



ANTERO RESOURCES CORPORATION

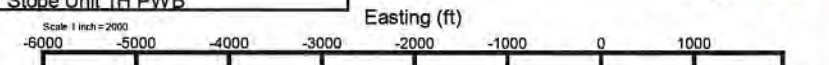
Location: Doddridge Co., WV
Field: Doddridge
Facility: Locke Pad

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



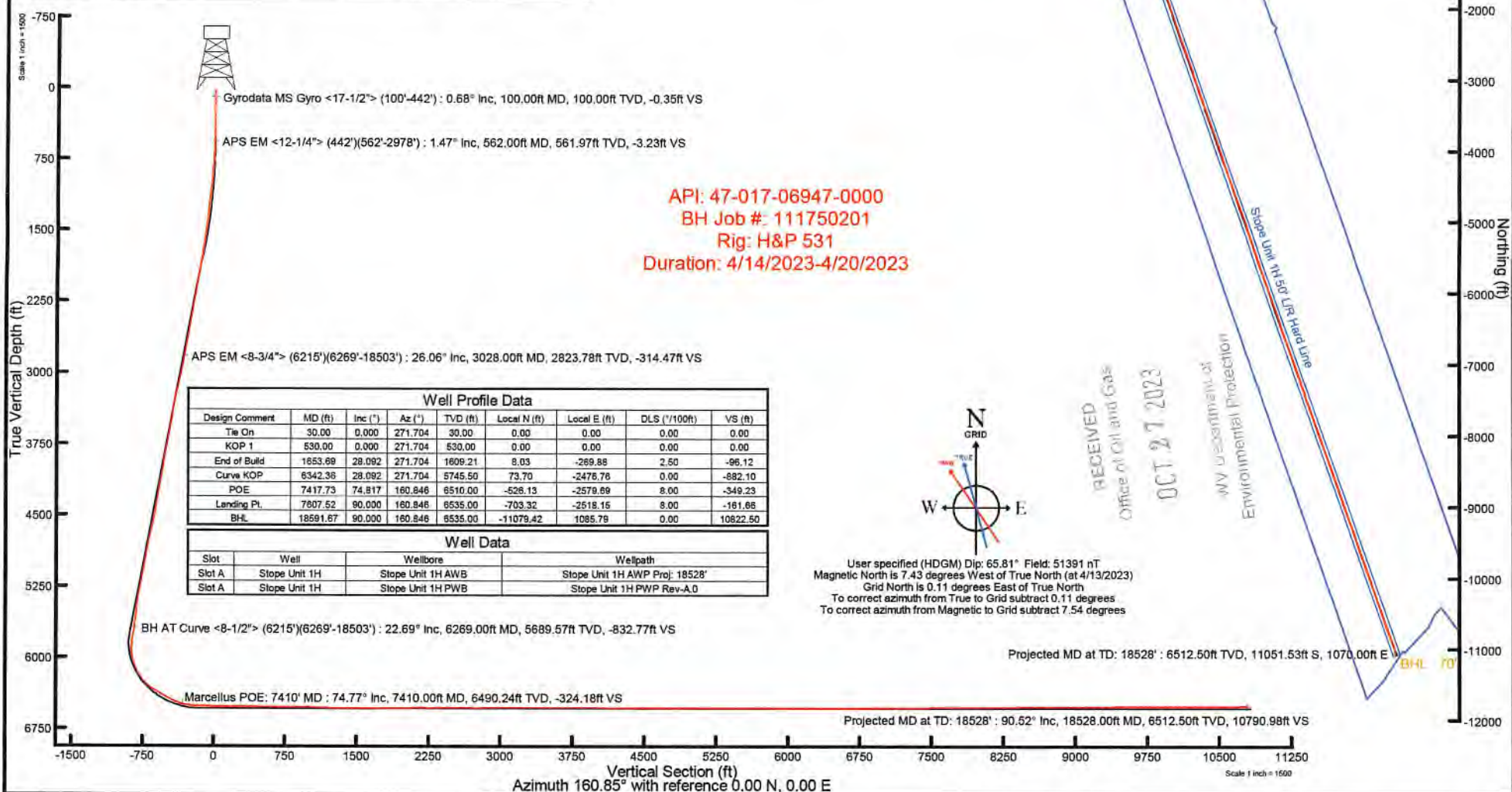
| | |
|--|--|
| Plot reference wellpath is Slope Unit 1H PWP Rev-A.0 | Grid System: NAD27 / UTM Zone 17 North, US Feet |
| Tie vertical depths are referenced to H&P 531 (RKB) | North Reference: Grid North |
| Reference wellpath measured depths are referenced to H&P 531 (RKB) | Scale: True distance |
| H&P 531 (RKB) to Mean Sea Level: 1130 feet | Coordinates are in feet referenced to GCS |
| Mean Sea Level to Ground level (At Slot: Slot A): -1102 feet | Depths are in feet |
| Other wellpath MDs are referenced to each path's default MD datum | Created by: esstaylor on 2023-04-25, Database: WA_MPL_EASTERNUS_Defn |

| Location Information | | | | |
|--|-------------------|--------------------|-------------------|--------------------|
| Facility Name | Grid East (US ft) | Grid North (US ft) | Latitude | Longitude |
| Locke Pad | 1687522.330 | 14228577.530 | 39°10'38.6900"N | 80°50'1.5999"W |
| Slot | Local N (ft) | Local E (ft) | Grid East (US ft) | Grid North (US ft) |
| Slot A | 0.00 | 0.00 | 1687522.330 | 14228577.530 |
| | | | 39°10'38.6900"N | 80°50'1.5999"W |
| Comment | Slope Unit 1H | | | |
| H&P 531 (RKB) to Ground level (At Slot: Slot A) | 30ft | | | |
| Mean Sea Level to Ground level (At Slot: Slot A) | -1100ft | | | |
| H&P 531 (RKB) to Mean Sea Level | 1130ft | | | |



Gyrodata MS Gyro <17-1/2"> (100'-442') : 100.00ft TVD, 0.26ft N, 0.32ft W
 APS EM <12-1/4"> (442')(562'-2978') : 561.97ft TVD, 1.92ft N, 4.32ft W
 APS EM <8-3/4"> (6215')(6269'-18503') : 2823.78ft TVD, 12.99ft N, 921.21ft W
 BH AT Curve <8-1/2"> (6215')(6269'-18503') : 5689.57ft TVD, 38.55ft N, 2427.60ft W

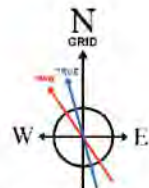
Marcellus POE: 7410' MD : 6490.24ft TVD, 549.21ft S, 2569.78ft W



API: 47-017-06947-0000
 BH Job #: 111750201
 Rig: H&P 531
 Duration: 4/14/2023-4/20/2023

| Well Profile Data | | | | | | | |
|-------------------|----------|---------|---------|----------|--------------|--------------|---------|
| Design Comment | MD (ft) | Inc (°) | Az (°) | TVD (ft) | Local N (ft) | Local E (ft) | VS (ft) |
| Tie On | 30.00 | 0.000 | 271.704 | 30.00 | 0.00 | 0.00 | 0.00 |
| KOP 1 | 530.00 | 0.000 | 271.704 | 530.00 | 0.00 | 0.00 | 0.00 |
| End of Build | 1653.69 | 28.092 | 271.704 | 1609.21 | 8.03 | -269.88 | 2.50 |
| Curve KOP | 6342.36 | 28.092 | 271.704 | 5745.50 | 73.70 | -2476.76 | 0.00 |
| POE | 7417.73 | 74.817 | 160.846 | 6510.00 | -526.13 | -2579.89 | 8.00 |
| Landing Pt. | 7807.52 | 90.000 | 160.846 | 6535.00 | -703.32 | -2518.15 | 8.00 |
| BHL | 18591.67 | 90.000 | 160.846 | 6535.00 | -11079.42 | 1085.79 | 0.00 |

| Well Data | | | |
|-----------|---------------|-------------------|--------------------------------|
| Slot | Well | Wellbore | Wellpath |
| Slot A | Slope Unit 1H | Slope Unit 1H AWB | Slope Unit 1H AWP Proj: 18528' |
| Slot A | Slope Unit 1H | Slope Unit 1H PWB | Slope Unit 1H PWP Rev-A.0 |



User specified (HDGM) Dip: 65.81° Field: 51391 nT
 Magnetic North is 7.43 degrees West of True North (at 4/13/2023)
 Grid North is 0.11 degrees East of True North
 To correct azimuth from True to Grid subtract 0.11 degrees
 To correct azimuth from Magnetic to Grid subtract 7.54 degrees

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Projected MD at TD: 18528' : 6512.50ft TVD, 11051.53ft S, 1070.00ft E

Projected MD at TD: 18528' : 90.52° Inc, 18528.00ft MD, 6512.50ft TVD, 10790.98ft VS

Vertical Section (ft)
 Azimuth 160.85° with reference 0.00 N, 0.00 E

Scale 1 inch = 1500



Actual Wellpath Report

Stope Unit 1H AWP Proj: 18528'
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| REFERENCE WELLPATH IDENTIFICATION | | | |
|-----------------------------------|------------------------------|----------|-------------------|
| Operator | ANTERO RESOURCES CORPORATION | Well | Stope Unit 1H |
| Field | Doddridge | API | 47-017-06947-0000 |
| Facility | Locke Pad | Wellbore | Stope 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 | 0.999603 | Report Generated | 4/28/2023 at 6:28:14 PM |
| Convergence at slot | 0.11° 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 | 0.00 | 0.00 | 1687522.33 | 14226577.53 | 39°10'38.6900"N | 80°50'1.5999"W |
| Facility Reference Pt | | | 1687522.33 | 14226577.53 | 39°10'38.6900"N | 80°50'1.5999"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 531 (RKB) to Facility Vertical Datum | 1130.00ft |
| Horizontal Reference Pt | Slot | H&P 531 (RKB) to Mean Sea Level | 1130.00ft |
| Vertical Reference Pt | H&P 531 (RKB) | H&P 531 (RKB) to Ground Level at Slot (Slot A) | 30.00ft |
| MD Reference Pt | H&P 531 (RKB) | Section Origin | N 0.00, E 0.00 ft |
| Field Vertical Reference | Mean Sea Level | Section Azimuth | 160.85° |

