



# ANTERO RESOURCES CORPORATION

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

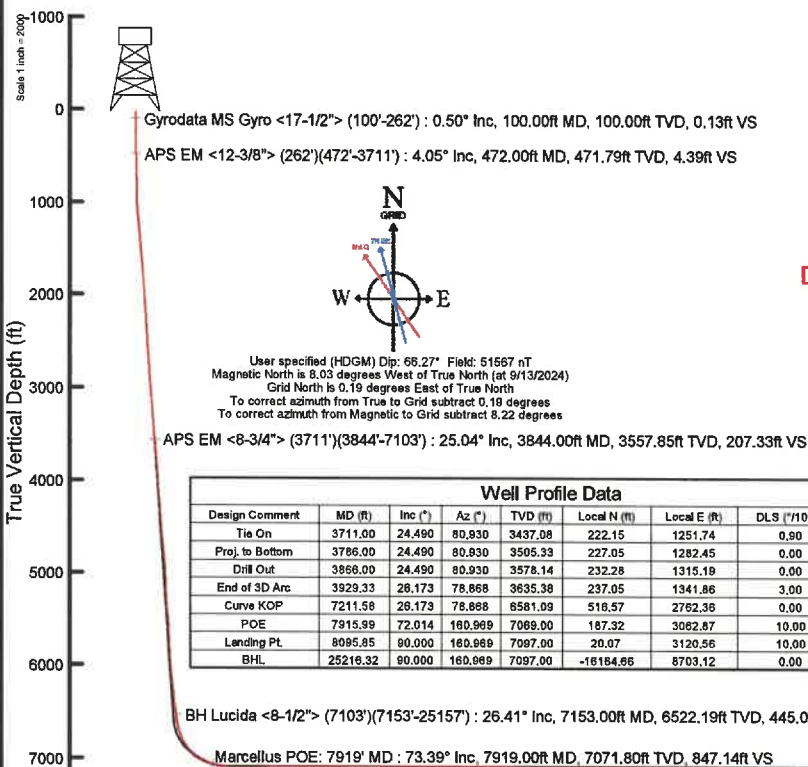
Slot: Slot A  
Well: Shenango Unit 1H  
Wellbore: Shenango Unit 1H PWB



|                                                                     |                                                                    |
|---------------------------------------------------------------------|--------------------------------------------------------------------|
| Pit reference wellpath is Shenango Unit 1H PWB Rev-B.0              | Grid System: NAD83 / 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: 1191 feet                          | Coordinates are in feet referenced to Slot                         |
| Mean Sea Level to Ground level (At Slot: Slot A): -1161 feet        | Depths are in feet                                                 |
| Official wellpath MDs are referenced to each pit's default MD datum | Created by: antero on 2024-10-04; Database: VUL_MPL_EASTERNUS_Dein |

| Location Information                             |              |                   |                    |                    |                 |
|--------------------------------------------------|--------------|-------------------|--------------------|--------------------|-----------------|
| Facility Name                                    |              | Grid East (US ft) | Grid North (US ft) | Latitude           | Longitude       |
| Galmish Pad                                      |              | 1726216.430       | 14372266.790       | 39°34'38.1900"N    | 80°41'43.8200"W |
| Slot                                             | Local N (ft) | Local E (ft)      | Grid East (US ft)  | Grid North (US ft) | Latitude        |
| Slot A                                           | -71.57       | 78.55             | 1726294.950        | 14372185.250       | 39°34'37.4800"N |
| Comment: Shenango Unit 1H                        |              |                   |                    |                    |                 |
| H&P 519 (RKB) to Ground level (At Slot: Slot A)  |              |                   |                    |                    | 30ft            |
| Mean Sea Level to Ground level (At Slot: Slot A) |              |                   |                    |                    | -1161ft         |
| H&P 519 (RKB) to Mean Sea Level                  |              |                   |                    |                    | 1191ft          |

| Well Data |                  |                      |                                   |
|-----------|------------------|----------------------|-----------------------------------|
| Slot      | Well             | Wellbore             | Wellpath                          |
| Slot A    | Shenango Unit 1H | Shenango Unit 1H AWP | Shenango Unit 1H AWP Proj: 25182' |
| Slot A    | Shenango Unit 1H | Shenango Unit 1H PWB | Shenango Unit 1H PWB Rev-B.0      |



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Vertical Section (ft)  
Azimuth 160.97° with reference 0.00 N, 0.00 E

Projected MD at TD: 25182' : 7140.14ft TVD, 16162.58ft S, 8670.44ft E

Projected MD at TD: 25182' : 89.91° Inc, 25182.00ft MD, 7140.14ft TVD, 18106.37ft VS

Scale 1 inch = 2000'



# Actual Wellpath Report

Shenango Unit 1H AWP Proj: 25182'  
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| REFERENCE WELLPATH IDENTIFICATION |                              |          |                      |
|-----------------------------------|------------------------------|----------|----------------------|
| Operator                          | ANTERO RESOURCES CORPORATION | Well     | Shenango Unit 1H     |
| Field                             | Wetzel                       | API      | 47-103-03658-0000    |
| Facility                          | Galmish Pad                  | Wellbore | Shenango Unit 1H AWB |
| Slot                              | Slot A                       |          |                      |

| REPORT SETUP INFORMATION |                                    |                  |                          |
|--------------------------|------------------------------------|------------------|--------------------------|
| Projection System        | NAD27 / UTM Zone 17 North, US feet | Software System  | WellArchitect® 6.0       |
| North Reference          | Grid                               | User             | Edsaryar                 |
| Scale                    | 0.999608                           | Report Generated | 10/4/2024 at 11:47:15 AM |
| Convergence at slot      | 0.19° East                         | Database         | WA_MPL_EASTERNUS_Defn    |

| WELLPATH LOCATION     |                   |          |                  |                 |                        |                 |
|-----------------------|-------------------|----------|------------------|-----------------|------------------------|-----------------|
|                       | Local coordinates |          | Grid coordinates |                 | Geographic coordinates |                 |
|                       | North[ft]         | East[ft] | Easting[US ft]   | Northing[US ft] | Latitude               | Longitude       |
| Slot Location         | -71.57            | 78.55    | 1726294.95       | 14372195.25     | 39°34'37.4800"N        | 80°41'42.8200"W |
| Facility Reference Pt |                   |          | 1726216.43       | 14372266.79     | 39°34'38.1900"N        | 80°41'43.8200"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       | 1191.00ft         |
| Horizontal Reference Pt  | Slot              | H&P 519 (RKB) to Mean Sea Level                | 1191.00ft         |
| Vertical Reference Pt    | H&P 519 (RKB)     | H&P 519 (RKB) to Ground Level at Slot (Slot A) | 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                                | 160.97°           |



# Actual Wellpath Report

Shenango Unit 1H AWP Proj: 25182'  
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## REFERENCE WELLPATH IDENTIFICATION

|          |                              |  |  |          |                      |
|----------|------------------------------|--|--|----------|----------------------|
| Operator | ANTERO RESOURCES CORPORATION |  |  | Well     | Shenango Unit 1H     |
| Field    | Wetzel                       |  |  | API      | 47-103-03658-0000    |
| Facility | Galmish Pad                  |  |  | Wellbore | Shenango Unit 1H AWB |
| Slot     | Slot A                       |  |  |          |                      |

## WELLPATH DATA (264 stations) † = Interpolated, ‡ = extrapolated station

| MD<br>[ft] | Inclination<br>[°] | Azimuth<br>[°] | TVD<br>[ft] | Vert Sect<br>[ft] | North<br>[ft] | East<br>[ft] | Grid East<br>[US ft] | Grid North<br>[US ft] | Latitude        | Longitude       | Closure Dist<br>[ft] | Closure Dir<br>[°] | DLS<br>[°/100ft] | Build Rate<br>[°/100ft] | Turn Rate<br>[°/100ft] | Comments                               |
|------------|--------------------|----------------|-------------|-------------------|---------------|--------------|----------------------|-----------------------|-----------------|-----------------|----------------------|--------------------|------------------|-------------------------|------------------------|----------------------------------------|
| 0.00†      | 0.00               | 95.350         | 0.00        | 0.00              | 0.00          | 0.00         | 1726294.95           | 14372195.25           | 39°34'37.4800"N | 80°41'42.8200"W | 0.00                 | 0.000              | 0.00             | 0.00                    | 0.00                   |                                        |
| 30.00      | 0.00               | 95.350         | 30.00       | 0.00              | 0.00          | 0.00         | 1726294.95           | 14372195.25           | 39°34'37.4800"N | 80°41'42.8200"W | 0.00                 | 0.000              | 0.00             | 0.00                    | 0.00                   |                                        |
| 100.00     | 0.50               | 95.350         | 100.00      | 0.13              | -0.03         | 0.30         | 1726295.25           | 14372195.22           | 39°34'37.4797"N | 80°41'42.8161"W | 0.31                 | 95.350             | 0.71             | 0.71                    | 0.00                   |                                        |
| 200.00     | 0.53               | 131.920        | 200.00      | 0.71              | -0.38         | 1.08         | 1726296.03           | 14372194.87           | 39°34'37.4762"N | 80°41'42.8062"W | 1.15                 | 109.253            | 0.32             | 0.03                    | 36.57                  | Gyrodata MS Gyro <17-1/2"> (100'-262') |
| 262.00     | 0.62               | 130.790        | 261.99      | 1.25              | -0.79         | 1.55         | 1726296.50           | 14372194.46           | 39°34'37.4722"N | 80°41'42.8002"W | 1.74                 | 118.974            | 0.15             | 0.15                    | -1.82                  |                                        |
| 472.00     | 4.05               | 87.900         | 471.79      | 4.39              | -1.26         | 9.82         | 1726304.77           | 14372193.99           | 39°34'37.4672"N | 80°41'42.6946"W | 9.90                 | 97.306             | 1.72             | 1.63                    | -20.42                 | APS EM <12-3/8"> (262')(472'-3711')    |
| 562.00     | 6.47               | 85.370         | 561.41      | 6.58              | -0.73         | 18.06        | 1726313.00           | 14372194.52           | 39°34'37.4721"N | 80°41'42.5894"W | 18.07                | 92.327             | 2.70             | 2.69                    | -2.81                  |                                        |
| 651.00     | 8.72               | 81.580         | 649.62      | 9.07              | 0.66          | 29.73        | 1726324.67           | 14372195.91           | 39°34'37.4855"N | 80°41'42.4403"W | 29.74                | 88.730             | 2.59             | 2.53                    | -4.26                  |                                        |
| 740.00     | 11.02              | 76.490         | 737.30      | 11.13             | 3.63          | 44.68        | 1726339.61           | 14372198.88           | 39°34'37.5144"N | 80°41'42.2493"W | 44.82                | 85.349             | 2.78             | 2.58                    | -5.72                  |                                        |
| 829.00     | 13.97              | 72.750         | 824.18      | 12.28             | 8.81          | 63.21        | 1726358.14           | 14372204.06           | 39°34'37.5649"N | 80°41'42.0123"W | 63.82                | 82.067             | 3.44             | 3.31                    | -4.20                  |                                        |
| 920.00     | 16.45              | 74.810         | 911.99      | 13.49             | 15.44         | 86.14        | 1726381.06           | 14372210.69           | 39°34'37.6297"N | 80°41'41.7192"W | 87.51                | 79.836             | 2.79             | 2.73                    | 2.26                   |                                        |
| 1010.00    | 18.99              | 77.680         | 997.72      | 16.05             | 21.91         | 112.75       | 1726407.65           | 14372217.15           | 39°34'37.6927"N | 80°41'41.3792"W | 114.86               | 79.004             | 2.98             | 2.82                    | 3.19                   |                                        |
| 1102.00    | 21.26              | 81.360         | 1084.10     | 20.81             | 27.61         | 143.87       | 1726438.76           | 14372222.85           | 39°34'37.7480"N | 80°41'40.9815"W | 146.49               | 79.137             | 2.82             | 2.47                    | 4.00                   |                                        |
| 1199.00    | 24.00              | 83.730         | 1173.62     | 28.34             | 32.41         | 180.87       | 1726475.75           | 14372227.64           | 39°34'37.7942"N | 80°41'40.5087"W | 183.75               | 79.842             | 2.98             | 2.82                    | 2.44                   |                                        |
| 1293.00    | 25.55              | 82.630         | 1258.97     | 36.66             | 37.09         | 219.98       | 1726514.84           | 14372232.33           | 39°34'37.8392"N | 80°41'40.0091"W | 223.08               | 80.429             | 1.72             | 1.65                    | -1.17                  |                                        |
| 1388.00    | 25.07              | 81.390         | 1344.85     | 44.44             | 42.74         | 260.20       | 1726555.04           | 14372237.97           | 39°34'37.8936"N | 80°41'39.4952"W | 263.68               | 80.673             | 0.75             | -0.51                   | -1.31                  |                                        |
| 1482.00    | 24.20              | 79.240         | 1430.29     | 50.81             | 49.31         | 298.82       | 1726593.65           | 14372244.54           | 39°34'37.9574"N | 80°41'39.0017"W | 302.86               | 80.629             | 1.33             | -0.93                   | -2.29                  |                                        |
| 1576.00    | 25.53              | 81.740         | 1515.58     | 57.37             | 55.82         | 337.79       | 1726632.61           | 14372251.05           | 39°34'38.0204"N | 80°41'38.5037"W | 342.37               | 80.616             | 1.80             | 1.41                    | 2.66                   |                                        |
| 1671.00    | 26.67              | 81.800         | 1600.89     | 65.20             | 61.80         | 379.16       | 1726673.96           | 14372257.03           | 39°34'38.0781"N | 80°41'37.9752"W | 384.16               | 80.742             | 1.20             | 1.20                    | 0.06                   |                                        |
| 1765.00    | 26.84              | 80.940         | 1684.83     | 72.84             | 68.15         | 420.99       | 1726715.78           | 14372263.38           | 39°34'38.1394"N | 80°41'37.4406"W | 428.47               | 80.804             | 0.45             | 0.18                    | -0.91                  |                                        |
| 1860.00    | 26.81              | 79.160         | 1769.61     | 79.61             | 75.56         | 463.21       | 1726757.98           | 14372270.78           | 39°34'38.2112"N | 80°41'36.9011"W | 469.34               | 80.735             | 0.85             | -0.03                   | -1.87                  |                                        |
| 1954.00    | 27.04              | 79.540         | 1853.42     | 85.81             | 83.43         | 505.05       | 1726799.80           | 14372278.64           | 39°34'38.2876"N | 80°41'36.3665"W | 511.89               | 80.620             | 0.31             | 0.24                    | 0.40                   |                                        |
| 2048.00    | 27.30              | 77.410         | 1937.05     | 91.41             | 92.00         | 547.10       | 1726841.83           | 14372287.22           | 39°34'38.3709"N | 80°41'35.8291"W | 554.78               | 80.454             | 1.07             | 0.28                    | -2.27                  |                                        |
| 2142.00    | 26.24              | 79.340         | 2020.97     | 96.85             | 100.55        | 588.56       | 1726883.28           | 14372295.76           | 39°34'38.4540"N | 80°41'35.2992"W | 597.09               | 80.305             | 1.46             | -1.13                   | 2.05                   |                                        |
| 2237.00    | 25.54              | 79.720         | 2106.44     | 103.03            | 108.09        | 629.35       | 1726924.05           | 14372303.29           | 39°34'38.5271"N | 80°41'34.7780"W | 638.56               | 80.255             | 0.76             | -0.74                   | 0.40                   |                                        |
| 2331.00    | 26.06              | 78.540         | 2191.07     | 108.83            | 115.81        | 669.52       | 1726964.21           | 14372311.01           | 39°34'38.6020"N | 80°41'34.2646"W | 679.46               | 80.187             | 0.78             | 0.55                    | -1.26                  |                                        |
| 2426.00    | 26.66              | 78.310         | 2276.19     | 114.30            | 124.27        | 710.85       | 1727005.52           | 14372319.47           | 39°34'38.6843"N | 80°41'33.7365"W | 721.63               | 80.084             | 0.64             | 0.63                    | -0.24                  |                                        |
| 2520.00    | 27.04              | 78.520         | 2360.05     | 119.80            | 132.80        | 752.44       | 1727047.09           | 14372327.99           | 39°34'38.7671"N | 80°41'33.2050"W | 764.07               | 79.991             | 0.42             | 0.40                    | 0.22                   |                                        |
| 2615.00    | 27.56              | 77.450         | 2444.47     | 125.12            | 141.87        | 795.05       | 1727089.69           | 14372337.06           | 39°34'38.8554"N | 80°41'32.6603"W | 807.61               | 79.883             | 0.75             | 0.55                    | -1.13                  |                                        |
| 2709.00    | 27.02              | 75.890         | 2528.01     | 129.41            | 151.80        | 836.99       | 1727131.61           | 14372346.99           | 39°34'38.9521"N | 80°41'32.1244"W | 850.64               | 79.720             | 0.95             | -0.57                   | -1.66                  |                                        |

