



ANTERO RESOURCES CORPORATION

Location: Doddridge Co., WV
 Field: Doddridge
 Facility: Middle Pad

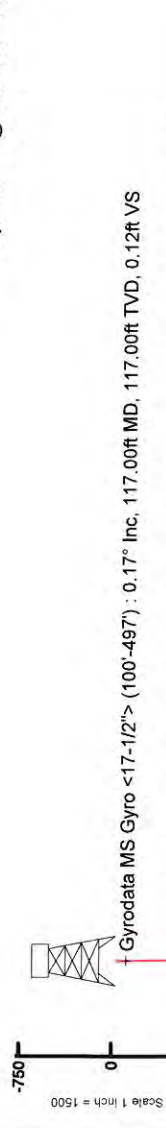
Slot: Slot #06
 Well: Goldsmith Unit 2H
 Wellbore: Goldsmith Unit 2H PWB



Location Information

| Facility Name | Grid East (US ft) | Grid North (US ft) | Latitude | Longitude |
|-------------------------------------------------------|-------------------|--------------------|----------------|----------------|
| Middle Pad | 1695090.990 | 14279417.589 | 39°19'21.010"N | 80°48'24.020"W |
| Slot | Local E (ft) | Grid East (US ft) | Latitude | Longitude |
| Slot #06 | -18.11 | 47.19 | 39°19'20.830"N | 80°48'23.420"W |
| Comment | Goldsmith Unit 2H | | | |
| Frontier 32 (RKB) to Ground level (At Slot: Slot #06) | | | | |
| Mean Sea Level to Ground level (At Slot: Slot #06) | | | | |
| Frontier 32 (RKB) to Mean Sea Level | | | | |

| | |
|---------------------------------------------------------------|-------------------------------------------------|
| Plot reference wellpath is Goldsmith Unit 2H PWP Rev-A.0 | Grid System: NAD27 / UTM Zone 17 North, US feet |
| True vertical depths are referenced to Frontier 32 (RKB) | North Reference: Grid north |
| Measured depths are referenced to Frontier 32 (RKB) | Scale: True distance |
| Frontier 32 (RKB) to Mean Sea Level: 875 feet | Depths are in feet |
| Mean Sea Level to Ground level (At Slot: Slot #06): -843 feet | Created by: mccrebn on 2018-05-15 |
| Coordinates are in feet referenced to Slot | Database: WA_MPL_EASTERNUS_Defn |



Projected MD @ TD: 15769' : 6418.79ft TVD, 8497.85ft N, 92713.12ft W

Well Profile Data

| Design Comment | MD (ft) | Inc (°) | Az (°) | TVD (ft) | Local N (ft) | Local E (ft) | DLS (°/100ft) | VS (ft) |
|-----------------|----------|---------|---------|----------|--------------|--------------|---------------|---------|
| Tie On | 6373.00 | 46.730 | 350.430 | 6246.04 | -55.74 | 501.07 | 9.67 | -251.53 |
| Proj. to Bottom | 6440.00 | 53.890 | 350.430 | 6288.80 | -4.93 | 492.51 | 10.69 | -201.53 |
| POE | 6659.14 | 71.250 | 332.740 | 6390.00 | 177.11 | 429.39 | 10.64 | -9.44 |
| Landing Pt. | 6905.80 | 90.000 | 332.740 | 6430.00 | 392.48 | 318.42 | 7.60 | 232.33 |
| On Azimuth | 7090.31 | 90.000 | 336.423 | 6430.00 | 559.10 | 239.24 | 2.00 | 416.71 |
| BHL | 15706.25 | 90.000 | 336.423 | 6430.00 | 8455.82 | -3206.98 | 0.00 | 9032.66 |

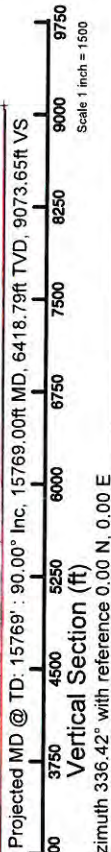
Directional ONE MWD <8-3/4"> (2531°)(2650-6356) : 0.52° Inc. 2667.00ft MD, 2666.72ft TVD, 2.92ft VS

Well Data

| Slot | Well | Wellbore | Wellpath |
|----------|-------------------|-----------------------|------------------------------------|
| Slot #06 | Goldsmith Unit 2H | Goldsmith Unit 2H AWB | Goldsmith Unit 2H AWP Proj: 15769' |
| Slot #06 | Goldsmith Unit 2H | Goldsmith Unit 2H PWB | Goldsmith Unit 2H PWP Rev-A.0 |

API: 47-017-06821-0000
 BH Job #: 9050763
 Rig: Frontier 32
 Duration: 03/12/18 - 03/14/18

BHI AT Curve <8-1/2">(6373°)(6410-15745) : 49.83° Inc. 6410.00ft MD, 6270.66ft TVD -224.72ft VS
 POE Marcellus: 6667 MD / 6388 TVD : 73.98° Inc. 6667.00ft MD, 6387.52ft TVD, 0.47ft VS



03/08/2019



Actual Wellpath Report

Goldsmith Unit 2H AWP Proj: 15769'

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| REFERENCE WELLPATH IDENTIFICATION | | | |
|-----------------------------------|------------------------------|----------|-----------------------|
| Operator | ANTERO RESOURCES CORPORATION | Slot #06 | |
| Area | Doddridge Co., WV | Well | Goldsmith Unit 2H |
| Field | Doddridge | Wellbore | Goldsmith Unit 2H AWB |
| Facility | Middle Pad | | |

| REPORT SETUP INFORMATION | | | |
|--------------------------|------------------------------------|----------------------|-------------------------------------------------------------|
| Projection System | NAD27 / UTM Zone 17 North, US feet | Software System | WellArchitect® 5.1 |
| North Reference | Grid | User | Mccrerib |
| Scale | 0.999603 | Report Generated | 5/15/2018 at 8:44:03 AM |
| Convergence at slot | 0.12° East | Database/Source file | WA_MPL_EASTERNUS_Defn/Goldsmith_Unit_2H_AWP_Proj_15769_.xml |

| WELLPATH LOCATION | | | | | | |
|-----------------------|-------------------|----------|------------------|-----------------|------------------------|----------------|
| | Local coordinates | | Grid coordinates | | Geographic coordinates | |
| | North[ft] | East[ft] | Easting[US ft] | Northing[US ft] | Latitude | Longitude |
| Slot Location | -18.11 | 47.19 | 1695138.16 | 14279399.59 | 39°19'20.830"N | 80°48'23.420"W |
| Facility Reference Pt | | | 1695090.99 | 14279417.69 | 39°19'21.010"N | 80°48'24.020"W |
| Field Reference Pt | | | 0.00 | 0.00 | 0°00'00.000" | 85°29'19.301"W |

| WELLPATH DATUM | | |
|--------------------------|-------------------|------------------------------------------------------|
| Calculation method | Minimum curvature | Frontier 32 (RKB) to Facility Vertical Datum |
| Horizontal Reference Pt | Slot | Frontier 32 (RKB) to Mean Sea Level |
| Vertical Reference Pt | Frontier 32 (RKB) | Frontier 32 (RKB) to Ground Level at Slot (Slot #06) |
| MD Reference Pt | Frontier 32 (RKB) | Section Origin |
| Field Vertical Reference | Mean Sea Level | Section Azimuth |
| | | 875.00ft |
| | | 875.00ft |
| | | 32.00ft |
| | | N 0.00, E 0.00 ft |
| | | 336.42° |

03/08/2019



Actual Wellpath Report

Goldsmith Unit 2H AWP Proj: 15769'

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REFERENCE WELLPATH IDENTIFICATION

| | | |
|----------|------------------------------|-----------------------|
| Operator | ANTERO RESOURCES CORPORATION | Slot #06 |
| Area | Doddridge Co., WV | Goldsmith Unit 2H |
| Field | Doddridge | Goldsmith Unit 2H AWB |
| Facility | Middle Pad | |

