



# ANTERO RESOURCES CORPORATION

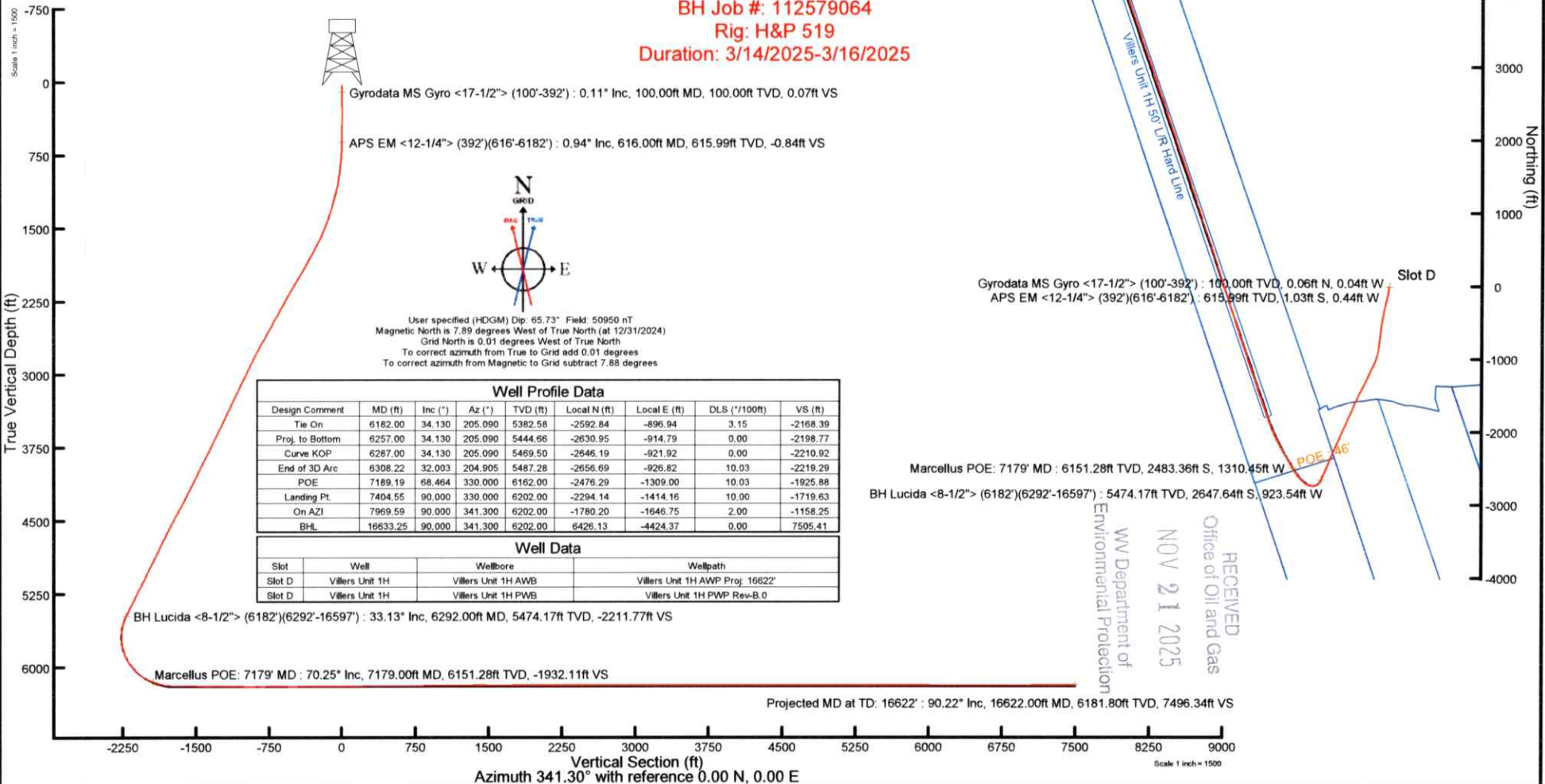
Location: Ritchie County, WV  
 Field: Ritchie  
 Facility: Husher Pad

Slot: Slot D  
 Well: Villers Unit 1H  
 Wellbore: Villers Unit 1H PWB



|  |  |
|--|--|
| Plot reference wellpath is Villers Unit 1H PWB Rev-B.0             | Grid System: NAD27 / UTM Zone 17 North, US feet                    |
| True vertical depths are referenced to H&P 519 (RKB)               | North Reference: Grid north  |
| Reference wellpath measured depths are referenced to H&P 519 (RKB) | Scale: True distance   |
| H&P 519 (RKB) to Mean Sea Level: 1037 feet                         | Coordinates are in feet referenced to Slot                         |
| Mean Sea Level to Ground level (At Slot: Slot D): -1007 feet       | Depths are in feet   |
| Offset wellpath MDs are referenced to each path's default MD datum | Created by: edsaryar on 2025-04-06; Database: WA_MPL_EASTERNUS_Dat |

| Location Information                             |                   |                    |                   |                    |
|--|-------------------|--------------------|-------------------|--------------------|
| Facility Name                                    | Grid East (US ft) | Grid North (US ft) | Latitude          | Longitude          |
| Husher Pad                                       | 1634418.610       | 14266440.160       | 39°17'13.2635"N   | 81°01'16.3141"W    |
| Slot   | Local N (ft)      | Local E (ft)       | Grid East (US ft) | Grid North (US ft) |
| Slot D   | -44.55            | -6.32              | 1634412.290       | 14266395.630       |
| Comment  | Villers Unit 1H   |                    |                   |                    |
| H&P 519 (RKB) to Ground level (At Slot: Slot D)  | 30ft              |                    |                   |                    |
| Mean Sea Level to Ground level (At Slot: Slot D) | -1007ft           |                    |                   |                    |
| H&P 519 (RKB) to Mean Sea Level                  | 1037ft            |                    |                   |                    |



| Well Profile Data |          |         |         |          |              |              |               |          |
|-------------------|----------|---------|---------|----------|--------------|--------------|---------------|----------|
| Design Comment    | MD (ft)  | Inc (") | Az (°)  | TVD (ft) | Local N (ft) | Local E (ft) | DLS ('/100ft) | VS (ft)  |
| Tie On            | 6182.00  | 34.130  | 205.090 | 5382.58  | -2592.84     | -896.94      | 3.15          | -2168.39 |
| Proj. to Bottom   | 6257.00  | 34.130  | 205.090 | 5444.66  | -2630.95     | -914.79      | 0.00          | -2198.77 |
| Curve KOP         | 6287.00  | 34.130  | 205.090 | 5469.50  | -2646.19     | -921.92      | 0.00          | -2210.92 |
| End of 3D Arc     | 6308.22  | 32.003  | 204.905 | 5487.28  | -2656.69     | -926.82      | 10.03         | -2219.29 |
| POE               | 7189.19  | 68.464  | 330.000 | 6162.00  | -2476.29     | -1309.00     | 10.03         | -1925.88 |
| Landing Pt.       | 7404.55  | 90.000  | 330.000 | 6202.00  | -2294.14     | -1414.16     | 10.00         | -1719.63 |
| On AZI            | 7969.59  | 90.000  | 341.300 | 6202.00  | -1780.20     | -1646.75     | 2.00          | -1158.25 |
| BHL               | 16633.25 | 90.000  | 341.300 | 6202.00  | 6426.13      | -4424.37     | 0.00          | 7505.41  |

| Well Data |                 |                     |                                  |
|-----------|-----------------|---------------------|----------------------------------|
| Slot      | Well            | Wellbore            | Wellpath                         |
| Slot D    | Villers Unit 1H | Villers Unit 1H AWB | Villers Unit 1H AWP Proj: 16622' |
| Slot D    | Villers Unit 1H | Villers Unit 1H PWB | Villers Unit 1H PWP Rev-B.0      |



# Actual Wellpath Report

Villers Unit 1H AWP Proj: 16622'

Page 1 of 10



## REFERENCE WELLPATH IDENTIFICATION

|          |                              |          |                     |
|----------|------------------------------|----------|---------------------|
| Operator | ANTERO RESOURCES CORPORATION | Well     | Villers Unit 1H     |
| Field    | Ritchie                      | API      | 47-085-10538-0000   |
| Facility | Husher Pad                   | Wellbore | Villers Unit 1H AWB |
| Slot     | Slot D                       |          |                     |

## REPORT SETUP INFORMATION

|                     |                                    |                  |                        |
|---------------------|------------------------------------|------------------|------------------------|
| Projection System   | NAD27 / UTM Zone 17 North, US feet | Software System  | WellArchitect® 6.0     |
| North Reference     | Grid                               | User             | Edsaryar               |
| Scale               | 0.999600                           | Report Generated | 4/6/2025 at 6:16:32 PM |
| Convergence at slot | 0.01° West                         | Database         | WA_MPL_EASTERNUS_Defn  |

## WELLPATH LOCATION

|                       | Local coordinates |          | Grid coordinates |                 | Geographic coordinates |                 |
|-----------------------|-------------------|----------|------------------|-----------------|------------------------|-----------------|
|                       | North[ft]         | East[ft] | Easting[US ft]   | Northing[US ft] | Latitude               | Longitude       |
| Slot Location         | -44.55            | -6.32    | 1634412.29       | 14266395.63     | 39°17'12.8231"N        | 81°01'16.3944"W |
| Facility Reference Pt |                   |          | 1634418.61       | 14266440.16     | 39°17'13.2635"N        | 81°01'16.3141"W |
| Field Reference Pt    |                   |          | 0.00             | 0.00            | 0°00'0.0000"           | 85°29'19.3013"W |

