



ANTERO RESOURCES CORPORATION

Location: Ritchie County, WV
 Field: Ritchie
 Facility: Weekley Trust Pad

Slot: Slot #11
 Well: Goliad Unit 1H
 Wellbore: Goliad Unit 1H PWB

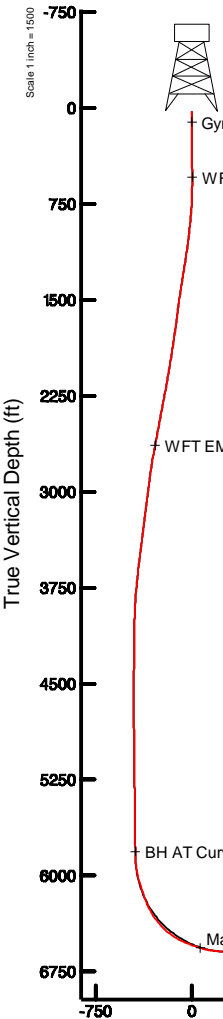


| | |
|--|---|
| Plot reference wellpath is Goliad Unit 1H PWP Rev-A.0 | Grid System: NAD27 / UTM Zone 17 North, US feet |
| True vertical depths are referenced to Frontier 22 (RKB) | North Reference: Grid north |
| Measured depths are referenced to Frontier 22 (RKB) | Scale: True distance |
| Frontier 22 (RKB) to Mean Sea Level: 1259.5 feet | Depths are in feet |
| Mean Sea Level to Ground level (At Slot: Slot #11): -1235 feet | Created by: delaset on 2019-03-12 |
| Coordinates are in feet referenced to Slot | Database: WA, MPL, EasternUS, Defn |