WELLPATH DATA (194 stations) † = interpolated/extrapolated station

| MD (ft) | Inclination (°) | Azimuth (°) | TVD (ft) | Vert Sect (ft) | North (ft) | East (ft) | Grid East (ft) | Grid North (ft) | Latitude | Longitude | Closure Dist (ft) | Closure Dir (°) | DLS (ft/100ft) | Build Rate (ft/100ft) | Turn Rate (ft/100ft) | Comments |
|---------|-----------------|-------------|----------|----------------|------------|-----------|----------------|-----------------|----------------|----------------|-------------------|-----------------|----------------|-----------------------|----------------------|----------------------------------------------------|
| 0.00 | 0.00 | 349.460 | 0.00 | 0.00 | 0.00 | 0.00 | 1695138.16 | 14279399.59 | 39°19'20.830"N | 80°48'23.420"W | 0.00 | 0.000 | 0.00 | 0.00 | 0.00 | |
| 32.00 | 0.00 | 349.460 | 32.00 | 0.00 | 0.00 | 0.00 | 1695138.16 | 14279399.59 | 39°19'20.830"N | 80°48'23.420"W | 0.00 | 0.000 | 0.00 | 0.00 | 0.00 | |
| 117.00 | 0.170 | 349.460 | 117.00 | 0.12 | 0.12 | -0.02 | 1695138.14 | 14279399.71 | 39°19'20.831"N | 80°48'23.420"W | 0.13 | 349.460 | 0.20 | 0.20 | -12.40 | Syrodata MS Gyro <17'-1/2"> (100'-497') |
| 217.00 | 0.530 | 18.550 | 217.00 | 0.61 | 0.71 | 0.10 | 1695138.26 | 14279400.29 | 39°19'20.837"N | 80°48'23.419"W | 0.71 | 7.793 | 0.39 | 0.36 | 29.09 | |
| 317.00 | 0.640 | 41.270 | 316.99 | 1.19 | 1.57 | 0.61 | 1695138.78 | 14279401.15 | 39°19'20.845"N | 80°48'23.412"W | 1.68 | 21.354 | 0.25 | 0.11 | 22.72 | |
| 417.00 | 0.350 | 59.550 | 416.99 | 1.46 | 2.14 | 1.24 | 1695139.41 | 14279401.73 | 39°19'20.851"N | 80°48'23.404"W | 2.48 | 30.160 | 0.33 | -0.29 | 18.28 | |
| 517.00 | 0.200 | 89.080 | 513.99 | 1.43 | 2.29 | 1.67 | 1695139.83 | 14279401.88 | 39°19'20.853"N | 80°48'23.399"W | 2.84 | 36.035 | 0.21 | -0.15 | 30.44 | |
| 666.00 | 0.340 | 300.990 | 665.99 | 1.61 | 2.43 | 1.55 | 1695139.71 | 14279402.02 | 39°19'20.854"N | 80°48'23.400"W | 2.80 | 37.742 | 0.32 | -0.32 | -143.68 | Directional ONE MWD <12'-1/4"> (497') (559'-2531') |
| 756.00 | 0.660 | 303.610 | 755.98 | 2.26 | 2.86 | 0.89 | 1695139.05 | 14279402.44 | 39°19'20.858"N | 80°48'23.409"W | 2.99 | 17.253 | 0.36 | 0.36 | 2.91 | |
| 847.00 | 0.880 | 295.570 | 846.98 | 3.23 | 3.45 | -0.18 | 1695137.98 | 14279403.03 | 39°19'20.864"N | 80°48'23.422"W | 3.45 | 357.023 | 0.27 | 0.24 | -8.84 | |
| 937.00 | 0.920 | 298.240 | 936.96 | 4.32 | 4.09 | -1.44 | 1695136.72 | 14279403.67 | 39°19'20.870"N | 80°48'23.438"W | 4.34 | 340.610 | 0.06 | 0.04 | 2.97 | |
| 1025.00 | 1.030 | 298.480 | 1024.95 | 5.50 | 4.80 | -2.76 | 1695135.41 | 14279404.38 | 39°19'20.878"N | 80°48'23.455"W | 5.54 | 330.134 | 0.13 | 0.12 | 0.27 | |
| 1113.00 | 1.360 | 298.680 | 1112.93 | 6.95 | 5.68 | -4.37 | 1695133.80 | 14279405.26 | 39°19'20.886"N | 80°48'23.475"W | 7.16 | 322.434 | 0.38 | 0.38 | 0.23 | |
| 1201.00 | 1.520 | 304.370 | 1200.90 | 8.77 | 6.84 | -6.25 | 1695131.92 | 14279406.42 | 39°19'20.898"N | 80°48'23.499"W | 9.26 | 317.588 | 0.24 | 0.18 | 6.47 | |
| 1289.00 | 1.380 | 299.510 | 1288.88 | 10.60 | 8.02 | -8.13 | 1695130.03 | 14279407.60 | 39°19'20.909"N | 80°48'23.523"W | 11.42 | 314.598 | 0.21 | -0.16 | -5.52 | |
| 1377.00 | 0.880 | 306.070 | 1376.86 | 12.03 | 8.94 | -9.60 | 1695128.56 | 14279408.52 | 39°19'20.919"N | 80°48'23.542"W | 13.12 | 312.956 | 0.59 | -0.57 | 7.45 | |
| 1465.00 | 0.710 | 313.070 | 1464.85 | 13.12 | 9.71 | -10.55 | 1695127.62 | 14279409.29 | 39°19'20.931"N | 80°48'23.554"W | 14.34 | 312.636 | 0.22 | -0.19 | 7.95 | |
| 1553.00 | 0.360 | 56.750 | 1552.85 | 13.67 | 10.23 | -10.71 | 1695127.45 | 14279409.82 | 39°19'20.931"N | 80°48'23.556"W | 14.82 | 313.689 | 0.99 | -0.40 | 117.82 | |
| 1642.00 | 1.120 | 78.240 | 1641.84 | 13.53 | 10.56 | -9.63 | 1695128.54 | 14279410.15 | 39°19'20.935"N | 80°48'23.542"W | 14.29 | 317.666 | 0.89 | 0.85 | 24.15 | |
| 1730.00 | 1.010 | 90.130 | 1729.82 | 13.05 | 10.74 | -8.01 | 1695130.16 | 14279410.32 | 39°19'20.936"N | 80°48'23.522"W | 13.40 | 323.278 | 0.28 | -0.12 | 13.51 | |
| 1818.00 | 0.890 | 94.910 | 1817.81 | 12.41 | 10.68 | -6.55 | 1695131.61 | 14279410.26 | 39°19'20.936"N | 80°48'23.503"W | 12.53 | 328.459 | 0.16 | -0.14 | 5.43 | |
| 1907.00 | 0.770 | 104.290 | 1906.80 | 11.71 | 10.47 | -5.29 | 1695132.88 | 14279410.05 | 39°19'20.934"N | 80°48'23.487"W | 11.73 | 333.216 | 0.20 | -0.13 | 10.54 | |
| 1995.00 | 0.660 | 108.640 | 1994.80 | 10.94 | 10.13 | -4.13 | 1695134.03 | 14279409.71 | 39°19'20.930"N | 80°48'23.472"W | 10.94 | 337.814 | 0.08 | 0.03 | 4.94 | |
| 2083.00 | 0.600 | 107.220 | 2082.79 | 10.19 | 9.78 | -3.06 | 1695135.10 | 14279409.36 | 39°19'20.927"N | 80°48'23.459"W | 10.25 | 342.606 | 0.16 | -0.16 | -1.61 | |
| 2171.00 | 0.500 | 97.450 | 2170.78 | 9.66 | 9.58 | -2.20 | 1695135.96 | 14279409.16 | 39°19'20.925"N | 80°48'23.448"W | 9.83 | 347.072 | 0.21 | -0.18 | -11.10 | |
| 2259.00 | 0.720 | 142.810 | 2258.78 | 8.93 | 9.09 | -1.48 | 1695136.68 | 14279408.67 | 39°19'20.920"N | 80°48'23.439"W | 9.21 | 350.726 | 0.58 | 0.25 | 51.55 | |
| 2347.00 | 1.160 | 153.360 | 2346.77 | 7.50 | 7.86 | -0.75 | 1695137.41 | 14279407.44 | 39°19'20.908"N | 80°48'23.429"W | 7.89 | 354.539 | 0.54 | 0.50 | 11.99 | |
| 2436.00 | 1.130 | 142.950 | 2435.75 | 5.75 | 6.35 | 0.18 | 1695138.34 | 14279405.93 | 39°19'20.893"N | 80°48'23.418"W | 6.35 | 1.638 | 0.24 | -0.03 | -11.70 | |
| 2524.00 | 0.990 | 133.950 | 2523.73 | 4.20 | 5.13 | 1.25 | 1695139.41 | 14279404.71 | 39°19'20.881"N | 80°48'23.404"W | 5.28 | 13.712 | 0.25 | -0.16 | -10.23 | |



Actual Wellpath Report

Goldsmith Unit 2H AWP Proj: 15769'

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REFERENCE WELLPATH IDENTIFICATION

| | | | |
|----------|------------------------------|----------|-----------------------|
| Operator | ANTERO RESOURCES CORPORATION | Slot | Slot #06 |
| Area | Doddridge Co., WV | Well | Goldsmith Unit 2H |
| Field | Doddridge | Wellbore | Goldsmith Unit 2H AWB |
| Facility | Middle Pad | | |