## WELLPATH DATUM

|                          |                   |  |                   |
|--------------------------|-------------------|--|-------------------|
| Calculation method       | Minimum curvature | H&P 519 (RKB) to Facility Vertical Datum       | 1037.00ft         |
| Horizontal Reference Pt  | Slot              | H&P 519 (RKB) to Mean Sea Level                | 1037.00ft         |
| Vertical Reference Pt    | H&P 519 (RKB)     | H&P 519 (RKB) to Ground Level at Slot (Slot D) | 30.00ft           |
| MD Reference Pt          | H&P 519 (RKB)     | Section Origin                                 | N 0.00, E 0.00 ft |
| Field Vertical Reference | Mean Sea Level    | Section Azimuth                                | 341.30°           |

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# Actual Wellpath Report

Villers Unit 1H AWP Proj: 16622'

Page 2 of 10



| REFERENCE WELLPATH IDENTIFICATION |                              |          |                     |
|-----------------------------------|------------------------------|----------|---------------------|
| Operator                          | ANTERO RESOURCES CORPORATION | Well     | Villers Unit 1H     |
| Field                             | Ritchie                      | API      | 47-085-10538-0000   |
| Facility                          | Husher Pad                   | Wellbore | Villers Unit 1H AWB |
| Slot                              | Slot D                       |          |                     |

**WELLPATH DATA (183 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           | 328.040     | 0.00     | 0.00           | 0.00       | 0.00      | 1634412.29        | 14266395.63        | 39°17'12.8231"N | 81°01'16.3944"W | 0.00              | 0.000           | 0.00          | 0.00                 | 0.00                |  |
| 30.00   | 0.000           | 328.040     | 30.00    | 0.00           | 0.00       | 0.00      | 1634412.29        | 14266395.63        | 39°17'12.8231"N | 81°01'16.3944"W | 0.00              | 0.000           | 0.00          | 0.00                 | 0.00                |  |
| 100.00  | 0.110           | 328.040     | 100.00   | 0.07           | 0.06       | -0.04     | 1634412.25        | 14266395.69        | 39°17'12.8237"N | 81°01'16.3948"W | 0.07              | 328.040         | 0.16          | 0.16                 | 0.00                | Gyrodata MS Gyro <17-1/2"> (100'-392') |
| 200.00  | 0.210           | 349.180     | 200.00   | 0.34           | 0.32       | -0.12     | 1634412.17        | 14266395.95        | 39°17'12.8263"N | 81°01'16.3959"W | 0.34              | 339.229         | 0.11          | 0.10                 | 21.14               |  |
| 300.00  | 0.230           | 22.300      | 300.00   | 0.67           | 0.68       | -0.08     | 1634412.21        | 14266396.31        | 39°17'12.8299"N | 81°01'16.3954"W | 0.69              | 353.411         | 0.13          | 0.02                 | 33.12               |  |
| 392.00  | 0.210           | 120.910     | 392.00   | 0.68           | 0.77       | 0.14      | 1634412.43        | 14266396.40        | 39°17'12.8307"N | 81°01'16.3927"W | 0.78              | 10.015          | 0.36          | -0.02                | 107.18              |  |
| 616.00  | 0.940           | 210.240     | 615.99   | -0.84          | -1.03      | -0.44     | 1634411.85        | 14266394.60        | 39°17'12.8130"N | 81°01'16.3999"W | 1.12              | 203.015         | 0.43          | 0.33                 | 39.88               | APS EM <12-1/4"> (392')(616'-6182')    |
| 711.00  | 3.620           | 192.430     | 710.90   | -3.91          | -4.63      | -1.48     | 1634410.81        | 14266391.00        | 39°17'12.7774"N | 81°01'16.4131"W | 4.86              | 197.669         | 2.88          | 2.82                 | -18.75              |  |
| 806.00  | 5.430           | 189.030     | 805.60   | -10.46         | -12.00     | -2.83     | 1634409.46        | 14266383.63        | 39°17'12.7045"N | 81°01'16.4303"W | 12.33             | 193.254         | 1.93          | 1.91                 | -3.58               |  |
| 901.00  | 7.910           | 189.490     | 899.95   | -20.20         | -22.89     | -4.61     | 1634407.68        | 14266372.75        | 39°17'12.5969"N | 81°01'16.4529"W | 23.35             | 191.388         | 2.61          | 2.61                 | 0.48                |  |
| 996.00  | 10.720          | 187.510     | 993.69   | -33.89         | -38.10     | -6.84     | 1634405.45        | 14266357.55        | 39°17'12.4466"N | 81°01'16.4813"W | 38.71             | 190.183         | 2.98          | 2.96                 | -2.08               |  |
| 1091.00 | 13.770          | 186.870     | 1086.52  | -52.02         | -58.09     | -9.35     | 1634402.94        | 14266337.56        | 39°17'12.2490"N | 81°01'16.5131"W | 58.84             | 189.145         | 3.21          | 3.21                 | -0.67               |  |
| 1143.00 | 15.190          | 189.590     | 1136.87  | -63.61         | -70.95     | -11.23    | 1634401.07        | 14266324.71        | 39°17'12.1219"N | 81°01'16.5369"W | 71.83             | 188.991         | 3.03          | 2.73                 | 5.23                |  |
| 1238.00 | 17.750          | 191.590     | 1227.96  | -87.07         | -97.41     | -16.21    | 1634396.09        | 14266298.26        | 39°17'11.8603"N | 81°01'16.6002"W | 98.75             | 189.448         | 2.76          | 2.69                 | 2.11                |  |
| 1333.00 | 20.070          | 192.400     | 1317.83  | -113.54        | -127.52    | -22.62    | 1634389.68        | 14266268.16        | 39°17'11.5627"N | 81°01'16.6817"W | 129.51            | 190.059         | 2.46          | 2.44                 | 0.85                |  |
| 1427.00 | 23.040          | 193.200     | 1405.25  | -142.97        | -161.19    | -30.29    | 1634382.02        | 14266234.50        | 39°17'11.2299"N | 81°01'16.7791"W | 164.01            | 190.641         | 3.17          | 3.16                 | 0.85                |  |
| 1522.00 | 26.120          | 193.680     | 1491.63  | -176.42        | -199.62    | -39.48    | 1634372.83        | 14266196.09        | 39°17'10.8501"N | 81°01'16.8959"W | 203.49            | 191.187         | 3.25          | 3.24                 | 0.51                |  |
| 1617.00 | 28.990          | 192.970     | 1575.84  | -213.69        | -242.38    | -49.59    | 1634362.72        | 14266153.35        | 39°17'10.4274"N | 81°01'17.0244"W | 247.40            | 191.564         | 3.04          | 3.02                 | -0.75               |  |
| 1712.00 | 31.950          | 192.390     | 1657.71  | -254.81        | -289.38    | -60.16    | 1634352.16        | 14266106.37        | 39°17'9.9629"N  | 81°01'17.1586"W | 295.56            | 191.744         | 3.13          | 3.12                 | -0.61               |  |
| 1807.00 | 32.370          | 191.700     | 1738.14  | -298.27        | -338.83    | -70.71    | 1634341.61        | 14266056.94        | 39°17'9.4741"N  | 81°01'17.2926"W | 346.13            | 191.787         | 0.59          | 0.44                 | -0.73               |  |
| 1902.00 | 31.590          | 190.110     | 1818.72  | -342.01        | -388.23    | -80.23    | 1634332.09        | 14266007.56        | 39°17'8.9858"N  | 81°01'17.4136"W | 396.43            | 191.676         | 1.21          | -0.82                | -1.67               |  |
| 1997.00 | 33.430          | 189.270     | 1898.83  | -386.93        | -438.56    | -88.82    | 1634323.51        | 14265957.25        | 39°17'8.4884"N  | 81°01'17.5226"W | 447.46            | 191.449         | 1.99          | 1.94                 | -0.88               |  |
| 2092.00 | 33.570          | 189.240     | 1978.05  | -433.25        | -490.31    | -97.25    | 1634315.08        | 14265905.52        | 39°17'7.9768"N  | 81°01'17.6297"W | 499.86            | 191.219         | 0.15          | 0.15                 | -0.03               |  |
| 2186.00 | 33.530          | 188.040     | 2056.39  | -479.39        | -541.67    | -105.05   | 1634307.28        | 14265854.18        | 39°17'7.4692"N  | 81°01'17.7288"W | 551.76            | 190.976         | 0.71          | -0.04                | -1.28               |  |
| 2281.00 | 33.060          | 185.220     | 2135.80  | -526.51        | -593.46    | -111.08   | 1634301.25        | 14265802.41        | 39°17'6.9573"N  | 81°01'17.8053"W | 603.76            | 190.602         | 1.70          | -0.49                | -2.97               |  |
| 2376.00 | 31.760          | 187.100     | 2216.00  | -572.71        | -644.07    | -116.53   | 1634295.81        | 14265751.82        | 39°17'6.4570"N  | 81°01'17.8744"W | 654.53            | 190.255         | 1.73          | -1.37                | 1.98                |  |
| 2470.00 | 30.700          | 186.660     | 2296.38  | -616.67        | -692.46    | -122.37   | 1634289.97        | 14265703.45        | 39°17'5.9788"N  | 81°01'17.9486"W | 703.19            | 190.022         | 1.15          | -1.13                | -0.47               |  |
| 2565.00 | 30.800          | 186.980     | 2378.03  | -660.50        | -740.69    | -128.14   | 1634284.20        | 14265655.24        | 39°17'5.5021"N  | 81°01'18.0218"W | 751.69            | 189.815         | 0.20          | 0.11                 | 0.34                |  |
| 2660.00 | 31.020          | 187.780     | 2459.53  | -704.33        | -789.08    | -134.41   | 1634277.94        | 14265606.86        | 39°17'5.0238"N  | 81°01'18.1014"W | 800.45            | 189.667         | 0.49          | 0.23                 | 0.84                |  |
| 2755.00 | 31.260          | 188.230     | 2540.84  | -748.22        | -837.73    | -141.25   | 1634271.10        | 14265558.24        | 39°17'4.5429"N  | 81°01'18.1882"W | 849.56            | 189.571         | 0.35          | 0.25                 | 0.47                |  |

