'51.355"N | 80°57'42.278"W | 7764.28 | 322.967 | 1.39 | 0.00 | -1.39 | |
| 14443.00 | 89.820 | 344.330 | 6390.16 | 7472.07 | 6288.66 | -4701.45 | 1651224.67 | 14246112.19 | 39°13'52.250"N | 80°57'42.597"W | 7851.81 | 323.218 | 0.34 | 0.17 | -0.30 | |
| 14539.00 | 90.490 | 344.410 | 6389.90 | 7567.91 | 6381.11 | -4727.31 | 1651198.81 | 14246204.60 | 39°13'53.164"N | 80°57'42.926"W | 7941.41 | 323.468 | 0.70 | 0.70 | 0.08 | |
| 14634.00 | 90.370 | 344.310 | 6389.19 | 7662.76 | 6472.59 | -4752.92 | 1651173.21 | 14246296.04 | 39°13'54.068"N | 80°57'43.251"W | 8030.24 | 323.710 | 0.16 | -0.13 | -0.11 | |
| 14729.00 | 89.850 | 343.300 | 6389.01 | 7757.65 | 6563.82 | -4779.42 | 1651146.73 | 14246387.23 | 39°13'54.970"N | 80°57'43.587"W | 8119.52 | 323.940 | 1.20 | -0.55 | -1.06 | |
| 14824.00 | 89.850 | 342.540 | 6389.26 | 7852.60 | 6654.63 | -4807.32 | 1651118.84 | 14246478.01 | 39°13'55.868"N | 80°57'43.941"W | 8209.41 | 324.156 | 0.80 | 0.00 | -0.80 | |
| 14919.00 | 89.880 | 341.560 | 6389.48 | 7947.59 | 6745.00 | -4836.60 | 1651089.57 | 14246568.34 | 39°13'56.761"N | 80°57'44.312"W | 8299.86 | 324.357 | 1.03 | 0.03 | -1.03 | |
| 15014.00 | 89.780 | 340.840 | 6389.76 | 8042.59 | 6834.94 | -4867.21 | 1651058.97 | 14246658.24 | 39°13'57.650"N | 80°57'44.701"W | 8390.83 | 324.545 | 0.77 | -0.11 | -0.76 | |
| 15110.00 | 89.720 | 340.410 | 6390.18 | 8138.58 | 6925.50 | -4899.06 | 1651027.13 | 14246748.76 | 39°13'58.545"N | 80°57'45.105"W | 8483.12 | 324.725 | 0.45 | -0.06 | -0.45 | |
| 15206.00 | 89.690 | 338.820 | 6390.67 | 8234.55 | 7015.48 | -4932.50 | 1650993.71 | 14246838.71 | 39°13'59.435"N | 80°57'45.530"W | 8575.93 | 324.889 | 1.66 | -0.03 | -1.66 | |
| 15300.00 | 89.690 | 335.890 | 6391.18 | 8328.33 | 7102.22 | -4968.68 | 1650957.54 | 14246925.42 | 39°14'00.292"N | 80°57'45.989"W | 8667.72 | 325.024 | 3.12 | 0.00 | -3.12 | |
| 15398.00 | 89.690 | 333.180 | 6391.70 | 8423.69 | 7188.89 | -5009.96 | 1650916.28 | 14247012.05 | 39°14'01.149"N | 80°57'46.513"W | 8762.41 | 325.127 | 2.82 | 0.00 | -2.82 | |