WELLPATH DATA (194 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 |
|---------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|----------------|----------------|-------------------|-----------------|---------------|----------------------|---------------------|------------------------------------------------|
| 2548.00 | 0.900 | 122.490 | 2547.73 | 3.85 | 4.88 | 1.56 | 1695139.72 | 14279404.47 | 39°19'20.878"N | 80°48'23.400"W | 5.13 | 17.711 | 0.87 | -0.37 | -47.75 | |
| 2667.00 | 0.520 | 83.180 | 2666.72 | 2.92 | 4.45 | 2.88 | 1695141.05 | 14279404.03 | 39°19'20.874"N | 80°48'23.383"W | 5.30 | 32.969 | 0.50 | -0.32 | -33.03 | Directional ONE MWD <8-3/4"> (2531)(2650-6356) |
| 2755.00 | 3.090 | 152.950 | 2754.68 | 0.44 | 2.38 | 4.36 | 1695142.52 | 14279401.97 | 39°19'20.853"N | 80°48'23.364"W | 4.97 | 61.354 | 3.35 | 2.92 | 79.28 | |
| 2844.00 | 3.610 | 132.530 | 2843.53 | -4.52 | -1.65 | 7.52 | 1695145.68 | 14279397.94 | 39°19'20.814"N | 80°48'23.324"W | 7.69 | 102.375 | 1.45 | 0.58 | -22.94 | |
| 2932.00 | 6.590 | 115.260 | 2931.17 | -10.85 | -5.68 | 14.13 | 1695152.28 | 14279393.91 | 39°19'20.774"N | 80°48'23.240"W | 15.22 | 111.897 | 3.77 | 3.39 | -19.63 | |
| 3020.00 | 9.310 | 117.050 | 3018.32 | -20.16 | -11.07 | 25.03 | 1695163.19 | 14279388.52 | 39°19'20.720"N | 80°48'23.102"W | 27.37 | 113.856 | 3.10 | 3.09 | 2.03 | |
| 3109.00 | 9.000 | 116.340 | 3106.19 | -31.05 | -17.43 | 37.68 | 1695175.83 | 14279382.16 | 39°19'20.657"N | 80°48'22.941"W | 41.52 | 114.826 | 0.37 | -0.35 | -0.80 | |
| 3197.00 | 10.170 | 118.920 | 3192.96 | -42.48 | -24.24 | 50.65 | 1695188.80 | 14279375.35 | 39°19'20.589"N | 80°48'22.776"W | 56.16 | 115.577 | 1.42 | 1.33 | 2.93 | |
| 3285.00 | 12.290 | 120.440 | 3279.27 | -56.23 | -32.75 | 65.53 | 1695203.67 | 14279366.85 | 39°19'20.505"N | 80°48'22.587"W | 73.26 | 116.553 | 2.43 | 2.41 | 1.73 | |
| 3374.00 | 12.250 | 126.840 | 3366.24 | -72.10 | -43.21 | 81.25 | 1695219.38 | 14279356.39 | 39°19'20.401"N | 80°48'22.387"W | 92.03 | 118.003 | 1.53 | -0.04 | 7.19 | |
| 3462.00 | 11.710 | 124.830 | 3452.32 | -87.83 | -53.91 | 96.06 | 1695234.18 | 14279345.70 | 39°19'20.295"N | 80°48'22.199"W | 110.15 | 119.301 | 0.78 | -0.61 | -2.28 | |
| 3550.00 | 11.020 | 120.250 | 3538.60 | -102.23 | -63.24 | 110.65 | 1695248.77 | 14279336.37 | 39°19'20.203"N | 80°48'22.014"W | 127.45 | 119.750 | 1.29 | -0.78 | -5.20 | |
| 3638.00 | 10.730 | 120.200 | 3625.02 | -115.63 | -71.60 | 125.00 | 1695263.11 | 14279328.01 | 39°19'20.120"N | 80°48'21.831"W | 144.05 | 119.805 | 0.33 | -0.33 | -0.06 | |
| 3726.00 | 11.940 | 123.710 | 3711.30 | -129.90 | -80.78 | 139.65 | 1695277.76 | 14279318.84 | 39°19'20.029"N | 80°48'21.645"W | 161.33 | 120.045 | 1.58 | 1.37 | 3.99 | |
| 3815.00 | 13.150 | 129.230 | 3798.18 | -146.85 | -92.29 | 155.15 | 1695293.25 | 14279307.33 | 39°19'19.915"N | 80°48'21.448"W | 180.53 | 120.745 | 1.91 | 1.36 | 6.20 | |
| 3903.00 | 13.090 | 130.090 | 3883.88 | -164.48 | -105.04 | 170.53 | 1695308.63 | 14279294.59 | 39°19'19.788"N | 80°48'21.253"W | 200.28 | 121.631 | 0.23 | -0.07 | 0.98 | |
| 3990.00 | 12.550 | 125.750 | 3968.71 | -181.44 | -116.90 | 185.74 | 1695323.83 | 14279282.73 | 39°19'19.671"N | 80°48'21.060"W | 219.47 | 122.186 | 1.27 | -0.62 | -4.99 | |
| 4078.00 | 12.490 | 123.840 | 4054.62 | -197.69 | -127.79 | 201.40 | 1695339.49 | 14279271.85 | 39°19'19.563"N | 80°48'20.861"W | 238.52 | 122.395 | 0.48 | -0.07 | -2.17 | |
| 4167.00 | 13.040 | 129.080 | 4141.42 | -214.72 | -139.48 | 217.19 | 1695355.27 | 14279260.16 | 39°19'19.447"N | 80°48'20.660"W | 258.12 | 122.708 | 1.44 | 0.62 | 5.89 | |
| 4255.00 | 13.040 | 126.660 | 4227.15 | -232.15 | -151.66 | 232.86 | 1695370.93 | 14279247.98 | 39°19'19.326"N | 80°48'20.461"W | 277.90 | 123.076 | 0.62 | 0.00 | -2.75 | |
| 4343.00 | 13.410 | 123.650 | 4312.82 | -249.35 | -163.25 | 249.32 | 1695387.38 | 14279236.40 | 39°19'19.211"N | 80°48'20.252"W | 298.01 | 123.215 | 0.89 | 0.42 | -3.42 | |
| 4431.00 | 13.790 | 120.470 | 4398.35 | -266.42 | -174.22 | 266.85 | 1695404.91 | 14279225.44 | 39°19'19.102"N | 80°48'20.029"W | 318.69 | 123.139 | 0.95 | 0.43 | -3.61 | |
| 4520.00 | 11.450 | 119.700 | 4485.20 | -282.09 | -183.98 | 283.67 | 1695421.72 | 14279215.68 | 39°19'19.006"N | 80°48'19.815"W | 338.11 | 122.965 | 2.64 | -2.63 | -0.87 | |
| 4608.00 | 11.150 | 119.500 | 4571.49 | -295.90 | -192.49 | 298.67 | 1695436.71 | 14279207.17 | 39°19'18.921"N | 80°48'19.625"W | 355.32 | 122.802 | 0.34 | -0.34 | -0.23 | |
| 4696.00 | 11.510 | 118.080 | 4657.78 | -309.79 | -200.82 | 313.82 | 1695451.86 | 14279198.85 | 39°19'18.839"N | 80°48'19.432"W | 372.57 | 122.616 | 0.52 | 0.41 | -1.61 | |
| 4784.00 | 11.560 | 122.530 | 4744.00 | -328.79 | -209.69 | 329.00 | 1695467.03 | 14279189.98 | 39°19'18.751"N | 80°48'19.239"W | 390.14 | 122.512 | 1.01 | 0.06 | 5.06 | |
| 4873.00 | 10.120 | 126.200 | 4831.41 | -337.95 | -219.10 | 342.83 | 1695480.85 | 14279180.57 | 39°19'18.657"N | 80°48'19.064"W | 406.86 | 122.583 | 1.79 | -1.62 | 4.12 | |
| 4961.00 | 8.390 | 131.300 | 4918.27 | -350.45 | -227.91 | 353.89 | 1695491.91 | 14279171.77 | 39°19'18.570"N | 80°48'18.923"W | 420.93 | 122.782 | 2.17 | -1.97 | 5.80 | |
| 5049.00 | 9.100 | 129.700 | 5005.24 | -362.47 | -236.59 | 364.07 | 1695502.09 | 14279163.00 | 39°19'18.484"N | 80°48'18.794"W | 434.19 | 123.018 | 0.85 | 0.81 | -1.82 | |
| 5138.00 | 9.230 | 129.890 | 5093.11 | -375.15 | -245.66 | 374.96 | 1695512.97 | 14279154.02 | 39°19'18.394"N | 80°48'18.656"W | 448.27 | 123.232 | 0.15 | 0.15 | 0.21 | |



Actual Wellpath Report

Goldsmith Unit 2H AWP Proj: 15769'

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REFERENCE WELLPATH IDENTIFICATION

| | | | |
|----------|------------------------------|----------|-----------------------|
| Operator | ANTERO RESOURCES CORPORATION | Slot | Slot #06 |
| Area | Doddridge Co., WV | Well | Goldsmith Unit 2H |
| Field | Doddridge | Wellbore | Goldsmith Unit 2H AWB |
| Facility | Middle Pad | | |