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# Actual Wellpath Report

Shenango Unit 1H AWP Proj: 25182'  
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## REFERENCE WELLPATH IDENTIFICATION

|          |                              |          |                      |
|----------|------------------------------|----------|----------------------|
| Operator | ANTERO RESOURCES CORPORATION | Well     | Shenango Unit 1H     |
| Field    | Wetzel                       | API      | 47-103-03658-0000    |
| Facility | Galmish Pad                  | Wellbore | Shenango Unit 1H AWP |
| Slot     | Slot A                       |          |                      |

## WELLPATH DATA (264 stations)

| MD<br>[ft] | Inclination<br>[°] | Azimuth<br>[°] | TVD<br>[ft] | Vert Sect<br>[ft] | North<br>[ft] | East<br>[ft] | Grid East<br>[US ft] | Grid North<br>[US ft] | Latitude        | Longitude       | Closure Dist<br>[ft] | Closure Dir<br>[°] | DLS<br>[°/100ft] | Build Rate<br>[°/100ft] | Turn Rate<br>[°/100ft] | Comments                             |
|------------|--------------------|----------------|-------------|-------------------|---------------|--------------|----------------------|-----------------------|-----------------|-----------------|----------------------|--------------------|------------------|-------------------------|------------------------|--------------------------------------|
| 2803.00    | 26.790             | 78.930         | 2611.84     | 134.17            | 161.07        | 878.49       | 1727173.09           | 14372356.26           | 39°34'39.0423"N | 80°41'31.5940"W | 893.13               | 79.610             | 1.48             | -0.24                   | 3.23                   |                                      |
| 2897.00    | 26.330             | 79.560         | 2695.92     | 140.22            | 168.92        | 919.78       | 1727214.37           | 14372364.10           | 39°34'39.1185"N | 80°41'31.0663"W | 935.16               | 79.594             | 0.57             | -0.49                   | 0.67                   |                                      |
| 2992.00    | 25.220             | 77.670         | 2781.47     | 145.73            | 177.06        | 960.27       | 1727254.84           | 14372372.24           | 39°34'39.1976"N | 80°41'30.5488"W | 976.46               | 79.553             | 1.45             | -1.17                   | -1.99                  |                                      |
| 3086.00    | 25.480             | 79.400         | 2866.42     | 151.03            | 185.05        | 999.71       | 1727294.27           | 14372380.23           | 39°34'39.2752"N | 80°41'30.0448"W | 1016.69              | 79.513             | 0.84             | 0.28                    | 1.84                   |                                      |
| 3180.00    | 25.150             | 82.590         | 2951.40     | 158.02            | 191.35        | 1039.39      | 1727333.94           | 14372386.52           | 39°34'39.3361"N | 80°41'29.5377"W | 1056.86              | 79.569             | 1.49             | -0.35                   | 3.39                   |                                      |
| 3275.00    | 24.290             | 82.130         | 3037.69     | 165.86            | 196.63        | 1078.77      | 1727373.29           | 14372391.80           | 39°34'39.3870"N | 80°41'29.0346"W | 1096.54              | 79.670             | 0.93             | -0.91                   | -0.48                  |                                      |
| 3369.00    | 23.720             | 82.070         | 3123.56     | 173.25            | 201.88        | 1116.65      | 1727411.16           | 14372397.06           | 39°34'39.4376"N | 80°41'28.5507"W | 1134.75              | 79.752             | 0.61             | -0.61                   | -0.06                  |                                      |
| 3463.00    | 23.490             | 81.710         | 3209.69     | 180.38            | 207.19        | 1153.91      | 1727448.41           | 14372402.36           | 39°34'39.4888"N | 80°41'28.0745"W | 1172.37              | 79.821             | 0.29             | -0.24                   | -0.38                  |                                      |
| 3558.00    | 22.880             | 81.480         | 3297.02     | 187.27            | 212.66        | 1190.91      | 1727485.39           | 14372407.83           | 39°34'39.5416"N | 80°41'27.6018"W | 1209.75              | 79.875             | 0.65             | -0.64                   | -0.24                  |                                      |
| 3652.00    | 23.980             | 81.010         | 3383.28     | 193.94            | 218.35        | 1227.84      | 1727522.30           | 14372413.51           | 39°34'39.5966"N | 80°41'27.1300"W | 1247.10              | 79.916             | 1.17             | 1.15                    | -0.50                  |                                      |
| 3711.00    | 24.490             | 80.930         | 3437.08     | 198.14            | 222.15        | 1251.74      | 1727546.20           | 14372417.31           | 39°34'39.6333"N | 80°41'26.8245"W | 1271.30              | 79.936             | 0.90             | 0.90                    | -0.14                  |                                      |
| 3844.00    | 25.040             | 80.020         | 3557.85     | 207.33            | 231.37        | 1306.69      | 1727601.12           | 14372426.53           | 39°34'39.7226"N | 80°41'26.1224"W | 1327.01              | 79.959             | 0.50             | 0.41                    | -0.68                  | APS EM <8-3/4"> (3711')(3844'-7103') |
| 3938.00    | 27.800             | 80.510         | 3642.02     | 214.10            | 238.44        | 1347.91      | 1727642.33           | 14372433.59           | 39°34'39.7910"N | 80°41'25.5957"W | 1368.83              | 79.969             | 2.95             | 2.94                    | 0.52                   |                                      |
| 4033.00    | 29.640             | 81.100         | 3725.33     | 221.90            | 245.72        | 1392.97      | 1727687.37           | 14372440.88           | 39°34'39.8615"N | 80°41'25.0198"W | 1414.48              | 79.996             | 1.96             | 1.94                    | 0.62                   |                                      |
| 4127.00    | 30.310             | 79.420         | 3806.76     | 229.48            | 253.68        | 1439.25      | 1727733.64           | 14372448.83           | 39°34'39.9385"N | 80°41'24.4284"W | 1461.44              | 80.004             | 1.14             | 0.71                    | -1.79                  |                                      |
| 4221.00    | 30.980             | 77.380         | 3887.63     | 235.66            | 263.32        | 1486.18      | 1727780.54           | 14372458.46           | 39°34'40.0322"N | 80°41'23.8287"W | 1509.33              | 79.953             | 1.32             | 0.71                    | -2.17                  |                                      |
| 4315.00    | 29.180             | 78.460         | 3968.97     | 241.35            | 273.19        | 1532.24      | 1727826.59           | 14372468.33           | 39°34'40.1282"N | 80°41'23.2400"W | 1556.41              | 79.891             | 2.00             | -1.91                   | 1.15                   |                                      |
| 4410.00    | 28.110             | 78.650         | 4052.34     | 247.36            | 282.23        | 1576.88      | 1727871.21           | 14372477.36           | 39°34'40.2160"N | 80°41'22.6696"W | 1601.93              | 79.853             | 1.13             | -1.13                   | 0.20                   |                                      |
| 4504.00    | 25.590             | 80.830         | 4136.21     | 253.80            | 289.82        | 1618.64      | 1727912.95           | 14372484.96           | 39°34'40.2896"N | 80°41'22.1359"W | 1644.38              | 79.849             | 2.88             | -2.68                   | 2.32                   |                                      |
| 4598.00    | 23.600             | 82.260         | 4221.67     | 260.96            | 295.59        | 1657.33      | 1727951.63           | 14372490.72           | 39°34'40.3453"N | 80°41'21.6415"W | 1683.48              | 79.887             | 2.21             | -2.12                   | 1.52                   |                                      |
| 4693.00    | 23.160             | 77.920         | 4308.88     | 266.94            | 302.06        | 1694.44      | 1727988.73           | 14372497.19           | 39°34'40.4080"N | 80°41'21.1673"W | 1721.16              | 79.892             | 1.87             | -0.46                   | -4.57                  |                                      |
| 4787.00    | 22.790             | 80.950         | 4395.43     | 272.33            | 308.79        | 1730.50      | 1728024.77           | 14372503.92           | 39°34'40.4733"N | 80°41'20.7065"W | 1757.83              | 79.883             | 1.32             | -0.39                   | 3.22                   |                                      |
| 4881.00    | 22.150             | 79.340         | 4482.29     | 278.07            | 314.94        | 1765.89      | 1728060.15           | 14372510.06           | 39°34'40.5328"N | 80°41'20.2542"W | 1793.76              | 79.888             | 0.94             | -0.68                   | -1.71                  |                                      |
| 4975.00    | 23.310             | 82.320         | 4568.99     | 284.31            | 320.70        | 1801.74      | 1728095.98           | 14372515.82           | 39°34'40.5885"N | 80°41'19.7961"W | 1830.06              | 79.907             | 1.74             | 1.23                    | 3.17                   |                                      |
| 5069.00    | 25.480             | 85.370         | 4654.60     | 293.00            | 324.82        | 1840.33      | 1728134.56           | 14372519.94           | 39°34'40.6279"N | 80°41'19.3031"W | 1868.78              | 79.980             | 2.67             | 2.31                    | 3.24                   |                                      |
| 5164.00    | 24.450             | 80.950         | 4740.73     | 301.49            | 329.56        | 1880.12      | 1728174.33           | 14372524.68           | 39°34'40.6734"N | 80°41'18.7948"W | 1908.79              | 80.058             | 2.24             | -1.08                   | -4.65                  |                                      |
| 5258.00    | 26.350             | 81.540         | 4825.64     | 308.69            | 335.69        | 1919.97      | 1728214.16           | 14372530.81           | 39°34'40.7327"N | 80°41'18.2856"W | 1949.09              | 80.083             | 2.04             | 2.02                    | 0.63                   |                                      |
| 5353.00    | 28.520             | 80.310         | 4909.95     | 316.24            | 342.61        | 1963.18      | 1728257.36           | 14372537.72           | 39°34'40.7996"N | 80°41'17.7334"W | 1992.86              | 80.101             | 2.36             | 2.28                    | -1.28                  |                                      |
| 5447.00    | 27.930             | 76.800         | 4992.78     | 322.12            | 351.41        | 2006.74      | 1728300.90           | 14372546.53           | 39°34'40.8851"N | 80°41'17.1767"W | 2037.28              | 80.067             | 1.87             | -0.63                   | -3.73                  |                                      |
| 5541.00    | 26.900             | 72.710         | 5076.23     | 325.00            | 362.76        | 2048.48      | 1728342.63           | 14372557.87           | 39°34'40.9958"N | 80°41'16.6432"W | 2080.36              | 79.958             | 2.28             | -1.10                   | -4.35                  |                                      |