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# Actual Wellpath Report

Villers Unit 1H AWP Proj: 16622'

Page 3 of 10



## REFERENCE WELLPATH IDENTIFICATION

|          |                              |          |                     |
|----------|------------------------------|----------|---------------------|
| Operator | ANTERO RESOURCES CORPORATION | Well     | Villers Unit 1H     |
| Field    | Ritchie                      | API      | 47-085-10538-0000   |
| Facility | Husher Pad                   | Wellbore | Villers Unit 1H AWB |
| Slot     | Slot D                       |          |                     |

## WELLPATH DATA (183 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 |
|---------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|-----------------|-----------------|-------------------|-----------------|---------------|----------------------|---------------------|----------|
| 2850.00 | 32.720          | 190.690     | 2621.42  | -792.57        | -887.36    | -149.54   | 1634262.81        | 14265508.63        | 39°17'4.0524"N  | 81°01'18.2935"W | 899.87            | 189.566         | 2.06          | 1.54                 | 2.59                |          |
| 2945.00 | 33.280          | 193.710     | 2701.10  | -836.95        | -937.92    | -160.48   | 1634251.87        | 14265458.09        | 39°17'3.5527"N  | 81°01'18.4325"W | 951.55            | 189.710         | 1.83          | 0.59                 | 3.18                |          |
| 3043.00 | 32.730          | 197.840     | 2783.29  | -880.94        | -989.26    | -174.97   | 1634237.39        | 14265406.76        | 39°17'3.0451"N  | 81°01'18.6167"W | 1004.62           | 190.030         | 2.36          | -0.56                | 4.21                |          |
| 3138.00 | 32.840          | 202.560     | 2863.17  | -920.95        | -1037.51   | -192.73   | 1634219.64        | 14265358.54        | 39°17'2.5682"N  | 81°01'18.8423"W | 1055.26           | 190.523         | 2.69          | 0.12                 | 4.97                |          |
| 3232.00 | 33.210          | 205.580     | 2941.99  | -958.54        | -1084.27   | -213.62   | 1634198.75        | 14265311.80        | 39°17'2.1060"N  | 81°01'19.1079"W | 1105.11           | 191.146         | 1.79          | 0.39                 | 3.21                |          |
| 3327.00 | 34.140          | 204.460     | 3021.05  | -996.61        | -1132.00   | -235.89   | 1634176.49        | 14265264.08        | 39°17'1.6342"N  | 81°01'19.3910"W | 1156.32           | 191.771         | 1.18          | 0.98                 | -1.18               |          |
| 3422.00 | 34.070          | 206.030     | 3099.71  | -1034.96       | -1180.18   | -258.61   | 1634153.78        | 14265215.93        | 39°17'1.1580"N  | 81°01'19.6797"W | 1208.18           | 192.360         | 0.93          | -0.07                | 1.65                |          |
| 3516.00 | 33.120          | 204.250     | 3178.01  | -1072.47       | -1227.25   | -280.71   | 1634131.69        | 14265168.87        | 39°17'0.6926"N  | 81°01'19.9606"W | 1258.95           | 192.884         | 1.46          | -1.01                | -1.89               |          |
| 3611.00 | 33.640          | 204.810     | 3257.34  | -1110.55       | -1274.80   | -302.41   | 1634110.00        | 14265121.34        | 39°17'0.2226"N  | 81°01'20.2365"W | 1310.18           | 193.345         | 0.64          | 0.55                 | 0.59                |          |
| 3706.00 | 34.750          | 207.300     | 3335.92  | -1148.44       | -1322.75   | -325.87   | 1634086.55        | 14265073.41        | 39°16'59.7487"N | 81°01'20.5347"W | 1362.30           | 193.840         | 1.88          | 1.17                 | 2.62                |          |
| 3801.00 | 33.830          | 206.750     | 3414.41  | -1185.80       | -1370.43   | -350.20   | 1634062.23        | 14265025.76        | 39°16'59.2774"N | 81°01'20.8438"W | 1414.46           | 194.335         | 1.02          | -0.97                | -0.58               |          |
| 3895.00 | 34.100          | 206.950     | 3492.37  | -1222.58       | -1417.28   | -373.92   | 1634038.52        | 14264978.92        | 39°16'58.8142"N | 81°01'21.1453"W | 1465.77           | 194.779         | 0.31          | 0.29                 | 0.21                |          |
| 3990.00 | 34.430          | 206.240     | 3570.88  | -1260.21       | -1465.11   | -397.86   | 1634014.59        | 14264931.11        | 39°16'58.3415"N | 81°01'21.4497"W | 1518.17           | 195.193         | 0.55          | 0.35                 | -0.75               |          |
| 4084.00 | 33.490          | 205.570     | 3648.85  | -1297.59       | -1512.34   | -420.80   | 1633991.66        | 14264883.90        | 39°16'57.8746"N | 81°01'21.7413"W | 1569.79           | 195.549         | 1.08          | -1.00                | -0.71               |          |
| 4179.00 | 34.360          | 205.780     | 3727.68  | -1335.48       | -1560.12   | -443.78   | 1633968.69        | 14264836.13        | 39°16'57.4022"N | 81°01'22.0333"W | 1622.01           | 195.878         | 0.92          | 0.92                 | 0.22                |          |
| 4274.00 | 34.790          | 204.740     | 3805.90  | -1374.29       | -1608.88   | -466.78   | 1633945.70        | 14264787.40        | 39°16'56.9203"N | 81°01'22.3257"W | 1675.22           | 196.179         | 0.77          | 0.45                 | -1.09               |          |
| 4369.00 | 34.000          | 201.840     | 3884.29  | -1414.16       | -1658.15   | -488.00   | 1633924.48        | 14264738.14        | 39°16'56.4332"N | 81°01'22.5954"W | 1728.47           | 196.399         | 1.91          | -0.83                | -3.05               |          |
| 4463.00 | 33.340          | 202.630     | 3962.52  | -1453.53       | -1706.39   | -507.72   | 1633904.77        | 14264689.93        | 39°16'55.9564"N | 81°01'22.8460"W | 1780.32           | 196.570         | 0.84          | -0.70                | 0.84                |          |
| 4558.00 | 34.340          | 205.220     | 4041.43  | -1492.44       | -1754.73   | -529.18   | 1633883.32        | 14264641.60        | 39°16'55.4786"N | 81°01'23.1188"W | 1832.79           | 196.782         | 1.85          | 1.05                 | 2.73                |          |
| 4652.00 | 34.620          | 205.060     | 4118.92  | -1530.82       | -1802.91   | -551.79   | 1633860.72        | 14264593.45        | 39°16'55.0024"N | 81°01'23.4062"W | 1885.46           | 197.017         | 0.31          | 0.30                 | -0.17               |          |
| 4747.00 | 33.760          | 203.630     | 4197.50  | -1569.83       | -1851.54   | -573.80   | 1633838.72        | 14264544.84        | 39°16'54.5217"N | 81°01'23.6859"W | 1938.41           | 197.219         | 1.24          | -0.91                | -1.51               |          |
| 4842.00 | 34.170          | 202.700     | 4276.29  | -1609.35       | -1900.33   | -594.68   | 1633817.85        | 14264496.06        | 39°16'54.0393"N | 81°01'23.9513"W | 1991.21           | 197.377         | 0.70          | 0.43                 | -0.98               |          |
| 4937.00 | 35.910          | 204.310     | 4354.07  | -1649.74       | -1950.34   | -616.44   | 1633796.09        | 14264446.08        | 39°16'53.5450"N | 81°01'24.2279"W | 2045.44           | 197.540         | 2.07          | 1.83                 | 1.69                |          |
| 5031.00 | 36.860          | 204.780     | 4429.75  | -1690.36       | -2001.06   | -639.61   | 1633772.94        | 14264395.38        | 39°16'53.0437"N | 81°01'24.5223"W | 2100.79           | 197.726         | 1.05          | 1.01                 | 0.50                |          |
| 5126.00 | 36.080          | 202.690     | 4506.15  | -1732.02       | -2052.74   | -662.35   | 1633750.21        | 14264343.72        | 39°16'52.5328"N | 81°01'24.8113"W | 2156.95           | 197.883         | 1.54          | -0.82                | -2.20               |          |
| 5221.00 | 34.570          | 204.310     | 4583.66  | -1772.72       | -2103.11   | -684.23   | 1633728.33        | 14264293.36        | 39°16'52.0348"N | 81°01'25.0895"W | 2211.62           | 198.022         | 1.87          | -1.59                | 1.71                |          |
| 5315.00 | 33.890          | 205.680     | 4661.37  | -1810.95       | -2151.04   | -706.57   | 1633706.01        | 14264245.46        | 39°16'51.5611"N | 81°01'25.3734"W | 2264.11           | 198.184         | 1.09          | -0.72                | 1.46                |          |
| 5410.00 | 33.070          | 203.640     | 4740.61  | -1849.04       | -2198.65   | -728.44   | 1633684.14        | 14264197.86        | 39°16'51.0904"N | 81°01'25.6513"W | 2316.18           | 198.331         | 1.47          | -0.86                | -2.15               |          |
| 5505.00 | 33.340          | 203.440     | 4820.10  | -1887.56       | -2246.35   | -749.22   | 1633663.37        | 14264150.18        | 39°16'50.6190"N | 81°01'25.9154"W | 2368.00           | 198.445         | 0.31          | 0.28                 | -0.21               |          |
| 5599.00 | 33.840          | 203.590     | 4898.41  | -1926.07       | -2294.04   | -769.97   | 1633642.63        | 14264102.52        | 39°16'50.1476"N | 81°01'26.1791"W | 2419.81           | 198.554         | 0.54          | 0.53                 | 0.16                |          |