| 15490.00 | 89.750 | 334.320 | 6392.16 | 8516.92 | 7273.19 | -5051.53 | 1650874.72 | 14247096.32 | 39°14'01.982"N | 80°57'47.041"W | 8855.35 | 325.218 | 1.21 | 0.06 | 1.21 | |
| 15584.00 | 89.750 | 337.830 | 6392.57 | 8610.54 | 7359.10 | -5089.64 | 1650836.62 | 14247182.19 | 39°14'02.832"N | 80°57'47.525"W | 8947.67 | 325.332 | 3.73 | 0.00 | 3.73 | |
| 15678.00 | 89.630 | 339.160 | 6393.08 | 8704.44 | 7446.55 | -5124.10 | 1650802.18 | 14247269.61 | 39°14'03.696"N | 80°57'47.963"W | 9039.22 | 325.467 | 1.42 | -0.13 | 1.41 | |
| 15774.00 | 89.450 | 340.800 | 6393.85 | 8800.41 | 7536.75 | -5156.96 | 1650769.33 | 14247359.77 | 39°14'04.588"N | 80°57'48.380"W | 9132.19 | 325.618 | 1.72 | -0.19 | 1.71 | |
| 15868.00 | 89.380 | 342.980 | 6394.81 | 8894.39 | 7626.08 | -5186.18 | 1650740.13 | 14247449.06 | 39°14'05.471"N | 80°57'48.751"W | 9222.45 | 325.782 | 2.32 | -0.07 | 2.32 | |
| 15963.00 | 89.540 | 343.330 | 6395.71 | 8989.33 | 7717.00 | -5213.71 | 1650712.61 | 14247539.95 | 39°14'06.369"N | 80°57'49.100"W | 9313.15 | 325.957 | 0.41 | 0.17 | 0.37 | |
| 16057.00 | 89.690 | 342.970 | 6396.34 | 9083.26 | 7806.96 | -5240.96 | 1650685.37 | 14247629.87 | 39°14'07.259"N | 80°57'49.446"W | 9402.99 | 326.126 | 0.41 | 0.16 | -0.38 | |
| 16152.00 | 89.630 | 343.820 | 6396.90 | 9178.19 | 7898.00 | -5268.10 | 1650658.24 | 14247720.87 | 39°14'08.159"N | 80°57'49.790"W | 9493.75 | 326.296 | 0.90 | -0.06 | 0.89 | |
| 16247.00 | 89.630 | 344.620 | 6397.52 | 9273.04 | 7989.41 | -5293.94 | 1650632.41 | 14247812.25 | 39°14'09.062"N | 80°57'50.118"W | 9584.18 | 326.471 | 0.84 | 0.00 | 0.84 | |
| 16342.00 | 89.600 | 344.610 | 6398.15 | 9367.86 | 8081.01 | -5319.14 | 1650607.22 | 14247903.81 | 39°14'09.968"N | 80°57'50.438"W | 9674.50 | 326.646 | 0.03 | -0.03 | -0.01 | |
| 16437.00 | 89.420 | 344.310 | 6398.97 | 9462.70 | 8172.53 | -5344.59 | 1650581.78 | 14247995.30 | 39°14'10.872"N | 80°57'50.761"W | 9764.98 | 326.817 | 0.37 | -0.19 | -0.32 | |
| 16531.00 | 89.450 | 342.960 | 6399.89 | 9556.60 | 8262.72 | -5371.07 | 1650555.31 | 14248085.45 | 39°14'11.764"N | 80°57'51.097"W | 9854.99 | 326.975 | 1.44 | 0.03 | -1.44 | |