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# Actual Wellpath Report

Shenango Unit 1H AWP Proj: 25182'  
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## REFERENCE WELLPATH IDENTIFICATION

|          |                              |          |                      |
|----------|------------------------------|----------|----------------------|
| Operator | ANTERO RESOURCES CORPORATION | Well     | Shenango Unit 1H     |
| Field    | Wetzel                       | API      | 47-103-03658-0000    |
| Facility | Galmish Pad                  | Wellbore | Shenango Unit 1H AWB |
| Slot     | Slot A                       |          |                      |

## WELLPATH DATA (264 stations) † = interpolated, ‡ = extrapolated station

| MD<br>(ft) | Inclination<br>[°] | Azimuth<br>[°] | TVD<br>(ft) | Vert Sect<br>(ft) | North<br>(ft) | East<br>(ft) | Grid East<br>[US ft] | Grid North<br>[US ft] | Latitude        | Longitude       | Closure Dist<br>(ft) | Closure Dir<br>[°] | DLS<br>[°/100ft] | Build Rate<br>[°/100ft] | Turn Rate<br>[°/100ft] | Comments                                 |
|------------|--------------------|----------------|-------------|-------------------|---------------|--------------|----------------------|-----------------------|-----------------|-----------------|----------------------|--------------------|------------------|-------------------------|------------------------|------------------------------------------|
| 5636.00    | 26.640             | 76.450         | 5161.05     | 327.68            | 374.14        | 2089.71      | 1728383.84           | 14372569.24           | 39°34'41.1069"N | 80°41'16.1161"W | 2122.94              | 79.849             | 1.79             | -0.27                   | 3.94                   |                                          |
| 5730.00    | 25.750             | 77.010         | 5245.40     | 331.85            | 383.67        | 2130.10      | 1728424.21           | 14372578.77           | 39°34'41.1996"N | 80°41'15.6000"W | 2164.37              | 79.789             | 0.98             | -0.95                   | 0.60                   |                                          |
| 5824.00    | 26.830             | 80.760         | 5329.68     | 337.60            | 391.67        | 2170.93      | 1728465.03           | 14372586.76           | 39°34'41.2773"N | 80°41'15.0781"W | 2205.98              | 79.773             | 2.11             | 1.15                    | 3.99                   |                                          |
| 5919.00    | 27.500             | 84.230         | 5414.20     | 346.28            | 397.31        | 2213.92      | 1728508.00           | 14372592.41           | 39°34'41.3316"N | 80°41'14.5268"W | 2249.29              | 79.826             | 1.81             | 0.71                    | 3.65                   |                                          |
| 6013.00    | 26.950             | 79.470         | 5497.80     | 354.41            | 403.39        | 2256.46      | 1728550.52           | 14372598.48           | 39°34'41.3902"N | 80°41'13.9853"W | 2292.23              | 79.864             | 2.39             | -0.59                   | -5.06                  |                                          |
| 6107.00    | 25.770             | 75.090         | 5582.03     | 359.02            | 412.54        | 2297.15      | 1728591.20           | 14372607.63           | 39°34'41.4792"N | 80°41'13.4652"W | 2333.90              | 79.819             | 2.42             | -1.26                   | -4.66                  |                                          |
| 6201.00    | 27.010             | 76.740         | 5666.24     | 362.64            | 422.69        | 2337.68      | 1728631.71           | 14372617.78           | 39°34'41.5782"N | 80°41'12.9472"W | 2375.58              | 79.751             | 1.53             | 1.32                    | 1.76                   |                                          |
| 6295.00    | 27.650             | 77.490         | 5749.74     | 367.26            | 432.31        | 2379.75      | 1728673.76           | 14372627.39           | 39°34'41.6718"N | 80°41'12.4095"W | 2418.70              | 79.704             | 0.77             | 0.68                    | 0.80                   |                                          |
| 6389.00    | 27.340             | 74.050         | 5833.13     | 370.90            | 442.97        | 2421.80      | 1728715.79           | 14372638.05           | 39°34'41.7757"N | 80°41'11.8720"W | 2461.98              | 79.635             | 1.72             | -0.33                   | -3.66                  |                                          |
| 6484.00    | 26.470             | 78.850         | 5917.86     | 374.97            | 453.06        | 2463.55      | 1728757.53           | 14372648.13           | 39°34'41.8740"N | 80°41'11.3383"W | 2504.87              | 79.579             | 2.46             | -0.92                   | 5.05                   |                                          |
| 6578.00    | 25.870             | 78.880         | 6002.22     | 380.67            | 461.07        | 2504.23      | 1728798.19           | 14372656.14           | 39°34'41.9517"N | 80°41'10.8185"W | 2546.32              | 79.568             | 0.64             | -0.64                   | 0.03                   |                                          |
| 6672.00    | 25.400             | 82.010         | 6086.97     | 387.35            | 467.83        | 2544.32      | 1728838.27           | 14372662.89           | 39°34'42.0171"N | 80°41'10.3062"W | 2586.97              | 79.581             | 1.52             | -0.50                   | 3.33                   |                                          |
| 6767.00    | 25.100             | 88.350         | 6172.91     | 397.27            | 471.24        | 2584.64      | 1728878.57           | 14372666.30           | 39°34'42.0495"N | 80°41'9.7911"W  | 2627.25              | 79.667             | 2.86             | -0.32                   | 6.67                   |                                          |
| 6861.00    | 23.340             | 87.110         | 6258.63     | 408.40            | 472.75        | 2623.17      | 1728917.09           | 14372667.82           | 39°34'42.0631"N | 80°41'9.2989"W  | 2665.43              | 79.784             | 1.95             | -1.87                   | -1.32                  |                                          |
| 6955.00    | 24.020             | 86.980         | 6344.72     | 418.86            | 474.70        | 2660.87      | 1728954.78           | 14372669.78           | 39°34'42.0810"N | 80°41'8.8173"W  | 2702.89              | 79.885             | 0.73             | 0.72                    | -0.14                  |                                          |
| 7050.00    | 27.580             | 89.130         | 6430.24     | 431.05            | 476.05        | 2702.19      | 1728996.07           | 14372671.11           | 39°34'42.0930"N | 80°41'8.2897"W  | 2743.80              | 80.009             | 3.87             | 3.75                    | 2.26                   |                                          |
| 7103.00    | 26.540             | 88.830         | 6477.44     | 438.50            | 476.48        | 2726.29      | 1729020.17           | 14372671.54           | 39°34'42.0964"N | 80°41'7.9818"W  | 2767.62              | 80.086             | 1.98             | -1.96                   | -0.57                  |                                          |
| 7153.00    | 26.410             | 87.400         | 6522.19     | 445.08            | 477.21        | 2748.57      | 1729042.44           | 14372672.27           | 39°34'42.1028"N | 80°41'7.6973"W  | 2789.69              | 80.150             | 1.30             | -0.26                   | -2.86                  | BH Lucida <8-1/2"> (7103')(7153'-25157') |
| 7200.00    | 25.980             | 82.580         | 6564.37     | 450.10            | 479.02        | 2769.22      | 1729063.08           | 14372674.08           | 39°34'42.1200"N | 80°41'7.4334"W  | 2810.35              | 80.186             | 4.62             | -0.91                   | -10.26                 |                                          |
| 7295.00    | 26.840             | 92.830         | 6649.50     | 462.28            | 480.65        | 2811.30      | 1729105.14           | 14372675.71           | 39°34'42.1346"N | 80°41'6.8960"W  | 2852.09              | 80.298             | 4.88             | 0.91                    | 10.79                  |                                          |
| 7361.00†   | 27.730             | 105.710        | 6708.21     | 476.59            | 475.75        | 2840.99      | 1729134.82           | 14372670.81           | 39°34'42.0852"N | 80°41'6.5171"W  | 2880.55              | 80.494             | 9.03             | 1.35                    | 19.52                  | Sycamore: 7361' MD                       |
| 7389.00    | 28.450             | 110.860        | 6732.91     | 484.58            | 471.61        | 2853.49      | 1729147.32           | 14372666.67           | 39°34'42.0438"N | 80°41'6.3575"W  | 2892.20              | 80.615             | 9.03             | 2.57                    | 18.39                  |                                          |
| 7484.00    | 32.050             | 126.170        | 6815.09     | 519.86            | 448.63        | 2895.06      | 1729188.87           | 14372643.71           | 39°34'41.8153"N | 80°41'5.8277"W  | 2929.62              | 81.191             | 8.93             | 3.79                    | 16.12                  |                                          |
| 7519.00†   | 35.088             | 131.394        | 6844.25     | 536.24            | 436.49        | 2910.11      | 1729203.92           | 14372631.57           | 39°34'41.6948"N | 80°41'5.6360"W  | 2942.67              | 81.470             | 11.97            | 8.68                    | 14.93                  | Middlesex: 7519' MD                      |
| 7578.00    | 40.620             | 138.570        | 6890.84     | 568.79            | 410.85        | 2935.57      | 1729229.37           | 14372605.94           | 39°34'41.4405"N | 80°41'5.3120"W  | 2964.19              | 82.033             | 11.97            | 9.38                    | 12.16                  |                                          |
| 7652.00†   | 48.070             | 145.158        | 6943.75     | 617.64            | 370.12        | 2967.30      | 1729261.08           | 14372565.22           | 39°34'41.0368"N | 80°41'4.9086"W  | 2990.30              | 82.890             | 11.82            | 10.07                   | 8.90                   | Burkett: 7652' MD                        |
| 7672.00    | 50.140             | 146.670        | 6956.85     | 632.24            | 357.60        | 2975.77      | 1729269.55           | 14372552.71           | 39°34'40.9128"N | 80°41'4.6010"W  | 2997.18              | 83.148             | 11.82            | 10.35                   | 7.56                   |                                          |
| 7704.00†   | 53.215             | 149.156        | 6976.69     | 656.69            | 336.33        | 2989.09      | 1729282.87           | 14372531.44           | 39°34'40.7021"N | 80°41'4.6318"W  | 3007.96              | 83.580             | 11.38            | 9.61                    | 7.77                   | Tully: 7704' MD                          |
| 7766.00    | 59.300             | 153.450        | 7011.12     | 707.48            | 291.11        | 3013.77      | 1729307.53           | 14372486.24           | 39°34'40.2544"N | 80°41'4.3187"W  | 3027.80              | 84.483             | 11.38            | 9.82                    | 6.93                   |                                          |
| 7861.00    | 68.520             | 158.310        | 7052.88     | 792.35            | 213.30        | 3048.45      | 1729342.20           | 14372408.46           | 39°34'39.4841"N | 80°41'3.8793"W  | 3055.91              | 85.998             | 10.73            | 9.71                    | 5.12                   |                                          |



# Actual Wellpath Report

Shenango Unit 1H AWP Proj: 25182'

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## REFERENCE WELLPATH IDENTIFICATION

|          |                              |          |                      |
|----------|------------------------------|----------|----------------------|
| Operator | ANTERO RESOURCES CORPORATION | Well     | Shenango Unit 1H     |
| Field    | Wetzel                       | API      | 47-103-03658-0000    |
| Facility | Galmish Pad                  | Wellbore | Shenango Unit 1H AWB |
| Slot     | Slot A                       |          |                      |