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# Actual Wellpath Report

Villers Unit 1H AWP Proj: 16622'

Page 4 of 10



## REFERENCE WELLPATH IDENTIFICATION

|          |                              |          |                     |
|----------|------------------------------|----------|---------------------|
| Operator | ANTERO RESOURCES CORPORATION | Well     | Villers Unit 1H     |
| Field    | Ritchie                      | API      | 47-085-10538-0000   |
| Facility | Husher Pad                   | Wellbore | Villers Unit 1H AWB |
| Slot     | Slot D                       |          |                     |

## WELLPATH DATA (183 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                                 |
|----------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|-----------------|-----------------|-------------------|-----------------|---------------|----------------------|---------------------|--|
| 5694.00  | 33.030          | 201.550     | 4977.69  | -1965.40       | -2342.36   | -790.07   | 1633622.54        | 14264054.21        | 39°16'49.6699"N | 81°01'26.4345"W | 2472.02           | 198.639         | 1.46          | -0.85                | -2.15               |  |
| 5788.00  | 33.170          | 202.420     | 5056.43  | -2004.33       | -2389.96   | -809.28   | 1633603.33        | 14264006.63        | 39°16'49.1994"N | 81°01'26.6788"W | 2523.26           | 198.707         | 0.53          | 0.15                 | 0.93                |  |
| 5882.00  | 33.790          | 202.250     | 5134.83  | -2043.44       | -2437.93   | -828.99   | 1633583.63        | 14263958.68        | 39°16'48.7253"N | 81°01'26.9292"W | 2575.01           | 198.780         | 0.67          | 0.66                 | -0.18               |  |
| 5977.00  | 34.320          | 203.290     | 5213.54  | -2083.30       | -2486.98   | -849.58   | 1633563.05        | 14263909.65        | 39°16'48.2404"N | 81°01'27.1909"W | 2628.09           | 198.861         | 0.83          | 0.56                 | 1.09                |  |
| 6071.00  | 34.540          | 204.230     | 5291.08  | -2122.51       | -2535.62   | -870.99   | 1633541.65        | 14263861.03        | 39°16'47.7596"N | 81°01'27.4630"W | 2681.04           | 198.958         | 0.61          | 0.23                 | 1.00                |  |
| 6166.00  | 34.470          | 204.430     | 5369.36  | -2161.85       | -2584.65   | -893.17   | 1633519.48        | 14263812.02        | 39°16'47.2749"N | 81°01'27.7448"W | 2734.62           | 199.063         | 0.14          | -0.07                | 0.21                |  |
| 6182.00  | 34.130          | 205.090     | 5382.58  | -2168.39       | -2592.84   | -896.94   | 1633515.71        | 14263803.83        | 39°16'47.1940"N | 81°01'27.7928"W | 2743.60           | 199.082         | 3.15          | -2.12                | 4.13                |  |
| 6292.00  | 33.130          | 206.720     | 5474.17  | -2211.77       | -2647.64   | -923.54   | 1633489.12        | 14263749.06        | 39°16'46.6523"N | 81°01'28.1309"W | 2804.09           | 199.230         | 1.22          | -0.91                | 1.48                | BH Lucida <8-1/2"> (6182')(6292'-16597') |
| 6387.00  | 27.430          | 218.720     | 5556.25  | -2241.83       | -2687.97   | -948.95   | 1633463.72        | 14263708.74        | 39°16'46.2536"N | 81°01'28.4538"W | 2850.56           | 199.445         | 8.73          | -6.00                | 12.63               |  |
| 6481.00  | 25.090          | 239.250     | 5640.72  | -2257.68       | -2715.11   | -979.69   | 1633433.00        | 14263681.61        | 39°16'45.9852"N | 81°01'28.8446"W | 2886.46           | 199.841         | 9.93          | -2.49                | 21.84               |  |
| 6576.00  | 24.950          | 261.060     | 5726.99  | -2258.49       | -2728.55   | -1016.87  | 1633395.83        | 14263668.17        | 39°16'45.8523"N | 81°01'29.3174"W | 2911.88           | 200.439         | 9.66          | -0.15                | 22.96               |  |
| 6671.00  | 27.470          | 278.810     | 5812.35  | -2244.95       | -2728.31   | -1058.39  | 1633354.33        | 14263668.42        | 39°16'45.8546"N | 81°01'29.8454"W | 2926.41           | 201.203         | 8.63          | 2.65                 | 18.68               |  |
| 6766.00  | 32.810          | 296.300     | 5894.63  | -2216.56       | -2713.51   | -1103.23  | 1633309.50        | 14263683.21        | 39°16'46.0007"N | 81°01'30.4157"W | 2929.21           | 202.125         | 10.77         | 5.62                 | 18.41               |  |
| 6825.00† | 37.041          | 304.350     | 5943.02  | -2191.03       | -2696.39   | -1132.26  | 1633280.48        | 14263700.33        | 39°16'46.1699"N | 81°01'30.7849"W | 2924.47           | 202.778         | 10.59         | 7.17                 | 13.64               | Sycamore: 6825' MD                       |
| 6860.00  | 39.770          | 308.390     | 5970.45  | -2173.20       | -2683.48   | -1149.75  | 1633263.01        | 14263713.23        | 39°16'46.2974"N | 81°01'31.0073"W | 2919.42           | 203.193         | 10.59         | 7.80                 | 11.54               |  |
| 6943.00† | 47.410          | 315.866     | 6030.56  | -2123.21       | -2644.98   | -1191.92  | 1633220.85        | 14263751.71        | 39°16'46.6778"N | 81°01'31.5438"W | 2901.14           | 204.258         | 11.09         | 9.20                 | 9.01                | Middlesex: 6943' MD                      |
| 6955.00  | 48.550          | 316.790     | 6038.60  | -2115.13       | -2638.54   | -1198.08  | 1633214.70        | 14263758.16        | 39°16'46.7415"N | 81°01'31.6221"W | 2897.80           | 204.421         | 11.09         | 9.50                 | 7.70                |  |
| 7050.00  | 57.830          | 323.310     | 6095.49  | -2044.29       | -2580.18   | -1246.62  | 1633166.18        | 14263816.49        | 39°16'47.3182"N | 81°01'32.2395"W | 2865.55           | 205.788         | 11.20         | 9.77                 | 6.86                |  |
| 7117.00† | 64.675          | 326.859     | 6127.71  | -1987.91       | -2532.01   | -1280.16  | 1633132.64        | 14263864.63        | 39°16'47.7941"N | 81°01'32.6663"W | 2837.24           | 206.821         | 11.22         | 10.22                | 5.30                | Burkett: 7117' MD                        |
| 7145.00  | 67.560          | 328.220     | 6139.04  | -1963.05       | -2510.41   | -1293.90  | 1633118.91        | 14263886.23        | 39°16'48.0076"N | 81°01'32.8411"W | 2824.24           | 207.267         | 11.22         | 10.30                | 4.86                |  |
| 7173.00† | 69.778          | 328.743     | 6149.23  | -1937.62       | -2488.18   | -1307.53  | 1633105.28        | 14263908.45        | 39°16'48.2273"N | 81°01'33.0145"W | 2810.81           | 207.722         | 8.11          | 7.92                 | 1.87                | Tully: 7173' MD                          |
| 7179.00† | 70.253          | 328.854     | 6151.28  | -1932.11       | -2483.36   | -1310.45  | 1633102.36        | 14263913.27        | 39°16'48.2749"N | 81°01'33.0517"W | 2807.91           | 207.820         | 8.11          | 7.92                 | 1.84                | Marcellus POE: 7179' MD                  |
| 7240.00  | 75.090          | 329.940     | 6169.44  | -1875.15       | -2433.25   | -1340.08  | 1633072.75        | 14263963.36        | 39°16'48.7701"N | 81°01'33.4287"W | 2777.86           | 208.843         | 8.11          | 7.93                 | 1.78                |  |
| 7335.00  | 83.680          | 330.140     | 6186.92  | -1783.66       | -2352.43   | -1386.67  | 1633026.18        | 14264044.15        | 39°16'49.5688"N | 81°01'34.0214"W | 2730.71           | 210.518         | 9.04          | 9.04                 | 0.21                |  |
| 7429.00  | 89.970          | 330.520     | 6192.13  | -1691.56       | -2270.92   | -1433.10  | 1632979.77        | 14264125.63        | 39°16'50.3743"N | 81°01'34.6122"W | 2685.30           | 212.255         | 6.70          | 6.69                 | 0.40                |  |
| 7524.00  | 89.480          | 330.370     | 6192.58  | -1598.27       | -2188.28   | -1479.96  | 1632932.93        | 14264208.23        | 39°16'51.1909"N | 81°01'35.2084"W | 2641.75           | 214.071         | 0.54          | -0.52                | -0.16               |  |
| 7619.00  | 89.630          | 333.740     | 6193.32  | -1504.52       | -2104.37   | -1524.47  | 1632888.43        | 14264292.11        | 39°16'52.0201"N | 81°01'35.7747"W | 2598.54           | 215.921         | 3.55          | 0.16                 | 3.55                |  |
| 7714.00  | 89.110          | 336.730     | 6194.37  | -1410.06       | -2018.12   | -1564.26  | 1632848.66        | 14264378.32        | 39°16'52.8725"N | 81°01'36.2810"W | 2553.38           | 217.779         | 3.19          | -0.55                | 3.15                |  |
| 7809.00  | 88.980          | 337.560     | 6195.95  | -1315.33       | -1930.59   | -1601.15  | 1632811.78        | 14264465.81        | 39°16'53.7375"N | 81°01'36.7505"W | 2508.16           | 219.671         | 0.88          | -0.14                | 0.87                |  |
| 7903.00  | 89.450          | 339.110     | 6197.24  | -1221.47       | -1843.25   | -1635.85  | 1632777.10        | 14264553.13        | 39°16'54.6007"N | 81°01'37.1921"W | 2464.46           | 221.589         | 1.72          | 0.50                 | 1.65                |  |