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Actual Wellpath Report

Genny Unit 1H AWP Proj: 21825'
Page 9 of 13



| REFERENCE WELLPATH IDENTIFICATION | | | |
|-----------------------------------|------------------------------|----------|-------------------|
| Operator | ANTERO RESOURCES CORPORATION | Slot | Slot #04 |
| Area | Ritchie County, WV | Well | Genny Unit 1H |
| Field | Ritchie | Wellbore | Genny Unit 1H AWB |
| Facility | Lynn Camp Pad | | |

| WELLPATH DATA (267 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 |
| 16626.00 | 89.480 | 341.770 | 6400.78 | 9651.57 | 8353.25 | -5399.85 | 1650526.54 | 14248175.94 | 39°14'12.659"N | 80°57'51.462"W | 9946.61 | 327.120 | 1.25 | 0.03 | -1.25 | |
| 16722.00 | 89.420 | 340.720 | 6401.70 | 9747.57 | 8444.14 | -5430.72 | 1650495.69 | 14248266.80 | 39°14'13.557"N | 80°57'51.854"W | 10039.73 | 327.254 | 1.10 | -0.06 | -1.09 | |
| 16816.00 | 89.420 | 338.510 | 6402.65 | 9841.52 | 8532.25 | -5463.46 | 1650462.96 | 14248354.87 | 39°14'14.428"N | 80°57'52.270"W | 10131.56 | 327.367 | 2.35 | 0.00 | -2.35 | |
| 16910.00 | 89.480 | 337.660 | 6403.56 | 9935.39 | 8619.45 | -5498.54 | 1650427.89 | 14248442.04 | 39°14'15.290"N | 80°57'52.715"W | 10223.93 | 327.465 | 0.91 | 0.06 | -0.90 | |
| 17005.00 | 89.510 | 337.630 | 6404.39 | 10030.21 | 8707.31 | -5534.67 | 1650391.78 | 14248529.86 | 39°14'16.159"N | 80°57'53.174"W | 10317.45 | 327.559 | 0.04 | 0.03 | -0.03 | |
| 17099.00 | 89.380 | 338.270 | 6405.30 | 10124.06 | 8794.43 | -5569.96 | 1650356.50 | 14248616.94 | 39°14'17.020"N | 80°57'53.622"W | 10409.92 | 327.652 | 0.69 | -0.14 | 0.68 | |
| 17194.00 | 89.850 | 338.610 | 6405.94 | 10218.96 | 8882.78 | -5604.87 | 1650321.61 | 14248705.26 | 39°14'17.893"N | 80°57'54.065"W | 10503.25 | 327.749 | 0.61 | 0.49 | 0.36 | |
| 17288.00 | 89.750 | 338.110 | 6406.27 | 10312.85 | 8970.15 | -5639.53 | 1650286.96 | 14248792.60 | 39°14'18.757"N | 80°57'54.505"W | 10595.65 | 327.842 | 0.54 | -0.11 | -0.53 | |
| 17383.00 | 89.630 | 337.700 | 6406.79 | 10407.70 | 9058.17 | -5675.26 | 1650251.24 | 14248880.58 | 39°14'19.627"N | 80°57'54.959"W | 10689.20 | 327.931 | 0.45 | -0.13 | -0.43 | |
| 17477.00 | 89.660 | 336.440 | 6407.37 | 10501.46 | 9144.74 | -5711.88 | 1650214.63 | 14248967.12 | 39°14'20.483"N | 80°57'55.424"W | 10782.02 | 328.011 | 1.34 | 0.03 | -1.34 | |
| 17573.00 | 89.540 | 337.260 | 6408.04 | 10597.19 | 9233.01 | -5749.62 | 1650176.91 | 14249055.35 | 39°14'21.355"N | 80°57'55.903"W | 10876.89 | 328.088 | 0.86 | -0.12 | 0.85 | |
| 17669.00 | 89.660 | 338.100 | 6408.71 | 10693.02 | 9321.81 | -5786.08 | 1650140.47 | 14249144.12 | 39°14'22.233"N | 80°57'56.366"W | 10971.55 | 328.172 | 0.88 | 0.12 | 0.87 | |
| 17764.00 | 89.630 | 339.300 | 6409.30 | 10787.93 | 9410.32 | -5820.59 | 1650105.97 | 14249232.59 | 39°14'23.108"N | 80°57'56.804"W | 11064.96 | 328.262 | 1.26 | -0.03 | 1.26 | |
| 17859.00 | 89.660 | 341.930 | 6409.89 | 10882.91 | 9499.93 | -5852.12 | 1650074.46 | 14249322.16 | 39°14'23.994"N | 80°57'57.205"W | 11157.77 | 328.366 | 2.77 | 0.03 | 2.77 | |