WELLPATH DATA (194 stations) † = interpolated/extrapolated station

| MD (ft) | Inclination (°) | Azimuth (°) | TVD (ft) | Vert Sect (ft) | North (ft) | East (ft) | Grid East (ft) | Grid North (ft) | Latitude | Longitude | Closure Dist (ft) | Closure Dir (°) | DLS (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) | Comments |
|----------|-----------------|-------------|----------|----------------|------------|-----------|----------------|-----------------|----------------|----------------|-------------------|-----------------|---------------|----------------------|---------------------|----------------------------------------|
| 5226.00 | 9.240 | 130.170 | 5179.96 | -387.80 | -254.75 | 385.77 | 1695523.78 | 14279144.94 | 39°19'18.304"N | 80°48'18.518"W | 462.30 | 123.439 | 0.05 | 0.01 | 0.32 | |
| 5314.00 | 11.870 | 134.730 | 5266.47 | -402.55 | -265.68 | 397.60 | 1695535.61 | 14279134.01 | 39°19'18.196"N | 80°48'18.368"W | 478.20 | 123.751 | 3.13 | 2.99 | 5.18 | |
| 5402.00 | 12.830 | 127.190 | 5352.44 | -419.48 | -277.95 | 411.82 | 1695549.82 | 14279121.74 | 39°19'18.074"N | 80°48'18.187"W | 496.84 | 124.017 | 2.13 | 1.09 | -8.57 | |
| 5491.00 | 12.240 | 125.220 | 5439.32 | -436.18 | -289.37 | 427.40 | 1695565.39 | 14279110.33 | 39°19'17.961"N | 80°48'17.990"W | 516.14 | 124.100 | 0.82 | -0.66 | -2.21 | |
| 5579.00 | 9.530 | 122.620 | 5525.73 | -450.21 | -298.68 | 441.16 | 1695579.14 | 14279101.03 | 39°19'17.869"N | 80°48'17.815"W | 532.75 | 124.099 | 3.13 | -3.08 | -2.95 | |
| 5623.00 | 10.010 | 116.290 | 5569.09 | -456.16 | -302.33 | 447.65 | 1695585.64 | 14279097.37 | 39°19'17.832"N | 80°48'17.732"W | 540.18 | 124.034 | 2.67 | 1.09 | -14.39 | |
| 5667.00 | 10.870 | 98.670 | 5612.37 | -461.30 | -304.65 | 455.19 | 1695593.17 | 14279095.81 | 39°19'17.809"N | 80°48'17.636"W | 547.73 | 123.794 | 7.48 | 1.95 | -40.05 | |
| 5712.00 | 11.700 | 85.020 | 5656.51 | -465.02 | -304.90 | 463.93 | 1695601.91 | 14279094.81 | 39°19'17.807"N | 80°48'17.525"W | 555.15 | 123.313 | 6.20 | 1.84 | -30.33 | |
| 5756.00 | 11.190 | 70.650 | 5699.64 | -466.76 | -303.09 | 472.40 | 1695610.38 | 14279096.61 | 39°19'17.824"N | 80°48'17.417"W | 561.28 | 122.684 | 6.57 | -1.16 | -32.66 | |
| 5800.00 | 9.970 | 55.170 | 5742.90 | -466.33 | -299.50 | 479.56 | 1695617.53 | 14279100.20 | 39°19'17.860"N | 80°48'17.326"W | 565.40 | 121.986 | 7.00 | -2.77 | -35.16 | |
| 5844.00 | 12.210 | 43.650 | 5786.08 | -463.79 | -293.96 | 485.90 | 1695623.87 | 14279105.74 | 39°19'17.914"N | 80°48'17.245"W | 567.90 | 121.173 | 7.14 | 5.09 | -26.18 | |
| 5888.00 | 15.770 | 38.310 | 5828.77 | -459.17 | -285.90 | 492.82 | 1695630.79 | 14279113.80 | 39°19'17.994"N | 80°48'17.157"W | 569.74 | 120.119 | 8.60 | 8.09 | -12.14 | |
| 5932.00 | 17.170 | 28.870 | 5870.97 | -452.39 | -275.52 | 499.66 | 1695637.63 | 14279124.18 | 39°19'18.096"N | 80°48'17.070"W | 570.59 | 118.873 | 6.85 | 3.18 | -21.45 | |
| 5976.00 | 19.250 | 19.760 | 5912.78 | -443.16 | -263.00 | 505.25 | 1695643.21 | 14279136.69 | 39°19'18.220"N | 80°48'16.998"W | 569.60 | 117.498 | 8.00 | 4.73 | -20.70 | |
| 6020.00 | 22.130 | 14.440 | 5953.94 | -431.35 | -248.14 | 509.77 | 1695647.73 | 14279151.54 | 39°19'18.367"N | 80°48'16.940"W | 566.96 | 115.956 | 7.81 | 6.55 | -12.09 | |
| 6064.00 | 25.260 | 9.230 | 5994.23 | -416.92 | -230.85 | 513.35 | 1695651.30 | 14279168.83 | 39°19'18.537"N | 80°48'16.894"W | 562.86 | 114.213 | 8.55 | 7.11 | -11.84 | |
| 6108.00 | 28.590 | 4.910 | 6034.35 | -399.38 | -210.63 | 515.81 | 1695653.77 | 14279189.04 | 39°19'18.737"N | 80°48'16.862"W | 557.16 | 112.213 | 8.58 | 7.40 | -9.60 | |
| 6153.00 | 31.230 | 369.920 | 6072.49 | -379.86 | -188.73 | 516.69 | 1695654.65 | 14279210.93 | 39°19'19.954"N | 80°48'16.851"W | 550.08 | 110.065 | 8.24 | 6.00 | -11.34 | |
| 6197.00 | 32.900 | 356.160 | 6109.78 | -357.95 | -165.40 | 515.88 | 1695663.84 | 14279234.25 | 39°19'19.184"N | 80°48'16.860"W | 541.74 | 107.776 | 5.91 | 3.80 | -8.55 | |
| 6241.00 | 35.330 | 365.260 | 6146.21 | -334.52 | -140.83 | 513.58 | 1695651.54 | 14279258.81 | 39°19'19.427"N | 80°48'16.889"W | 532.54 | 105.335 | 6.64 | 5.52 | -6.59 | |
| 6285.00 | 38.700 | 351.960 | 6181.34 | -309.09 | -114.57 | 510.17 | 1695648.13 | 14279285.06 | 39°19'19.687"N | 80°48'16.932"W | 522.87 | 102.657 | 7.86 | 7.66 | -2.95 | |
| 6329.00 | 42.520 | 351.290 | 6214.73 | -281.45 | -86.24 | 505.99 | 1695643.95 | 14279313.38 | 39°19'19.967"N | 80°48'16.984"W | 513.29 | 99.673 | 8.74 | 8.68 | -1.52 | |
| 6373.00 | 46.730 | 350.430 | 6246.04 | -251.53 | -55.74 | 501.07 | 1695639.04 | 14279343.87 | 39°19'20.268"N | 80°48'17.046"W | 504.16 | 96.347 | 9.67 | 9.57 | -1.95 | |
| 6410.00 | 49.830 | 350.140 | 6270.66 | -224.72 | -28.52 | 496.41 | 1695634.38 | 14279371.08 | 39°19'20.538"N | 80°48'17.104"W | 497.23 | 93.288 | 8.40 | 8.38 | -0.78 | BH/AT Curve <8-1/2">(6373)(6410-15745) |
| 6457.00 | 54.820 | 346.720 | 6299.39 | -188.34 | 7.90 | 488.92 | 1695626.89 | 14279407.48 | 39°19'20.898"N | 80°48'17.199"W | 488.98 | 89.075 | 12.08 | 10.62 | -7.28 | |
| 6490.00† | 58.040 | 343.464 | 6317.63 | -161.17 | 34.45 | 481.83 | 1695619.80 | 14279434.03 | 39°19'21.160"N | 80°48'17.288"W | 483.06 | 85.910 | 12.76 | 9.76 | -9.87 | Burket: 6490MD / 6318TVD |
| 6505.00 | 59.530 | 342.060 | 6325.41 | -148.42 | 46.70 | 478.03 | 1695616.00 | 14279446.27 | 39°19'21.281"N | 80°48'17.336"W | 480.31 | 84.420 | 12.76 | 9.93 | -9.36 | |
| 6551.00† | 64.042 | 340.434 | 6347.15 | -108.04 | 85.07 | 464.99 | 1695602.97 | 14279484.62 | 39°19'21.661"N | 80°48'17.501"W | 472.71 | 79.632 | 10.29 | 9.81 | -3.54 | Tully: 6551MD / 6347TVD |
| 6552.00 | 64.140 | 340.400 | 6347.59 | -107.14 | 85.92 | 464.69 | 1695602.67 | 14279485.47 | 39°19'21.669"N | 80°48'17.505"W | 472.57 | 79.524 | 10.29 | 9.83 | -3.39 | |
| 6600.00 | 68.840 | 337.570 | 6366.73 | -63.19 | 126.98 | 448.89 | 1695586.88 | 14279526.52 | 39°19'22.076"N | 80°48'17.705"W | 466.51 | 74.205 | 11.18 | 9.79 | -5.90 | |



Actual Wellpath Report

Goldsmith Unit 2H AWP Proj: 15769'

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REFERENCE WELLPATH IDENTIFICATION

| | | | |
|----------|------------------------------|----------|-----------------------|
| Operator | ANTERO RESOURCES CORPORATION | Slot | Slot #06 |
| Area | Doddridge Co., WV | Well | Goldsmith Unit 2H |
| Field | Doddridge | Wellbore | Goldsmith Unit 2H AWB |
| Facility | Middle Pad | | |