# Actual Wellpath Report

Villers Unit 1H AWP Proj: 16622'

Page 5 of 10



## REFERENCE WELLPATH IDENTIFICATION

|          |                              |          |                     |
|----------|------------------------------|----------|---------------------|
| Operator | ANTERO RESOURCES CORPORATION | Well     | Villers Unit 1H     |
| Field    | Ritchie                      | API      | 47-085-10538-0000   |
| Facility | Husher Pad                   | Wellbore | Villers Unit 1H AWB |
| Slot     | Slot D                       |          |                     |

## WELLPATH DATA (183 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 |
|----------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|-----------------|-----------------|-------------------|-----------------|---------------|----------------------|---------------------|----------|
| 7998.00  | 90.030          | 341.460     | 6197.67  | -1126.49       | -1753.82   | -1667.90  | 1632745.07        | 14264642.51        | 39°16'55.4844"N | 81°01'37.6000"W | 2420.28           | 223.561         | 2.55          | 0.61                 | 2.47                |          |
| 8093.00  | 89.230          | 340.600     | 6198.28  | -1031.49       | -1663.98   | -1698.78  | 1632714.20        | 14264732.31        | 39°16'56.3723"N | 81°01'37.9930"W | 2377.96           | 225.593         | 1.24          | -0.84                | -0.91               |          |
| 8188.00  | 90.310          | 341.900     | 6198.66  | -936.50        | -1574.03   | -1729.31  | 1632683.67        | 14264822.23        | 39°16'57.2613"N | 81°01'38.3817"W | 2338.39           | 227.691         | 1.78          | 1.14                 | 1.37                |          |
| 8283.00  | 89.880          | 341.440     | 6198.51  | -841.50        | -1483.85   | -1759.19  | 1632653.81        | 14264912.38        | 39°16'58.1525"N | 81°01'38.7620"W | 2301.42           | 229.853         | 0.66          | -0.45                | -0.48               |          |
| 8377.00  | 90.400          | 342.520     | 6198.28  | -747.51        | -1394.46   | -1788.27  | 1632624.74        | 14265001.73        | 39°16'59.0359"N | 81°01'39.1321"W | 2267.69           | 232.053         | 1.28          | 0.55                 | 1.15                |          |
| 8472.00  | 89.910          | 341.310     | 6198.02  | -652.52        | -1304.16   | -1817.76  | 1632595.26        | 14265091.99        | 39°16'59.9283"N | 81°01'39.5075"W | 2237.20           | 234.342         | 1.37          | -0.52                | -1.27               |          |
| 8567.00  | 89.540          | 340.790     | 6198.48  | -557.52        | -1214.31   | -1848.61  | 1632564.43        | 14265181.81        | 39°17'0.8163"N  | 81°01'39.9002"W | 2211.76           | 236.700         | 0.67          | -0.39                | -0.55               |          |
| 8661.00  | 90.370          | 342.260     | 6198.55  | -463.52        | -1125.16   | -1878.39  | 1632534.65        | 14265270.92        | 39°17'1.6974"N  | 81°01'40.2794"W | 2189.60           | 239.078         | 1.80          | 0.88                 | 1.56                |          |
| 8756.00  | 90.280          | 341.030     | 6198.01  | -368.53        | -1034.99   | -1908.31  | 1632504.75        | 14265361.05        | 39°17'2.5884"N  | 81°01'40.6602"W | 2170.91           | 241.526         | 1.30          | -0.09                | -1.29               |          |
| 8850.00  | 90.550          | 341.960     | 6197.33  | -274.53        | -945.86    | -1938.14  | 1632474.93        | 14265450.15        | 39°17'3.4693"N  | 81°01'41.0399"W | 2156.63           | 243.987         | 1.03          | 0.29                 | 0.99                |          |
| 8945.00  | 90.220          | 341.630     | 6196.69  | -179.54        | -855.62    | -1967.82  | 1632445.26        | 14265540.36        | 39°17'4.3612"N  | 81°01'41.4177"W | 2145.78           | 246.500         | 0.49          | -0.35                | -0.35               |          |
| 9040.00  | 90.520          | 341.300     | 6196.08  | -84.54         | -765.54    | -1998.02  | 1632415.08        | 14265630.39        | 39°17'5.2513"N  | 81°01'41.8021"W | 2139.66           | 249.036         | 0.47          | 0.32                 | -0.35               |          |
| 9135.00  | 90.490          | 342.310     | 6195.24  | 10.45          | -675.30    | -2027.68  | 1632385.42        | 14265720.60        | 39°17'6.1432"N  | 81°01'42.1797"W | 2137.17           | 251.580         | 1.06          | -0.03                | 1.06                |          |
| 9229.00  | 90.310          | 341.880     | 6194.58  | 104.44         | -585.85    | -2056.58  | 1632356.54        | 14265810.01        | 39°17'7.0271"N  | 81°01'42.5476"W | 2138.40           | 254.099         | 0.50          | -0.19                | -0.46               |          |
| 9324.00  | 90.800          | 343.210     | 6193.66  | 199.41         | -495.24    | -2085.07  | 1632328.06        | 14265900.59        | 39°17'7.9227"N  | 81°01'42.9103"W | 2143.08           | 256.639         | 1.49          | 0.52                 | 1.40                |          |
| 9418.00  | 90.180          | 341.780     | 6192.86  | 293.38         | -405.59    | -2113.34  | 1632299.79        | 14265990.20        | 39°17'8.8086"N  | 81°01'43.2703"W | 2151.91           | 259.136         | 1.66          | -0.66                | -1.52               |          |
| 9513.00  | 90.490          | 342.250     | 6192.30  | 388.37         | -315.24    | -2142.68  | 1632270.47        | 14266080.52        | 39°17'9.7016"N  | 81°01'43.6437"W | 2165.74           | 261.630         | 0.59          | 0.33                 | 0.49                |          |
| 9608.00  | 90.770          | 342.660     | 6191.26  | 483.35         | -224.66    | -2171.31  | 1632241.85        | 14266171.06        | 39°17'10.5967"N | 81°01'44.0082"W | 2182.91           | 264.093         | 0.52          | 0.29                 | 0.43                |          |
| 9703.00  | 90.520          | 342.270     | 6190.19  | 578.32         | -134.08    | -2199.93  | 1632213.24        | 14266261.60        | 39°17'11.4919"N | 81°01'44.3726"W | 2204.02           | 266.512         | 0.49          | -0.26                | -0.41               |          |
| 9798.00  | 90.280          | 341.800     | 6189.53  | 673.31         | -43.72     | -2229.23  | 1632183.95        | 14266351.93        | 39°17'12.3849"N | 81°01'44.7456"W | 2229.66           | 268.876         | 0.56          | -0.25                | -0.49               |          |
| 9893.00  | 90.400          | 341.730     | 6188.96  | 768.31         | 46.51      | -2258.96  | 1632154.24        | 14266442.12        | 39°17'13.2766"N | 81°01'45.1240"W | 2259.44           | 271.179         | 0.15          | 0.13                 | -0.07               |          |
| 9987.00  | 90.650          | 341.830     | 6188.10  | 862.30         | 135.79     | -2288.35  | 1632124.86        | 14266531.37        | 39°17'14.1590"N | 81°01'45.4982"W | 2292.38           | 273.396         | 0.29          | 0.27                 | 0.11                |          |
| 10082.00 | 90.620          | 342.560     | 6187.05  | 957.28         | 226.24     | -2317.40  | 1632095.82        | 14266621.78        | 39°17'15.0528"N | 81°01'45.8680"W | 2328.41           | 275.576         | 0.77          | -0.03                | 0.77                |          |
| 10177.00 | 90.180          | 341.470     | 6186.39  | 1052.27        | 316.59     | -2346.73  | 1632066.50        | 14266712.09        | 39°17'15.9457"N | 81°01'46.2414"W | 2367.99           | 277.683         | 1.24          | -0.46                | -1.15               |          |
| 10272.00 | 90.740          | 342.330     | 6185.62  | 1147.26        | 406.89     | -2376.24  | 1632037.00        | 14266802.35        | 39°17'16.8381"N | 81°01'46.6171"W | 2410.83           | 279.717         | 1.08          | 0.59                 | 0.91                |          |
| 10367.00 | 90.550          | 342.500     | 6184.55  | 1242.24        | 497.44     | -2404.94  | 1632008.31        | 14266892.87        | 39°17'17.7330"N | 81°01'46.9825"W | 2455.85           | 281.686         | 0.27          | -0.20                | 0.18                |          |
| 10461.00 | 90.710          | 342.500     | 6183.52  | 1336.21        | 587.08     | -2433.21  | 1631980.06        | 14266982.48        | 39°17'18.6189"N | 81°01'47.3424"W | 2503.03           | 283.565         | 0.17          | 0.17                 | 0.00                |          |
| 10556.00 | 89.600          | 340.160     | 6183.26  | 1431.20        | 677.08     | -2463.61  | 1631949.67        | 14267072.43        | 39°17'19.5083"N | 81°01'47.7295"W | 2554.96           | 285.367         | 2.73          | -1.17                | -2.46               |          |
| 10651.00 | 90.060          | 342.000     | 6183.55  | 1526.20        | 766.94     | -2494.42  | 1631918.88        | 14267162.26        | 39°17'20.3964"N | 81°01'48.1216"W | 2609.66           | 287.091         | 2.00          | 0.48                 | 1.94                |          |
| 10746.00 | 89.350          | 340.680     | 6184.03  | 1621.19        | 856.94     | -2524.81  | 1631888.49        | 14267252.23        | 39°17'21.2858"N | 81°01'48.5086"W | 2666.27           | 288.748         | 1.58          | -0.75                | -1.39               |          |