| 17954.00 | 89.630 | 344.010 | 6410.47 | 10977.86 | 9590.75 | -5879.94 | 1650046.65 | 14249412.95 | 39°14'24.892"N | 80°57'57.558"W | 11249.72 | 328.488 | 2.19 | -0.03 | 2.19 | |
| 18047.00 | 89.780 | 346.260 | 6410.95 | 11070.62 | 9680.63 | -5903.80 | 1650022.80 | 14249502.79 | 39°14'25.780"N | 80°57'57.861"W | 11338.85 | 328.623 | 2.42 | 0.16 | 2.42 | |
| 18142.00 | 89.780 | 345.890 | 6411.32 | 11165.26 | 9772.84 | -5926.66 | 1649999.95 | 14249594.96 | 39°14'26.692"N | 80°57'58.151"W | 11429.51 | 328.766 | 0.39 | 0.00 | -0.39 | |
| 18238.00 | 89.720 | 344.500 | 6411.74 | 11261.02 | 9865.65 | -5951.19 | 1649975.43 | 14249687.74 | 39°14'27.609"N | 80°57'58.462"W | 11521.62 | 328.901 | 1.45 | -0.06 | -1.45 | |
| 18335.00 | 89.780 | 343.380 | 6412.16 | 11357.89 | 9958.86 | -5978.02 | 1649948.60 | 14249780.91 | 39°14'28.531"N | 80°57'58.803"W | 11615.32 | 329.025 | 1.16 | 0.06 | -1.15 | |
| 18429.00 | 89.690 | 343.170 | 6412.59 | 11451.83 | 10048.89 | -6005.07 | 1649921.56 | 14249870.90 | 39°14'29.420"N | 80°57'59.146"W | 11706.45 | 329.138 | 0.24 | -0.10 | -0.22 | |
| 18524.00 | 89.720 | 341.590 | 6413.08 | 11546.80 | 10139.42 | -6033.83 | 1649892.82 | 14249961.40 | 39°14'30.315"N | 80°57'59.511"W | 11798.94 | 329.244 | 1.66 | 0.03 | -1.66 | |
| 18619.00 | 89.660 | 340.240 | 6413.60 | 11641.80 | 10229.20 | -6064.89 | 1649861.77 | 14250051.14 | 39°14'31.203"N | 80°57'59.905"W | 11891.99 | 329.336 | 1.42 | -0.06 | -1.42 | |
| 18714.00 | 89.690 | 340.900 | 6414.14 | 11736.79 | 10318.79 | -6096.49 | 1649830.18 | 14250140.69 | 39°14'32.088"N | 80°58'00.307"W | 11985.18 | 329.425 | 0.70 | 0.03 | 0.69 | |
| 18808.00 | 89.720 | 340.660 | 6414.62 | 11830.79 | 10407.55 | -6127.43 | 1649799.25 | 14250229.41 | 39°14'32.966"N | 80°58'00.700"W | 12077.35 | 329.513 | 0.26 | 0.03 | -0.26 | |
| 18904.00 | 89.750 | 339.220 | 6415.08 | 11926.76 | 10497.72 | -6160.36 | 1649766.34 | 14250319.55 | 39°14'33.857"N | 80°58'01.118"W | 12171.78 | 329.594 | 1.50 | 0.03 | -1.50 | |
| 18999.00 | 89.750 | 339.750 | 6415.48 | 12021.72 | 10586.69 | -6193.65 | 1649733.06 | 14250408.49 | 39°14'34.737"N | 80°58'01.540"W | 12265.37 | 329.671 | 0.56 | 0.00 | 0.56 | |
| 19093.00 | 89.510 | 341.130 | 6416.09 | 12115.71 | 10675.26 | -6225.12 | 1649701.60 | 14250497.02 | 39°14'35.612"N | 80°58'01.940"W | 12357.73 | 329.752 | 1.49 | -0.26 | 1.47 | |
| 19188.00 | 89.450 | 341.990 | 6416.95 | 12210.70 | 10765.38 | -6255.17 | 1649671.56 | 14250587.11 | 39°14'36.503"N | 80°58'02.321"W | 12450.73 | 329.841 | 0.91 | -0.06 | 0.91 | |
| 19282.00 | 89.540 | 341.780 | 6417.78 | 12304.69 | 10854.72 | -6284.40 | 1649642.35 | 14250676.41 | 39°14'37.386"N | 80°58'02.693"W | 12542.67 | 329.931 | 0.24 | 0.10 | -0.22 | |
| 19377.00 | 89.350 | 341.800 | 6418.70 | 12399.68 | 10944.96 | -6314.08 | 1649612.68 | 14250766.61 | 39°14'38.278"N | 80°58'03.069"W | 12635.65 | 330.020 | 0.20 | -0.20 | 0.02 | |