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Actual Wellpath Report

Stope Unit 1H AWP Proj: 18528'
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| REFERENCE WELLPATH IDENTIFICATION | | | |
|-----------------------------------|------------------------------|----------|-------------------|
| Operator | ANTERO RESOURCES CORPORATION | Well | Stope Unit 1H |
| Field | Doddridge | API | 47-017-06947-0000 |
| Facility | Locke Pad | Wellbore | Stope Unit 1H AWB |
| Slot | Slot A | | |

WELLPATH DATA (213 stations) † = interpolated, ‡ = extrapolated station

| MD [ft] | Inclination [°] | Azimuth [°] | TVD [ft] | Vert Sect [ft] | North [ft] | East [ft] | Grid East [US ft] | Grid North [US ft] | Latitude | Longitude | Closure Dist [ft] | Closure Dir [°] | DLS ["/100ft] | Build Rate ["/100ft] | Turn Rate ["/100ft] | Comments |
|---------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|-----------------|-----------------|-------------------|-----------------|---------------|----------------------|---------------------|--|
| 0.00† | 0.000 | 308.890 | 0.00 | 0.00 | 0.00 | 0.00 | 1687522.33 | 14226577.53 | 39°10'38.6900"N | 80°50'1.5999"W | 0.00 | 0.000 | 0.00 | 0.00 | 0.00 | |
| 30.00 | 0.000 | 308.890 | 30.00 | 0.00 | 0.00 | 0.00 | 1687522.33 | 14226577.53 | 39°10'38.6900"N | 80°50'1.5999"W | 0.00 | 0.000 | 0.00 | 0.00 | 0.00 | |
| 100.00 | 0.680 | 308.890 | 100.00 | -0.35 | 0.26 | -0.32 | 1687522.01 | 14226577.79 | 39°10'38.6926"N | 80°50'1.6040"W | 0.42 | 308.890 | 0.97 | 0.97 | 0.00 | Gyrodata MS Gyro <17-1/2"> (100'-442') |
| 200.00 | 0.540 | 287.400 | 199.99 | -1.14 | 0.77 | -1.23 | 1687521.10 | 14226578.30 | 39°10'38.6977"N | 80°50'1.6156"W | 1.46 | 302.088 | 0.27 | -0.14 | -21.49 | |
| 300.00 | 0.290 | 286.150 | 299.99 | -1.56 | 0.99 | -1.93 | 1687520.40 | 14226578.52 | 39°10'38.6998"N | 80°50'1.6244"W | 2.16 | 297.080 | 0.25 | -0.25 | -1.25 | |
| 400.00 | 0.290 | 289.680 | 399.99 | -1.87 | 1.14 | -2.41 | 1687519.92 | 14226578.67 | 39°10'38.7013"N | 80°50'1.6305"W | 2.67 | 295.348 | 0.02 | 0.00 | 3.53 | |
| 442.00 | 0.300 | 283.320 | 441.99 | -1.99 | 1.20 | -2.62 | 1687519.71 | 14226578.73 | 39°10'38.7019"N | 80°50'1.6331"W | 2.88 | 294.683 | 0.08 | 0.02 | -15.14 | |
| 562.00 | 1.470 | 294.720 | 561.97 | -3.23 | 1.92 | -4.32 | 1687518.01 | 14226579.45 | 39°10'38.7090"N | 80°50'1.6547"W | 4.73 | 293.945 | 0.98 | 0.97 | 9.50 | APS EM <12-1/4"> (442')(562'-2978') |
| 652.00 | 3.760 | 289.490 | 651.87 | -5.87 | 3.39 | -8.15 | 1687514.18 | 14226580.91 | 39°10'38.7236"N | 80°50'1.7034"W | 8.83 | 292.558 | 2.56 | 2.54 | -5.81 | |
| 743.00 | 6.280 | 286.750 | 742.52 | -10.65 | 5.81 | -15.72 | 1687506.62 | 14226583.34 | 39°10'38.7477"N | 80°50'1.7994"W | 16.76 | 290.294 | 2.76 | 2.75 | -3.01 | |
| 834.00 | 8.890 | 282.760 | 832.72 | -17.27 | 8.80 | -27.33 | 1687495.01 | 14226586.32 | 39°10'38.7774"N | 80°50'1.9467"W | 28.71 | 287.841 | 2.95 | 2.89 | -4.38 | |
| 924.00 | 10.920 | 279.320 | 921.37 | -25.01 | 11.71 | -42.52 | 1687479.82 | 14226589.24 | 39°10'38.8065"N | 80°50'2.1396"W | 44.11 | 285.399 | 2.35 | 2.26 | -3.82 | |
| 1019.00 | 13.270 | 275.890 | 1014.26 | -33.92 | 14.29 | -62.25 | 1687460.10 | 14226591.81 | 39°10'38.8324"N | 80°50'2.3901"W | 63.87 | 282.927 | 2.59 | 2.47 | -3.61 | |
| 1114.00 | 15.550 | 274.100 | 1106.26 | -43.56 | 16.32 | -85.80 | 1687436.56 | 14226593.84 | 39°10'38.8528"N | 80°50'2.6891"W | 87.34 | 280.768 | 2.45 | 2.40 | -1.88 | |
| 1209.00 | 17.350 | 271.500 | 1197.37 | -53.58 | 17.60 | -112.66 | 1687409.71 | 14226595.12 | 39°10'38.8660"N | 80°50'3.0302"W | 114.03 | 278.878 | 2.05 | 1.89 | -2.74 | |
| 1303.00 | 19.170 | 269.630 | 1286.63 | -63.50 | 17.87 | -142.11 | 1687380.27 | 14226595.39 | 39°10'38.8692"N | 80°50'3.4041"W | 143.23 | 277.166 | 2.03 | 1.94 | -1.99 | |
| 1398.00 | 21.530 | 269.870 | 1375.70 | -74.20 | 17.73 | -175.15 | 1687347.25 | 14226595.25 | 39°10'38.8684"N | 80°50'3.8236"W | 176.04 | 275.779 | 2.49 | 2.48 | 0.25 | |
| 1492.00 | 23.240 | 269.980 | 1462.61 | -85.90 | 17.68 | -210.94 | 1687311.47 | 14226595.20 | 39°10'38.8686"N | 80°50'4.2781"W | 211.68 | 274.791 | 1.82 | 1.82 | 0.12 | |
| 1587.00 | 24.710 | 269.130 | 1549.41 | -98.27 | 17.37 | -249.54 | 1687272.89 | 14226594.90 | 39°10'38.8662"N | 80°50'4.7683"W | 250.15 | 273.982 | 1.59 | 1.55 | -0.89 | |
| 1682.00 | 26.680 | 269.430 | 1635.02 | -111.30 | 16.86 | -290.73 | 1687231.72 | 14226594.38 | 39°10'38.8619"N | 80°50'5.2913"W | 291.21 | 273.319 | 2.08 | 2.07 | 0.32 | |
| 1777.00 | 27.250 | 267.750 | 1719.69 | -124.41 | 15.79 | -333.79 | 1687188.68 | 14226593.32 | 39°10'38.8521"N | 80°50'5.8381"W | 334.16 | 272.709 | 1.00 | 0.60 | -1.77 | |
| 1872.00 | 27.240 | 266.320 | 1804.15 | -136.54 | 13.54 | -377.22 | 1687145.27 | 14226591.07 | 39°10'38.8307"N | 80°50'6.3896"W | 377.46 | 272.056 | 0.69 | -0.01 | -1.51 | |
| 1966.00 | 27.640 | 267.510 | 1887.57 | -148.53 | 11.22 | -420.47 | 1687102.03 | 14226588.74 | 39°10'38.8084"N | 80°50'6.9389"W | 420.62 | 271.528 | 0.72 | 0.43 | 1.27 | |
| 2061.00 | 29.190 | 267.420 | 1971.13 | -161.45 | 9.22 | -465.63 | 1687056.89 | 14226586.74 | 39°10'38.7895"N | 80°50'7.5124"W | 465.72 | 271.134 | 1.63 | 1.63 | -0.09 | |
| 2155.00 | 29.160 | 269.740 | 2053.20 | -175.40 | 8.08 | -511.43 | 1687011.11 | 14226585.61 | 39°10'38.7791"N | 80°50'8.0940"W | 511.49 | 270.905 | 1.20 | -0.03 | 2.47 | |
| 2250.00 | 28.680 | 270.760 | 2136.36 | -190.66 | 8.28 | -557.37 | 1686965.18 | 14226585.80 | 39°10'38.7819"N | 80°50'8.6773"W | 557.43 | 270.851 | 0.72 | -0.51 | 1.07 | |
| 2345.00 | 28.990 | 269.490 | 2219.58 | -205.78 | 8.37 | -603.18 | 1686919.39 | 14226585.90 | 39°10'38.7836"N | 80°50'9.2591"W | 603.24 | 270.795 | 0.72 | 0.33 | -1.34 | |
| 2439.00 | 29.980 | 268.970 | 2301.40 | -220.37 | 7.75 | -649.44 | 1686873.15 | 14226585.28 | 39°10'38.7783"N | 80°50'9.8466"W | 649.49 | 270.684 | 1.09 | 1.05 | -0.55 | |
| 2534.00 | 28.270 | 270.190 | 2384.39 | -235.20 | 7.40 | -695.68 | 1686826.93 | 14226584.92 | 39°10'38.7756"N | 80°50'10.4336"W | 695.72 | 270.609 | 1.91 | -1.80 | 1.28 | |
| 2629.00 | 27.870 | 270.770 | 2468.22 | -250.22 | 7.77 | -740.38 | 1686782.25 | 14226585.30 | 39°10'38.7801"N | 80°50'11.0012"W | 740.42 | 270.601 | 0.51 | -0.42 | 0.61 | |