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# Actual Wellpath Report

Villers Unit 1H AWP Proj: 16622'

Page 6 of 10



## REFERENCE WELLPATH IDENTIFICATION

|          |                              |          |                     |
|----------|------------------------------|----------|---------------------|
| Operator | ANTERO RESOURCES CORPORATION | Well     | Villers Unit 1H     |
| Field    | Ritchie                      | API      | 47-085-10538-0000   |
| Facility | Husher Pad                   | Wellbore | Villers Unit 1H AWB |
| Slot     | Slot D                       |          |                     |

## WELLPATH DATA (183 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 |
|----------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|-----------------|-----------------|-------------------|-----------------|---------------|----------------------|---------------------|----------|
| 10841.00 | 90.890          | 342.680     | 6183.84  | 1716.18        | 947.12     | -2554.67  | 1631858.65        | 14267342.37        | 39°17'22.1770"N | 81°01'48.8887"W | 2724.59           | 290.342         | 2.66          | 1.62                 | 2.11                |          |
| 10936.00 | 90.460          | 342.340     | 6182.72  | 1811.15        | 1037.72    | -2583.22  | 1631830.11        | 14267432.93        | 39°17'23.0724"N | 81°01'49.2522"W | 2783.86           | 291.886         | 0.58          | -0.45                | -0.36               |          |
| 11031.00 | 90.220          | 342.080     | 6182.15  | 1906.14        | 1128.18    | -2612.24  | 1631801.10        | 14267523.35        | 39°17'23.9664"N | 81°01'49.6217"W | 2845.45           | 293.359         | 0.37          | -0.25                | -0.27               |          |
| 11126.00 | 90.770          | 342.990     | 6181.33  | 2001.11        | 1218.79    | -2640.75  | 1631772.60        | 14267613.93        | 39°17'24.8619"N | 81°01'49.9847"W | 2908.44           | 294.775         | 1.12          | 0.58                 | 0.96                |          |
| 11220.00 | 89.380          | 341.170     | 6181.21  | 2095.10        | 1308.23    | -2669.67  | 1631743.69        | 14267703.33        | 39°17'25.7457"N | 81°01'50.3529"W | 2972.98           | 296.106         | 2.44          | -1.48                | -1.94               |          |
| 11315.00 | 90.650          | 342.410     | 6181.18  | 2190.09        | 1398.46    | -2699.36  | 1631714.01        | 14267793.53        | 39°17'26.6375"N | 81°01'50.7309"W | 3040.11           | 297.387         | 1.87          | 1.34                 | 1.31                |          |
| 11411.00 | 90.710          | 342.320     | 6180.04  | 2286.07        | 1489.95    | -2728.44  | 1631684.94        | 14267884.98        | 39°17'27.5416"N | 81°01'51.1012"W | 3108.75           | 298.638         | 0.11          | 0.06                 | -0.09               |          |
| 11506.00 | 89.750          | 340.640     | 6179.66  | 2381.06        | 1580.02    | -2758.62  | 1631654.78        | 14267975.02        | 39°17'28.4318"N | 81°01'51.4853"W | 3179.06           | 299.802         | 2.04          | -1.01                | -1.77               |          |
| 11602.00 | 89.940          | 341.490     | 6179.92  | 2477.06        | 1670.83    | -2789.77  | 1631623.64        | 14268065.78        | 39°17'29.3292"N | 81°01'51.8819"W | 3251.84           | 300.918         | 0.91          | 0.20                 | 0.89                |          |
| 11697.00 | 88.860          | 338.610     | 6180.92  | 2572.02        | 1760.11    | -2822.17  | 1631591.25        | 14268155.03        | 39°17'30.2115"N | 81°01'52.2945"W | 3326.06           | 301.951         | 3.24          | -1.14                | -3.03               |          |
| 11792.00 | 89.320          | 340.640     | 6182.43  | 2666.96        | 1849.15    | -2855.24  | 1631558.19        | 14268244.04        | 39°17'31.0914"N | 81°01'52.7155"W | 3401.73           | 302.928         | 2.19          | 0.48                 | 2.14                |          |
| 11888.00 | 90.220          | 342.330     | 6182.81  | 2762.96        | 1940.18    | -2885.73  | 1631527.72        | 14268335.03        | 39°17'31.9910"N | 81°01'53.1036"W | 3477.31           | 303.914         | 1.99          | 0.94                 | 1.76                |          |
| 11984.00 | 90.180          | 342.190     | 6182.48  | 2858.94        | 2031.61    | -2914.98  | 1631498.48        | 14268426.42        | 39°17'32.8946"N | 81°01'53.4761"W | 3553.10           | 304.875         | 0.15          | -0.04                | -0.15               |          |
| 12080.00 | 90.090          | 342.530     | 6182.25  | 2954.93        | 2123.10    | -2944.07  | 1631469.40        | 14268517.87        | 39°17'33.7987"N | 81°01'53.8465"W | 3629.75           | 305.797         | 0.37          | -0.09                | 0.35                |          |
| 12175.00 | 90.180          | 341.090     | 6182.03  | 3049.92        | 2213.35    | -2973.72  | 1631439.76        | 14268608.09        | 39°17'34.6906"N | 81°01'54.2241"W | 3707.01           | 306.660         | 1.52          | 0.09                 | -1.52               |          |
| 12271.00 | 90.120          | 340.940     | 6181.78  | 3145.92        | 2304.12    | -3004.96  | 1631408.54        | 14268698.83        | 39°17'35.5878"N | 81°01'54.6217"W | 3786.65           | 307.480         | 0.17          | -0.06                | -0.16               |          |
| 12366.00 | 90.340          | 342.130     | 6181.39  | 3240.91        | 2394.23    | -3035.04  | 1631378.47        | 14268788.90        | 39°17'36.4782"N | 81°01'55.0048"W | 3865.73           | 308.269         | 1.27          | 0.23                 | 1.25                |          |
| 12462.00 | 89.880          | 341.480     | 6181.21  | 3336.91        | 2485.43    | -3065.02  | 1631348.50        | 14268880.06        | 39°17'37.3795"N | 81°01'55.3865"W | 3946.10           | 309.039         | 0.83          | -0.48                | -0.68               |          |
| 12558.00 | 89.750          | 341.140     | 6181.52  | 3432.91        | 2576.37    | -3095.78  | 1631317.75        | 14268970.96        | 39°17'38.2782"N | 81°01'55.7782"W | 4027.60           | 309.768         | 0.38          | -0.14                | -0.35               |          |
| 12652.00 | 89.910          | 341.130     | 6181.80  | 3526.91        | 2665.32    | -3126.18  | 1631287.37        | 14269059.88        | 39°17'39.1573"N | 81°01'56.1652"W | 4108.15           | 310.450         | 0.17          | 0.17                 | -0.01               |          |
| 12747.00 | 89.820          | 341.400     | 6182.02  | 3621.91        | 2755.28    | -3156.69  | 1631256.87        | 14269149.81        | 39°17'40.0463"N | 81°01'56.5537"W | 4190.02           | 311.116         | 0.30          | -0.09                | 0.28                |          |
| 12842.00 | 90.090          | 341.110     | 6182.10  | 3716.91        | 2845.24    | -3187.22  | 1631226.35        | 14269239.73        | 39°17'40.9354"N | 81°01'56.9424"W | 4272.44           | 311.755         | 0.42          | 0.28                 | -0.31               |          |
| 12937.00 | 90.220          | 341.310     | 6181.84  | 3811.91        | 2935.18    | -3217.82  | 1631195.77        | 14269329.63        | 39°17'41.8242"N | 81°01'57.3320"W | 4355.41           | 312.370         | 0.25          | 0.14                 | 0.21                |          |
| 13032.00 | 90.220          | 341.350     | 6181.48  | 3906.91        | 3025.18    | -3248.23  | 1631165.37        | 14269419.59        | 39°17'42.7136"N | 81°01'57.7192"W | 4438.77           | 312.964         | 0.04          | 0.00                 | 0.04                |          |
| 13127.00 | 90.150          | 341.470     | 6181.17  | 4001.91        | 3115.22    | -3278.51  | 1631135.09        | 14269509.60        | 39°17'43.6035"N | 81°01'58.1049"W | 4522.53           | 313.537         | 0.15          | -0.07                | 0.13                |          |
| 13222.00 | 90.060          | 340.220     | 6180.99  | 4096.90        | 3204.96    | -3309.68  | 1631103.94        | 14269599.30        | 39°17'44.4903"N | 81°01'58.5018"W | 4607.15           | 314.079         | 1.32          | -0.09                | -1.32               |          |
| 13316.00 | 89.780          | 341.320     | 6181.13  | 4190.89        | 3293.72    | -3340.64  | 1631072.99        | 14269688.02        | 39°17'45.3674"N | 81°01'58.8960"W | 4691.32           | 314.595         | 1.21          | -0.30                | 1.17                |          |
| 13411.00 | 89.970          | 341.580     | 6181.33  | 4285.89        | 3383.78    | -3370.87  | 1631042.78        | 14269778.05        | 39°17'46.2575"N | 81°01'59.2808"W | 4776.26           | 315.110         | 0.34          | 0.20                 | 0.27                |          |
| 13506.00 | 89.910          | 341.240     | 6181.43  | 4380.89        | 3473.82    | -3401.15  | 1631012.51        | 14269868.06        | 39°17'47.1473"N | 81°01'59.6665"W | 4861.61           | 315.606         | 0.36          | -0.06                | -0.36               |          |
| 13601.00 | 90.000          | 341.420     | 6181.51  | 4475.89        | 3563.82    | -3431.56  | 1630982.11        | 14269958.02        | 39°17'48.0367"N | 81°02'00.0537"W | 4947.37           | 316.083         | 0.21          | 0.09                 | 0.19                |          |