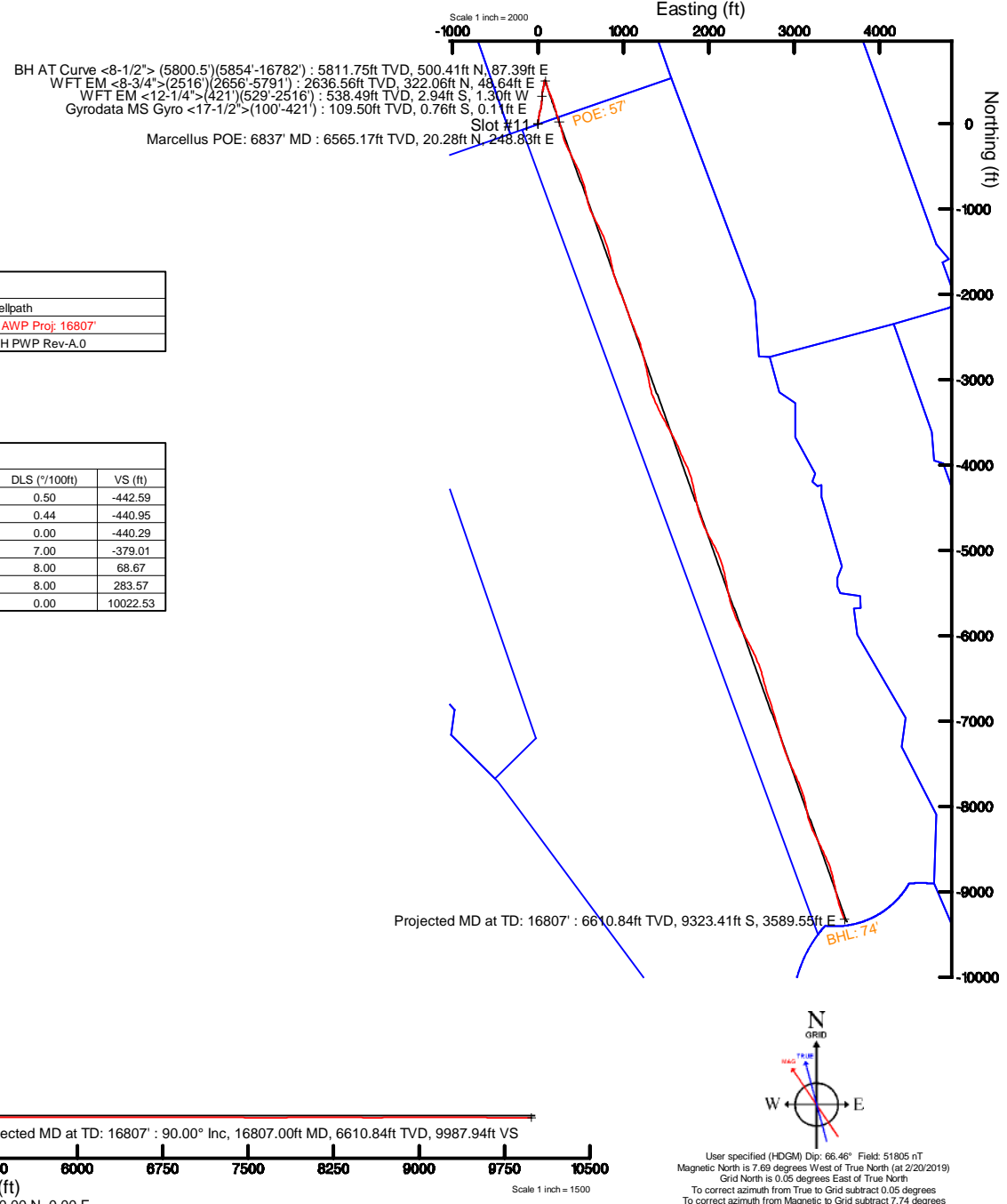
| Location Information | | | | |
|---|-------------------|--------------------|-------------------|--------------------|
| Facility Name | Grid East (US ft) | Grid North (US ft) | Latitude | Longitude |
| Weekley Trust Pad | 1661856.457 | 14297226.975 | 39°22'17.590"N | 80°55'26.890"W |
| Slot | Local N (ft) | Local E (ft) | Grid East (US ft) | Grid North (US ft) |
| Slot #11 | 16.27 | 98.15 | 1661954.571 | 14297243.239 |
| | | | 39°22'17.750"N | 80°55'25.640"W |
| Frontier 22 (RKB) to Ground level (At Slot: Slot #11) | | | 24.5ft | |
| Mean Sea Level to Ground level (At Slot: Slot #11) | | | -1235ft | |
| Frontier 22 (RKB) to Mean Sea Level | | | 1259.5ft | |

| Well Data | | | |
|-----------|----------------|--------------------|--------------------------------|
| Slot | Well | Wellbore | Wellpath |
| Slot #11 | Goliad Unit 1H | Goliad Unit 1H AWB | Goliad Unit 1H AWP Proj: 16807 |
| Slot #11 | Goliad Unit 1H | Goliad Unit 1H PWB | Goliad Unit 1H PWP Rev-A.0 |

| Well Profile Data | | | | | | | | |
|-------------------|----------|---------|---------|----------|--------------|--------------|---------------|----------|
| Design Comment | MD (ft) | Inc (°) | Az (°) | TVD (ft) | Local N (ft) | Local E (ft) | DLS (°/100ft) | VS (ft) |
| Tie On | 5800.50 | 1.260 | 133.520 | 5758.26 | 501.33 | 86.56 | 0.50 | -442.59 |
| Proj. To Bottom | 5874.50 | 1.460 | 144.560 | 5832.24 | 500.00 | 87.70 | 0.44 | -440.95 |
| Curve KOP | 5901.50 | 1.460 | 144.560 | 5859.23 | 499.44 | 88.10 | 0.00 | -440.29 |
| End of 3D Arc | 6201.19 | 22.362 | 163.525 | 6150.87 | 441.01 | 106.69 | 7.00 | -379.01 |
| POE | 6828.96 | 72.539 | 160.250 | 6562.00 | 17.19 | 251.10 | 8.00 | 68.67 |
| Landing Pt. | 7047.22 | 90.000 | 160.250 | 6595.00 | -185.06 | 323.72 | 8.00 | 283.57 |
| BHL | 16786.19 | 90.000 | 160.250 | 6595.00 | -9351.15 | 3614.66 | 0.00 | 10022.53 |