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Stope Unit 1H AWP Proj: 18528'
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| REFERENCE WELLPATH IDENTIFICATION | | | |
|-----------------------------------|------------------------------|----------|-------------------|
| Operator | ANTERO RESOURCES CORPORATION | Well | Stope Unit 1H |
| Field | Doddridge | API | 47-017-06947-0000 |
| Facility | Locke Pad | Wellbore | Stope Unit 1H AWP |
| Slot | Slot A | | |

| WELLPATH DATA (213 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 |
| 2723.00 | 27.640 | 269.050 | 2551.40 | -264.51 | 7.70 | -784.15 | 1686738.50 | 14226585.23 | 39°10'38.7802"N | 80°50'11.5571"W | 784.19 | 270.563 | 0.89 | -0.24 | -1.83 | |
| 2818.00 | 27.060 | 271.530 | 2635.79 | -279.03 | 7.92 | -827.78 | 1686694.88 | 14226585.44 | 39°10'38.7831"N | 80°50'12.1111"W | 827.82 | 270.548 | 1.35 | -0.61 | 2.61 | |
| 2912.00 | 26.450 | 273.740 | 2719.72 | -294.72 | 9.85 | -870.05 | 1686652.63 | 14226587.38 | 39°10'38.8030"N | 80°50'12.6478"W | 870.10 | 270.649 | 1.24 | -0.65 | 2.35 | |
| 2978.00 | 26.170 | 273.660 | 2778.89 | -306.08 | 11.74 | -899.24 | 1686623.45 | 14226589.27 | 39°10'38.8222"N | 80°50'13.0184"W | 899.32 | 270.748 | 0.43 | -0.42 | -0.12 | |
| 3028.00 | 26.060 | 272.870 | 2823.78 | -314.47 | 12.99 | -921.21 | 1686601.48 | 14226590.52 | 39°10'38.8350"N | 80°50'13.2974"W | 921.31 | 270.808 | 0.73 | -0.22 | -1.58 | APS EM <8-3/4"> (6215')(6269'-18503') |
| 3123.00 | 26.310 | 275.430 | 2909.04 | -331.05 | 16.03 | -963.01 | 1686559.70 | 14226593.55 | 39°10'38.8657"N | 80°50'13.8282"W | 963.15 | 270.954 | 1.22 | 0.26 | 2.69 | |
| 3220.00 | 27.270 | 274.720 | 2995.62 | -348.99 | 19.89 | -1006.56 | 1686516.17 | 14226597.42 | 39°10'38.9047"N | 80°50'14.3811"W | 1006.76 | 271.132 | 1.04 | 0.99 | -0.73 | |
| 3317.00 | 28.430 | 275.160 | 3081.39 | -367.49 | 23.80 | -1051.71 | 1686471.04 | 14226601.32 | 39°10'38.9441"N | 80°50'14.9542"W | 1051.98 | 271.296 | 1.21 | 1.20 | 0.45 | |
| 3412.00 | 30.150 | 274.630 | 3164.24 | -386.42 | 27.76 | -1098.01 | 1686424.76 | 14226605.28 | 39°10'38.9840"N | 80°50'15.5421"W | 1098.36 | 271.448 | 1.83 | 1.81 | -0.56 | |
| 3506.00 | 29.670 | 272.830 | 3245.72 | -404.64 | 30.81 | -1144.78 | 1686378.01 | 14226608.33 | 39°10'39.0150"N | 80°50'16.1359"W | 1145.20 | 271.542 | 1.08 | -0.51 | -1.91 | |
| 3601.00 | 28.630 | 268.480 | 3328.70 | -420.34 | 31.37 | -1191.02 | 1686331.78 | 14226608.89 | 39°10'39.0214"N | 80°50'16.7231"W | 1191.44 | 271.509 | 2.48 | -1.09 | -4.58 | |
| 3695.00 | 28.060 | 266.360 | 3411.43 | -433.07 | 29.37 | -1235.60 | 1686287.22 | 14226606.89 | 39°10'39.0024"N | 80°50'17.2892"W | 1235.95 | 271.362 | 1.23 | -0.61 | -2.26 | |
| 3789.00 | 29.990 | 270.350 | 3493.63 | -446.83 | 28.11 | -1281.17 | 1686241.68 | 14226605.63 | 39°10'38.9907"N | 80°50'17.8678"W | 1281.47 | 271.257 | 2.91 | 2.05 | 4.24 | |
| 3884.00 | 30.570 | 269.560 | 3575.66 | -462.51 | 28.07 | -1329.07 | 1686193.80 | 14226605.59 | 39°10'38.9912"N | 80°50'18.4761"W | 1329.36 | 271.210 | 0.74 | 0.61 | -0.83 | |
| 3978.00 | 29.550 | 268.820 | 3657.02 | -477.32 | 27.41 | -1376.15 | 1686146.73 | 14226604.93 | 39°10'38.9855"N | 80°50'19.0739"W | 1376.42 | 271.141 | 1.15 | -1.09 | -0.79 | |
| 4073.00 | 28.750 | 271.900 | 3739.99 | -492.76 | 27.68 | -1422.40 | 1686100.49 | 14226605.20 | 39°10'38.9890"N | 80°50'19.6613"W | 1422.67 | 271.115 | 1.79 | -0.84 | 3.24 | |
| 4167.00 | 28.700 | 273.890 | 3822.43 | -509.71 | 29.96 | -1467.52 | 1686055.40 | 14226607.48 | 39°10'39.0123"N | 80°50'20.2341"W | 1467.82 | 271.170 | 1.02 | -0.05 | 2.12 | |
| 4262.00 | 27.520 | 268.090 | 3906.24 | -525.15 | 30.78 | -1512.22 | 1686010.71 | 14226608.30 | 39°10'39.0212"N | 80°50'20.8018"W | 1512.53 | 271.166 | 3.13 | -1.24 | -6.11 | |
| 4356.00 | 25.750 | 267.120 | 3990.26 | -537.31 | 29.03 | -1554.32 | 1685968.63 | 14226606.55 | 39°10'39.0046"N | 80°50'21.3364"W | 1554.59 | 271.070 | 1.94 | -1.88 | -1.03 | |
| 4451.00 | 25.770 | 273.810 | 4075.84 | -551.15 | 29.37 | -1595.55 | 1685927.42 | 14226606.88 | 39°10'39.0087"N | 80°50'21.8599"W | 1595.82 | 271.054 | 3.06 | 0.02 | 7.04 | |
| 4545.00 | 26.280 | 274.410 | 4160.30 | -567.44 | 32.32 | -1636.68 | 1685886.30 | 14226609.84 | 39°10'39.0386"N | 80°50'22.3822"W | 1637.00 | 271.131 | 0.61 | 0.54 | 0.64 | |
| 4639.00 | 25.340 | 271.870 | 4244.93 | -582.97 | 34.58 | -1677.54 | 1685845.46 | 14226612.10 | 39°10'39.0616"N | 80°50'22.9009"W | 1677.90 | 271.181 | 1.54 | -1.00 | -2.70 | |
| 4734.00 | 25.290 | 271.360 | 4330.81 | -597.37 | 35.72 | -1718.14 | 1685804.87 | 14226613.24 | 39°10'39.0737"N | 80°50'23.4165"W | 1718.52 | 271.191 | 0.24 | -0.05 | -0.54 | |
| 4829.00 | 23.710 | 269.450 | 4417.25 | -610.57 | 36.02 | -1757.53 | 1685765.50 | 14226613.54 | 39°10'39.0773"N | 80°50'23.9167"W | 1757.90 | 271.174 | 1.86 | -1.66 | -2.01 | |
| 4923.00 | 26.150 | 274.100 | 4502.49 | -624.78 | 37.32 | -1797.10 | 1685725.95 | 14226614.84 | 39°10'39.0908"N | 80°50'24.4191"W | 1797.49 | 271.190 | 3.33 | 2.60 | 4.95 | |
| 5018.00 | 27.610 | 276.840 | 4587.23 | -642.70 | 41.44 | -1839.84 | 1685683.22 | 14226618.96 | 39°10'39.1323"N | 80°50'24.9618"W | 1840.31 | 271.290 | 2.02 | 1.54 | 2.88 | |
| 5113.00 | 28.610 | 279.120 | 4671.03 | -663.12 | 47.67 | -1884.16 | 1685638.92 | 14226625.18 | 39°10'39.1946"N | 80°50'25.5244"W | 1884.76 | 271.449 | 1.54 | 1.05 | 2.40 | |
| 5207.00 | 28.940 | 275.070 | 4753.43 | -683.11 | 53.25 | -1929.04 | 1685594.06 | 14226630.76 | 39°10'39.2505"N | 80°50'26.0942"W | 1929.78 | 271.581 | 2.10 | 0.35 | -4.31 | |
| 5302.00 | 27.300 | 269.860 | 4837.22 | -699.64 | 55.23 | -1973.73 | 1685549.39 | 14226632.73 | 39°10'39.2709"N | 80°50'26.6616"W | 1974.50 | 271.603 | 3.11 | -1.73 | -5.48 | |
| 5397.00 | 27.400 | 268.910 | 4921.60 | -713.51 | 54.76 | -2017.37 | 1685505.76 | 14226632.26 | 39°10'39.2670"N | 80°50'27.2158"W | 2018.12 | 271.555 | 0.47 | 0.11 | -1.00 | |

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Actual Wellpath Report

Stope Unit 1H AWP Proj: 18528'
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| REFERENCE WELLPATH IDENTIFICATION | | | | |
|-----------------------------------|------------------------------|--|----------|-------------------|
| Operator | ANTERO RESOURCES CORPORATION | | Well | Stope Unit 1H |
| Field | Doddridge | | API | 47-017-06947-0000 |
| Facility | Locke Pad | | Wellbore | Stope Unit 1H AWB |
| Slot | Slot A | | | |