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Actual Wellpath Report

Genny Unit 1H AWP Proj: 21825'

Page 10 of 13



| REFERENCE WELLPATH IDENTIFICATION | | | | |
|-----------------------------------|------------------------------|--|----------|-------------------|
| Operator | ANTERO RESOURCES CORPORATION | | Slot | Slot #04 |
| Area | Ritchie County, WV | | Well | Genny Unit 1H |
| Field | Ritchie | | Wellbore | Genny Unit 1H AWB |
| Facility | Lynn Camp Pad | | | |

| WELLPATH DATA (267 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 |
| 19473.00 | 89.820 | 343.240 | 6419.39 | 12495.65 | 11036.52 | -6342.92 | 1649583.85 | 14250858.13 | 39°14'39.183"N | 80°58'03.436"W | 12729.39 | 330.113 | 1.58 | 0.49 | 1.50 | |
| 19568.00 | 89.380 | 342.220 | 6420.06 | 12590.60 | 11127.23 | -6371.12 | 1649555.66 | 14250948.81 | 39°14'40.080"N | 80°58'03.794"W | 12822.11 | 330.206 | 1.17 | -0.46 | -1.07 | |
| 19664.00 | 90.090 | 343.230 | 6420.50 | 12686.56 | 11218.90 | -6399.63 | 1649527.17 | 14251040.44 | 39°14'40.986"N | 80°58'04.155"W | 12915.84 | 330.298 | 1.29 | 0.74 | 1.05 | |
| 19759.00 | 89.420 | 342.370 | 6420.91 | 12781.52 | 11309.65 | -6427.72 | 1649499.09 | 14251131.15 | 39°14'41.883"N | 80°58'04.512"W | 13008.60 | 330.389 | 1.15 | -0.71 | -0.91 | |
| 19855.00 | 89.450 | 342.390 | 6421.85 | 12877.49 | 11401.14 | -6456.78 | 1649470.04 | 14251222.61 | 39°14'42.787"N | 80°58'04.881"W | 13102.52 | 330.476 | 0.04 | 0.03 | 0.02 | |
| 19951.00 | 89.480 | 343.060 | 6422.75 | 12973.45 | 11492.80 | -6485.28 | 1649441.55 | 14251314.24 | 39°14'43.694"N | 80°58'05.243"W | 13196.34 | 330.564 | 0.70 | 0.03 | 0.70 | |
| 20048.00 | 89.230 | 342.510 | 6423.84 | 13070.40 | 11585.45 | -6513.99 | 1649412.85 | 14251406.85 | 39°14'44.609"N | 80°58'05.607"W | 13291.15 | 330.653 | 0.62 | -0.26 | -0.57 | |
| 20143.00 | 89.510 | 342.540 | 6424.89 | 13165.37 | 11676.06 | -6542.51 | 1649384.34 | 14251497.42 | 39°14'45.505"N | 80°58'05.970"W | 13384.13 | 330.737 | 0.30 | 0.29 | 0.03 | |
| 20240.00 | 89.350 | 342.100 | 6425.85 | 13262.34 | 11768.48 | -6571.97 | 1649354.89 | 14251589.80 | 39°14'46.419"N | 80°58'06.344"W | 13479.16 | 330.819 | 0.48 | -0.16 | -0.45 | |
| 20337.00 | 89.320 | 342.340 | 6426.98 | 13359.31 | 11860.84 | -6601.59 | 1649325.29 | 14251682.12 | 39°14'47.331"N | 80°58'06.720"W | 13574.26 | 330.900 | 0.25 | -0.03 | 0.25 | |
| 20432.00 | 89.380 | 341.330 | 6428.05 | 13454.30 | 11951.10 | -6631.20 | 1649295.68 | 14251772.34 | 39°14'48.224"N | 80°58'07.096"W | 13667.54 | 330.976 | 1.06 | 0.06 | -1.06 | |
| 20529.00 | 89.450 | 341.360 | 6429.04 | 13551.29 | 12042.99 | -6662.23 | 1649264.67 | 14251864.21 | 39°14'49.132"N | 80°58'07.490"W | 13762.96 | 331.048 | 0.08 | 0.07 | 0.03 | |