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# Actual Wellpath Report

Villers Unit 1H AWP Proj: 16622'

Page 7 of 10



## REFERENCE WELLPATH IDENTIFICATION

|          |                              |          |                     |
|----------|------------------------------|----------|---------------------|
| Operator | ANTERO RESOURCES CORPORATION | Well     | Villers Unit 1H     |
| Field    | Ritchie                      | API      | 47-085-10538-0000   |
| Facility | Husher Pad                   | Wellbore | Villers Unit 1H AWB |
| Slot     | Slot D                       |          |                     |

## WELLPATH DATA (183 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 |
|----------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|-----------------|-----------------|-------------------|-----------------|---------------|----------------------|---------------------|----------|
| 13696.00 | 89.910          | 341.270     | 6181.58  | 4570.89        | 3653.83    | -3461.95  | 1630951.73        | 14270047.99        | 39°17'48.9263"N | 81°02'0.4406"W  | 5033.45           | 316.545         | 0.18          | -0.09                | -0.16               |          |
| 13790.00 | 90.030          | 341.440     | 6181.63  | 4664.89        | 3742.90    | -3492.00  | 1630921.69        | 14270137.02        | 39°17'49.8064"N | 81°02'0.8233"W  | 5118.92           | 316.986         | 0.22          | 0.13                 | 0.18                |          |
| 13885.00 | 89.940          | 341.230     | 6181.66  | 4759.89        | 3832.90    | -3522.41  | 1630891.30        | 14270226.99        | 39°17'50.6959"N | 81°02'1.2105"W  | 5205.62           | 317.417         | 0.24          | -0.09                | -0.22               |          |
| 13980.00 | 90.150          | 341.700     | 6181.58  | 4854.89        | 3922.97    | -3552.60  | 1630861.11        | 14270317.03        | 39°17'51.5860"N | 81°02'1.5950"W  | 5292.52           | 317.836         | 0.54          | 0.22                 | 0.49                |          |
| 14075.00 | 90.150          | 341.110     | 6181.33  | 4949.89        | 4013.01    | -3582.90  | 1630830.83        | 14270407.03        | 39°17'52.4759"N | 81°02'1.9808"W  | 5379.72           | 318.241         | 0.62          | 0.00                 | -0.62               |          |
| 14170.00 | 89.880          | 341.300     | 6181.31  | 5044.89        | 4102.95    | -3613.51  | 1630800.24        | 14270496.93        | 39°17'53.3646"N | 81°02'2.3705"W  | 5467.32           | 318.629         | 0.35          | -0.28                | 0.20                |          |
| 14264.00 | 89.850          | 341.230     | 6181.53  | 5138.89        | 4191.97    | -3643.70  | 1630770.06        | 14270585.91        | 39°17'54.2444"N | 81°02'2.7550"W  | 5554.20           | 319.003         | 0.08          | -0.03                | -0.07               |          |
| 14359.00 | 89.970          | 341.160     | 6181.68  | 5233.89        | 4281.90    | -3674.32  | 1630739.45        | 14270675.80        | 39°17'55.1331"N | 81°02'3.1450"W  | 5642.27           | 319.367         | 0.15          | 0.13                 | -0.07               |          |
| 14454.00 | 89.940          | 341.310     | 6181.75  | 5328.89        | 4371.85    | -3704.88  | 1630708.90        | 14270765.72        | 39°17'56.0220"N | 81°02'3.5341"W  | 5730.55           | 319.721         | 0.16          | -0.03                | 0.16                |          |
| 14549.00 | 90.000          | 341.290     | 6181.80  | 5423.89        | 4461.83    | -3735.34  | 1630678.45        | 14270855.67        | 39°17'56.9113"N | 81°02'3.9220"W  | 5818.99           | 320.065         | 0.07          | 0.06                 | -0.02               |          |
| 14644.00 | 90.000          | 341.370     | 6181.80  | 5518.89        | 4551.83    | -3765.75  | 1630648.05        | 14270945.63        | 39°17'57.8007"N | 81°02'4.3093"W  | 5907.63           | 320.399         | 0.08          | 0.00                 | 0.08                |          |
| 14739.00 | 89.910          | 340.870     | 6181.88  | 5613.89        | 4641.72    | -3796.49  | 1630617.33        | 14271035.49        | 39°17'58.6890"N | 81°02'4.7007"W  | 5996.58           | 320.720         | 0.53          | -0.09                | -0.53               |          |
| 14833.00 | 89.690          | 340.970     | 6182.21  | 5707.89        | 4730.56    | -3827.22  | 1630586.61        | 14271124.28        | 39°17'59.5669"N | 81°02'5.0920"W  | 6084.88           | 321.026         | 0.26          | -0.23                | 0.11                |          |
| 14927.00 | 89.750          | 341.110     | 6182.67  | 5801.88        | 4819.46    | -3857.76  | 1630556.08        | 14271213.15        | 39°18'0.4455"N  | 81°02'5.4810"W  | 6173.29           | 321.324         | 0.16          | 0.06                 | 0.15                |          |
| 15022.00 | 89.820          | 341.340     | 6183.02  | 5896.88        | 4909.40    | -3888.33  | 1630525.52        | 14271303.06        | 39°18'1.3343"N  | 81°02'5.8703"W  | 6262.69           | 321.620         | 0.25          | 0.07                 | 0.24                |          |
| 15117.00 | 89.750          | 341.360     | 6183.38  | 5991.88        | 4999.41    | -3918.71  | 1630495.15        | 14271393.03        | 39°18'2.2238"N  | 81°02'6.2572"W  | 6352.20           | 321.909         | 0.08          | -0.07                | 0.02                |          |
| 15212.00 | 89.780          | 341.460     | 6183.77  | 6086.88        | 5089.45    | -3949.00  | 1630464.88        | 14271483.04        | 39°18'3.1137"N  | 81°02'6.6429"W  | 6441.83           | 322.191         | 0.11          | 0.03                 | 0.11                |          |
| 15306.00 | 89.720          | 341.360     | 6184.18  | 6180.88        | 5178.55    | -3978.97  | 1630434.92        | 14271572.10        | 39°18'3.9941"N  | 81°02'7.0245"W  | 6530.66           | 322.463         | 0.12          | -0.06                | -0.11               |          |
| 15401.00 | 89.750          | 341.340     | 6184.62  | 6275.88        | 5268.56    | -4009.34  | 1630404.56        | 14271662.07        | 39°18'4.8837"N  | 81°02'7.4114"W  | 6620.62           | 322.729         | 0.04          | 0.03                 | -0.02               |          |
| 15496.00 | 89.720          | 341.340     | 6185.06  | 6370.88        | 5358.56    | -4039.74  | 1630374.17        | 14271752.04        | 39°18'5.7731"N  | 81°02'7.7985"W  | 6710.72           | 322.988         | 0.03          | -0.03                | 0.00                |          |
| 15590.00 | 89.660          | 341.250     | 6185.57  | 6464.88        | 5447.60    | -4069.88  | 1630344.04        | 14271841.04        | 39°18'6.6530"N  | 81°02'8.1824"W  | 6800.02           | 323.237         | 0.12          | -0.06                | -0.10               |          |
| 15685.00 | 90.090          | 341.330     | 6185.77  | 6559.88        | 5537.58    | -4100.36  | 1630313.58        | 14271930.98        | 39°18'7.5422"N  | 81°02'8.5705"W  | 6890.41           | 323.481         | 0.46          | 0.45                 | 0.08                |          |
| 15780.00 | 89.780          | 341.280     | 6185.88  | 6654.88        | 5627.56    | -4130.81  | 1630283.14        | 14272020.93        | 39°18'8.4315"N  | 81°02'8.9583"W  | 6980.91           | 323.720         | 0.33          | -0.33                | -0.05               |          |
| 15874.00 | 91.230          | 342.620     | 6185.05  | 6748.86        | 5716.93    | -4159.93  | 1630254.03        | 14272110.26        | 39°18'9.3147"N  | 81°02'9.3293"W  | 7070.24           | 323.958         | 2.10          | 1.54                 | 1.43                |          |
| 15969.00 | 90.060          | 341.500     | 6183.98  | 6843.85        | 5807.30    | -4189.19  | 1630224.78        | 14272200.60        | 39°18'10.2078"N | 81°02'9.7019"W  | 7160.59           | 324.195         | 1.70          | -1.23                | -1.18               |          |
| 16064.00 | 90.120          | 338.480     | 6183.83  | 6938.81        | 5896.56    | -4221.70  | 1630192.29        | 14272289.82        | 39°18'11.0898"N | 81°02'10.1159"W | 7252.04           | 324.399         | 3.18          | 0.06                 | -3.18               |          |
| 16158.00 | 90.180          | 338.920     | 6183.59  | 7032.71        | 5984.14    | -4255.84  | 1630158.16        | 14272377.36        | 39°18'11.9553"N | 81°02'10.5507"W | 7343.16           | 324.580         | 0.47          | 0.06                 | 0.47                |          |
| 16252.00 | 90.220          | 338.980     | 6183.26  | 7126.63        | 6071.86    | -4289.60  | 1630124.41        | 14272465.05        | 39°18'12.8222"N | 81°02'10.9806"W | 7434.26           | 324.760         | 0.08          | 0.04                 | 0.06                |          |
| 16347.00 | 90.310          | 339.090     | 6182.82  | 7221.56        | 6160.57    | -4323.59  | 1630090.43        | 14272553.73        | 39°18'13.6988"N | 81°02'11.4135"W | 7526.36           | 324.938         | 0.15          | 0.09                 | 0.12                |          |
| 16442.00 | 90.150          | 338.920     | 6182.44  | 7316.48        | 6249.26    | -4357.63  | 1630056.41        | 14272642.38        | 39°18'14.5753"N | 81°02'11.8469"W | 7618.55           | 325.112         | 0.25          | -0.17                | -0.18               |          |