| WELLPATH DATA (213 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 |
| 5493.00 | 30.370 | 272.180 | 5005.66 | -729.19 | 55.26 | -2063.72 | 1685459.43 | 14226632.77 | 39°10'39.2728"N | 80°50'27.8043"W | 2064.46 | 271.534 | 3.50 | 3.09 | 3.41 | |
| 5587.00 | 29.430 | 269.320 | 5087.15 | -745.15 | 55.89 | -2110.56 | 1685412.61 | 14226633.40 | 39°10'39.2798"N | 80°50'28.3991"W | 2111.30 | 271.517 | 1.82 | -1.00 | -3.04 | |
| 5682.00 | 28.400 | 269.660 | 5170.30 | -759.83 | 55.48 | -2156.49 | 1685366.70 | 14226632.99 | 39°10'39.2765"N | 80°50'28.9824"W | 2157.21 | 271.474 | 1.10 | -1.08 | 0.36 | |
| 5777.00 | 31.700 | 271.480 | 5252.53 | -775.91 | 55.99 | -2204.05 | 1685319.16 | 14226633.50 | 39°10'39.2824"N | 80°50'29.5863"W | 2204.76 | 271.455 | 3.60 | 3.47 | 1.92 | |
| 5871.00 | 30.570 | 267.250 | 5332.99 | -791.37 | 55.48 | -2252.62 | 1685270.61 | 14226632.99 | 39°10'39.2782"N | 80°50'30.2031"W | 2253.31 | 271.411 | 2.62 | -1.20 | -4.50 | |
| 5966.00 | 28.410 | 262.040 | 5415.69 | -802.58 | 51.19 | -2299.15 | 1685224.10 | 14226628.70 | 39°10'39.2366"N | 80°50'30.7939"W | 2299.72 | 271.275 | 3.53 | -2.27 | -5.48 | |
| 6060.00 | 26.770 | 260.640 | 5499.00 | -810.52 | 44.65 | -2342.19 | 1685181.08 | 14226622.16 | 39°10'39.1727"N | 80°50'31.3406"W | 2342.61 | 271.092 | 1.88 | -1.74 | -1.49 | |
| 6155.00 | 24.260 | 269.200 | 5584.76 | -820.30 | 40.90 | -2382.83 | 1685140.45 | 14226618.41 | 39°10'39.1363"N | 80°50'31.8568"W | 2383.18 | 270.983 | 4.69 | -2.64 | 9.01 | |
| 6215.00 | 22.830 | 264.740 | 5639.77 | -826.98 | 39.66 | -2406.75 | 1685116.54 | 14226617.17 | 39°10'39.1245"N | 80°50'32.1605"W | 2407.08 | 270.944 | 3.81 | -2.38 | -7.43 | |
| 6269.00 | 22.690 | 269.200 | 5689.57 | -832.77 | 38.55 | -2427.60 | 1685095.70 | 14226616.07 | 39°10'39.1139"N | 80°50'32.4253"W | 2427.90 | 270.910 | 3.21 | -0.26 | 8.26 | BH AT Curve <8-1/2"> (6215')(6269'-18503') |
| 6363.00 | 28.090 | 274.440 | 5774.47 | -847.35 | 40.01 | -2467.82 | 1685055.49 | 14226617.53 | 39°10'39.1290"N | 80°50'32.9361"W | 2468.15 | 270.929 | 6.22 | 5.74 | 5.57 | |
| 6458.00 | 27.960 | 259.580 | 5858.43 | -859.70 | 37.71 | -2512.08 | 1685011.25 | 14226615.23 | 39°10'39.1070"N | 80°50'33.4981"W | 2512.36 | 270.860 | 7.33 | -0.14 | -15.64 | |
| 6553.00 | 27.960 | 242.950 | 5942.47 | -860.01 | 23.54 | -2553.88 | 1684969.47 | 14226601.06 | 39°10'38.9676"N | 80°50'34.0292"W | 2553.99 | 270.528 | 8.18 | 0.00 | -17.51 | |
| 6647.00 | 27.920 | 224.530 | 6025.67 | -847.20 | -2.22 | -2589.01 | 1684934.36 | 14226575.31 | 39°10'38.7136"N | 80°50'34.4758"W | 2589.01 | 269.951 | 9.15 | -0.04 | -19.60 | |
| 6697.00 | 29.270 | 215.710 | 6069.59 | -834.97 | -20.50 | -2604.36 | 1684919.01 | 14226557.04 | 39°10'38.5332"N | 80°50'34.6712"W | 2604.44 | 269.549 | 8.86 | 2.70 | -17.64 | |
| 6742.00 | 30.900 | 208.850 | 6108.54 | -820.90 | -39.56 | -2616.36 | 1684907.01 | 14226537.98 | 39°10'38.3451"N | 80°50'34.8240"W | 2616.66 | 269.134 | 8.45 | 3.62 | -15.24 | |
| 6754.00† | 31.765 | 207.505 | 6118.79 | -816.67 | -45.06 | -2619.31 | 1684904.07 | 14226532.49 | 39°10'38.2907"N | 80°50'34.8615"W | 2619.69 | 269.014 | 9.27 | 7.21 | -11.21 | Sycamore: 6754' MD |
| 6792.00 | 34.590 | 203.650 | 6150.59 | -801.89 | -63.82 | -2628.25 | 1684895.13 | 14226513.73 | 39°10'38.1055"N | 80°50'34.9755"W | 2629.03 | 268.609 | 9.27 | 7.43 | -10.14 | |
| 6836.00 | 37.110 | 198.700 | 6186.26 | -782.24 | -87.84 | -2637.52 | 1684885.86 | 14226489.72 | 39°10'37.8682"N | 80°50'35.0938"W | 2638.99 | 268.092 | 8.73 | 5.73 | -11.25 | |
| 6886.00 | 41.400 | 192.020 | 6224.99 | -756.16 | -118.33 | -2645.81 | 1684877.58 | 14226459.25 | 39°10'37.5670"N | 80°50'35.1997"W | 2648.46 | 267.439 | 12.04 | 8.58 | -13.36 | |
| 6931.00 | 45.810 | 187.770 | 6257.57 | -729.02 | -148.89 | -2651.09 | 1684872.29 | 14226428.70 | 39°10'37.2651"N | 80°50'35.2674"W | 2655.27 | 266.786 | 11.76 | 9.80 | -9.44 | |
| 6981.00 | 51.270 | 184.820 | 6290.67 | -695.19 | -186.12 | -2655.16 | 1684868.23 | 14226391.49 | 39°10'36.8972"N | 80°50'35.3199"W | 2661.68 | 265.990 | 11.78 | 10.92 | -5.90 | |
| 6999.00† | 53.225 | 183.873 | 6301.69 | -682.14 | -200.31 | -2656.24 | 1684867.15 | 14226377.30 | 39°10'36.7570"N | 80°50'35.3339"W | 2663.78 | 265.687 | 11.63 | 10.86 | -5.26 | Middlesex: 6999' MD |
| 7026.00 | 56.170 | 182.540 | 6317.29 | -661.76 | -222.30 | -2657.46 | 1684865.93 | 14226355.31 | 39°10'36.5396"N | 80°50'35.3499"W | 2666.75 | 265.218 | 11.63 | 10.91 | -4.94 | |
| 7078.00 | 60.490 | 176.580 | 6344.60 | -619.86 | -266.52 | -2657.07 | 1684866.32 | 14226311.12 | 39°10'36.1025"N | 80°50'35.3459"W | 2670.40 | 264.272 | 12.81 | 8.31 | -11.46 | |
| 7120.00 | 60.560 | 171.590 | 6365.28 | -584.29 | -302.87 | -2653.30 | 1684870.08 | 14226274.78 | 39°10'35.7432"N | 80°50'35.2989"W | 2670.54 | 263.488 | 10.34 | 0.17 | -11.88 | |
| 7170.00 | 60.170 | 164.360 | 6390.03 | -541.21 | -345.34 | -2644.26 | 1684879.12 | 14226232.33 | 39°10'35.3233"N | 80°50'35.1850"W | 2666.72 | 262.559 | 12.59 | -0.78 | -14.46 | |
| 7215.00 | 60.090 | 159.620 | 6412.45 | -502.21 | -382.43 | -2632.21 | 1684891.18 | 14226195.25 | 39°10'34.9565"N | 80°50'35.0327"W | 2659.84 | 261.733 | 9.14 | -0.18 | -10.53 | |
| 7227.00† | 60.383 | 159.627 | 6418.41 | -491.79 | -392.19 | -2628.58 | 1684894.80 | 14226185.49 | 39°10'34.8599"N | 80°50'34.9869"W | 2657.68 | 261.514 | 2.44 | 2.44 | 0.06 | Burkett: 7227' MD |
| 7265.00 | 61.310 | 159.650 | 6436.92 | -458.62 | -423.31 | -2617.03 | 1684906.34 | 14226154.39 | 39°10'34.5522"N | 80°50'34.8409"W | 2651.05 | 260.812 | 2.44 | 2.44 | 0.06 | |

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Actual Wellpath Report

Stope Unit 1H AWP Proj: 18528'
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| REFERENCE WELLPATH IDENTIFICATION | | | | |
|-----------------------------------|------------------------------|--|----------|-------------------|
| Operator | ANTERO RESOURCES CORPORATION | | Well | Stope Unit 1H |
| Field | Doddridge | | API | 47-017-06947-0000 |
| Facility | Locke Pad | | Wellbore | Stope Unit 1H AWB |
| Slot | Slot A | | | |