## WELLPATH DATA (264 stations) † = Interpolated, ‡ = extrapolated station

| MD<br>(ft) | Inclination<br>[°] | Azimuth<br>[°] | TVD<br>(ft) | Vert Sect<br>(ft) | North<br>(ft) | East<br>(ft) | Grid East<br>(US ft) | Grid North<br>(US ft) | Latitude        | Longitude       | Closure Dist<br>(ft) | Closure Dir<br>[°] | DLS<br>(°/100ft) | Build Rate<br>(°/100ft) | Turn Rate<br>(°/100ft) | Comments                |
|------------|--------------------|----------------|-------------|-------------------|---------------|--------------|----------------------|-----------------------|-----------------|-----------------|----------------------|--------------------|------------------|-------------------------|------------------------|-------------------------|
| 7919.00†   | 73.391             | 160.906        | 7071.80     | 847.14            | 161.92        | 3067.53      | 1729361.27           | 14372357.11           | 39°34'38.9757"N | 80°41'3.6379"W  | 3071.80              | 86.978             | 9.40             | 8.40                    | 4.48                   | Marcellus POE: 7919' MD |
| 7955.00    | 76.430             | 162.450        | 7081.17     | 881.89            | 128.93        | 3078.45      | 1729372.19           | 14372324.13           | 39°34'38.6493"N | 80°41'3.4999"W  | 3081.15              | 87.602             | 9.40             | 8.44                    | 4.29                   |                         |
| 8049.00    | 84.510             | 161.500        | 7096.72     | 974.50            | 40.85         | 3107.12      | 1729400.85           | 14372236.09           | 39°34'37.7778"N | 80°41'3.1378"W  | 3107.39              | 89.247             | 8.65             | 8.60                    | -1.01                  |                         |
| 8143.00    | 90.000             | 162.190        | 7101.22     | 1068.34           | -48.33        | 3136.37      | 1729430.08           | 14372146.94           | 39°34'36.8954"N | 80°41'2.7683"W  | 3136.74              | 90.883             | 5.89             | 5.84                    | 0.73                   |                         |
| 8237.00    | 90.280             | 159.530        | 7100.99     | 1162.33           | -137.13       | 3167.18      | 1729460.89           | 14372058.18           | 39°34'36.0167"N | 80°41'2.3787"W  | 3170.15              | 92.479             | 2.85             | 0.30                    | -2.83                  |                         |
| 8332.00    | 90.250             | 158.630        | 7100.55     | 1257.28           | -225.86       | 3201.10      | 1729494.79           | 14371969.48           | 39°34'35.1385"N | 80°41'1.9495"W  | 3209.06              | 94.036             | 0.95             | -0.03                   | -0.95                  |                         |
| 8426.00    | 90.620             | 161.520        | 7099.84     | 1351.26           | -314.22       | 3233.13      | 1729526.81           | 14371881.15           | 39°34'34.2641"N | 80°41'1.5444"W  | 3248.37              | 95.551             | 3.10             | 0.39                    | 3.07                   |                         |
| 8521.00    | 90.370             | 161.880        | 7099.02     | 1446.25           | -404.42       | 3262.96      | 1729556.63           | 14371790.99           | 39°34'33.3717"N | 80°41'1.1676"W  | 3287.93              | 97.065             | 0.46             | -0.26                   | 0.38                   |                         |
| 8615.00    | 90.250             | 161.700        | 7098.51     | 1540.23           | -493.71       | 3292.34      | 1729585.99           | 14371701.74           | 39°34'32.4882"N | 80°41'0.7965"W  | 3329.15              | 98.528             | 0.23             | -0.13                   | -0.19                  |                         |
| 8709.00    | 90.280             | 161.570        | 7098.08     | 1634.23           | -582.92       | 3321.95      | 1729615.59           | 14371612.56           | 39°34'31.6055"N | 80°41'0.4223"W  | 3372.71              | 99.953             | 0.14             | 0.03                    | -0.14                  |                         |
| 8804.00    | 90.220             | 161.570        | 7097.66     | 1729.22           | -673.04       | 3351.99      | 1729645.62           | 14371522.47           | 39°34'30.7137"N | 80°41'0.0428"W  | 3418.89              | 101.353            | 0.06             | -0.06                   | 0.00                   |                         |
| 8898.00    | 90.340             | 161.380        | 7097.20     | 1823.22           | -762.17       | 3381.85      | 1729675.47           | 14371433.38           | 39°34'29.8318"N | 80°40'59.6654"W | 3466.67              | 102.701            | 0.24             | 0.13                    | -0.20                  |                         |
| 8992.00    | 90.150             | 161.660        | 7096.80     | 1917.21           | -851.33       | 3411.65      | 1729705.25           | 14371344.26           | 39°34'28.9497"N | 80°40'59.2889"W | 3516.26              | 104.011            | 0.36             | -0.20                   | 0.30                   |                         |
| 9087.00    | 90.310             | 161.810        | 7096.42     | 2012.20           | -941.54       | 3441.42      | 1729735.02           | 14371254.08           | 39°34'28.0571"N | 80°40'58.9127"W | 3567.89              | 105.301            | 0.23             | 0.17                    | 0.16                   |                         |
| 9181.00    | 89.660             | 161.730        | 7096.44     | 2106.19           | -1030.82      | 3470.83      | 1729764.41           | 14371164.84           | 39°34'27.1736"N | 80°40'58.5412"W | 3620.67              | 106.541            | 0.70             | -0.69                   | -0.09                  |                         |
| 9275.00    | 89.970             | 161.830        | 7096.75     | 2200.18           | -1120.11      | 3500.22      | 1729793.79           | 14371075.58           | 39°34'26.2902"N | 80°40'58.1699"W | 3675.07              | 107.745            | 0.35             | 0.33                    | 0.11                   |                         |
| 9369.00    | 89.780             | 161.140        | 7096.95     | 2294.18           | -1209.24      | 3530.07      | 1729823.63           | 14370986.49           | 39°34'25.4082"N | 80°40'57.7928"W | 3731.44              | 108.909            | 0.76             | -0.20                   | -0.73                  |                         |
| 9464.00    | 89.780             | 161.200        | 7097.32     | 2389.18           | -1299.15      | 3560.73      | 1729854.28           | 14370896.61           | 39°34'24.5185"N | 80°40'57.4052"W | 3790.33              | 110.045            | 0.06             | 0.00                    | 0.06                   |                         |
| 9559.00    | 90.060             | 161.280        | 7097.45     | 2484.17           | -1389.11      | 3591.28      | 1729884.82           | 14370806.69           | 39°34'23.6284"N | 80°40'57.0191"W | 3850.57              | 111.146            | 0.31             | 0.29                    | 0.08                   |                         |
| 9653.00    | 89.940             | 160.920        | 7097.45     | 2578.17           | -1478.04      | 3621.73      | 1729915.25           | 14370717.79           | 39°34'22.7484"N | 80°40'56.6343"W | 3911.72              | 112.201            | 0.40             | -0.13                   | -0.38                  |                         |
| 9747.00    | 89.970             | 161.020        | 7097.52     | 2672.17           | -1566.90      | 3652.38      | 1729945.89           | 14370628.96           | 39°34'21.8691"N | 80°40'56.2469"W | 3974.30              | 113.220            | 0.11             | 0.03                    | 0.11                   |                         |
| 9841.00    | 90.090             | 160.980        | 7097.47     | 2766.17           | -1655.78      | 3682.98      | 1729976.48           | 14370540.12           | 39°34'20.9896"N | 80°40'55.8601"W | 4038.07              | 114.208            | 0.13             | 0.13                    | -0.04                  |                         |
| 9936.00    | 90.740             | 161.020        | 7096.79     | 2861.17           | -1745.60      | 3713.91      | 1730007.40           | 14370450.33           | 39°34'20.1008"N | 80°40'55.4692"W | 4103.69              | 115.174            | 0.69             | 0.68                    | 0.04                   |                         |
| 10030.00   | 90.060             | 159.340        | 7096.13     | 2955.16           | -1834.03      | 3745.78      | 1730039.26           | 14370361.94           | 39°34'19.2258"N | 80°40'55.0663"W | 4170.68              | 116.088            | 1.93             | -0.72                   | -1.79                  |                         |
| 10125.00   | 90.060             | 159.780        | 7096.03     | 3050.13           | -1923.05      | 3778.96      | 1730072.42           | 14370272.96           | 39°34'18.3449"N | 80°40'54.6466"W | 4240.12              | 116.971            | 0.46             | 0.00                    | 0.46                   |                         |
| 10219.00   | 88.860             | 159.540        | 7096.92     | 3144.10           | -2011.18      | 3811.63      | 1730105.08           | 14370184.86           | 39°34'17.4727"N | 80°40'54.2334"W | 4309.68              | 117.818            | 1.30             | -1.28                   | -0.26                  |                         |
| 10313.00   | 90.580             | 161.250        | 7097.38     | 3238.08           | -2099.72      | 3843.17      | 1730136.60           | 14370096.35           | 39°34'16.5965"N | 80°40'53.8347"W | 4379.36              | 118.650            | 2.58             | 1.83                    | 1.82                   |                         |
| 10408.00   | 90.490             | 158.850        | 7096.49     | 3333.06           | -2189.01      | 3875.58      | 1730169.00           | 14370007.10           | 39°34'15.7129"N | 80°40'53.4248"W | 4451.05              | 119.459            | 2.53             | -0.09                   | -2.53                  |                         |
| 10502.00   | 89.850             | 160.480        | 7096.21     | 3427.03           | -2277.15      | 3908.24      | 1730201.65           | 14369919.00           | 39°34'14.8407"N | 80°40'53.0117"W | 4523.25              | 120.227            | 1.86             | -0.68                   | 1.73                   |                         |
| 10596.00   | 89.690             | 160.970        | 7096.59     | 3521.03           | -2365.88      | 3939.27      | 1730232.67           | 14369830.30           | 39°34'13.9627"N | 80°40'52.6195"W | 4595.13              | 120.989            | 0.55             | -0.17                   | 0.52                   |                         |

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# Actual Wellpath Report

Shenango Unit 1H AWP Proj: 25182'

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## REFERENCE WELLPATH IDENTIFICATION

|          |                              |          |                      |
|----------|------------------------------|----------|----------------------|
| Operator | ANTERO RESOURCES CORPORATION | Well     | Shenango Unit 1H     |
| Field    | Wetzel                       | API      | 47-103-03658-0000    |
| Facility | Galmish Pad                  | Wellbore | Shenango Unit 1H AWB |
| Slot     | Slot A                       |          |                      |