WELLPATH DATA (194 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 |
|----------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|----------------|----------------|-------------------|-----------------|---------------|----------------------|---------------------|----------------------------------|
| 6636.00† | 72.378 | 336.483 | 6378.68 | -29.24 | 158.24 | 435.64 | 1695573.63 | 14279557.76 | 39°19'22.385"N | 80°48'17.872"W | 463.49 | 70.037 | 10.23 | 9.84 | -3.02 | Hamilton: 6636MD / 6379 TVD |
| 6647.00 | 73.460 | 336.160 | 6381.92 | -18.72 | 167.87 | 431.42 | 1695569.41 | 14279567.39 | 39°19'22.480"N | 80°48'17.926"W | 462.92 | 68.738 | 10.23 | 9.84 | -2.94 | |
| 6667.00† | 73.981 | 336.377 | 6387.52 | 0.47 | 185.45 | 423.69 | 1695561.68 | 14279584.96 | 39°19'22.654"N | 80°48'18.024"W | 462.50 | 66.361 | 2.80 | 2.60 | 1.09 | POE Marcellus: 6667MD / 6388 TVD |
| 6695.00 | 74.710 | 336.680 | 6395.08 | 27.43 | 210.18 | 412.95 | 1695550.95 | 14279609.68 | 39°19'22.899"N | 80°48'18.160"W | 463.36 | 63.026 | 2.80 | 2.60 | 1.08 | |
| 6742.00 | 76.960 | 337.910 | 6406.58 | 73.00 | 292.21 | 395.36 | 1695533.37 | 14279661.70 | 39°19'23.314"N | 80°48'18.382"W | 468.96 | 57.465 | 5.42 | 4.78 | 2.62 | |
| 6789.00 | 79.600 | 339.170 | 6416.12 | 118.98 | 295.04 | 378.53 | 1695516.54 | 14279694.51 | 39°19'23.738"N | 80°48'18.595"W | 479.93 | 52.066 | 6.20 | 5.62 | 2.68 | |
| 6836.00 | 82.760 | 337.710 | 6423.33 | 165.39 | 338.22 | 361.47 | 1695499.48 | 14279737.68 | 39°19'24.165"N | 80°48'18.811"W | 495.03 | 46.902 | 7.37 | 6.70 | -3.11 | |
| 6884.00 | 85.590 | 338.270 | 6428.21 | 213.12 | 382.49 | 343.57 | 1695481.60 | 14279781.92 | 39°19'24.603"N | 80°48'19.038"W | 514.14 | 41.932 | 6.03 | 5.92 | -1.17 | |
| 6931.00 | 89.480 | 337.400 | 6430.23 | 260.05 | 425.97 | 325.86 | 1695463.89 | 14279825.38 | 39°19'25.033"N | 80°48'19.262"W | 536.32 | 37.415 | 8.48 | 8.28 | -1.85 | |
| 6979.00 | 90.120 | 334.500 | 6430.40 | 308.04 | 469.80 | 306.30 | 1695444.34 | 14279869.20 | 39°19'25.467"N | 80°48'19.510"W | 560.83 | 33.104 | 6.19 | 1.33 | -6.04 | |
| 7074.00 | 90.030 | 333.300 | 6430.27 | 402.95 | 555.11 | 284.51 | 1695402.56 | 14279954.47 | 39°19'26.311"N | 80°48'20.039"W | 614.91 | 25.478 | 1.27 | -0.09 | -1.26 | |
| 7169.00 | 90.060 | 331.990 | 6430.20 | 497.74 | 639.48 | 220.86 | 1695358.93 | 14280038.81 | 39°19'27.146"N | 80°48'20.592"W | 676.55 | 19.053 | 1.38 | 0.03 | -1.38 | |
| 7264.00 | 89.970 | 337.650 | 6430.18 | 592.66 | 725.42 | 180.45 | 1695318.54 | 14280124.72 | 39°19'27.996"N | 80°48'21.104"W | 747.53 | 13.969 | 5.96 | -0.09 | 5.96 | |
| 7359.00 | 90.120 | 339.780 | 6430.10 | 687.58 | 813.94 | 145.97 | 1695284.07 | 14280213.20 | 39°19'28.872"N | 80°48'21.540"W | 826.92 | 10.167 | 2.25 | 0.16 | 2.24 | |
| 7454.00 | 90.150 | 339.520 | 6429.88 | 782.43 | 903.01 | 112.93 | 1695251.05 | 14280302.23 | 39°19'29.753"N | 80°48'21.988"W | 910.04 | 7.129 | 2.25 | 0.03 | -0.27 | |
| 7549.00 | 90.120 | 336.920 | 6429.65 | 877.38 | 991.22 | 77.69 | 1695215.82 | 14280390.41 | 39°19'30.625"N | 80°48'22.404"W | 994.26 | 4.481 | 2.74 | -0.03 | -2.74 | |
| 7644.00 | 90.060 | 332.810 | 6429.50 | 972.32 | 1077.20 | 37.34 | 1695175.49 | 14280476.36 | 39°19'31.476"N | 80°48'22.915"W | 1077.85 | 1.985 | 4.33 | -0.06 | -4.33 | |
| 7739.00 | 90.120 | 331.330 | 6429.35 | 1067.04 | 1161.13 | -7.15 | 1695131.01 | 14280560.26 | 39°19'32.306"N | 80°48'23.479"W | 1161.16 | 359.647 | 1.56 | 0.06 | -1.56 | |
| 7834.00 | 90.000 | 327.910 | 6429.25 | 1161.36 | 1243.08 | -55.19 | 1695083.00 | 14280642.17 | 39°19'33.117"N | 80°48'24.088"W | 1244.30 | 357.458 | 3.60 | -0.13 | -3.60 | |
| 7929.00 | 90.030 | 327.800 | 6429.23 | 1255.30 | 1323.51 | -105.74 | 1695032.47 | 14280722.57 | 39°19'33.913"N | 80°48'24.729"W | 1327.73 | 355.432 | 0.12 | 0.03 | -0.12 | |
| 8024.00 | 90.710 | 328.730 | 6428.62 | 1349.34 | 1404.31 | -155.70 | 1694982.52 | 14280803.33 | 39°19'34.713"N | 80°48'25.363"W | 1412.91 | 353.673 | 1.21 | 0.72 | 0.98 | |
| 8119.00 | 89.720 | 329.080 | 6428.26 | 1443.52 | 1485.66 | -204.77 | 1694933.48 | 14280884.65 | 39°19'35.518"N | 80°48'25.985"W | 1499.70 | 352.152 | 1.11 | -1.04 | 0.37 | |
| 8214.00 | 90.030 | 334.370 | 6428.47 | 1538.17 | 1569.29 | -249.75 | 1694888.51 | 14280966.25 | 39°19'36.346"N | 80°48'26.555"W | 1589.04 | 350.957 | 5.58 | 0.33 | 5.57 | |
| 8309.00 | 90.890 | 336.090 | 6427.70 | 1633.14 | 1655.54 | -289.55 | 1694848.73 | 14281054.47 | 39°19'37.199"N | 80°48'27.060"W | 1680.67 | 350.079 | 2.02 | 0.91 | 1.81 | |
| 8404.00 | 91.110 | 336.150 | 6426.05 | 1728.12 | 1742.40 | -328.00 | 1694810.29 | 14281141.29 | 39°19'38.058"N | 80°48'27.546"W | 1773.00 | 349.339 | 0.24 | 0.23 | 0.06 | |
| 8500.00 | 91.260 | 334.150 | 6424.06 | 1824.07 | 1829.49 | -368.34 | 1694769.97 | 14281228.34 | 39°19'38.920"N | 80°48'28.057"W | 1866.20 | 348.617 | 2.09 | 0.16 | -2.08 | |
| 8594.00 | 89.820 | 339.280 | 6423.17 | 1918.03 | 1915.80 | -405.48 | 1694732.85 | 14281314.62 | 39°19'39.774"N | 80°48'28.528"W | 1958.24 | 348.050 | 5.67 | -1.53 | 5.46 | |
| 8689.00 | 89.970 | 338.380 | 6423.35 | 2012.95 | 2004.38 | -439.79 | 1694698.55 | 14281403.17 | 39°19'40.650"N | 80°48'28.962"W | 2052.06 | 347.625 | 0.96 | 0.16 | -0.95 | |
| 8784.00 | 89.850 | 333.970 | 6423.50 | 2107.92 | 2091.27 | -478.15 | 1694660.20 | 14281490.02 | 39°19'41.509"N | 80°48'29.448"W | 2145.23 | 347.121 | 4.64 | -0.13 | -4.64 | |
| 8879.00 | 89.110 | 333.590 | 6424.36 | 2202.82 | 2176.49 | -520.12 | 1694618.25 | 14281575.20 | 39°19'42.353"N | 80°48'29.980"W | 2237.77 | 346.560 | 0.88 | -0.78 | -0.40 | |



Actual Wellpath Report

Goldsmith Unit 2H AWP Proj: 15769'
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| REFERENCE WELLPATH IDENTIFICATION | | Slot | Slot #06 |
|-----------------------------------|------------------------------|----------|-----------------------|
| Operator | ANTERO RESOURCES CORPORATION | Well | Goldsmith Unit 2H |
| Area | Doddridge Co., WV | Wellbore | Goldsmith Unit 2H AWB |
| Field | Doddridge | | |
| Facility | Middle Pad | | |