| WELLPATH DATA (213 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 | |
| 7310.00 | 65.880 | 159.470 | 6456.93 | -418.33 | -461.06 | -2602.96 | 1684920.41 | 14226116.65 | 39°10'34.1787"N | 80°50'34.6631"W | 2643.48 | 259.955 | 10.16 | 10.16 | -0.40 | | |
| 7338.00† | 68.618 | 159.385 | 6467.75 | -392.52 | -485.24 | -2593.89 | 1684929.48 | 14226092.49 | 39°10'33.9397"N | 80°50'34.5484"W | 2638.88 | 259.404 | 9.78 | 9.78 | -0.30 | Tully: 7338' MD | |
| 7360.00 | 70.770 | 159.320 | 6475.39 | -371.90 | -504.54 | -2586.61 | 1684936.75 | 14226073.19 | 39°10'33.7487"N | 80°50'34.4564"W | 2635.36 | 258.963 | 9.78 | 9.78 | -0.29 | | |
| 7404.00 | 74.170 | 159.380 | 6488.64 | -329.96 | -543.80 | -2571.82 | 1684951.54 | 14226033.95 | 39°10'33.3605"N | 80°50'34.2694"W | 2628.68 | 258.061 | 7.73 | 7.73 | 0.14 | | |
| 7410.00† | 74.766 | 159.412 | 6490.24 | -324.18 | -549.21 | -2569.78 | 1684953.57 | 14226028.54 | 39°10'33.3070"N | 80°50'34.2437"W | 2627.82 | 257.936 | 9.95 | 9.94 | 0.53 | Marcellus POE: 7410' MD | |
| 7454.00 | 79.140 | 159.640 | 6500.17 | -281.34 | -589.36 | -2554.79 | 1684968.56 | 14225988.41 | 39°10'32.9099"N | 80°50'34.0543"W | 2621.89 | 257.010 | 9.95 | 9.94 | 0.52 | | |
| 7499.00 | 83.990 | 160.200 | 6506.77 | -236.84 | -631.15 | -2539.52 | 1684983.83 | 14225946.63 | 39°10'32.4965"N | 80°50'33.8612"W | 2616.77 | 256.043 | 10.85 | 10.78 | 1.24 | | |
| 7593.00 | 89.570 | 158.820 | 6512.05 | -143.06 | -719.03 | -2506.68 | 1685016.66 | 14225858.79 | 39°10'31.6274"N | 80°50'33.4461"W | 2607.76 | 253.995 | 6.11 | 5.94 | -1.47 | | |
| 7688.00 | 89.480 | 159.130 | 6512.84 | -48.11 | -807.70 | -2472.59 | 1685050.72 | 14225770.15 | 39°10'30.7504"N | 80°50'33.0153"W | 2601.17 | 251.910 | 0.34 | -0.09 | 0.33 | | |
| 7782.00 | 89.510 | 159.270 | 6513.67 | 45.85 | -895.57 | -2439.21 | 1685084.09 | 14225682.32 | 39°10'29.8813"N | 80°50'32.5934"W | 2598.42 | 249.839 | 0.15 | 0.03 | 0.15 | | |
| 7877.00 | 89.600 | 161.380 | 6514.41 | 140.83 | -985.02 | -2407.23 | 1685116.06 | 14225592.91 | 39°10'28.9967"N | 80°50'32.1893"W | 2600.97 | 247.746 | 2.22 | 0.09 | 2.22 | | |
| 7972.00 | 89.910 | 159.790 | 6514.81 | 235.83 | -1074.61 | -2375.65 | 1685147.62 | 14225503.35 | 39°10'28.1106"N | 80°50'31.7903"W | 2607.40 | 245.661 | 1.71 | 0.33 | -1.67 | | |
| 8066.00 | 89.010 | 160.940 | 6515.70 | 329.82 | -1163.14 | -2344.07 | 1685179.20 | 14225414.86 | 39°10'27.2351"N | 80°50'31.3912"W | 2616.78 | 243.609 | 1.55 | -0.96 | 1.22 | | |
| 8161.00 | 89.080 | 161.150 | 6517.28 | 424.80 | -1252.97 | -2313.22 | 1685210.04 | 14225325.06 | 39°10'26.3466"N | 80°50'31.0014"W | 2630.76 | 241.557 | 0.23 | 0.07 | 0.22 | | |
| 8256.00 | 88.830 | 161.400 | 6519.01 | 519.79 | -1342.93 | -2282.72 | 1685240.52 | 14225235.14 | 39°10'25.4570"N | 80°50'30.6162"W | 2648.45 | 239.532 | 0.37 | -0.26 | 0.26 | | |
| 8350.00 | 90.120 | 160.230 | 6519.88 | 613.78 | -1431.70 | -2251.84 | 1685271.39 | 14225146.40 | 39°10'24.5790"N | 80°50'30.2260"W | 2668.43 | 237.552 | 1.85 | 1.37 | -1.24 | | |
| 8444.00 | 90.090 | 160.870 | 6519.70 | 707.78 | -1520.34 | -2220.54 | 1685302.68 | 14225057.80 | 39°10'23.7024"N | 80°50'29.8305"W | 2691.13 | 235.602 | 0.68 | -0.03 | 0.68 | | |
| 8539.00 | 89.880 | 161.350 | 6519.73 | 802.78 | -1610.22 | -2189.78 | 1685333.43 | 14224967.95 | 39°10'22.8135"N | 80°50'29.4420"W | 2718.08 | 233.672 | 0.55 | -0.22 | 0.51 | | |
| 8634.00 | 90.060 | 161.170 | 6519.78 | 897.77 | -1700.18 | -2159.26 | 1685363.93 | 14224878.03 | 39°10'21.9238"N | 80°50'29.0565"W | 2748.28 | 231.783 | 0.27 | 0.19 | -0.19 | | |
| 8728.00 | 88.460 | 161.490 | 6520.99 | 991.76 | -1789.23 | -2129.17 | 1685394.01 | 14224789.02 | 39°10'21.0431"N | 80°50'28.6764"W | 2781.13 | 229.958 | 1.74 | -1.70 | 0.34 | | |
| 8823.00 | 88.400 | 161.210 | 6523.59 | 1086.72 | -1879.20 | -2098.80 | 1685424.37 | 14224699.08 | 39°10'20.1533"N | 80°50'28.2928"W | 2817.16 | 228.160 | 0.30 | -0.06 | -0.29 | | |
| 8917.00 | 87.410 | 162.080 | 6527.03 | 1180.64 | -1968.36 | -2069.22 | 1685453.93 | 14224609.96 | 39°10'19.2716"N | 80°50'27.9192"W | 2855.89 | 226.431 | 1.40 | -1.05 | 0.93 | | |
| 9011.00 | 89.050 | 160.000 | 6529.93 | 1274.59 | -2057.21 | -2038.70 | 1685484.45 | 14224521.14 | 39°10'18.3929"N | 80°50'27.5336"W | 2896.27 | 224.741 | 2.82 | 1.74 | -2.21 | | |
| 9106.00 | 88.770 | 162.540 | 6531.74 | 1369.56 | -2147.16 | -2008.20 | 1685514.93 | 14224431.23 | 39°10'17.5033"N | 80°50'27.1484"W | 2939.92 | 223.085 | 2.69 | -0.29 | 2.67 | | |
| 9200.00 | 91.260 | 160.660 | 6531.72 | 1463.54 | -2236.34 | -1978.53 | 1685544.59 | 14224342.08 | 39°10'16.6213"N | 80°50'26.7737"W | 2985.93 | 221.500 | 3.32 | 2.65 | -2.00 | | |
| 9294.00 | 88.680 | 160.960 | 6531.77 | 1557.54 | -2325.11 | -1947.64 | 1685575.47 | 14224253.35 | 39°10'15.7434"N | 80°50'26.3834"W | 3033.05 | 219.951 | 2.76 | -2.74 | 0.32 | | |
| 9388.00 | 92.190 | 161.990 | 6531.05 | 1651.51 | -2414.22 | -1917.78 | 1685605.32 | 14224164.27 | 39°10'14.8621"N | 80°50'26.0062"W | 3083.23 | 218.462 | 3.89 | 3.73 | 1.10 | | |
| 9483.00 | 89.820 | 159.680 | 6529.39 | 1746.48 | -2503.93 | -1886.60 | 1685636.49 | 14224074.60 | 39°10'13.9749"N | 80°50'25.6123"W | 3135.11 | 216.996 | 3.48 | -2.49 | -2.43 | | |
| 9577.00 | 89.820 | 160.380 | 6529.68 | 1840.47 | -2592.27 | -1854.49 | 1685668.58 | 14223986.29 | 39°10'13.1011"N | 80°50'25.2067"W | 3187.32 | 215.580 | 0.74 | 0.00 | 0.74 | | |
| 9671.00 | 90.580 | 160.290 | 6529.35 | 1934.47 | -2680.79 | -1822.86 | 1685700.20 | 14223897.81 | 39°10'12.2257"N | 80°50'24.8070"W | 3241.83 | 214.215 | 0.81 | 0.81 | -0.10 | | |

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Actual Wellpath Report

Stope Unit 1H AWP Proj: 18528'
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| REFERENCE WELLPATH IDENTIFICATION | | | | |
|-----------------------------------|------------------------------|--|----------|-------------------|
| Operator | ANTERO RESOURCES CORPORATION | | Well | Stope Unit 1H |
| Field | Doddridge | | API | 47-017-06947-0000 |
| Facility | Locke Pad | | Wellbore | Stope Unit 1H AWB |
| Slot | Slot A | | | |