## WELLPATH DATA (264 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 |
|----------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|-----------------|-----------------|-------------------|-----------------|---------------|----------------------|---------------------|----------|
| 10690.00 | 89.690          | 161.160     | 7097.09  | 3615.03        | -2454.79   | 3969.77   | 1730263.16        | 14369741.43        | 39°34'13.0829"N | 80°40'52.2340"W | 4667.45           | 121.731         | 0.20          | 0.00                 | 0.20                |          |
| 10784.00 | 89.970          | 159.910     | 7097.37  | 3709.02        | -2543.42   | 4001.09   | 1730294.47        | 14369652.83        | 39°34'12.2059"N | 80°40'51.8381"W | 4741.07           | 122.443         | 1.36          | 0.30                 | -1.33               |          |
| 10879.00 | 90.000          | 159.420     | 7097.40  | 3804.00        | -2632.50   | 4034.11   | 1730327.47        | 14369563.79        | 39°34'11.3243"N | 80°40'51.4205"W | 4817.06           | 123.127         | 0.52          | 0.03                 | -0.52               |          |
| 10973.00 | 89.690          | 160.140     | 7097.65  | 3897.98        | -2720.70   | 4066.60   | 1730359.95        | 14369475.62        | 39°34'10.4514"N | 80°40'51.0097"W | 4892.79           | 123.784         | 0.83          | -0.33                | 0.77                |          |
| 11067.00 | 89.690          | 160.310     | 7098.16  | 3991.97        | -2809.16   | 4098.40   | 1730391.74        | 14369387.20        | 39°34'9.5761"N  | 80°40'50.6076"W | 4968.73           | 124.428         | 0.18          | 0.00                 | 0.18                |          |
| 11161.00 | 89.570          | 159.670     | 7098.77  | 4085.95        | -2897.48   | 4130.56   | 1730423.89        | 14369298.91        | 39°34'8.7021"N  | 80°40'50.2009"W | 5045.49           | 125.049         | 0.69          | -0.13                | -0.68               |          |
| 11255.00 | 89.540          | 160.030     | 7099.50  | 4179.93        | -2985.72   | 4162.94   | 1730456.25        | 14369210.70        | 39°34'7.8288"N  | 80°40'49.7914"W | 5122.95           | 125.649         | 0.38          | -0.03                | 0.38                |          |
| 11349.00 | 89.510          | 160.980     | 7100.28  | 4273.92        | -3074.33   | 4194.31   | 1730487.61        | 14369122.13        | 39°34'6.9520"N  | 80°40'49.3949"W | 5200.36           | 126.241         | 1.01          | -0.03                | 1.01                |          |
| 11443.00 | 89.570          | 160.500     | 7101.03  | 4367.92        | -3163.07   | 4225.32   | 1730518.60        | 14369033.43        | 39°34'6.0739"N  | 80°40'49.0030"W | 5278.10           | 126.818         | 0.51          | 0.06                 | -0.51               |          |
| 11538.00 | 89.780          | 160.890     | 7101.57  | 4462.92        | -3252.72   | 4256.72   | 1730550.00        | 14368943.81        | 39°34'5.1867"N  | 80°40'48.6060"W | 5357.23           | 127.385         | 0.47          | 0.22                 | 0.41                |          |
| 11631.00 | 89.820          | 161.220     | 7101.90  | 4555.92        | -3340.68   | 4286.92   | 1730580.18        | 14368855.88        | 39°34'4.3163"N  | 80°40'48.2245"W | 5434.87           | 127.928         | 0.36          | 0.04                 | 0.36                |          |
| 11725.00 | 89.910          | 160.630     | 7102.12  | 4649.91        | -3429.52   | 4317.64   | 1730610.89        | 14368767.08        | 39°34'3.4372"N  | 80°40'47.8363"W | 5513.95           | 128.460         | 0.63          | 0.10                 | -0.63               |          |
| 11820.00 | 90.120          | 160.390     | 7102.09  | 4744.91        | -3519.08   | 4349.33   | 1730642.57        | 14368677.56        | 39°34'2.5510"N  | 80°40'47.4356"W | 5594.69           | 128.977         | 0.34          | 0.22                 | -0.25               |          |
| 11914.00 | 89.630          | 160.570     | 7102.30  | 4838.91        | -3607.68   | 4380.74   | 1730673.97        | 14368588.99        | 39°34'1.6743"N  | 80°40'47.0386"W | 5675.05           | 129.473         | 0.56          | -0.52                | 0.19                |          |
| 12008.00 | 89.940          | 160.840     | 7102.65  | 4932.91        | -3696.40   | 4411.80   | 1730705.01        | 14368500.31        | 39°34'0.7964"N  | 80°40'46.6460"W | 5755.63           | 129.958         | 0.44          | 0.33                 | 0.29                |          |
| 12102.00 | 90.060          | 160.630     | 7102.65  | 5026.90        | -3785.13   | 4442.81   | 1730736.02        | 14368411.61        | 39°33'59.9183"N | 80°40'46.2540"W | 5836.59           | 130.430         | 0.26          | 0.13                 | -0.22               |          |
| 12196.00 | 89.780          | 161.040     | 7102.78  | 5120.90        | -3873.92   | 4473.67   | 1730766.86        | 14368322.85        | 39°33'59.0397"N | 80°40'45.8640"W | 5917.86           | 130.891         | 0.53          | -0.30                | 0.44                |          |
| 12290.00 | 89.200          | 159.610     | 7103.62  | 5214.89        | -3962.43   | 4505.32   | 1730798.50        | 14368234.38        | 39°33'58.1638"N | 80°40'45.4640"W | 5999.89           | 131.332         | 1.64          | -0.62                | -1.52               |          |
| 12384.00 | 89.850          | 160.640     | 7104.40  | 5308.88        | -4050.82   | 4537.28   | 1730830.44        | 14368146.02        | 39°33'57.2891"N | 80°40'45.0600"W | 6082.44           | 131.758         | 1.30          | 0.69                 | 1.10                |          |
| 12478.00 | 89.970          | 160.900     | 7104.55  | 5402.88        | -4139.58   | 4568.24   | 1730861.39        | 14368057.30        | 39°33'56.4108"N | 80°40'44.6687"W | 6164.81           | 132.182         | 0.30          | 0.13                 | 0.28                |          |
| 12572.00 | 89.970          | 160.190     | 7104.59  | 5496.87        | -4228.21   | 4599.54   | 1730892.68        | 14367968.70        | 39°33'55.5337"N | 80°40'44.2730"W | 6247.68           | 132.591         | 0.76          | 0.00                 | -0.76               |          |
| 12666.00 | 89.880          | 160.830     | 7104.72  | 5590.87        | -4316.82   | 4630.91   | 1730924.03        | 14367880.13        | 39°33'54.6568"N | 80°40'43.8766"W | 6330.90           | 132.990         | 0.69          | -0.10                | 0.68                |          |
| 12761.00 | 89.970          | 160.510     | 7104.84  | 5685.87        | -4406.47   | 4662.35   | 1730955.47        | 14367790.52        | 39°33'53.7697"N | 80°40'43.4791"W | 6415.18           | 133.384         | 0.35          | 0.09                 | -0.34               |          |
| 12855.00 | 90.030          | 160.970     | 7104.84  | 5779.87        | -4495.21   | 4693.36   | 1730986.46        | 14367701.81        | 39°33'52.8916"N | 80°40'43.0873"W | 6498.81           | 133.765         | 0.49          | 0.06                 | 0.49                |          |
| 12949.00 | 90.430          | 160.510     | 7104.46  | 5873.86        | -4583.94   | 4724.36   | 1731017.45        | 14367613.11        | 39°33'52.0135"N | 80°40'42.6954"W | 6582.72           | 134.136         | 0.65          | 0.43                 | -0.49               |          |
| 13044.00 | 89.910          | 160.110     | 7104.18  | 5968.86        | -4673.39   | 4756.37   | 1731049.45        | 14367523.70        | 39°33'51.1284"N | 80°40'42.2908"W | 6668.11           | 134.496         | 0.69          | -0.55                | -0.42               |          |
| 13232.00 | 89.720          | 160.620     | 7104.79  | 6156.84        | -4850.46   | 4819.54   | 1731112.60        | 14367346.70        | 39°33'49.3762"N | 80°40'41.4923"W | 6837.76           | 135.183         | 0.29          | -0.10                | 0.27                |          |
| 13326.00 | 90.120          | 161.270     | 7104.92  | 6250.84        | -4939.30   | 4850.23   | 1731143.27        | 14367257.89        | 39°33'48.4970"N | 80°40'41.1045"W | 6922.53           | 135.521         | 0.81          | 0.43                 | 0.69                |          |
| 13420.00 | 88.400          | 159.070     | 7106.14  | 6344.82        | -5027.71   | 4882.11   | 1731175.14        | 14367169.51        | 39°33'47.6221"N | 80°40'40.7015"W | 7008.06           | 135.842         | 2.97          | -1.83                | -2.34               |          |
| 13515.00 | 89.660          | 160.880     | 7107.74  | 6439.78        | -5116.95   | 4914.64   | 1731207.65        | 14367080.31        | 39°33'46.7390"N | 80°40'40.2903"W | 7094.85           | 136.155         | 2.32          | 1.33                 | 1.91                |          |

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# Actual Wellpath Report

Shenango Unit 1H AWP Proj: 25182'

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## REFERENCE WELLPATH IDENTIFICATION

|          |                              |          |                      |
|----------|------------------------------|----------|----------------------|
| Operator | ANTERO RESOURCES CORPORATION | Well     | Shenango Unit 1H     |
| Field    | Wetzel                       | API      | 47-103-03658-0000    |
| Facility | Galmish Pad                  | Wellbore | Shenango Unit 1H AWB |
| Slot     | Slot A                       |          |                      |

## WELLPATH DATA (264 stations)

| MD<br>[ft] | Inclination<br>[°] | Azimuth<br>[°] | TVD<br>[ft] | Vert Sect<br>[ft] | North<br>[ft] | East<br>[ft] | Grid East<br>[US ft] | Grid North<br>[US ft] | Latitude        | Longitude       | Closure Dist<br>[ft] | Closure Dir<br>[°] | DLS<br>[°/100ft] | Build Rate<br>[°/100ft] | Turn Rate<br>[°/100ft] | Comments |
|------------|--------------------|----------------|-------------|-------------------|---------------|--------------|----------------------|-----------------------|-----------------|-----------------|----------------------|--------------------|------------------|-------------------------|------------------------|----------|
| 13609.00   | 89.780             | 160.320        | 7108.20     | 6533.78           | -5205.81      | 4945.86      | 1731238.86           | 14366991.68           | 39°33'45.8616"N | 80°40'39.8957"W | 7180.53              | 136.466            | 0.61             | 0.13                    | -0.60                  |          |
| 13703.00   | 89.690             | 160.580        | 7108.64     | 6627.78           | -5294.19      | 4977.32      | 1731270.31           | 14366903.14           | 39°33'44.9851"N | 80°40'39.4981"W | 7266.51              | 136.767            | 0.29             | -0.10                   | 0.28                   |          |
| 13797.00   | 89.720             | 160.550        | 7109.12     | 6721.77           | -5382.84      | 5008.59      | 1731301.57           | 14366814.53           | 39°33'44.1079"N | 80°40'39.1028"W | 7352.61              | 137.063            | 0.05             | 0.03                    | -0.03                  |          |
| 13891.00   | 89.600             | 160.100        | 7109.68     | 6815.76           | -5471.35      | 5040.24      | 1731333.21           | 14366726.06           | 39°33'43.2320"N | 80°40'38.7028"W | 7439.06              | 137.349            | 0.50             | -0.13                   | -0.48                  |          |
| 13985.00   | 89.540             | 160.170        | 7110.39     | 6909.75           | -5559.75      | 5072.18      | 1731365.13           | 14366637.69           | 39°33'42.3571"N | 80°40'38.2990"W | 7525.81              | 137.626            | 0.10             | -0.06                   | 0.07                   |          |
| 14080.00   | 89.570             | 161.580        | 7111.12     | 7004.75           | -5649.50      | 5103.30      | 1731396.25           | 14366547.97           | 39°33'41.4690"N | 80°40'37.9058"W | 7613.19              | 137.908            | 1.48             | 0.03                    | 1.48                   |          |
| 14174.00   | 89.630             | 161.650        | 7111.78     | 7098.74           | -5738.70      | 5132.95      | 1731425.88           | 14366458.81           | 39°33'40.5864"N | 80°40'37.5313"W | 7699.34              | 138.189            | 0.10             | 0.06                    | 0.07                   |          |
| 14268.00   | 89.630             | 161.700        | 7112.39     | 7192.73           | -5827.93      | 5162.50      | 1731455.42           | 14366369.61           | 39°33'39.7034"N | 80°40'37.1581"W | 7785.65              | 138.465            | 0.05             | 0.00                    | 0.05                   |          |
| 14362.00   | 89.660             | 161.590        | 7112.97     | 7286.72           | -5917.15      | 5192.10      | 1731485.01           | 14366280.43           | 39°33'38.8207"N | 80°40'36.7842"W | 7872.14              | 138.734            | 0.12             | 0.03                    | -0.12                  |          |
| 14457.00   | 89.690             | 161.430        | 7113.51     | 7381.71           | -6007.24      | 5222.23      | 1731515.13           | 14366190.37           | 39°33'37.9292"N | 80°40'36.4037"W | 7959.82              | 138.999            | 0.17             | 0.03                    | -0.17                  |          |
| 14551.00   | 89.630             | 161.420        | 7114.07     | 7475.71           | -6096.35      | 5252.18      | 1731545.06           | 14366101.30           | 39°33'37.0475"N | 80°40'36.0255"W | 8046.79              | 139.254            | 0.06             | -0.06                   | -0.01                  |          |
| 14645.00   | 89.600             | 161.540        | 7114.70     | 7569.70           | -6185.48      | 5282.03      | 1731574.90           | 14366012.21           | 39°33'36.1655"N | 80°40'35.6484"W | 8133.88              | 139.505            | 0.13             | -0.03                   | 0.13                   |          |
| 14739.00   | 89.600             | 161.360        | 7115.35     | 7663.70           | -6274.59      | 5311.94      | 1731604.80           | 14365923.13           | 39°33'35.2837"N | 80°40'35.2707"W | 8221.14              | 139.749            | 0.19             | 0.00                    | -0.19                  |          |
| 14834.00   | 89.420             | 161.550        | 7116.17     | 7758.69           | -6364.65      | 5342.15      | 1731635.00           | 14365833.10           | 39°33'34.3926"N | 80°40'34.8890"W | 8309.48              | 139.992            | 0.28             | -0.19                   | 0.20                   |          |
| 14928.00   | 89.630             | 161.470        | 7116.94     | 7852.68           | -6453.80      | 5371.96      | 1731664.80           | 14365743.99           | 39°33'33.5105"N | 80°40'34.5125"W | 8396.99              | 140.227            | 0.24             | 0.22                    | -0.09                  |          |
| 15022.00   | 89.510             | 161.380        | 7117.65     | 7946.68           | -6542.90      | 5401.90      | 1731694.73           | 14365654.93           | 39°33'32.6288"N | 80°40'34.1343"W | 8484.70              | 140.456            | 0.16             | -0.13                   | -0.10                  |          |
| 15116.00   | 89.510             | 161.330        | 7118.45     | 8040.67           | -6631.96      | 5431.95      | 1731724.77           | 14365565.90           | 39°33'31.7475"N | 80°40'33.7548"W | 8572.58              | 140.681            | 0.05             | 0.00                    | -0.05                  |          |
| 15211.00   | 89.450             | 161.780        | 7119.32     | 8135.66           | -6722.08      | 5462.01      | 1731754.81           | 14365475.82           | 39°33'30.8558"N | 80°40'33.3752"W | 8661.40              | 140.904            | 0.48             | -0.06                   | 0.47                   |          |
| 15305.00   | 89.720             | 161.510        | 7120.00     | 8229.65           | -6811.29      | 5491.61      | 1731784.40           | 14365386.64           | 39°33'29.9730"N | 80°40'33.0014"W | 8749.37              | 141.122            | 0.41             | 0.29                    | -0.29                  |          |
| 15399.00   | 89.630             | 161.020        | 7120.53     | 8323.65           | -6900.31      | 5521.80      | 1731814.58           | 14365297.65           | 39°33'29.0922"N | 80°40'32.6200"W | 8837.68              | 141.332            | 0.53             | -0.10                   | -0.52                  |          |
| 15494.00   | 89.570             | 161.460        | 7121.19     | 8418.65           | -6990.26      | 5552.35      | 1731845.12           | 14365207.74           | 39°33'28.2021"N | 80°40'32.2341"W | 8927.06              | 141.540            | 0.47             | -0.06                   | 0.46                   |          |
| 15588.00   | 89.690             | 161.510        | 7121.80     | 8512.64           | -7079.39      | 5582.20      | 1731874.95           | 14365118.64           | 39°33'27.3201"N | 80°40'31.8571"W | 9015.48              | 141.744            | 0.14             | 0.13                    | 0.05                   |          |
| 15682.00   | 89.170             | 161.380        | 7122.74     | 8606.63           | -7168.50      | 5612.11      | 1731904.85           | 14365029.57           | 39°33'26.4384"N | 80°40'31.4793"W | 9104.02              | 141.943            | 0.57             | -0.55                   | -0.14                  |          |
| 15776.00   | 89.290             | 161.560        | 7124.00     | 8700.62           | -7257.62      | 5641.98      | 1731934.71           | 14364940.48           | 39°33'25.5565"N | 80°40'31.1021"W | 9192.66              | 142.139            | 0.23             | 0.13                    | 0.19                   |          |
| 15871.00   | 89.290             | 161.070        | 7125.18     | 8795.61           | -7347.81      | 5672.42      | 1731965.13           | 14364850.53           | 39°33'24.6661"N | 80°40'30.7177"W | 9282.44              | 142.332            | 0.52             | 0.00                    | -0.52                  |          |
| 15965.00   | 89.480             | 161.410        | 7126.19     | 8889.61           | -7436.61      | 5702.64      | 1731995.35           | 14364761.57           | 39°33'23.7854"N | 80°40'30.3358"W | 9371.41              | 142.518            | 0.41             | 0.20                    | 0.36                   |          |
| 16059.00   | 89.600             | 161.320        | 7126.94     | 8983.60           | -7525.68      | 5732.68      | 1732025.37           | 14364672.53           | 39°33'22.9040"N | 80°40'29.9565"W | 9460.41              | 142.702            | 0.16             | 0.13                    | -0.10                  |          |
| 16248.00   | 89.420             | 160.710        | 7128.56     | 9172.59           | -7704.39      | 5794.16      | 1732066.83           | 14364493.89           | 39°33'21.1356"N | 80°40'29.1798"W | 9640.02              | 143.055            | 0.34             | -0.10                   | -0.32                  |          |
| 16437.00   | 89.820             | 161.290        | 7129.81     | 9361.59           | -7883.09      | 5855.69      | 1732148.34           | 14364315.26           | 39°33'19.3673"N | 80°40'28.4025"W | 9819.99              | 143.394            | 0.37             | 0.21                    | 0.31                   |          |
| 16531.00   | 89.940             | 161.290        | 7130.01     | 9455.59           | -7972.12      | 5885.85      | 1732178.48           | 14364226.27           | 39°33'18.4863"N | 80°40'28.0216"W | 9909.48              | 143.561            | 0.13             | 0.13                    | 0.00                   |          |