| 20625.00 | 89.420 | 340.330 | 6429.99 | 13647.29 | 12133.67 | -6693.73 | 1649233.18 | 14251954.85 | 39°14'50.028"N | 80°58'07.890"W | 13857.56 | 331.116 | 1.07 | -0.03 | -1.07 | |
| 20721.00 | 89.480 | 339.170 | 6430.91 | 13743.25 | 12223.73 | -6726.96 | 1649199.97 | 14252044.87 | 39°14'50.919"N | 80°58'08.312"W | 13952.48 | 331.175 | 1.21 | 0.06 | -1.21 | |
| 20817.00 | 89.380 | 337.590 | 6431.87 | 13839.14 | 12312.97 | -6762.32 | 1649164.62 | 14252134.08 | 39°14'51.801"N | 80°58'08.761"W | 14047.72 | 331.224 | 1.65 | -0.10 | -1.65 | |
| 20914.00 | 89.510 | 337.260 | 6432.81 | 13935.93 | 12402.54 | -6799.56 | 1649127.40 | 14252223.60 | 39°14'52.686"N | 80°58'09.234"W | 14144.15 | 331.267 | 0.37 | 0.13 | -0.34 | |
| 21010.00 | 89.350 | 337.990 | 6433.76 | 14031.75 | 12491.30 | -6836.10 | 1649090.87 | 14252312.34 | 39°14'53.564"N | 80°58'09.698"W | 14239.56 | 331.309 | 0.78 | -0.17 | 0.78 | |
| 21107.00 | 89.630 | 339.640 | 6434.63 | 14128.66 | 12581.74 | -6871.15 | 1649055.83 | 14252402.74 | 39°14'54.458"N | 80°58'10.143"W | 14335.72 | 331.360 | 1.73 | 0.29 | 1.70 | |
| 21202.00 | 89.380 | 340.190 | 6435.45 | 14223.64 | 12670.96 | -6903.77 | 1649023.22 | 14252491.92 | 39°14'55.340"N | 80°58'10.557"W | 14429.67 | 331.416 | 0.64 | -0.26 | 0.58 | |
| 21297.00 | 89.480 | 340.920 | 6436.39 | 14318.63 | 12760.54 | -6935.40 | 1648991.61 | 14252581.46 | 39°14'56.225"N | 80°58'10.959"W | 14523.47 | 331.476 | 0.78 | 0.11 | 0.77 | |
| 21392.00 | 89.540 | 343.960 | 6437.20 | 14413.59 | 12851.10 | -6964.05 | 1648962.97 | 14252671.98 | 39°14'57.120"N | 80°58'11.323"W | 14616.73 | 331.547 | 3.20 | 0.06 | 3.20 | |
| 21488.00 | 89.540 | 344.740 | 6437.97 | 14509.43 | 12943.53 | -6989.95 | 1648937.08 | 14252764.38 | 39°14'58.034"N | 80°58'11.651"W | 14710.35 | 331.629 | 0.81 | 0.00 | 0.81 | |
| 21583.00 | 89.480 | 344.420 | 6438.79 | 14604.25 | 13035.11 | -7015.21 | 1648911.83 | 14252855.92 | 39°14'58.939"N | 80°58'11.972"W | 14802.95 | 331.712 | 0.34 | -0.06 | -0.34 | |
| 21677.00 | 89.480 | 345.230 | 6439.64 | 14698.05 | 13125.83 | -7039.81 | 1648887.24 | 14252946.60 | 39°14'59.836"N | 80°58'12.285"W | 14894.51 | 331.794 | 0.86 | 0.00 | 0.86 | |
| 21772.00 | 89.450 | 346.430 | 6440.53 | 14792.72 | 13217.93 | -7063.07 | 1648863.99 | 14253038.67 | 39°15'00.746"N | 80°58'12.580"W | 14986.68 | 331.882 | 1.26 | -0.03 | 1.26 | |
| 21800.00 | 89.540 | 346.750 | 6440.77 | 14820.59 | 13245.17 | -7069.56 | 1648857.50 | 14253065.90 | 39°15'01.015"N | 80°58'12.662"W | 15013.77 | 331.909 | 1.19 | 0.32 | 1.14 | |
| 21825.00 | 89.540 | 346.750 | 6440.98 | 14845.47 | 13269.50 | -7075.29 | 1648851.77 | 14253090.22 | 39°15'01.256"N | 80°58'12.735"W | 15037.93 | 331.933 | 0.00 | 0.00 | 0.00 | Projected MD at TD: 21825' |