| WELLPATH DATA (213 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 |
| 9766.00 | 90.460 | 161.010 | 6528.49 | 2029.46 | -2770.42 | -1791.39 | 1685731.66 | 14223808.22 | 39°10'11.3393"N | 80°50'24.4094"W | 3299.14 | 212.887 | 0.77 | -0.13 | 0.76 | |
| 9860.00 | 90.680 | 161.250 | 6527.56 | 2123.46 | -2859.36 | -1760.99 | 1685762.05 | 14223719.31 | 39°10'10.4596"N | 80°50'24.0254"W | 3358.13 | 211.628 | 0.35 | 0.23 | 0.26 | |
| 9955.00 | 88.890 | 161.830 | 6527.91 | 2218.45 | -2949.47 | -1730.91 | 1685792.11 | 14223629.24 | 39°10'9.5685"N | 80°50'23.6455"W | 3419.86 | 210.407 | 1.98 | -1.88 | 0.61 | |
| 10049.00 | 91.230 | 159.870 | 6527.81 | 2312.43 | -3038.26 | -1700.07 | 1685822.93 | 14223540.48 | 39°10'8.6904"N | 80°50'23.2560"W | 3481.56 | 209.229 | 3.25 | 2.49 | -2.09 | |
| 10144.00 | 90.830 | 161.720 | 6526.11 | 2407.41 | -3127.95 | -1668.83 | 1685854.17 | 14223450.83 | 39°10'7.8033"N | 80°50'22.8614"W | 3545.29 | 208.081 | 1.99 | -0.42 | 1.95 | |
| 10238.00 | 88.310 | 158.600 | 6526.81 | 2501.39 | -3216.35 | -1636.94 | 1685886.05 | 14223362.46 | 39°10'6.9290"N | 80°50'22.4584"W | 3608.95 | 206.973 | 4.27 | -2.68 | -3.32 | |
| 10333.00 | 91.230 | 161.620 | 6527.19 | 2596.36 | -3305.67 | -1604.62 | 1685918.35 | 14223273.18 | 39°10'6.0457"N | 80°50'22.0501"W | 3674.54 | 205.893 | 4.42 | 3.07 | 3.18 | |
| 10428.00 | 88.150 | 160.400 | 6527.71 | 2691.34 | -3395.48 | -1573.71 | 1685949.24 | 14223183.40 | 39°10'5.1574"N | 80°50'21.6597"W | 3742.44 | 204.866 | 3.49 | -3.24 | -1.28 | |
| 10522.00 | 91.230 | 161.220 | 6528.22 | 2785.33 | -3484.25 | -1542.82 | 1685980.12 | 14223094.68 | 39°10'4.2795"N | 80°50'21.2695"W | 3810.55 | 203.884 | 3.39 | 3.28 | 0.87 | |
| 10617.00 | 91.170 | 161.530 | 6526.23 | 2880.30 | -3574.25 | -1512.49 | 1686010.45 | 14223004.71 | 39°10'3.3894"N | 80°50'20.8864"W | 3881.09 | 202.936 | 0.33 | -0.06 | 0.33 | |
| 10712.00 | 88.460 | 161.370 | 6526.53 | 2975.29 | -3664.31 | -1482.27 | 1686040.65 | 14222914.69 | 39°10'2.4988"N | 80°50'20.5047"W | 3952.75 | 202.024 | 2.86 | -2.85 | -0.17 | |
| 10806.00 | 91.290 | 160.140 | 6526.74 | 3069.28 | -3753.04 | -1451.29 | 1686071.62 | 14222825.99 | 39°10'1.6212"N | 80°50'20.1134"W | 4023.87 | 201.141 | 3.28 | 3.01 | -1.31 | |
| 10901.00 | 89.660 | 161.200 | 6525.95 | 3164.27 | -3842.68 | -1419.85 | 1686103.05 | 14222736.39 | 39°10'0.7346"N | 80°50'19.7162"W | 4096.60 | 200.279 | 2.05 | -1.72 | 1.12 | |
| 10995.00 | 90.250 | 161.110 | 6526.02 | 3258.27 | -3931.64 | -1389.48 | 1686133.40 | 14222647.46 | 39°09'59.8548"N | 80°50'19.3327"W | 4169.95 | 199.464 | 0.63 | 0.63 | -0.10 | |
| 11090.00 | 90.460 | 160.630 | 6525.44 | 3353.26 | -4021.39 | -1358.35 | 1686164.52 | 14222557.74 | 39°09'58.9672"N | 80°50'18.9395"W | 4244.61 | 198.664 | 0.55 | 0.22 | -0.51 | |
| 11184.00 | 89.780 | 161.270 | 6525.24 | 3447.26 | -4110.24 | -1327.67 | 1686195.19 | 14222468.93 | 39°09'58.0884"N | 80°50'18.5519"W | 4319.35 | 197.901 | 0.99 | -0.72 | 0.68 | |
| 11279.00 | 90.280 | 161.700 | 6525.19 | 3542.26 | -4200.33 | -1297.50 | 1686225.35 | 14222378.88 | 39°09'57.1975"N | 80°50'18.1710"W | 4396.16 | 197.166 | 0.89 | 0.53 | 0.45 | |
| 11373.00 | 89.880 | 161.040 | 6525.06 | 3636.25 | -4289.40 | -1267.47 | 1686255.36 | 14222289.84 | 39°09'56.3166"N | 80°50'17.7917"W | 4472.74 | 196.462 | 0.82 | -0.43 | -0.70 | |
| 11468.00 | 89.320 | 160.370 | 6525.72 | 3731.25 | -4379.06 | -1236.08 | 1686286.74 | 14222200.22 | 39°09'55.4299"N | 80°50'17.3952"W | 4550.17 | 195.763 | 0.92 | -0.59 | -0.71 | |
| 11562.00 | 89.510 | 160.560 | 6526.68 | 3825.24 | -4467.64 | -1204.65 | 1686318.16 | 14222111.67 | 39°09'54.5537"N | 80°50'16.9982"W | 4627.21 | 195.090 | 0.29 | 0.20 | 0.20 | |
| 11657.00 | 90.030 | 161.140 | 6527.06 | 3920.24 | -4557.39 | -1173.49 | 1686349.31 | 14222021.96 | 39°09'53.6662"N | 80°50'16.6046"W | 4706.04 | 194.440 | 0.82 | 0.55 | 0.61 | |
| 11751.00 | 89.720 | 161.390 | 6527.27 | 4014.24 | -4646.40 | -1143.30 | 1686379.49 | 14221932.98 | 39°09'52.7858"N | 80°50'16.2233"W | 4785.00 | 193.824 | 0.42 | -0.33 | 0.27 | |
| 11846.00 | 89.230 | 160.800 | 6528.14 | 4109.23 | -4736.28 | -1112.52 | 1686410.25 | 14221843.15 | 39°09'51.8970"N | 80°50'15.8346"W | 4865.18 | 193.219 | 0.81 | -0.52 | -0.62 | |
| 11940.00 | 89.420 | 160.460 | 6529.25 | 4203.22 | -4824.95 | -1081.35 | 1686441.42 | 14221754.51 | 39°09'51.0200"N | 80°50'15.4408"W | 4944.64 | 192.632 | 0.41 | 0.20 | -0.36 | |
| 12035.00 | 89.940 | 160.060 | 6529.78 | 4298.22 | -4914.36 | -1049.26 | 1686473.49 | 14221665.13 | 39°09'50.1357"N | 80°50'15.0355"W | 5025.13 | 192.052 | 0.69 | 0.55 | -0.42 | |
| 12129.00 | 90.490 | 161.570 | 6529.42 | 4392.21 | -5003.14 | -1018.37 | 1686504.37 | 14221576.39 | 39°09'49.2577"N | 80°50'14.6453"W | 5105.73 | 191.505 | 1.71 | 0.59 | 1.61 | |
| 12224.00 | 90.120 | 161.870 | 6528.92 | 4487.20 | -5093.34 | -988.57 | 1686534.15 | 14221486.22 | 39°09'48.3656"N | 80°50'14.2691"W | 5188.39 | 190.984 | 0.50 | -0.39 | 0.32 | |
| 12318.00 | 89.780 | 160.880 | 6529.00 | 4581.19 | -5182.42 | -958.55 | 1686564.16 | 14221397.18 | 39°09'47.4846"N | 80°50'13.8900"W | 5270.32 | 190.479 | 1.11 | -0.36 | -1.05 | |
| 12413.00 | 89.380 | 160.730 | 6529.70 | 4676.19 | -5272.14 | -927.32 | 1686595.38 | 14221307.50 | 39°09'46.5973"N | 80°50'13.4955"W | 5353.07 | 189.976 | 0.45 | -0.42 | -0.16 | |
| 12507.00 | 89.540 | 160.090 | 6530.58 | 4770.18 | -5360.69 | -895.80 | 1686626.88 | 14221218.98 | 39°09'45.7215"N | 80°50'13.0974"W | 5435.02 | 189.487 | 0.70 | 0.17 | -0.68 | |

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Actual Wellpath Report

Stope Unit 1H AWP Proj: 18528'
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| REFERENCE WELLPATH IDENTIFICATION | | | |
|-----------------------------------|------------------------------|----------|-------------------|
| Operator | ANTERO RESOURCES CORPORATION | Well | Stope Unit 1H |
| Field | Doddridge | API | 47-017-06947-0000 |
| Facility | Locke Pad | Wellbore | Stope Unit 1H AWB |
| Slot | Slot A | | |

| WELLPATH DATA (213 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 |
| 12602.00 | 89.660 | 160.500 | 6531.25 | 4865.18 | -5450.13 | -863.77 | 1686658.90 | 14221129.58 | 39°09'44.8369"N | 80°50'12.6928"W | 5518.15 | 189.006 | 0.45 | 0.13 | 0.43 | |
| 12696.00 | 90.280 | 160.020 | 6531.29 | 4959.17 | -5538.60 | -832.02 | 1686690.64 | 14221041.14 | 39°09'43.9619"N | 80°50'12.2918"W | 5600.75 | 188.543 | 0.83 | 0.66 | -0.51 | |
| 12791.00 | 90.120 | 160.990 | 6530.96 | 5054.17 | -5628.15 | -800.32 | 1686722.33 | 14220951.63 | 39°09'43.0762"N | 80°50'11.8913"W | 5684.77 | 188.093 | 1.03 | -0.17 | 1.02 | |
| 12885.00 | 89.630 | 161.210 | 6531.17 | 5148.17 | -5717.08 | -769.87 | 1686752.76 | 14220862.73 | 39°09'42.1967"N | 80°50'11.5068"W | 5768.69 | 187.669 | 0.57 | -0.52 | 0.23 | |
| 12980.00 | 89.350 | 160.110 | 6532.01 | 5243.16 | -5806.72 | -738.41 | 1686784.21 | 14220773.13 | 39°09'41.3102"N | 80°50'11.1095"W | 5853.48 | 187.247 | 1.19 | -0.29 | -1.16 | |
| 13074.00 | 90.430 | 160.650 | 6532.19 | 5337.16 | -5895.26 | -706.85 | 1686815.76 | 14220684.63 | 39°09'40.4345"N | 80°50'10.7108"W | 5937.48 | 186.837 | 1.28 | 1.15 | 0.57 | |
| 13169.00 | 90.400 | 161.000 | 6531.51 | 5432.15 | -5984.99 | -675.65 | 1686846.95 | 14220594.94 | 39°09'39.5471"N | 80°50'10.3167"W | 6023.00 | 186.441 | 0.37 | -0.03 | 0.37 | |
| 13358.00 | 89.880 | 161.160 | 6531.04 | 5621.15 | -6163.77 | -614.37 | 1686908.21 | 14220416.22 | 39°09'37.7789"N | 80°50'9.5428"W | 6194.32 | 185.692 | 0.29 | -0.28 | 0.08 | |
| 13452.00 | 89.320 | 161.160 | 6531.70 | 5715.15 | -6252.73 | -584.01 | 1686938.55 | 14220327.29 | 39°09'36.8990"N | 80°50'9.1595"W | 6279.95 | 185.336 | 0.60 | -0.60 | 0.00 | |
| 13641.00 | 89.780 | 161.300 | 6533.18 | 5904.14 | -6431.68 | -523.20 | 1686999.34 | 14220148.42 | 39°09'35.1293"N | 80°50'8.3916"W | 6452.92 | 184.651 | 0.25 | 0.24 | 0.07 | |
| 13736.00 | 89.940 | 160.950 | 6533.42 | 5999.13 | -6521.57 | -492.47 | 1687030.06 | 14220058.57 | 39°09'34.2402"N | 80°50'8.0035"W | 6540.14 | 184.318 | 0.41 | 0.17 | -0.37 | |
| 13831.00 | 89.720 | 160.860 | 6533.70 | 6094.13 | -6611.34 | -461.39 | 1687061.13 | 14219968.83 | 39°09'33.3524"N | 80°50'7.6110"W | 6627.42 | 183.992 | 0.25 | -0.23 | -0.09 | |
| 13925.00 | 89.540 | 161.140 | 6534.31 | 6188.13 | -6700.22 | -430.79 | 1687091.72 | 14219879.99 | 39°09'32.4734"N | 80°50'7.2246"W | 6714.05 | 183.679 | 0.35 | -0.19 | 0.30 | |
| 14020.00 | 89.750 | 161.290 | 6534.89 | 6283.13 | -6790.16 | -400.20 | 1687122.29 | 14219790.09 | 39°09'31.5839"N | 80°50'6.8383"W | 6801.94 | 183.373 | 0.27 | 0.22 | 0.16 | |
| 14114.00 | 89.940 | 161.590 | 6535.15 | 6377.12 | -6879.27 | -370.28 | 1687152.20 | 14219701.01 | 39°09'30.7026"N | 80°50'6.4605"W | 6889.22 | 183.081 | 0.38 | 0.20 | 0.32 | |
| 14209.00 | 89.570 | 161.140 | 6535.55 | 6472.12 | -6969.28 | -339.92 | 1687182.55 | 14219611.03 | 39°09'29.8123"N | 80°50'6.0773"W | 6977.57 | 182.792 | 0.61 | -0.39 | -0.47 | |
| 14304.00 | 90.800 | 159.650 | 6535.25 | 6567.11 | -7058.77 | -308.05 | 1687214.41 | 14219521.58 | 39°09'28.9273"N | 80°50'5.6747"W | 7065.49 | 182.499 | 2.03 | 1.29 | -1.57 | |
| 14398.00 | 90.490 | 161.610 | 6534.19 | 6661.10 | -7147.44 | -276.87 | 1687245.57 | 14219432.94 | 39°09'28.0503"N | 80°50'5.2810"W | 7152.80 | 182.218 | 2.11 | -0.33 | 2.09 | |
| 14493.00 | 90.030 | 161.210 | 6533.76 | 6756.09 | -7237.48 | -246.59 | 1687275.84 | 14219342.94 | 39°09'27.1598"N | 80°50'4.8986"W | 7241.68 | 181.951 | 0.64 | -0.48 | -0.42 | |
| 14587.00 | 90.250 | 160.140 | 6533.53 | 6850.09 | -7326.19 | -215.48 | 1687306.93 | 14219254.27 | 39°09'26.2825"N | 80°50'4.5058"W | 7329.35 | 181.685 | 1.16 | 0.23 | -1.14 | |
| 14682.00 | 91.110 | 160.790 | 6532.40 | 6945.08 | -7415.71 | -183.72 | 1687338.69 | 14219164.78 | 39°09'25.3971"N | 80°50'4.1046"W | 7417.98 | 181.419 | 1.13 | 0.91 | 0.68 | |
| 14777.00 | 90.340 | 160.470 | 6531.20 | 7040.07 | -7505.32 | -152.21 | 1687370.18 | 14219075.20 | 39°09'24.5108"N | 80°50'3.7068"W | 7506.87 | 181.162 | 0.88 | -0.81 | -0.34 | |
| 14871.00 | 90.520 | 160.910 | 6530.49 | 7134.07 | -7594.03 | -121.13 | 1687401.25 | 14218986.53 | 39°09'23.6334"N | 80°50'3.3142"W | 7595.00 | 180.914 | 0.51 | 0.19 | 0.47 | |
| 14965.00 | 90.550 | 160.910 | 6529.62 | 7228.06 | -7682.86 | -90.39 | 1687431.98 | 14218897.74 | 39°09'22.7549"N | 80°50'2.9261"W | 7683.39 | 180.674 | 0.03 | 0.03 | 0.00 | |
| 15060.00 | 90.430 | 160.990 | 6528.80 | 7323.06 | -7772.65 | -59.38 | 1687462.97 | 14218807.98 | 39°09'21.8668"N | 80°50'2.5345"W | 7772.88 | 180.438 | 0.15 | -0.13 | 0.08 | |
| 15154.00 | 90.220 | 160.860 | 6528.27 | 7417.06 | -7861.49 | -28.66 | 1687493.68 | 14218719.18 | 39°09'20.9882"N | 80°50'2.1466"W | 7861.54 | 180.209 | 0.26 | -0.22 | -0.14 | |
| 15249.00 | 90.180 | 161.260 | 6527.94 | 7512.06 | -7951.35 | 2.17 | 1687524.50 | 14218629.36 | 39°09'20.0995"N | 80°50'1.7573"W | 7951.35 | 179.984 | 0.42 | -0.04 | 0.42 | |
| 15343.00 | 90.120 | 160.340 | 6527.69 | 7606.05 | -8040.12 | 33.09 | 1687555.40 | 14218540.62 | 39°09'19.2215"N | 80°50'1.3669"W | 8040.18 | 179.764 | 0.98 | -0.06 | -0.98 | |
| 15438.00 | 90.220 | 160.880 | 6527.41 | 7701.05 | -8129.73 | 64.63 | 1687586.93 | 14218451.05 | 39°09'18.3353"N | 80°50'0.9687"W | 8129.98 | 179.545 | 0.58 | 0.11 | 0.57 | |
| 15532.00 | 90.220 | 161.120 | 6527.05 | 7795.05 | -8218.61 | 95.23 | 1687617.52 | 14218362.21 | 39°09'17.4562"N | 80°50'0.5823"W | 8219.16 | 179.336 | 0.26 | 0.00 | 0.26 | |