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# Actual Wellpath Report

Shenango Unit 1H AWP Proj: 25182'  
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## REFERENCE WELLPATH IDENTIFICATION

|          |                              |          |                      |
|----------|------------------------------|----------|----------------------|
| Operator | ANTERO RESOURCES CORPORATION | Well     | Shenango Unit 1H     |
| Field    | Wetzel                       | API      | 47-103-03658-0000    |
| Facility | Galmish Pad                  | Wellbore | Shenango Unit 1H AWB |
| Slot     | Slot A                       |          |                      |

## WELLPATH DATA (264 stations)

| MD<br>[ft] | Inclination<br>[°] | Azimuth<br>[°] | TVD<br>[ft] | Vert Sect<br>[ft] | North<br>[ft] | East<br>[ft] | Grid East<br>[US ft] | Grid North<br>[US ft] | Latitude        | Longitude       | Closure Dist<br>[ft] | Closure Dir<br>[°] | DLS<br>[°/100ft] | Build Rate<br>[°/100ft] | Turn Rate<br>[°/100ft] | Comments |
|------------|--------------------|----------------|-------------|-------------------|---------------|--------------|----------------------|-----------------------|-----------------|-----------------|----------------------|--------------------|------------------|-------------------------|------------------------|----------|
| 16625.00   | 89.850             | 161.100        | 7130.18     | 9549.58           | -8061.10      | 5916.15      | 1732208.77           | 14364137.32           | 39°33'17.6058"N | 80°40'27.6389"W | 9999.11              | 143.725            | 0.22             | -0.10                   | -0.20                  |          |
| 16813.00   | 89.880             | 161.490        | 7130.62     | 9737.58           | -8239.17      | 5976.44      | 1732269.04           | 14363959.32           | 39°33'15.8437"N | 80°40'26.8774"W | 10178.49             | 144.044            | 0.21             | 0.02                    | 0.21                   |          |
| 17003.00   | 89.850             | 161.160        | 7131.07     | 9927.58           | -8419.17      | 6037.28      | 1732329.85           | 14363779.40           | 39°33'14.0626"N | 80°40'26.1091"W | 10360.07             | 144.356            | 0.17             | -0.02                   | -0.17                  |          |
| 17192.00   | 89.850             | 161.220        | 7131.56     | 10116.57          | -8598.07      | 6098.21      | 1732390.76           | 14363600.56           | 39°33'12.2923"N | 80°40'25.3394"W | 10541.11             | 144.654            | 0.03             | 0.00                    | 0.03                   |          |
| 17286.00   | 89.910             | 161.440        | 7131.76     | 10210.57          | -8687.13      | 6128.31      | 1732420.84           | 14363511.54           | 39°33'11.4111"N | 80°40'24.9593"W | 10631.19             | 144.799            | 0.24             | 0.06                    | 0.23                   |          |
| 17381.00   | 90.120             | 161.360        | 7131.74     | 10305.57          | -8777.16      | 6158.61      | 1732451.13           | 14363421.54           | 39°33'10.5201"N | 80°40'24.5767"W | 10722.27             | 144.944            | 0.24             | 0.22                    | -0.08                  |          |
| 17475.00   | 90.090             | 160.940        | 7131.56     | 10399.57          | -8866.12      | 6188.98      | 1732481.49           | 14363332.62           | 39°33'9.6398"N  | 80°40'24.1931"W | 10812.56             | 145.083            | 0.45             | -0.03                   | -0.45                  |          |
| 17570.00   | 90.060             | 161.400        | 7131.44     | 10494.57          | -8956.04      | 6219.64      | 1732512.14           | 14363242.74           | 39°33'8.7501"N  | 80°40'23.8058"W | 10903.88             | 145.221            | 0.49             | -0.03                   | 0.48                   |          |
| 17664.00   | 90.060             | 161.180        | 7131.34     | 10588.57          | -9045.07      | 6249.79      | 1732542.28           | 14363153.74           | 39°33'7.8691"N  | 80°40'23.4250"W | 10994.23             | 145.357            | 0.23             | 0.00                    | -0.23                  |          |
| 17758.00   | 90.150             | 160.990        | 7131.17     | 10682.57          | -9133.99      | 6280.26      | 1732572.74           | 14363064.85           | 39°33'6.9891"N  | 80°40'23.0401"W | 11084.74             | 145.489            | 0.22             | 0.10                    | -0.20                  |          |
| 17852.00   | 90.060             | 161.170        | 7131.00     | 10776.56          | -9222.91      | 6310.74      | 1732603.21           | 14362975.96           | 39°33'6.1092"N  | 80°40'22.6551"W | 11175.31             | 145.618            | 0.21             | -0.10                   | 0.19                   |          |
| 17947.00   | 90.120             | 161.360        | 7130.85     | 10871.56          | -9312.88      | 6341.26      | 1732633.71           | 14362886.03           | 39°33'5.2190"N  | 80°40'22.2698"W | 11266.82             | 145.749            | 0.21             | 0.06                    | 0.20                   |          |
| 18041.00   | 90.180             | 161.260        | 7130.60     | 10965.56          | -9401.92      | 6371.38      | 1732663.82           | 14362797.03           | 39°33'4.3379"N  | 80°40'21.8894"W | 11357.40             | 145.876            | 0.12             | 0.06                    | -0.11                  |          |
| 18230.00   | 90.000             | 161.390        | 7130.30     | 11154.56          | -9580.97      | 6431.90      | 1732724.31           | 14362618.05           | 39°33'2.5661"N  | 80°40'21.1251"W | 11539.68             | 146.126            | 0.12             | -0.10                   | 0.07                   |          |
| 18324.00   | 89.970             | 161.100        | 7130.33     | 11248.56          | -9669.98      | 6462.12      | 1732754.53           | 14362529.07           | 39°33'1.6853"N  | 80°40'20.7434"W | 11630.46             | 146.247            | 0.31             | -0.03                   | -0.31                  |          |
| 18418.00   | 90.460             | 161.420        | 7129.98     | 11342.55          | -9759.00      | 6492.32      | 1732784.71           | 14362440.09           | 39°33'0.8045"N  | 80°40'20.3620"W | 11721.27             | 146.366            | 0.62             | 0.52                    | 0.34                   |          |
| 18513.00   | 90.400             | 160.910        | 7129.26     | 11437.55          | -9848.91      | 6522.99      | 1732815.37           | 14362350.22           | 39°32'59.9148"N | 80°40'19.9747"W | 11813.14             | 146.483            | 0.54             | -0.06                   | -0.54                  |          |
| 18607.00   | 90.310             | 160.890        | 7128.68     | 11531.55          | -9937.73      | 6553.75      | 1732846.12           | 14362261.43           | 39°32'59.0358"N | 80°40'19.5862"W | 11904.20             | 146.596            | 0.10             | -0.10                   | -0.02                  |          |
| 18701.00   | 90.370             | 161.300        | 7128.12     | 11625.55          | -10026.66     | 6584.20      | 1732876.56           | 14362172.54           | 39°32'58.1558"N | 80°40'19.2015"W | 11995.23             | 146.708            | 0.44             | 0.06                    | 0.44                   |          |
| 18795.00   | 90.340             | 161.130        | 7127.54     | 11719.54          | -10115.65     | 6614.47      | 1732906.82           | 14362083.58           | 39°32'57.2752"N | 80°40'18.8193"W | 12086.26             | 146.820            | 0.18             | -0.03                   | -0.18                  |          |
| 18890.00   | 90.340             | 161.700        | 7126.98     | 11814.54          | -10205.69     | 6644.75      | 1732937.08           | 14361993.57           | 39°32'56.3842"N | 80°40'18.4370"W | 12178.21             | 146.933            | 0.60             | 0.00                    | 0.60                   |          |
| 18984.00   | 90.400             | 160.780        | 7126.37     | 11908.53          | -10294.70     | 6674.98      | 1732967.30           | 14361904.60           | 39°32'55.5035"N | 80°40'18.0552"W | 12269.32             | 147.041            | 0.98             | 0.06                    | -0.98                  |          |
| 19079.00   | 90.370             | 161.200        | 7125.73     | 12003.53          | -10384.51     | 6705.92      | 1732998.23           | 14361814.82           | 39°32'54.6147"N | 80°40'17.6644"W | 12361.53             | 147.147            | 0.44             | -0.03                   | 0.44                   |          |
| 19172.00   | 89.750             | 161.260        | 7125.63     | 12096.53          | -10472.57     | 6735.85      | 1733028.14           | 14361726.80           | 39°32'53.7434"N | 80°40'17.2865"W | 12451.76             | 147.251            | 0.67             | -0.67                   | 0.06                   |          |
| 19266.00   | 89.780             | 161.530        | 7126.02     | 12190.53          | -10561.65     | 6765.83      | 1733058.12           | 14361637.75           | 39°32'52.8618"N | 80°40'16.9078"W | 12542.93             | 147.356            | 0.29             | 0.03                    | 0.29                   |          |
| 19360.00   | 89.600             | 161.050        | 7126.53     | 12284.52          | -10650.68     | 6795.99      | 1733088.26           | 14361548.76           | 39°32'51.9808"N | 80°40'16.5270"W | 12634.18             | 147.459            | 0.55             | -0.19                   | -0.51                  |          |
| 19454.00   | 89.720             | 161.330        | 7127.09     | 12378.52          | -10739.66     | 6826.30      | 1733118.56           | 14361459.81           | 39°32'51.1003"N | 80°40'16.1443"W | 12725.51             | 147.559            | 0.32             | 0.13                    | 0.30                   |          |
| 19549.00   | 89.880             | 161.230        | 7127.42     | 12473.52          | -10829.64     | 6856.78      | 1733149.04           | 14361369.88           | 39°32'50.2100"N | 80°40'15.7593"W | 12817.82             | 147.660            | 0.20             | 0.17                    | -0.11                  |          |
| 19643.00   | 89.850             | 161.070        | 7127.64     | 12567.52          | -10918.59     | 6887.16      | 1733179.39           | 14361280.95           | 39°32'49.3297"N | 80°40'15.3758"W | 12909.25             | 147.757            | 0.17             | -0.03                   | -0.17                  |          |
| 19832.00   | 90.000             | 161.310        | 7127.89     | 12756.52          | -11097.50     | 6948.09      | 1733240.31           | 14361102.12           | 39°32'47.5593"N | 80°40'14.6062"W | 13093.15             | 147.950            | 0.15             | 0.08                    | 0.13                   |          |