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# Actual Wellpath Report

Villers Unit 1H AWP Proj: 16622'  
Page 8 of 10



### REFERENCE WELLPATH IDENTIFICATION

|          |                              |          |                     |
|----------|------------------------------|----------|---------------------|
| Operator | ANTERO RESOURCES CORPORATION | Well     | Villers Unit 1H     |
| Field    | Ritchie                      | API      | 47-085-10538-0000   |
| Facility | Husher Pad                   | Wellbore | Villers Unit 1H AWB |
| Slot     | Slot D                       |          |                     |

### WELLPATH DATA (183 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                   |
|-----------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|-----------------|-----------------|-------------------|-----------------|---------------|----------------------|---------------------|----------------------------|
| 16536.00  | 90.220          | 339.110     | 6182.13  | 7410.40        | 6337.03    | -4391.29  | 1630022.76        | 14272730.11        | 39°18'15.4426"N | 81°02'12.2756"W | 7709.82           | 325.280         | 0.22          | 0.07                 | 0.20                |                            |
| 16597.00  | 90.220          | 339.040     | 6181.90  | 7471.36        | 6394.01    | -4413.08  | 1630000.98        | 14272787.07        | 39°18'16.0057"N | 81°02'12.5530"W | 7769.08           | 325.387         | 0.11          | 0.00                 | -0.11               |                            |
| 16622.00‡ | 90.220          | 339.040     | 6181.80  | 7496.34        | 6417.35    | -4422.02  | 1629992.04        | 14272810.40        | 39°18'16.2364"N | 81°02'12.6669"W | 7793.37           | 325.430         | 0.00          | 0.00                 | 0.00                | Projected MD at TD: 16622' |

### HOLE & CASING SECTIONS - Ref Wellbore: Villers Unit 1H AWB Ref Wellpath: Villers Unit 1H AWP Proj: 16622'

| String/Diameter             | Start MD [ft] | End MD [ft] | Interval [ft] | Start TVD [ft] | End TVD [ft] | Start N/S [ft] | Start E/W [ft] | End N/S [ft] | End E/W [ft] |
|-----------------------------|---------------|-------------|---------------|----------------|--------------|----------------|----------------|--------------|--------------|
| 20in Conductor              | 30.00         | 130.00      | 100.00        | 30.00          | 130.00       | 0.00           | 0.00           | 0.11         | -0.06        |
| 17.5in Open Hole            | 130.00        | 508.00      | 378.00        | 130.00         | 508.00       | 0.11           | -0.06          | 0.18         | 0.16         |
| 13.375in Casing Surface     | 30.00         | 488.00      | 458.00        | 30.00          | 488.00       | 0.00           | 0.00           | 0.33         | 0.20         |
| 12.25in Open Hole           | 508.00        | 6257.00     | 5749.00       | 508.00         | 5444.91      | 0.18           | 0.16           | -2630.44     | -914.99      |
| 9.625in Casing Intermediate | 30.00         | 6227.00     | 6197.00       | 30.00          | 5419.92      | 0.00           | 0.00           | -2615.52     | -907.72      |
| 8.5in Open Hole             | 6257.00       | 16622.00    | 10365.00      | 5444.91        | 6181.80      | -2630.44       | -914.99        | 6417.35      | -4422.02     |
| 5.5in Casing Production     | 30.00         | 16602.00    | 16572.00      | 30.00          | 6181.88      | 0.00           | 0.00           | 6398.67      | -4414.87     |

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# Actual Wellpath Report

Villers Unit 1H AWP Proj: 16622'

Page 9 of 10



## REFERENCE WELLPATH IDENTIFICATION

|          |                              |          |                     |
|----------|------------------------------|----------|---------------------|
| Operator | ANTERO RESOURCES CORPORATION | Well     | Villers Unit 1H     |
| Field    | Ritchie                      | API      | 47-085-10538-0000   |
| Facility | Husher Pad                   | Wellbore | Villers Unit 1H AWB |
| Slot     | Slot D                       |          |                     |

## TARGETS

| Name                              | TVD [ft] | North [ft] | East [ft] | Grid East [US ft] | Grid North [US ft] | Latitude        | Longitude       | Shape     |
|-----------------------------------|----------|------------|-----------|-------------------|--------------------|-----------------|-----------------|-----------|
| Villers Unit 1H POE Plat          | 6162.00  | -2507.31   | -1400.64  | 1633012.21        | 14263889.33        | 39°16'48.0380"N | 81°01'34.1985"W | point     |
| Villers Unit 1H POE Rev-1         | 6162.00  | -2476.29   | -1309.00  | 1633103.82        | 14263920.34        | 39°16'48.3448"N | 81°01'33.0332"W | point     |
| Villers Unit 1H BHL Rev-1         | 6202.00  | 6426.13    | -4424.37  | 1629989.70        | 14272819.18        | 39°18'16.3232"N | 81°02'12.6968"W | point     |
| Villers Unit 1H LP Rev-1          | 6202.00  | -2294.14   | -1414.16  | 1632998.70        | 14264102.41        | 39°16'50.1448"N | 81°01'34.3712"W | point     |
| Villers Unit 1H 50' L/R Hard Line | 7000.00  | 2322.97    | -3035.56  | 1631377.95        | 14268717.67        | 39°17'35.7739"N | 81°01'55.0111"W | rectangle |
| 2D Rectangle 8663.66 x 100.       |          |            |           |                   |                    |                 |                 |           |

## WELLPATH COMPOSITION - Ref Wellbore: Villers Unit 1H AWB Ref Wellpath: Villers Unit 1H AWP Proj: 16622'

| Start MD [ft] | End MD [ft] | Positional Uncertainty Model                           | Log Name/Comment                            | Wellbore            | Survey Date |
|---------------|-------------|--|---|---------------------|-------------|
| 30.00         | 392.00      | Gyrodata 2015 - GC+WIR+DPIPE                           | 01 Gyrodata MS Gyro <17-1/2"> (100'-392')   | Villers Unit 1H AWB | 2/13/2025   |
| 392.00        | 6182.00     | BH NaviTrak (2019) (Axial Corr+HRGM)                   | 02 APS EM <12-1/4"> (392')(616'-6182')      | Villers Unit 1H AWB | 2/13/2025   |
| 6182.00       | 16622.00    | BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing) | 03 BH Lucida <8-1/2"> (6182')(6292'-16597') | Villers Unit 1H AWB | 3/13/2025   |

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# Actual Wellpath Report

Villers Unit 1H AWP Proj: 16622'

Page 10 of 10



## REFERENCE WELLPATH IDENTIFICATION

|          |                              |          |                     |
|----------|------------------------------|----------|---------------------|
| Operator | ANTERO RESOURCES CORPORATION | Well     | Villers Unit 1H     |
| Field    | Ritchie                      | API      | 47-085-10538-0000   |
| Facility | Husher Pad                   | Wellbore | Villers Unit 1H AWB |
| Slot     | Slot D                       |          |                     |

## COMMENTS

### Wellpath general comments

API: 47-085-10538-0000

BH Job #: 112579064

Rig: H&P 519

Duration: 3/14/2025-3/16/2025

Gyrodatta MS Gyro <17-1/2"> (100'-392')

APS EM <12-1/4"> (392')(616'-6182')

BH Lucida <8-1/2"> (6182')(6292'-16597')

Sycamore: 6825' MD

Middlesex: 6943' MD

Burkett: 7117' MD

Tully: 7173' MD

Marcellus POE: 7179' MD

Projected MD at TD: 16622'

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