Actual Wellpath Report

Stope Unit 1H AWP Proj: 18528'
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| REFERENCE WELLPATH IDENTIFICATION | | | |
|-----------------------------------|------------------------------|----------|-------------------|
| Operator | ANTERO RESOURCES CORPORATION | Well | Stope Unit 1H |
| Field | Doddridge | API | 47-017-06947-0000 |
| Facility | Locke Pad | Wellbore | Stope Unit 1H AWB |
| Slot | Slot A | | |

| WELLPATH DATA (213 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 |
| 15627.00 | 90.280 | 160.680 | 6526.64 | 7890.05 | -8308.37 | 126.31 | 1687648.59 | 14218272.47 | 39°09'16.5684"N | 80°50'0.1897"W | 8309.34 | 179.129 | 0.47 | 0.06 | -0.46 | |
| 15721.00 | 90.400 | 160.780 | 6526.08 | 7984.05 | -8397.11 | 157.33 | 1687679.60 | 14218183.78 | 39°09'15.6908"N | 80°49'59.7980"W | 8398.58 | 178.927 | 0.17 | 0.13 | 0.11 | |
| 15816.00 | 90.370 | 161.110 | 6525.44 | 8079.05 | -8486.90 | 188.35 | 1687710.60 | 14218094.02 | 39°09'14.8028"N | 80°49'59.4064"W | 8488.99 | 178.729 | 0.35 | -0.03 | 0.35 | |
| 15911.00 | 90.520 | 161.010 | 6524.70 | 8174.04 | -8576.75 | 219.18 | 1687741.43 | 14218004.20 | 39°09'13.9141"N | 80°49'59.0171"W | 8579.55 | 178.536 | 0.19 | 0.16 | -0.11 | |
| 16005.00 | 90.340 | 160.760 | 6524.00 | 8268.04 | -8665.57 | 249.96 | 1687772.19 | 14217915.42 | 39°09'13.0357"N | 80°49'58.6285"W | 8669.17 | 178.348 | 0.33 | -0.19 | -0.27 | |
| 16100.00 | 90.580 | 160.880 | 6523.23 | 8363.04 | -8755.29 | 281.17 | 1687803.39 | 14217825.74 | 39°09'12.1483"N | 80°49'58.2344"W | 8759.81 | 178.161 | 0.28 | 0.25 | 0.13 | |
| 16195.00 | 90.400 | 160.810 | 6522.42 | 8458.03 | -8845.03 | 312.34 | 1687834.55 | 14217736.03 | 39°09'11.2608"N | 80°49'57.8408"W | 8850.54 | 177.978 | 0.20 | -0.19 | -0.07 | |
| 16289.00 | 90.950 | 161.490 | 6521.31 | 8552.02 | -8933.98 | 342.71 | 1687864.91 | 14217647.12 | 39°09'10.3810"N | 80°49'57.4574"W | 8940.55 | 177.803 | 0.93 | 0.59 | 0.72 | |
| 16384.00 | 89.970 | 161.150 | 6520.55 | 8647.02 | -9023.97 | 373.14 | 1687895.32 | 14217557.16 | 39°09'9.4910"N | 80°49'57.0733"W | 9031.68 | 177.632 | 1.09 | -1.03 | -0.36 | |
| 16478.00 | 90.120 | 161.070 | 6520.48 | 8741.02 | -9112.91 | 403.57 | 1687925.74 | 14217468.26 | 39°09'8.6114"N | 80°49'56.6891"W | 9121.84 | 177.464 | 0.18 | 0.16 | -0.09 | |
| 16572.00 | 90.180 | 160.920 | 6520.23 | 8835.02 | -9201.78 | 434.18 | 1687956.34 | 14217379.42 | 39°09'7.7324"N | 80°49'56.3026"W | 9212.02 | 177.299 | 0.17 | 0.06 | -0.16 | |
| 16667.00 | 90.120 | 160.960 | 6519.98 | 8930.01 | -9291.58 | 465.21 | 1687987.35 | 14217289.67 | 39°09'6.8443"N | 80°49'55.9109"W | 9303.21 | 177.134 | 0.08 | -0.06 | 0.04 | |
| 16762.00 | 90.280 | 161.100 | 6519.65 | 9025.01 | -9381.42 | 496.09 | 1688018.22 | 14217199.86 | 39°09'5.9558"N | 80°49'55.5210"W | 9394.52 | 176.973 | 0.22 | 0.17 | 0.15 | |
| 16856.00 | 90.220 | 161.170 | 6519.24 | 9119.01 | -9470.37 | 526.48 | 1688048.60 | 14217110.95 | 39°09'5.0761"N | 80°49'55.1373"W | 9484.99 | 176.818 | 0.10 | -0.06 | 0.07 | |
| 16951.00 | 90.310 | 161.240 | 6518.80 | 9214.01 | -9560.30 | 557.09 | 1688079.20 | 14217021.05 | 39°09'4.1866"N | 80°49'54.7509"W | 9576.52 | 176.665 | 0.12 | 0.09 | 0.07 | |
| 17045.00 | 90.150 | 161.020 | 6518.42 | 9308.01 | -9649.25 | 587.49 | 1688109.58 | 14216932.14 | 39°09'3.3069"N | 80°49'54.3671"W | 9667.11 | 176.516 | 0.29 | -0.17 | -0.23 | |
| 17140.00 | 90.310 | 160.920 | 6518.04 | 9403.01 | -9739.05 | 618.46 | 1688140.55 | 14216842.37 | 39°09'2.4187"N | 80°49'53.9760"W | 9758.67 | 176.366 | 0.20 | 0.17 | -0.11 | |
| 17234.00 | 90.280 | 161.160 | 6517.56 | 9497.00 | -9827.95 | 649.01 | 1688171.08 | 14216753.50 | 39°09'1.5395"N | 80°49'53.5904"W | 9849.36 | 176.222 | 0.26 | -0.03 | 0.26 | |
| 17329.00 | 90.250 | 160.910 | 6517.12 | 9592.00 | -9917.79 | 679.88 | 1688201.94 | 14216663.70 | 39°09'0.6509"N | 80°49'53.2007"W | 9941.07 | 176.078 | 0.27 | -0.03 | -0.26 | |
| 17423.00 | 90.280 | 161.050 | 6516.68 | 9686.00 | -10006.66 | 710.51 | 1688232.56 | 14216574.87 | 39°08'59.7720"N | 80°49'52.8139"W | 10031.85 | 175.939 | 0.15 | 0.03 | 0.15 | |
| 17517.00 | 90.150 | 160.940 | 6516.33 | 9780.00 | -10095.54 | 741.12 | 1688263.16 | 14216486.03 | 39°08'58.8930"N | 80°49'52.4274"W | 10122.70 | 175.801 | 0.18 | -0.14 | -0.12 | |
| 17612.00 | 90.090 | 160.740 | 6516.13 | 9875.00 | -10185.27 | 772.30 | 1688294.33 | 14216396.32 | 39°08'58.0054"N | 80°49'52.0338"W | 10214.51 | 175.664 | 0.22 | -0.06 | -0.21 | |
| 17706.00 | 90.150 | 161.020 | 6515.94 | 9969.00 | -10274.09 | 803.09 | 1688325.10 | 14216307.55 | 39°08'57.1270"N | 80°49'51.6451"W | 10305.43 | 175.530 | 0.30 | 0.06 | 0.30 | |
| 17801.00 | 90.280 | 161.240 | 6515.58 | 10064.00 | -10363.98 | 833.82 | 1688355.82 | 14216217.69 | 39°08'56.2380"N | 80°49'51.2572"W | 10397.47 | 175.400 | 0.27 | 0.14 | 0.23 | |
| 17895.00 | 90.250 | 161.260 | 6515.14 | 10157.99 | -10452.99 | 864.03 | 1688386.02 | 14216128.71 | 39°08'55.3576"N | 80°49'50.8758"W | 10488.64 | 175.275 | 0.04 | -0.03 | 0.02 | |
| 17990.00 | 90.490 | 161.020 | 6514.53 | 10252.99 | -10542.89 | 894.74 | 1688416.71 | 14216038.85 | 39°08'54.4685"N | 80°49'50.4881"W | 10580.79 | 175.149 | 0.36 | 0.25 | -0.25 | |
| 18084.00 | 90.460 | 161.090 | 6513.75 | 10346.99 | -10631.79 | 925.26 | 1688447.22 | 14215949.98 | 39°08'53.5892"N | 80°49'50.1029"W | 10671.98 | 175.026 | 0.08 | -0.03 | 0.07 | |
| 18179.00 | 90.280 | 161.200 | 6513.14 | 10441.98 | -10721.70 | 955.96 | 1688477.91 | 14215860.12 | 39°08'52.7001"N | 80°49'49.7153"W | 10764.23 | 174.905 | 0.22 | -0.19 | 0.12 | |
| 18273.00 | 89.660 | 160.640 | 6513.19 | 10535.98 | -10810.53 | 986.69 | 1688508.82 | 14215771.32 | 39°08'51.8215"N | 80°49'49.3274"W | 10855.46 | 174.785 | 0.89 | -0.66 | -0.60 | |
| 18367.00 | 90.250 | 161.030 | 6513.26 | 10629.98 | -10899.32 | 1017.55 | 1688539.47 | 14215682.56 | 39°08'50.9433"N | 80°49'48.9378"W | 10946.72 | 174.666 | 0.75 | 0.63 | 0.41 | |