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# Actual Wellpath Report

Shenango Unit 1H AWP Proj: 25182'

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## REFERENCE WELLPATH IDENTIFICATION

|          |                              |          |                      |
|----------|------------------------------|----------|----------------------|
| Operator | ANTERO RESOURCES CORPORATION | Well     | Shenango Unit 1H     |
| Field    | Wetzel                       | API      | 47-103-03658-0000    |
| Facility | Galmish Pad                  | Wellbore | Shenango Unit 1H AWB |
| Slot     | Slot A                       |          |                      |

## WELLPATH DATA (264 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 |
|----------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|-----------------|-----------------|-------------------|-----------------|---------------|----------------------|---------------------|----------|
| 19927.00 | 89.910          | 161.450     | 7127.96  | 12851.52       | -11187.53  | 6978.43   | 1733270.63        | 14361012.13        | 39°32'46.6685"N | 80°40'14.2232"W | 13185.57          | 148.045         | 0.18          | -0.09                | 0.15                |          |
| 20021.00 | 90.000          | 161.200     | 7128.04  | 12945.51       | -11276.58  | 7008.53   | 1733300.72        | 14360923.11        | 39°32'45.7873"N | 80°40'13.8432"W | 13277.07          | 148.139         | 0.28          | 0.10                 | -0.27               |          |
| 20116.00 | 89.880          | 161.000     | 7128.13  | 13040.51       | -11366.46  | 7039.30   | 1733331.48        | 14360833.27        | 39°32'44.8979"N | 80°40'13.4546"W | 13369.67          | 148.230         | 0.25          | -0.13                | -0.21               |          |
| 20305.00 | 89.910          | 161.570     | 7128.48  | 13229.51       | -11545.46  | 7099.94   | 1733392.10        | 14360654.33        | 39°32'43.1265"N | 80°40'12.6888"W | 13553.85          | 148.410         | 0.30          | 0.02                 | 0.30                |          |
| 20399.00 | 90.090          | 161.240     | 7128.48  | 13323.51       | -11634.56  | 7129.91   | 1733422.06        | 14360565.27        | 39°32'42.2449"N | 80°40'12.3104"W | 13645.46          | 148.499         | 0.40          | 0.19                 | -0.35               |          |
| 20493.00 | 89.780          | 160.750     | 7128.59  | 13417.51       | -11723.43  | 7160.53   | 1733452.66        | 14360476.43        | 39°32'41.3655"N | 80°40'11.9238"W | 13737.25          | 148.584         | 0.62          | -0.33                | -0.52               |          |
| 20588.00 | 90.060          | 161.450     | 7128.72  | 13512.50       | -11813.31  | 7191.30   | 1733483.42        | 14360386.59        | 39°32'40.4761"N | 80°40'11.5352"W | 13830.00          | 148.669         | 0.79          | 0.29                 | 0.74                |          |
| 20682.00 | 90.460          | 161.060     | 7128.29  | 13606.50       | -11902.32  | 7221.50   | 1733513.61        | 14360297.61        | 39°32'39.5952"N | 80°40'11.1538"W | 13921.76          | 148.754         | 0.59          | 0.43                 | -0.41               |          |
| 20776.00 | 90.180          | 160.960     | 7127.77  | 13700.50       | -11991.20  | 7252.09   | 1733544.19        | 14360208.77        | 39°32'38.7157"N | 80°40'10.7675"W | 14013.63          | 148.835         | 0.32          | -0.30                | -0.11               |          |
| 20871.00 | 90.370          | 160.830     | 7127.31  | 13795.50       | -12080.97  | 7283.19   | 1733575.27        | 14360119.03        | 39°32'37.8274"N | 80°40'10.3748"W | 14106.55          | 148.916         | 0.24          | 0.20                 | -0.14               |          |
| 20965.00 | 90.340          | 161.160     | 7126.73  | 13889.50       | -12169.84  | 7313.80   | 1733605.87        | 14360030.20        | 39°32'36.9479"N | 80°40'9.9883"W  | 14198.48          | 148.995         | 0.35          | -0.03                | 0.35                |          |
| 21059.00 | 90.370          | 161.330     | 7126.15  | 13983.49       | -12258.85  | 7344.02   | 1733636.08        | 14359941.22        | 39°32'36.0671"N | 80°40'9.6067"W  | 14290.35          | 149.075         | 0.18          | 0.03                 | 0.18                |          |
| 21154.00 | 90.280          | 160.990     | 7125.61  | 14078.49       | -12348.76  | 7374.70   | 1733666.74        | 14359851.35        | 39°32'35.1774"N | 80°40'9.2193"W  | 14383.25          | 149.154         | 0.37          | -0.09                | -0.36               |          |
| 21249.00 | 89.660          | 161.450     | 7125.66  | 14173.49       | -12438.70  | 7405.28   | 1733697.32        | 14359761.44        | 39°32'34.2874"N | 80°40'8.8331"W  | 14476.17          | 149.233         | 0.81          | -0.65                | 0.48                |          |
| 21343.00 | 89.690          | 161.300     | 7126.19  | 14267.49       | -12527.78  | 7435.30   | 1733727.32        | 14359672.40        | 39°32'33.4060"N | 80°40'8.4541"W  | 14568.08          | 149.311         | 0.16          | 0.03                 | -0.16               |          |
| 21437.00 | 89.690          | 160.850     | 7126.70  | 14361.48       | -12616.69  | 7465.79   | 1733757.80        | 14359583.52        | 39°32'32.5261"N | 80°40'8.0691"W  | 14660.11          | 149.386         | 0.48          | 0.00                 | -0.48               |          |
| 21532.00 | 89.720          | 161.140     | 7127.19  | 14456.48       | -12706.51  | 7496.72   | 1733788.72        | 14359493.74        | 39°32'31.6372"N | 80°40'7.6785"W  | 14753.18          | 149.460         | 0.31          | 0.03                 | 0.31                |          |
| 21626.00 | 89.720          | 160.640     | 7127.65  | 14550.48       | -12795.33  | 7527.50   | 1733819.48        | 14359404.95        | 39°32'30.7583"N | 80°40'7.2898"W  | 14845.33          | 149.532         | 0.53          | 0.00                 | -0.53               |          |
| 21721.00 | 89.720          | 160.920     | 7128.11  | 14645.48       | -12885.04  | 7558.77   | 1733850.74        | 14359315.28        | 39°32'29.8706"N | 80°40'6.8949"W  | 14938.51          | 149.603         | 0.29          | 0.00                 | 0.29                |          |
| 21815.00 | 89.720          | 161.300     | 7128.57  | 14739.48       | -12973.97  | 7589.20   | 1733881.17        | 14359226.38        | 39°32'28.9905"N | 80°40'6.5106"W  | 15030.83          | 149.674         | 0.40          | 0.00                 | 0.40                |          |
| 21909.00 | 89.660          | 160.780     | 7129.08  | 14833.48       | -13062.87  | 7619.74   | 1733911.69        | 14359137.52        | 39°32'28.1108"N | 80°40'6.1250"W  | 15122.80          | 149.744         | 0.56          | -0.06                | -0.55               |          |
| 22003.00 | 89.690          | 161.010     | 7129.61  | 14927.48       | -13151.69  | 7650.51   | 1733942.45        | 14359048.73        | 39°32'27.2318"N | 80°40'5.7364"W  | 15215.04          | 149.813         | 0.25          | 0.03                 | 0.24                |          |
| 22097.00 | 89.720          | 161.270     | 7130.10  | 15021.47       | -13240.64  | 7680.89   | 1733972.82        | 14358959.82        | 39°32'26.3516"N | 80°40'5.3528"W  | 15307.21          | 149.882         | 0.28          | 0.03                 | 0.28                |          |
| 22192.00 | 89.720          | 161.100     | 7130.56  | 15116.47       | -13330.57  | 7711.53   | 1734003.45        | 14358869.93        | 39°32'25.4618"N | 80°40'4.9659"W  | 15400.38          | 149.951         | 0.18          | 0.00                 | -0.18               |          |
| 22286.00 | 89.630          | 161.370     | 7131.10  | 15210.47       | -13419.57  | 7741.77   | 1734033.67        | 14358780.96        | 39°32'24.5810"N | 80°40'4.5842"W  | 15492.57          | 150.019         | 0.30          | -0.10                | 0.29                |          |
| 22381.00 | 89.720          | 161.430     | 7131.63  | 15305.46       | -13509.61  | 7772.07   | 1734063.96        | 14358690.96        | 39°32'23.6901"N | 80°40'4.2017"W  | 15585.72          | 150.088         | 0.11          | 0.09                 | 0.06                |          |
| 22475.00 | 89.780          | 161.470     | 7132.04  | 15399.46       | -13598.72  | 7801.98   | 1734093.85        | 14358601.88        | 39°32'22.8082"N | 80°40'3.8242"W  | 15677.88          | 150.156         | 0.08          | 0.06                 | 0.04                |          |
| 22663.00 | 89.820          | 161.560     | 7132.70  | 15587.45       | -13777.02  | 7861.58   | 1734153.44        | 14358423.65        | 39°32'21.0439"N | 80°40'3.0718"W  | 15862.24          | 150.290         | 0.05          | 0.02                 | 0.05                |          |
| 22757.00 | 89.570          | 161.010     | 7133.20  | 15681.45       | -13866.05  | 7891.74   | 1734183.59        | 14358334.66        | 39°32'20.1629"N | 80°40'2.6910"W  | 15954.53          | 150.354         | 0.64          | -0.27                | -0.59               |          |
| 22852.00 | 89.570          | 161.180     | 7133.91  | 15776.44       | -13955.92  | 7922.52   | 1734214.35        | 14358244.82        | 39°32'19.2736"N | 80°40'2.3024"W  | 16047.87          | 150.417         | 0.18          | 0.00                 | 0.18                |          |

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# Actual Wellpath Report

Shenango Unit 1H AWP Proj: 25182'

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## REFERENCE WELLPATH IDENTIFICATION

|          |                              |          |                      |
|----------|------------------------------|----------|----------------------|
| Operator | ANTERO RESOURCES CORPORATION | Well     | Shenango Unit 1H     |
| Field    | Wetzel                       | API      | 47-103-03658-0000    |
| Facility | Galmish Pad                  | Wellbore | Shenango Unit 1H AWP |
| Slot     | Slot A                       |          |                      |