| WELLPATH DATA (194 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 |
| 8974.00 | 89.570 | 340.350 | 6425.46 | 2297.75 | 2263.86 | -557.26 | 1694581.12 | 14281662.54 | 39°19'43.217"N | 80°48'30.450"W | 2331.44 | 346.171 | 7.13 | 0.48 | 0.48 | 7.12 |
| 9069.00 | 90.740 | 348.720 | 6425.20 | 2391.72 | 2355.34 | -582.57 | 1694555.82 | 14281753.98 | 39°19'44.122"N | 80°48'30.769"W | 2428.31 | 346.107 | 8.90 | 1.23 | 1.23 | 8.81 |
| 9165.00 | 90.280 | 347.530 | 6424.34 | 2485.71 | 2449.28 | -602.33 | 1694536.08 | 14281847.88 | 39°19'45.050"N | 80°48'31.018"W | 2522.25 | 346.184 | 1.33 | -0.48 | -1.24 | -1.24 |
| 9259.00 | 90.180 | 343.790 | 6423.97 | 2578.48 | 2540.33 | -625.60 | 1694512.81 | 14281938.90 | 39°19'45.951"N | 80°48'31.312"W | 2616.23 | 346.165 | 3.98 | -0.11 | -3.98 | -3.98 |
| 9354.00 | 89.970 | 343.450 | 6423.84 | 2672.73 | 2631.47 | -652.39 | 1694486.03 | 14282030.01 | 39°19'46.852"N | 80°48'31.651"W | 2711.14 | 346.076 | 0.42 | -0.22 | -0.36 | -0.36 |
| 9449.00 | 89.880 | 345.570 | 6423.97 | 2766.78 | 2723.02 | -677.76 | 1694460.67 | 14282121.52 | 39°19'47.738"N | 80°48'31.971"W | 2806.10 | 346.023 | 2.23 | -0.09 | 2.23 | 2.23 |
| 9544.00 | 90.710 | 344.900 | 6423.48 | 2860.65 | 2814.88 | -701.97 | 1694436.47 | 14282213.34 | 39°19'48.666"N | 80°48'32.277"W | 2901.09 | 345.997 | 1.12 | 0.87 | 0.87 | -0.71 |
| 9639.00 | 89.850 | 334.110 | 6423.01 | 2955.37 | 2903.73 | -735.19 | 1694403.27 | 14282302.16 | 39°19'49.545"N | 80°48'32.597"W | 2995.36 | 345.792 | 11.39 | -0.91 | -11.36 | -11.36 |
| 9734.00 | 89.200 | 333.120 | 6423.80 | 3050.25 | 2988.83 | -777.40 | 1694361.07 | 14282387.22 | 39°19'50.387"N | 80°48'33.232"W | 3088.28 | 345.420 | 1.25 | -0.68 | -1.04 | -1.04 |
| 9830.00 | 89.750 | 338.550 | 6424.68 | 3146.21 | 3076.38 | -816.68 | 1694321.80 | 14282474.74 | 39°19'51.253"N | 80°48'33.729"W | 3182.94 | 345.133 | 5.68 | 0.57 | 5.66 | 5.66 |
| 9925.00 | 89.820 | 336.480 | 6425.04 | 3241.19 | 3164.15 | -853.01 | 1694285.49 | 14282562.48 | 39°19'52.121"N | 80°48'34.189"W | 3277.12 | 344.912 | 2.18 | 0.07 | -2.18 | -2.18 |
| 10020.00 | 89.720 | 331.730 | 6425.42 | 3336.08 | 3249.59 | -894.49 | 1694244.03 | 14282647.88 | 39°19'52.967"N | 80°48'34.715"W | 3370.45 | 344.610 | 5.00 | -0.11 | -5.00 | -5.00 |
| 10115.00 | 89.600 | 329.930 | 6425.98 | 3430.62 | 3332.54 | -940.79 | 1694197.75 | 14282730.79 | 39°19'53.787"N | 80°48'35.302"W | 3462.79 | 344.235 | 1.90 | -0.13 | -1.89 | -1.89 |
| 10210.00 | 89.660 | 329.470 | 6426.59 | 3524.97 | 3414.56 | -988.72 | 1694149.84 | 14282812.78 | 39°19'54.599"N | 80°48'35.910"W | 3554.82 | 343.851 | 0.49 | 0.06 | -0.48 | -0.48 |
| 10305.00 | 89.720 | 332.090 | 6427.16 | 3619.50 | 3497.46 | -1035.09 | 1694103.48 | 14282895.65 | 39°19'55.419"N | 80°48'36.497"W | 3647.42 | 343.514 | 2.76 | 0.00 | 2.76 | 2.76 |
| 10400.00 | 89.850 | 337.040 | 6430.69 | 3714.23 | 3581.43 | -1079.51 | 1694059.08 | 14282979.59 | 39°19'56.250"N | 80°48'37.061"W | 3740.59 | 343.226 | 0.09 | 0.06 | 0.06 | 0.06 |
| 10495.00 | 89.690 | 332.450 | 6428.16 | 3808.98 | 3665.54 | -1123.67 | 1694014.94 | 14283063.67 | 39°19'57.082"N | 80°48'37.620"W | 3833.91 | 342.957 | 0.32 | -0.03 | 0.32 | 0.32 |
| 10591.00 | 89.970 | 334.580 | 6428.45 | 3904.85 | 3751.46 | -1166.48 | 1693972.14 | 14283149.55 | 39°19'57.933"N | 80°48'38.163"W | 3928.63 | 342.727 | 2.24 | 0.29 | 2.22 | 2.22 |
| 10686.00 | 89.320 | 339.460 | 6429.04 | 3999.82 | 3838.90 | -1203.56 | 1693935.08 | 14283236.95 | 39°19'58.797"N | 80°48'38.632"W | 4023.14 | 342.593 | 5.18 | -0.68 | 5.14 | 5.14 |
| 10781.00 | 89.420 | 339.270 | 6430.08 | 4094.69 | 3927.80 | -1237.04 | 1693901.62 | 14283325.82 | 39°19'59.677"N | 80°48'39.056"W | 4117.99 | 342.518 | 0.23 | 0.11 | -0.20 | -0.20 |
| 10876.00 | 89.850 | 337.040 | 6430.69 | 4189.63 | 4015.97 | -1272.38 | 1693866.29 | 14283413.95 | 39°20'00.549"N | 80°48'39.503"W | 4212.71 | 342.420 | 2.39 | 0.45 | -2.35 | -2.35 |
| 10971.00 | 90.030 | 331.700 | 6430.78 | 4284.54 | 4101.59 | -1313.46 | 1693825.22 | 14283499.54 | 39°20'01.396"N | 80°48'40.024"W | 4306.76 | 342.243 | 5.62 | 0.19 | -5.62 | -5.62 |
| 11066.00 | 89.600 | 333.220 | 6431.09 | 4379.31 | 4185.82 | -1357.39 | 1693781.32 | 14283583.74 | 39°20'02.229"N | 80°48'40.581"W | 4400.41 | 342.033 | 1.66 | -0.45 | 1.60 | 1.60 |
| 11161.00 | 90.430 | 336.800 | 6431.07 | 4474.26 | 4271.91 | -1397.51 | 1693741.21 | 14283669.79 | 39°20'03.081"N | 80°48'41.089"W | 4494.69 | 341.885 | 3.87 | 0.87 | 3.77 | 3.77 |
| 11256.00 | 90.340 | 337.760 | 6430.43 | 4569.25 | 4359.54 | -1434.20 | 1693704.53 | 14283757.38 | 39°20'03.948"N | 80°48'41.554"W | 4589.39 | 341.790 | 1.01 | -0.09 | 1.01 | 1.01 |
| 11351.00 | 90.060 | 331.330 | 6430.10 | 4664.15 | 4445.27 | -1475.01 | 1693663.74 | 14283843.08 | 39°20'04.796"N | 80°48'42.071"W | 4683.60 | 341.643 | 6.77 | -0.29 | -6.77 | -6.77 |
| 11445.00 | 89.510 | 326.450 | 6430.45 | 4757.31 | 4525.72 | -1523.57 | 1693615.20 | 14283923.51 | 39°20'05.592"N | 80°48'42.587"W | 4775.29 | 341.394 | 5.22 | -0.53 | -5.19 | -5.19 |
| 11540.00 | 88.030 | 329.790 | 6432.49 | 4851.28 | 4606.36 | -1573.72 | 1693565.07 | 14284004.11 | 39°20'06.390"N | 80°48'43.323"W | 4867.77 | 341.138 | 3.84 | -1.56 | 3.52 | 3.52 |
| 11634.00 | 90.430 | 337.530 | 6433.75 | 4945.08 | 4690.53 | -1615.39 | 1693523.42 | 14284088.24 | 39°20'07.223"N | 80°48'43.851"W | 4960.90 | 340.997 | 8.62 | 2.55 | 8.23 | 8.23 |
| 11728.00 | 90.860 | 339.340 | 6432.70 | 5039.01 | 4777.94 | -1649.93 | 1693488.89 | 14284175.62 | 39°20'08.088"N | 80°48'44.288"W | 5054.80 | 340.949 | 1.98 | 0.46 | 1.93 | 1.93 |



Actual Wellpath Report

Goldsmith Unit 2H AWP Proj: 15769'

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REFERENCE WELLPATH IDENTIFICATION

| | | | |
|----------|------------------------------|----------|-----------------------|
| Operator | ANTERO RESOURCES CORPORATION | Slot | Slot #06 |
| Area | Doddridge Co., WV | Well | Goldsmith Unit 2H |
| Field | Doddridge | Wellbore | Goldsmith Unit 2H AWB |
| Facility | Middle Pad | | |