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Actual Wellpath Report

Genny Unit 1H AWP Proj: 21825'

Page 11 of 13



| REFERENCE WELLPATH IDENTIFICATION | | | |
|-----------------------------------|------------------------------|----------|-------------------|
| Operator | ANTERO RESOURCES CORPORATION | Slot | Slot #04 |
| Area | Ritchie County, WV | Well | Genny Unit 1H |
| Field | Ritchie | Wellbore | Genny Unit 1H AWB |
| Facility | Lynn Camp Pad | | |

| HOLE & CASING SECTIONS - Ref Wellbore: Genny Unit 1H AWB Ref Wellpath: Genny Unit 1H AWP Proj: 21825' | | | | | | | | | |
|---|---------------|-------------|---------------|----------------|--------------|----------------|----------------|--------------|--------------|
| 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 | -0.39 | -0.01 |
| 17.5in Open Hole | 105.00 | 586.10 | 481.10 | 105.00 | 586.09 | -0.39 | -0.01 | -2.73 | -0.30 |
| 13.375in Casing Surface | 25.00 | 586.10 | 561.10 | 25.00 | 586.09 | 0.00 | 0.00 | -2.73 | -0.30 |
| 12.25in Open Hole | 586.10 | 2685.70 | 2099.60 | 586.09 | 2551.77 | -2.73 | -0.30 | -324.49 | -593.40 |
| 9.625in Casing Intermediate | 25.00 | 2685.70 | 2660.70 | 25.00 | 2551.77 | 0.00 | 0.00 | -324.49 | -593.40 |
| 8.75in Open Hole | 2685.70 | 6384.00 | 3698.30 | 2551.77 | 5883.68 | -324.49 | -593.40 | -1055.29 | -2005.99 |
| 8.5in Open Hole | 9384.00 | 21825.00 | 12441.00 | 6368.79 | 6440.98 | 1525.61 | -3030.61 | 13269.50 | -7075.29 |
| 5.5in Casing Production | 25.00 | 21825.00 | 21800.00 | 25.00 | 6440.98 | 0.00 | 0.00 | 13269.50 | -7075.29 |