## WELLPATH DATA (264 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                   |
|-----------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|-----------------|-----------------|-------------------|-----------------|---------------|----------------------|---------------------|----------------------------|
| 22946.00  | 89.750          | 161.210     | 7134.47  | 15870.44       | -14044.90  | 7952.82   | 1734244.64        | 14358155.88        | 39°32'18.3930"N | 80°40'1.9198"W  | 16140.22          | 150.480         | 0.19          | 0.19                 | 0.03                |                            |
| 23135.00  | 89.630          | 161.330     | 7135.49  | 16059.44       | -14223.89  | 8013.51   | 1734305.31        | 14357976.96        | 39°32'16.6218"N | 80°40'1.1537"W  | 16325.91          | 150.604         | 0.09          | -0.06                | 0.06                |                            |
| 23229.00  | 89.780          | 161.210     | 7135.98  | 16153.43       | -14312.91  | 8043.69   | 1734335.48        | 14357887.97        | 39°32'15.7409"N | 80°40'0.7726"W  | 16418.30          | 150.665         | 0.20          | 0.16                 | -0.13               |                            |
| 23323.00  | 89.720          | 161.270     | 7136.39  | 16247.43       | -14401.92  | 8073.92   | 1734365.70        | 14357799.00        | 39°32'14.8602"N | 80°40'0.3910"W  | 16510.71          | 150.724         | 0.09          | -0.06                | 0.06                |                            |
| 23418.00  | 89.750          | 161.140     | 7136.83  | 16342.43       | -14491.85  | 8104.53   | 1734396.29        | 14357709.10        | 39°32'13.9702"N | 80°40'0.0046"W  | 16604.13          | 150.784         | 0.14          | 0.03                 | -0.14               |                            |
| 23512.00  | 89.570          | 161.030     | 7137.39  | 16436.43       | -14580.77  | 8135.00   | 1734426.75        | 14357620.22        | 39°32'13.0903"N | 80°39'59.6199"W | 16696.62          | 150.842         | 0.22          | -0.19                | -0.12               |                            |
| 23606.00  | 89.720          | 161.360     | 7137.97  | 16530.43       | -14669.75  | 8165.30   | 1734457.04        | 14357531.27        | 39°32'12.2097"N | 80°39'59.2374"W | 16789.10          | 150.899         | 0.39          | 0.16                 | 0.35                |                            |
| 23701.00  | 89.780          | 161.100     | 7138.38  | 16625.42       | -14759.70  | 8195.87   | 1734487.59        | 14357441.36        | 39°32'11.3197"N | 80°39'58.8515"W | 16882.57          | 150.957         | 0.28          | 0.06                 | -0.27               |                            |
| 23795.00  | 89.780          | 161.480     | 7138.74  | 16719.42       | -14848.73  | 8226.02   | 1734517.74        | 14357352.36        | 39°32'10.4386"N | 80°39'58.4708"W | 16975.05          | 151.014         | 0.40          | 0.00                 | 0.40                |                            |
| 23889.00  | 89.630          | 160.950     | 7139.23  | 16813.42       | -14937.72  | 8256.29   | 1734547.99        | 14357263.41        | 39°32'9.5580"N  | 80°39'58.0887"W | 17067.57          | 151.070         | 0.59          | -0.16                | -0.56               |                            |
| 23983.00  | 89.820          | 161.130     | 7139.68  | 16907.42       | -15026.62  | 8286.83   | 1734578.52        | 14357174.54        | 39°32'8.6783"N  | 80°39'57.7031"W | 17160.16          | 151.124         | 0.28          | 0.20                 | 0.19                |                            |
| 24077.00  | 89.940          | 161.460     | 7139.88  | 17001.42       | -15115.66  | 8316.98   | 1734608.66        | 14357085.54        | 39°32'7.7972"N  | 80°39'57.3226"W | 17252.69          | 151.179         | 0.37          | 0.13                 | 0.35                |                            |
| 24172.00  | 90.000          | 161.040     | 7139.93  | 17096.41       | -15205.61  | 8347.52   | 1734639.18        | 14356995.62        | 39°32'6.9070"N  | 80°39'56.9371"W | 17346.23          | 151.234         | 0.45          | 0.06                 | -0.44               |                            |
| 24266.00  | 90.030          | 161.100     | 7139.90  | 17190.41       | -15294.53  | 8378.01   | 1734669.66        | 14356906.74        | 39°32'6.0271"N  | 80°39'56.5521"W | 17438.86          | 151.287         | 0.07          | 0.03                 | 0.06                |                            |
| 24360.00  | 89.970          | 160.830     | 7139.90  | 17284.41       | -15383.39  | 8408.67   | 1734700.31        | 14356817.91        | 39°32'5.1478"N  | 80°39'56.1650"W | 17531.53          | 151.339         | 0.29          | -0.06                | -0.29               |                            |
| 24454.00  | 89.940          | 162.030     | 7139.98  | 17378.41       | -15472.50  | 8438.60   | 1734730.23        | 14356728.84        | 39°32'4.2660"N  | 80°39'55.7872"W | 17624.08          | 151.392         | 1.28          | -0.03                | 1.28                |                            |
| 24548.00  | 90.030          | 160.970     | 7140.00  | 17472.40       | -15561.64  | 8468.43   | 1734760.05        | 14356639.74        | 39°32'3.3839"N  | 80°39'55.4108"W | 17716.63          | 151.446         | 1.13          | 0.10                 | -1.13               |                            |
| 24643.00  | 89.910          | 161.070     | 7140.05  | 17567.40       | -15651.47  | 8499.33   | 1734790.93        | 14356549.94        | 39°32'2.4949"N  | 80°39'55.0207"W | 17810.31          | 151.496         | 0.16          | -0.13                | 0.11                |                            |
| 24737.00  | 90.120          | 161.420     | 7140.02  | 17661.40       | -15740.48  | 8529.55   | 1734821.14        | 14356460.96        | 39°32'1.6141"N  | 80°39'54.6392"W | 17902.96          | 151.547         | 0.43          | 0.22                 | 0.37                |                            |
| 24927.00  | 90.180          | 161.840     | 7139.53  | 17851.39       | -15920.80  | 8589.43   | 1734881.00        | 14356280.72        | 39°31'59.8298"N | 80°39'53.8835"W | 18090.05          | 151.653         | 0.22          | 0.03                 | 0.22                |                            |
| 25021.00  | 90.000          | 161.650     | 7139.38  | 17945.38       | -16010.07  | 8618.87   | 1734910.43        | 14356191.49        | 39°31'58.9465"N | 80°39'53.5120"W | 18182.61          | 151.705         | 0.28          | -0.19                | -0.20               |                            |
| 25115.00  | 89.420          | 161.030     | 7139.86  | 18039.38       | -16099.12  | 8648.95   | 1734940.49        | 14356102.46        | 39°31'58.0652"N | 80°39'53.1324"W | 18275.29          | 151.754         | 0.90          | -0.62                | -0.66               |                            |
| 25157.00  | 89.910          | 161.410     | 7140.10  | 18081.38       | -16138.89  | 8662.47   | 1734954.01        | 14356062.72        | 39°31'57.6717"N | 80°39'52.9617"W | 18316.71          | 151.776         | 1.48          | 1.17                 | 0.90                |                            |
| 25182.00† | 89.910          | 161.410     | 7140.14  | 18106.37       | -16162.58  | 8670.44   | 1734961.98        | 14356039.03        | 39°31'57.4372"N | 80°39'52.8611"W | 18341.36          | 151.789         | 0.00          | 0.00                 | 0.00                | Projected MD at TD: 25182' |

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# Actual Wellpath Report

Shenango Unit 1H AWP Proj: 25182'

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## REFERENCE WELLPATH IDENTIFICATION

|          |                              |          |                      |
|----------|------------------------------|----------|----------------------|
| Operator | ANTERO RESOURCES CORPORATION | Well     | Shenango Unit 1H     |
| Field    | Wetzel                       | API      | 47-103-03658-0000    |
| Facility | Galmish Pad                  | Wellbore | Shenango Unit 1H AWB |
| Slot     | Slot A                       |          |                      |

## HOLE & CASING SECTIONS - Ref Wellbore: Shenango Unit 1H AWB Ref Wellpath: Shenango Unit 1H AWP Proj: 25182'

| String/Diameter             | Start MD<br>[ft] | End MD<br>[ft] | Interval<br>[ft] | Start TVD<br>[ft] | End TVD<br>[ft] | Start N/S<br>[ft] | Start E/W<br>[ft] | End N/S<br>[ft] | End E/W<br>[ft] |
|-----------------------------|------------------|----------------|------------------|-------------------|-----------------|-------------------|-------------------|-----------------|-----------------|
| 20in Conductor              | 30.00            | 130.00         | 100.00           | 30.00             | 130.00          | 0.00              | 0.00              | -0.08           | 0.56            |
| 17.5in Open Hole            | 130.00           | 374.00         | 244.00           | 130.00            | 373.95          | -0.08             | 0.56              | -1.29           | 4.33            |
| 13.375in Casing Surface     | 30.00            | 354.00         | 324.00           | 30.00             | 353.97          | 0.00              | 0.00              | -1.24           | 3.56            |
| 12.375in Open Hole          | 374.00           | 3786.00        | 3412.00          | 373.95            | 3505.25         | -1.29             | 4.33              | 227.22          | 1282.61         |
| 9.625in Casing Intermediate | 30.00            | 3756.00        | 3726.00          | 30.00             | 3478.00         | 0.00              | 0.00              | 225.15          | 1270.22         |
| 8.75in Open Hole            | 3786.00          | 7178.00        | 3392.00          | 3505.25           | 6544.61         | 227.22            | 1282.61           | 477.96          | 2759.61         |
| 8.5in Open Hole             | 7178.00          | 25182.00       | 18004.00         | 6544.61           | 7140.14         | 477.96            | 2759.61           | -16162.58       | 8670.44         |
| 5.5in Casing Production     | 30.00            | 25182.00       | 25132.00         | 30.00             | 7140.11         | 0.00              | 0.00              | -16143.62       | 8664.06         |



# Actual Wellpath Report

Shenango Unit 1H AWP Proj: 25182'

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## REFERENCE WELLPATH IDENTIFICATION

|          |                              |          |                      |
|----------|------------------------------|----------|----------------------|
| Operator | ANTERO RESOURCES CORPORATION | Well     | Shenango Unit 1H     |
| Field    | Wetzel                       | API      | 47-103-03658-0000    |
| Facility | Galmish Pad                  | Wellbore | Shenango Unit 1H AWB |
| Slot     | Slot A                       |          |                      |

## TARGETS

| Name                                   | TVD<br>[ft] | North<br>[ft] | East<br>[ft] | Grid East<br>[US ft] | Grid North<br>[US ft] | Latitude        | Longitude       | Shape     |
|----------------------------------------|-------------|---------------|--------------|----------------------|-----------------------|-----------------|-----------------|-----------|
| Shenango Unit 1H BHL Rev-1             | 7044.00     | -16400.99     | 8784.64      | 1735076.13           | 14355800.71           | 39°31'55.0767"N | 80°39'51.4150"W | point     |
| Shenango Unit 1H POE Rev-2             | 7069.00     | 187.32        | 3062.87      | 1729356.61           | 14372382.50           | 39°34'39.2269"N | 80°41'3.6964"W  | point     |
| Shenango Unit 1H BHL Rev-2             | 7097.00     | -16164.66     | 8703.12      | 1734994.64           | 14356036.95           | 39°31'57.4155"N | 80°39'52.4441"W | point     |
| Shenango Unit 1H LP Rev-2              | 7097.00     | 20.07         | 3120.56      | 1729414.28           | 14372215.31           | 39°34'37.5719"N | 80°41'2.9671"W  | point     |
| Shenango Unit 1H 50' L/R Hard Line R-2 | 7500.00     | -7988.67      | 5882.99      | 1732175.63           | 14364209.73           | 39°33'18.3228"N | 80°40'28.0588"W | rectangle |
| 2D Rectangle 17297.4 x 100.            |             |               |              |                      |                       |                 |                 |           |

## WELLPATH COMPOSITION - Ref Wellbore: Shenango Unit 1H AWB Ref Wellpath: Shenango Unit 1H AWP Proj: 25182'

| Start MD<br>[ft] | End MD<br>[ft] | Positional Uncertainty Model                           | Log Name/Comment                            | Wellbore             | Survey Date |
|------------------|----------------|--------------------------------------------------------|---------------------------------------------|----------------------|-------------|
| 30.00            | 262.00         | Gyrodata 2015 - GC+WR+DPIPE                            | 01 Gyrodata MS Gyro <17-1/2"> (100'-262')   | Shenango Unit 1H AWB | 7/13/2024   |
| 262.00           | 3711.00        | BH NaviTrak (2019) (Axial Corr+HRGM)                   | 02 APS EM <12-3/8"> (262')(472'-3711')      | Shenango Unit 1H AWB | 7/13/2024   |
| 3711.00          | 7103.00        | BH NaviTrak (2019) (Axial Corr+HRGM)                   | 03 APS EM <8-3/4"> (3711')(3844'-7103')     | Shenango Unit 1H AWB | 9/13/2024   |
| 7103.00          | 25182.00       | BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing) | 04 BH Lucida <8-1/2"> (7103')(7153'-25157') | Shenango Unit 1H AWB | 9/13/2024   |

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# Actual Wellpath Report

Shenango Unit 1H AWP Proj: 25182'  
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| REFERENCE WELLPATH IDENTIFICATION |                              |          |                      |
|-----------------------------------|------------------------------|----------|----------------------|
| Operator                          | ANTERO RESOURCES CORPORATION | Well     | Shenango Unit 1H     |
| Field                             | Wetzel                       | API      | 47-103-03658-0000    |
| Facility                          | Galmish Pad                  | Wellbore | Shenango Unit 1H AWB |
| Slot                              | Slot A                       |          |                      |

| COMMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Wellpath general comments</b><br/>API: 47-103-03658-0000<br/>BH Job #: 112320159<br/>Rig: H&amp;P 519<br/>Duration: 9/17/2024-9/21/2024<br/>Gyrodata MS Gyro &lt;17-1/2"&gt; (100'-262')<br/>APS EM &lt;12-3/8"&gt; (262')(472'-3711')<br/>APS EM &lt;8-3/4"&gt; (3711')(3844'-7103')<br/>BH Lucida &lt;8-1/2"&gt; (7103')(7153'-25157')<br/>Sycamore: 7361' MD<br/>Middlesex: 7519' MD<br/>Burkett: 7652' MD<br/>Tully: 7704' MD<br/>Marcellus POE: 7919' MD<br/>Projected MD at TD: 25182'</p> |