API: 47-085-10320-0000
 BHI Job #: 109674642
 Rig: Frontier 22
 Duration: 02/22/2019-02/26/2019



User specified (HDCM) Dip: 66.46° Field: 51805 nT
 Magnetic North is 7.69 degrees West of True North (at 2/20/2019)
 Grid North is 0.05 degrees East of True North
 To correct azimuth from True to Grid subtract 0.05 degrees
 To correct azimuth from Magnetic to Grid subtract 7.74 degrees



Actual Wellpath Report

Goliad Unit 1H AWP Proj: 16807'

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| REFERENCE WELLPATH IDENTIFICATION | | | |
|-----------------------------------|------------------------------|----------|--------------------|
| Operator | ANTERO RESOURCES CORPORATION | Slot | Slot #11 |
| Area | Ritchie County, WV | Well | Goliad Unit 1H |
| Field | Ritchie | Wellbore | Goliad Unit 1H AWB |
| Facility | Weekley Trust Pad | | |

| REPORT SETUP INFORMATION | | | |
|--------------------------|------------------------------------|----------------------|--|
| Projection System | NAD27 / UTM Zone 17 North, US feet | Software System | WellArchitect® 5.1 |
| North Reference | Grid | User | Delaset |
| Scale | 0.999601 | Report Generated | 3/12/2019 at 11:21:30 AM |
| Convergence at slot | 0.05° East | Database/Source file | WA_MPL_EasternUS_Defn/Goliad_Unit_1H_AWP_Proj_16807_.xml |

| WELLPATH LOCATION | | | | | | |
|-----------------------|-------------------|----------|------------------|-----------------|------------------------|----------------|
| | Local coordinates | | Grid coordinates | | Geographic coordinates | |
| | North[ft] | East[ft] | Easting[US ft] | Northing[US ft] | Latitude | Longitude |
| Slot Location | 16.27 | 98.15 | 1661954.57 | 14297243.24 | 39°22'17.750"N | 80°55'25.640"W |
| Facility Reference Pt | | | 1661856.46 | 14297226.98 | 39°22'17.590"N | 80°55'26.890"W |
| Field Reference Pt | | | 0.00 | 0.00 | 0°00'00.000" | 85°29'19.301"W |

| WELLPATH DATUM | | | |
|--------------------------|-------------------|--|-------------------|
| Calculation method | Minimum curvature | Frontier 22 (RKB) to Facility Vertical Datum | 24.50ft |
| Horizontal Reference Pt | Slot | Frontier 22 (RKB) to Mean Sea Level | 1259.50ft |
| Vertical Reference Pt | Frontier 22 (RKB) | Frontier 22 (RKB) to Ground Level at Slot (Slot #11) | 24.50ft |
| MD Reference Pt | Frontier 22 (RKB) | Section Origin | N 0.00, E 0.00 ft |
| Field Vertical Reference | Mean Sea Level | Section Azimuth | 160.25° |



Actual Wellpath Report

Goliad Unit 1H AWP Proj: 16807'

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| REFERENCE WELLPATH IDENTIFICATION | | | | |
|-----------------------------------|------------------------------|--|----------|--------------------|
| Operator | ANTERO RESOURCES CORPORATION | | Slot | Slot #11 |
| Area | Ritchie County, WV | | Well | Goliad Unit 1H |
| Field | Ritchie | | Wellbore | Goliad Unit 1H AWB |
| Facility | Weekley Trust Pad | | | |