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Actual Wellpath Report

Stope Unit 1H AWP Proj: 18528'
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| REFERENCE WELLPATH IDENTIFICATION | | | |
|-----------------------------------|------------------------------|----------|-------------------|
| Operator | ANTERO RESOURCES CORPORATION | Well | Stope Unit 1H |
| Field | Doddridge | API | 47-017-06947-0000 |
| Facility | Locke Pad | Wellbore | Stope Unit 1H AWB |
| Slot | Slot A | | |

| WELLPATH DATA (213 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 |
| 18462.00 | 90.120 | 161.110 | 6512.95 | 10724.98 | -10989.18 | 1048.37 | 1688570.28 | 14215592.74 | 39°08'50.0546"N | 80°49'48.5488"W | 11039.07 | 174.550 | 0.16 | -0.14 | 0.08 | |
| 18503.00 | 90.520 | 160.760 | 6512.73 | 10765.98 | -11027.93 | 1061.76 | 1688583.66 | 14215554.00 | 39°08'49.6713"N | 80°49'48.3797"W | 11078.93 | 174.501 | 1.30 | 0.98 | -0.85 | |
| 18528.00‡ | 90.520 | 160.760 | 6512.50 | 10790.98 | -11051.53 | 1070.00 | 1688591.90 | 14215530.41 | 39°08'49.4379"N | 80°49'48.2757"W | 11103.21 | 174.470 | 0.00 | 0.00 | 0.00 | Projected MD at TD: 18528' |

| HOLE & CASING SECTIONS - Ref Wellbore: Stope Unit 1H AWB Ref Wellpath: Stope Unit 1H AWP Proj: 18528' | | | | | | | | | |
|---|---------------|-------------|---------------|----------------|--------------|----------------|----------------|--------------|--------------|
| String/Diameter | Start MD [ft] | End MD [ft] | Interval [ft] | Start TVD [ft] | End TVD [ft] | Start N/S [ft] | Start E/W [ft] | End N/S [ft] | End E/W [ft] |
| 20in Conductor | 30.00 | 130.00 | 100.00 | 30.00 | 130.00 | 0.00 | 0.00 | 0.46 | -0.60 |
| 17.5in Open Hole | 130.00 | 458.00 | 328.00 | 130.00 | 457.99 | 0.46 | -0.60 | 1.23 | -2.72 |
| 13.375in Casing Surface | 30.00 | 438.00 | 408.00 | 30.00 | 437.99 | 0.00 | 0.00 | 1.20 | -2.60 |
| 12.25in Open Hole | 458.00 | 3051.00 | 2593.00 | 457.99 | 2844.44 | 1.23 | -2.72 | 13.56 | -931.31 |
| 9.625in Casing Intermediate | 30.00 | 3025.00 | 2995.00 | 30.00 | 2821.09 | 0.00 | 0.00 | 12.93 | -919.90 |
| 8.75in Open Hole | 3051.00 | 6292.00 | 3241.00 | 2844.44 | 5710.68 | 13.56 | -931.31 | 38.54 | -2436.71 |
| 8.5in Open Hole | 6292.00 | 18528.00 | 12236.00 | 5710.68 | 6512.50 | 38.54 | -2436.71 | -11051.53 | 1070.00 |
| 5.5in Casing Production | 30.00 | 18508.00 | 18478.00 | 30.00 | 6512.68 | 0.00 | 0.00 | -11032.65 | 1063.40 |



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REFERENCE WELLPATH IDENTIFICATION

| | | | |
|----------|------------------------------|----------|-------------------|
| Operator | ANTERO RESOURCES CORPORATION | Well | Stope Unit 1H |
| Field | Doddridge | API | 47-017-06947-0000 |
| Facility | Locke Pad | Wellbore | Stope Unit 1H AWB |
| Slot | Slot A | | |

TARGETS

| Name | TVD [ft] | North [ft] | East [ft] | Grid East [US ft] | Grid North [US ft] | Latitude | Longitude | Shape |
|---------------------------------|----------|------------|-----------|-------------------|--------------------|-----------------|-----------------|-----------|
| Stope Unit 1H POE Rev-2 | 6510.00 | -526.13 | -2579.69 | 1684943.67 | 14226051.61 | 39°10'33.5352"N | 80°50'34.3690"W | point |
| Stope Unit 1H BHL Rev-2 | 6535.00 | -11079.42 | 1085.79 | 1688607.69 | 14215502.54 | 39°08'49.1620"N | 80°49'48.0759"W | point |
| Stope Unit 1H LP Rev-2 | 6535.00 | -703.32 | -2518.15 | 1685005.19 | 14225874.49 | 39°10'31.7828"N | 80°50'33.5914"W | point |
| Stope Unit 1H 50' L/R Hard Line | 7000.00 | -5802.77 | -746.95 | 1686775.68 | 14220777.07 | 39°09'41.3493"N | 80°50'11.2177"W | rectangle |
| 2D Rectangle 11171.7 x 100. | | | | | | | | |

WELLPATH COMPOSITION - Ref Wellbore: Stope Unit 1H AWB Ref Wellpath: Stope Unit 1H AWP Proj: 18528'

| Start MD [ft] | End MD [ft] | Positional Uncertainty Model | Log Name/Comment | Wellbore | Survey Date |
|---------------|-------------|--|---|-------------------|-------------|
| 30.00 | 442.00 | Gyrodata 2015 - GC+WJR+DPIPE | 01 Gyrodata MS Gyro <17-1/2"> (100'-442') | Stope Unit 1H AWB | 4/13/2023 |
| 442.00 | 2978.00 | BH NaviTrak (2019) (Axial Corr+HRGM) | 02 APS EM <12-1/4"> (442')(562'-2978') | Stope Unit 1H AWB | 4/13/2023 |
| 2978.00 | 6215.00 | BH NaviTrak (2019) (Axial Corr+HRGM) | 03 APS EM <8-3/4"> (2978')(3028'-6215') | Stope Unit 1H AWB | 4/13/2023 |
| 6215.00 | 18528.00 | BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing) | 04 BH AT Curve <8-1/2"> (6215')(6269'-18503') | Stope Unit 1H AWB | 4/13/2023 |

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Stope Unit 1H AWP Proj: 18528'
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REFERENCE WELLPATH IDENTIFICATION

| | | | |
|----------|------------------------------|----------|-------------------|
| Operator | ANTERO RESOURCES CORPORATION | Well | Stope Unit 1H |
| Field | Doddridge | API | 47-017-06947-0000 |
| Facility | Locke Pad | Wellbore | Stope Unit 1H AWB |
| Slot | Slot A | | |

COMMENTS

Wellpath general comments

API: 47-017-06947-0000
 BH Job #: 111750201
 Rig: H&P 531
 Duration: 4/14/2023-4/20/2023
 Gyrodata MS Gyro <17-1/2"> (100'-442')
 APS EM <12-1/4"> (442')(562'-2978')
 APS EM <8-3/4"> (2978')(3028'-6215')
 BH AT Curve <8-1/2"> (6215')(6269'-18503')
 Sycamore: 6754' MD
 Middlesex: 6999' MD
 Burkett: 7227' MD
 Tully: 7338' MD
 Marcellus POE: 7410' MD
 Projected MD at TD: 18528'

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