| TARGETS | | | | | | | | |
|-------------------------|----------|------------|-----------|-------------------|--------------------|----------------|----------------|-------|
| Name | TVD [ft] | North [ft] | East [ft] | Grid East [US ft] | Grid North [US ft] | Latitude | Longitude | Shape |
| Genny Unit 1H POE Rev-2 | 6362.00 | -578.33 | -2353.16 | 1653572.01 | 14239247.95 | 39°12'44.367"N | 80°57'12.800"W | point |
| Genny Unit 1H BHL Rev-1 | 6387.00 | 13266.28 | -7091.07 | 1648836.00 | 14253087.00 | 39°15'01.224"N | 80°58'12.935"W | point |
| Genny Unit 1H LP Rev-2 | 6387.00 | -406.25 | -2412.04 | 1653513.15 | 14239419.96 | 39°12'46.068"N | 80°57'13.547"W | point |

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Actual Wellpath Report

Genny Unit 1H AWP Proj: 21825'

Page 12 of 13



| REFERENCE WELLPATH IDENTIFICATION | | | |
|-----------------------------------|------------------------------|----------|-------------------|
| Operator | ANTERO RESOURCES CORPORATION | Slot | Slot #04 |
| Area | Ritchie County, WV | Well | Genny Unit 1H |
| Field | Ritchie | Wellbore | Genny Unit 1H AWB |
| Facility | Lynn Camp Pad | | |

| WELLPATH COMPOSITION - Ref Wellbore: Genny Unit 1H AWB Ref Wellpath: Genny Unit 1H AWP Proj: 21825' | | | | |
|---|-------------|---|---|-------------------|
| Start MD (ft) | End MD (ft) | Positional Uncertainty Model | Log Name/Comment | Wellbore |
| 25.00 | 549.00 | Gyrodata standard - Drop gyro or Multi-shot | 01 Gyrodata MS Gyro <17-1/2">(100'-539') | Genny Unit 1H AWB |
| 549.00 | 2590.00 | OWSG MWD rev2 + HRGM | 02 WFT EM <12-1/4">(539')(619'-2580') | Genny Unit 1H AWB |
| 2590.00 | 6384.00 | OWSG MWD rev2 + HRGM | 03 WFT EM <8-3/4">(2580')(2709'-6374') | Genny Unit 1H AWB |
| 6384.00 | 21800.00 | BHI AutoTrak Curve (Short) | 04 BH AT Curve <8 1/2"> (6384')(6437'-21800') | Genny Unit 1H AWB |
| 21800.00 | 21825.00 | Blind Drilling (std) | Projection to bit | Genny Unit 1H AWB |

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 Environmental Protection



Actual Wellpath Report

Genny Unit 1H AWP Proj: 21825'

Page 13 of 13



| REFERENCE WELLPATH IDENTIFICATION | | | |
|-----------------------------------|------------------------------|----------|-------------------|
| Operator | ANTERO RESOURCES CORPORATION | Slot | Slot #04 |
| Area | Ritchie County, WV | Well | Genny Unit 1H |
| Field | Ritchie | Wellbore | Genny Unit 1H AWB |
| Facility | Lynn Camp Pad | | |

| COMMENTS |
|--|
| <p>Wellpath general comments API: 47-085-10382-0000 BHI Job #: 109825541 Rig: Patterson 342 Duration: 05/25/2019-05/28/2019 Gyrodata MS Gyro <17-1/2">(100'-539') WFT EM <12-1/4">(539')(619'-2580') WFT EM <8-3/4">(2580')(2709'-6374') BH AT Curve <8 1/2"> (6384')(6437'-21800') Middlesex: 6838' MD Burkett: 7078' MD Tully: 7189' MD Marcellus POE: 7256' MD Projected MD at TD: 21825'</p> |

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