| WELLPATH DATA (206 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 | 171.780 | 0.00 | 0.00 | 0.00 | 0.00 | 1661954.57 | 14297243.24 | 39°22'17.750"N | 80°55'25.640"W | 0.00 | 0.000 | 0.00 | 0.00 | 0.00 | |
| 24.50 | 0.000 | 171.780 | 24.50 | 0.00 | 0.00 | 0.00 | 1661954.57 | 14297243.24 | 39°22'17.750"N | 80°55'25.640"W | 0.00 | 0.000 | 0.00 | 0.00 | 0.00 | |
| 109.50 | 1.030 | 171.780 | 109.50 | 0.75 | -0.76 | 0.11 | 1661954.68 | 14297242.48 | 39°22'17.743"N | 80°55'25.639"W | 0.76 | 171.780 | 1.21 | 1.21 | 202.09 | Gyrodata MS Gyro <17-1/2">(100'-421') |
| 134.50 | 0.560 | 184.670 | 134.49 | 1.08 | -1.10 | 0.13 | 1661954.70 | 14297242.14 | 39°22'17.739"N | 80°55'25.638"W | 1.11 | 173.189 | 2.00 | -1.88 | 51.56 | |
| 159.50 | 0.490 | 196.610 | 159.49 | 1.28 | -1.32 | 0.09 | 1661954.66 | 14297241.92 | 39°22'17.737"N | 80°55'25.639"W | 1.33 | 176.074 | 0.52 | -0.28 | 47.76 | |
| 184.50 | 0.320 | 221.470 | 184.49 | 1.40 | -1.48 | 0.01 | 1661954.59 | 14297241.76 | 39°22'17.735"N | 80°55'25.640"W | 1.48 | 179.453 | 0.96 | -0.68 | 99.44 | |
| 209.50 | 0.200 | 217.850 | 209.49 | 1.45 | -1.57 | -0.06 | 1661954.51 | 14297241.67 | 39°22'17.735"N | 80°55'25.641"W | 1.57 | 182.154 | 0.48 | -0.48 | -14.48 | |
| 234.50 | 0.230 | 221.920 | 234.49 | 1.50 | -1.64 | -0.12 | 1661954.45 | 14297241.60 | 39°22'17.734"N | 80°55'25.642"W | 1.64 | 184.162 | 0.13 | 0.12 | 16.28 | |
| 259.50 | 0.390 | 224.180 | 259.49 | 1.56 | -1.74 | -0.21 | 1661954.36 | 14297241.50 | 39°22'17.733"N | 80°55'25.643"W | 1.75 | 186.962 | 0.64 | 0.64 | 9.04 | |
| 284.50 | 0.470 | 227.670 | 284.49 | 1.64 | -1.87 | -0.35 | 1661954.22 | 14297241.37 | 39°22'17.732"N | 80°55'25.644"W | 1.90 | 190.536 | 0.34 | 0.32 | 13.96 | |
| 309.50 | 0.540 | 226.870 | 309.49 | 1.73 | -2.02 | -0.51 | 1661954.06 | 14297241.22 | 39°22'17.730"N | 80°55'25.647"W | 2.08 | 194.168 | 0.28 | 0.28 | -3.20 | |
| 334.50 | 0.560 | 233.410 | 334.49 | 1.81 | -2.17 | -0.69 | 1661953.88 | 14297241.07 | 39°22'17.729"N | 80°55'25.649"W | 2.28 | 197.716 | 0.26 | 0.08 | 26.16 | |
| 359.50 | 0.230 | 239.840 | 359.49 | 1.85 | -2.27 | -0.83 | 1661953.74 | 14297240.97 | 39°22'17.728"N | 80°55'25.651"W | 2.42 | 200.206 | 1.33 | -1.32 | 25.72 | |
| 384.50 | 0.230 | 235.600 | 384.49 | 1.87 | -2.32 | -0.92 | 1661953.65 | 14297240.92 | 39°22'17.727"N | 80°55'25.652"W | 2.50 | 201.608 | 0.07 | 0.00 | -16.96 | |
| 409.50 | 0.230 | 229.360 | 409.49 | 1.90 | -2.38 | -1.00 | 1661953.57 | 14297240.86 | 39°22'17.726"N | 80°55'25.653"W | 2.58 | 202.748 | 0.10 | 0.00 | -24.96 | |