WELLPATH DATA (194 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 |
|----------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|----------------|----------------|-------------------|-----------------|---------------|----------------------|---------------------|----------|
| 11821.00 | 90.800 | 343.360 | 6431.35 | 5131.64 | 4866.03 | -1679.66 | 1693459.17 | 14284263.67 | 39°20'08.959"N | 80°48'44.664"W | 5147.76 | 340.956 | 4.32 | -0.06 | 4.32 | |
| 11915.00 | 90.090 | 340.250 | 6430.82 | 5225.21 | 4955.31 | -1709.01 | 1693429.83 | 14284352.92 | 39°20'09.842"N | 80°48'45.035"W | 5241.74 | 340.971 | 3.39 | -0.76 | -3.31 | |
| 12008.00 | 90.980 | 336.650 | 6429.75 | 5318.13 | 5041.79 | -1743.16 | 1693395.69 | 14284439.37 | 39°20'10.698"N | 80°48'45.468"W | 5334.63 | 340.928 | 3.99 | 0.96 | -3.87 | |
| 12102.00 | 90.580 | 335.610 | 6428.47 | 5412.12 | 5127.74 | -1781.20 | 1693357.67 | 14284525.28 | 39°20'11.548"N | 80°48'45.950"W | 5428.30 | 340.845 | 1.19 | -0.43 | -1.11 | |
| 12196.00 | 90.620 | 335.570 | 6427.48 | 5506.10 | 5213.33 | -1820.04 | 1693318.85 | 14284610.84 | 39°20'12.395"N | 80°48'46.442"W | 5521.90 | 340.755 | 0.06 | 0.04 | -0.04 | |
| 12290.00 | 90.550 | 336.120 | 6426.53 | 5600.09 | 5299.10 | -1858.51 | 1693280.40 | 14284696.57 | 39°20'13.243"N | 80°48'46.929"W | 5615.56 | 340.673 | 0.59 | -0.07 | 0.59 | |
| 12383.00 | 90.460 | 335.420 | 6425.71 | 5693.08 | 5383.90 | -1896.67 | 1693242.25 | 14284781.34 | 39°20'14.082"N | 80°48'47.412"W | 5708.22 | 340.593 | 0.76 | -0.10 | -0.75 | |
| 12477.00 | 90.310 | 340.100 | 6425.07 | 5787.03 | 5470.88 | -1932.24 | 1693206.69 | 14284868.29 | 39°20'14.942"N | 80°48'47.863"W | 5802.08 | 340.547 | 4.98 | -0.16 | 4.98 | |
| 12571.00 | 90.400 | 343.010 | 6424.49 | 5880.64 | 5560.04 | -1961.98 | 1693176.97 | 14284957.41 | 39°20'15.824"N | 80°48'48.239"W | 5896.05 | 340.564 | 3.10 | 0.10 | 3.10 | |
| 12664.00 | 91.290 | 342.200 | 6423.12 | 5973.09 | 5648.78 | -1989.78 | 1693149.18 | 14285046.11 | 39°20'16.702"N | 80°48'48.590"W | 5988.98 | 340.595 | 1.29 | 0.96 | -0.87 | |
| 12758.00 | 90.490 | 338.870 | 6421.66 | 6066.82 | 5737.38 | -2021.09 | 1693117.88 | 14285134.68 | 39°20'17.578"N | 80°48'48.987"W | 6082.96 | 340.594 | 3.64 | -0.85 | -3.54 | |
| 12852.00 | 90.060 | 334.810 | 6421.21 | 6160.80 | 5823.79 | -2058.05 | 1693080.93 | 14285221.05 | 39°20'18.433"N | 80°48'49.455"W | 6176.74 | 340.537 | 4.34 | -0.46 | -4.32 | |
| 12946.00 | 90.090 | 334.510 | 6421.08 | 6254.75 | 5908.74 | -2098.28 | 1693040.72 | 14285305.97 | 39°20'19.273"N | 80°48'49.965"W | 6270.25 | 340.449 | 0.32 | 0.03 | -0.32 | |
| 13039.00 | 90.030 | 335.580 | 6420.99 | 6347.72 | 5993.06 | -2137.52 | 1693001.49 | 14285390.26 | 39°20'20.108"N | 80°48'50.462"W | 6362.84 | 340.370 | 1.15 | -0.06 | 1.15 | |
| 13226.00 | 90.060 | 337.790 | 6420.87 | 6534.70 | 6165.32 | -2210.25 | 1692928.79 | 14285476.46 | 39°20'20.961"N | 80°48'50.935"W | 6456.63 | 340.315 | 2.09 | 0.00 | 2.09 | |
| 13320.00 | 90.090 | 335.400 | 6420.74 | 6628.69 | 6251.58 | -2247.59 | 1692891.47 | 14285562.45 | 39°20'21.812"N | 80°48'51.383"W | 6549.53 | 340.277 | 0.27 | 0.03 | 0.27 | |
| 13414.00 | 90.430 | 332.860 | 6420.32 | 6722.61 | 6336.15 | -2288.60 | 1692850.47 | 14285648.67 | 39°20'22.665"N | 80°48'51.856"W | 6643.34 | 340.225 | 2.54 | 0.03 | -2.54 | |
| 13507.00 | 89.910 | 330.830 | 6420.04 | 6815.30 | 6418.14 | -2332.48 | 1692806.61 | 14285733.21 | 39°20'23.502"N | 80°48'52.376"W | 6736.80 | 340.140 | 2.73 | 0.36 | -2.70 | |
| 13601.00 | 89.660 | 332.100 | 6420.39 | 6908.95 | 6500.72 | -2377.38 | 1692761.73 | 14285815.17 | 39°20'24.313"N | 80°48'52.932"W | 6828.84 | 340.028 | 2.25 | -0.56 | -2.18 | |
| 13694.00 | 90.310 | 333.680 | 6420.42 | 7001.77 | 6583.50 | -2419.76 | 1692719.37 | 14285897.72 | 39°20'25.130"N | 80°48'53.501"W | 6921.80 | 339.912 | 1.38 | -0.27 | 1.35 | |
| 13788.00 | 90.060 | 333.650 | 6420.11 | 7095.66 | 6667.74 | -2461.46 | 1692677.68 | 14285980.46 | 39°20'25.949"N | 80°48'54.039"W | 7014.11 | 339.819 | 1.84 | 0.70 | 1.70 | |
| 13882.00 | 89.690 | 335.410 | 6420.32 | 7189.61 | 6752.61 | -2501.88 | 1692635.28 | 14286064.67 | 39°20'26.782"N | 80°48'54.567"W | 7107.57 | 339.738 | 0.27 | -0.27 | -0.03 | |
| 13976.00 | 89.690 | 337.010 | 6420.83 | 7283.60 | 6838.61 | -2539.80 | 1692593.38 | 14286149.50 | 39°20'27.622"N | 80°48'55.079"W | 7201.19 | 339.670 | 1.91 | -0.39 | 1.87 | |
| 14069.00 | 90.150 | 340.820 | 6420.96 | 7376.50 | 6925.31 | -2573.40 | 1692551.44 | 14286235.47 | 39°20'28.473"N | 80°48'55.560"W | 7295.01 | 339.625 | 1.70 | 0.00 | 1.70 | |
| 14164.00 | 90.220 | 340.830 | 6420.65 | 7471.23 | 7014.99 | -2604.76 | 1692509.78 | 14286322.14 | 39°20'29.330"N | 80°48'55.985"W | 7387.99 | 339.615 | 3.91 | 0.49 | 3.88 | |
| 14257.00 | 90.280 | 338.140 | 6420.24 | 7564.09 | 7102.08 | -2637.35 | 1692468.26 | 14286411.78 | 39°20'30.217"N | 80°48'56.382"W | 7482.97 | 339.629 | 0.23 | 0.07 | 0.22 | |
| 14351.00 | 90.280 | 339.950 | 6419.78 | 7657.99 | 7189.86 | -2670.97 | 1692426.26 | 14286498.84 | 39°20'31.079"N | 80°48'56.795"W | 7575.96 | 339.628 | 2.89 | 0.06 | -2.89 | |
| 14444.00 | 90.250 | 341.370 | 6419.35 | 7750.73 | 7277.61 | -2701.76 | 1692384.48 | 14286586.58 | 39°20'31.947"N | 80°48'57.220"W | 7669.95 | 339.620 | 1.93 | 0.00 | 1.93 | |
| 14538.00 | 90.340 | 340.550 | 6418.87 | 7844.43 | 7366.46 | -2732.43 | 1692342.82 | 14286674.29 | 39°20'32.815"N | 80°48'57.610"W | 7762.93 | 339.633 | 1.53 | -0.03 | 1.53 | |
| 14632.00 | 90.340 | 340.550 | 6418.87 | 7844.43 | 7366.46 | -2732.43 | 1692342.82 | 14286763.11 | 39°20'33.694"N | 80°48'57.998"W | 7856.91 | 339.649 | 0.88 | 0.10 | -0.87 | |



Actual Wellpath Report

Goldsmith Unit 2H AWP Proj: 15769'

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REFERENCE WELLPATH IDENTIFICATION

| Operator | Slot #06 |
|------------------------------|-----------------------|
| ANTERO RESOURCES CORPORATION | Goldsmith Unit 2H |
| Area | Well |
| Doddridge Co., WV | Goldsmith Unit 2H AWB |
| Field | Wellbore |
| Doddridge | |
| Facility | Middle Pad |

WELLPATH DATA (194 stations)

| MD | Inclination | Azimuth | TVD | Vert Sect | North | East | Grid East | Grid North | Latitude | Longitude | Closure Dist | Closure Dir | DLS | Build Rate | Turn Rate | Comments |
|----------|-------------|---------|---------|-----------|---------|----------|------------|-------------|----------------|----------------|--------------|-------------|----------|------------|-----------|--------------------------|
| ft | ° | ° | ft | ft | ft | ft | ft | ft | ° | ° | ft | ° | ft/100ft | ft/100ft | ft/100ft | |
| 14632.00 | 89.850 | 339.630 | 6418.71 | 7938.24 | 7454.84 | -2764.44 | 1692374.82 | 14286851.46 | 39°20'34.568"N | 80°48'58.403"W | 7950.90 | 339.654 | 1.11 | -0.52 | -0.98 | |
| 14726.00 | 90.090 | 337.510 | 6418.76 | 8032.17 | 7542.34 | -2798.78 | 1692340.50 | 14286938.92 | 39°20'35.433"N | 80°48'58.838"W | 8044.88 | 339.641 | 2.27 | 0.26 | -2.26 | |
| 14819.00 | 90.090 | 335.730 | 6418.62 | 8125.16 | 7627.70 | -2835.69 | 1692303.61 | 14287024.25 | 39°20'36.278"N | 80°48'59.305"W | 8137.75 | 339.607 | 1.91 | 0.00 | -1.91 | |
| 14913.00 | 90.000 | 333.130 | 6418.54 | 8219.10 | 7712.49 | -2876.25 | 1692263.06 | 14287109.00 | 39°20'37.117"N | 80°48'59.820"W | 8231.36 | 339.548 | 2.77 | -0.10 | -2.77 | |
| 15006.00 | 89.910 | 331.900 | 6418.62 | 8311.88 | 7794.99 | -2919.17 | 1692220.15 | 14287191.47 | 39°20'37.933"N | 80°49'00.364"W | 8323.67 | 339.469 | 1.33 | -0.10 | -1.32 | |
| 15100.00 | 89.940 | 340.880 | 6418.72 | 8405.80 | 7879.88 | -2959.46 | 1692179.89 | 14287276.33 | 39°20'38.773"N | 80°49'00.874"W | 8417.30 | 339.415 | 5.78 | 0.06 | 5.78 | |
| 15193.00 | 90.060 | 343.230 | 6418.79 | 8498.68 | 7966.75 | -2992.22 | 1692146.74 | 14287363.16 | 39°20'39.632"N | 80°49'01.294"W | 8510.28 | 339.412 | 3.82 | -0.03 | 3.82 | |
| 15287.00 | 89.910 | 339.840 | 6418.81 | 8592.22 | 8056.17 | -3021.58 | 1692117.79 | 14287452.55 | 39°20'40.516"N | 80°49'01.860"W | 8604.18 | 339.441 | 2.50 | 0.13 | 2.50 | |
| 15381.00 | 90.000 | 335.220 | 6418.89 | 8685.83 | 8145.32 | -3051.35 | 1692088.03 | 14287541.66 | 39°20'41.398"N | 80°49'02.037"W | 8698.10 | 339.463 | 3.61 | -0.16 | -3.61 | |
| 15475.00 | 90.000 | 335.220 | 6418.89 | 8779.79 | 8232.16 | -3087.26 | 1692052.13 | 14287628.46 | 39°20'42.257"N | 80°49'02.492"W | 8792.02 | 339.443 | 4.92 | 0.10 | -4.91 | |
| 15568.00 | 90.090 | 333.940 | 6418.81 | 8872.74 | 8316.15 | -3127.18 | 1692012.22 | 14287712.42 | 39°20'43.088"N | 80°49'03.511"W | 8884.69 | 339.392 | 1.38 | 0.10 | -1.38 | |
| 15662.00 | 89.970 | 335.070 | 6418.76 | 8966.69 | 8401.00 | -3167.64 | 1691971.78 | 14287797.24 | 39°20'43.927"N | 80°49'03.957"W | 8978.35 | 339.341 | 1.21 | -0.13 | 1.20 | |
| 15745.00 | 90.000 | 334.710 | 6418.79 | 9049.66 | 8476.16 | -3202.87 | 1691936.57 | 14287872.36 | 39°20'44.671"N | 80°49'04.087"W | 9061.10 | 339.300 | 0.44 | 0.04 | -0.43 | |
| 15769.00 | 90.000 | 334.710 | 6418.79 | 9073.65 | 8497.85 | -3213.12 | 1691926.32 | 14287894.05 | 39°20'44.886"N | 80°49'04.087"W | 9085.02 | 339.288 | 0.00 | 0.00 | 0.00 | Projected MD @ TD: 15769 |

HOLE & CASING SECTIONS - Ref Wellbore: Goldsmith Unit 2H AWB Ref Wellpath: Goldsmith Unit 2H AWP Proj: 15769'

| String/Diameter | Start MD | End MD | Interval | Start TVD | End TVD | Start N/S | End N/S | Start E/W | End E/W | End E/W |
|-----------------------------|----------|----------|----------|-----------|---------|-----------|---------|-----------|---------|----------|
| | ft | ft | ft | ft | ft | ft | ft | ft | ft | ft |
| 20in Conductor | 32.00 | 112.00 | 80.00 | 32.00 | 112.00 | 0.00 | 0.11 | 0.00 | 0.11 | -0.02 |
| 17.5in Open Hole | 112.00 | 548.00 | 436.00 | 112.00 | 547.99 | 0.11 | 2.30 | -0.02 | 2.30 | 1.75 |
| 13.375in Casing Surface | 32.00 | 548.00 | 516.00 | 32.00 | 547.99 | 0.00 | 2.30 | 0.00 | 2.30 | 1.75 |
| 12.25in Open Hole | 548.00 | 2620.00 | 2072.00 | 547.99 | 2619.72 | 2.30 | 4.48 | 1.75 | 4.48 | 2.42 |
| 9.625in Casing Intermediate | 32.00 | 2620.00 | 2588.00 | 32.00 | 2619.72 | 0.00 | 4.48 | 0.00 | 4.48 | 2.42 |
| 8.75in Open Hole | 2620.00 | 6440.00 | 3820.00 | 2619.72 | 6289.37 | 4.48 | -5.50 | 2.42 | -5.50 | 491.94 |
| 8.5in Open Hole | 6440.00 | 15769.00 | 9329.00 | 6289.37 | 6418.79 | -5.50 | 8497.85 | 491.94 | 8497.85 | -3213.12 |
| 5.5in Casing Production | 32.00 | 15769.00 | 15737.00 | 32.00 | 6418.79 | 0.00 | 8497.85 | 0.00 | 8497.85 | -3213.12 |

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Actual Wellpath Report

Goldsmith Unit 2H AWP Proj: 15769'
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REFERENCE WELLPATH IDENTIFICATION

| Operator | Slot | Slot #06 |
|------------------------------|----------|-----------------------|
| ANTERO RESOURCES CORPORATION | Well | Goldsmith Unit 2H |
| Area | Wellbore | Goldsmith Unit 2H AWB |
| Field | | |
| Facility | | |

TARGETS

| Name | TVD [ft] | North [ft] | East [ft] | Grid East [US ft] | Grid North [US ft] | Latitude | Longitude | Shape |
|-----------------------------|----------|------------|-----------|-------------------|--------------------|----------------|----------------|-------|
| Goldsmith Unit 2H POE Rev-2 | 6390.00 | 177.11 | 429.39 | 1695567.38 | 14279576.63 | 39°19'22.571"N | 80°48'17.951"W | point |
| Goldsmith Unit 2H BHL Rev-2 | 6430.00 | 8455.82 | -3206.98 | 1691932.46 | 14287852.03 | 39°20'44.470"N | 80°49'04.010"W | point |
| Goldsmith Unit 2H LP Rev-1 | 6430.00 | 392.48 | 318.42 | 1695456.46 | 14279791.91 | 39°19'24.702"N | 80°48'19.358"W | point |

WELLPATH COMPOSITION - Ref Wellbore: Goldsmith Unit 2H AWB Ref Wellpath: Goldsmith Unit 2H AWP Proj: 15769'

| Start MID [ft] | End MID [ft] | Positional Uncertainty Model | Log Name/Comment | Wellbore |
|----------------|--------------|---------------------------------------------|------------------------------------------------------|-----------------------|
| 32.00 | 514.00 | Gyrodata standard - Drop gyro or Multi-shot | 01 Gyrodata MS Gyro <17-1/2"> (100'-497') | Goldsmith Unit 2H AWB |
| 514.00 | 2548.00 | ISCWSA MWD, Rev. 4 (Standard) | 02 Directional ONE MWD <12-1/4"> (497')(559'-2531') | Goldsmith Unit 2H AWB |
| 2548.00 | 6373.00 | ISCWSA MWD, Rev. 4 (Standard) | 03 Directional ONE MWD <8-3/4"> (2531')(2650'-6356') | Goldsmith Unit 2H AWB |
| 6373.00 | 15745.00 | BHI AutoTrak Curve (Standard) | 04 BHI AT Curve <8-1/2"> (6373')(6410'-15745') | Goldsmith Unit 2H AWB |
| 15745.00 | 15769.00 | Blind Drilling (std) | Projection to bit | Goldsmith Unit 2H AWB |

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Actual Wellpath Report

Goldsmith Unit 2H AWP Proj: 15769'
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| REFERENCE WELLPATH IDENTIFICATION | | | |
|-----------------------------------|------------------------------|----------|-----------------------|
| Operator | ANTERO RESOURCES CORPORATION | Slot | Slot #06 |
| Area | Doddridge Co., WW | Well | Goldsmith Unit 2H |
| Field | Doddridge | Wellbore | Goldsmith Unit 2H AWB |
| Facility | Middle Pad | | |

| COMMENTS |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Wellpath general comments API: 47-017-06821-0000 BH Job #: 9050763 Rig: Frontier 32 Duration: 03/12/18 - 03/14/18 Gyrodatta MS Gyro <17'-1/2"> (100'-497') Directional ONE MWD <12'-1/4"> (497')(559'-2531') Directional ONE MWD <8-3/4"> (2531')(2650'-6356') BHI AT Curve <8-1/2">(6373')(6410'-15745') Burket: 6490'MD / 6318'TVD Tully: 6551'MD / 6347'TVD Hamilton: 6636'MD / 6379'TVD POE Marcellus: 6667'MD / 6388'TVD Projected MD @ TD: 15769</p> |

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