| 430.50 | 0.280 | 217.990 | 430.49 | 1.95 | -2.45 | -1.06 | 1661953.51 | 14297240.79 | 39°22'17.726"N | 80°55'25.654"W | 2.67 | 203.443 | 0.34 | 0.24 | -54.14 | |
| 538.50 | 0.310 | 195.420 | 538.49 | 2.33 | -2.94 | -1.30 | 1661953.27 | 14297240.30 | 39°22'17.721"N | 80°55'25.657"W | 3.21 | 203.898 | 0.11 | 0.03 | -20.90 | WFT EM <12-1/4">(421')(529'-2516') |
| 631.50 | 0.840 | 11.200 | 631.48 | 1.95 | -2.51 | -1.24 | 1661953.34 | 14297240.73 | 39°22'17.725"N | 80°55'25.656"W | 2.80 | 206.205 | 1.24 | 0.57 | 189.01 | |
| 724.50 | 3.050 | 12.070 | 724.42 | -0.74 | 0.58 | -0.59 | 1661953.98 | 14297243.81 | 39°22'17.756"N | 80°55'25.647"W | 0.82 | 314.428 | 2.38 | 2.38 | 0.94 | |
| 817.50 | 5.220 | 11.530 | 817.18 | -6.46 | 7.14 | 0.78 | 1661955.35 | 14297250.38 | 39°22'17.821"N | 80°55'25.630"W | 7.18 | 6.203 | 2.33 | 2.33 | -0.58 | |
| 913.50 | 6.640 | 6.940 | 912.66 | -15.15 | 16.93 | 2.32 | 1661956.89 | 14297260.16 | 39°22'17.917"N | 80°55'25.610"W | 17.09 | 7.802 | 1.56 | 1.48 | -4.78 | |
| 1008.50 | 7.750 | 9.260 | 1006.91 | -25.66 | 28.70 | 4.01 | 1661958.58 | 14297271.93 | 39°22'18.034"N | 80°55'25.589"W | 28.98 | 7.961 | 1.21 | 1.17 | 2.44 | |
| 1103.50 | 8.970 | 10.070 | 1100.90 | -37.69 | 42.32 | 6.34 | 1661960.91 | 14297285.54 | 39°22'18.168"N | 80°55'25.559"W | 42.79 | 8.520 | 1.29 | 1.28 | 0.85 | |
| 1197.50 | 10.050 | 6.580 | 1193.61 | -51.40 | 57.68 | 8.56 | 1661963.13 | 14297300.90 | 39°22'18.320"N | 80°55'25.530"W | 58.31 | 8.442 | 1.30 | 1.15 | -3.71 | |
| 1292.50 | 10.190 | 7.270 | 1287.13 | -66.31 | 74.25 | 10.57 | 1661965.14 | 14297317.46 | 39°22'18.484"N | 80°55'25.505"W | 75.00 | 8.105 | 0.19 | 0.15 | 0.73 | |
| 1387.50 | 9.560 | 6.740 | 1380.72 | -80.86 | 90.42 | 12.56 | 1661967.13 | 14297333.63 | 39°22'18.644"N | 80°55'25.479"W | 91.29 | 7.910 | 0.67 | -0.66 | -0.56 | |
| 1482.50 | 9.560 | 7.600 | 1474.40 | -94.93 | 106.08 | 14.53 | 1661969.10 | 14297349.27 | 39°22'18.798"N | 80°55'25.454"W | 107.07 | 7.801 | 0.15 | 0.00 | 0.91 | |
| 1577.50 | 8.100 | 8.850 | 1568.27 | -107.81 | 120.51 | 16.61 | 1661971.17 | 14297363.70 | 39°22'18.941"N | 80°55'25.427"W | 121.65 | 7.846 | 1.55 | -1.54 | 1.32 | |
| 1671.50 | 8.770 | 12.510 | 1661.26 | -119.68 | 134.05 | 19.18 | 1661973.74 | 14297377.24 | 39°22'19.075"N | 80°55'25.394"W | 135.41 | 8.142 | 0.91 | 0.71 | 3.89 | |
| 1766.50 | 10.950 | 18.950 | 1754.85 | -132.85 | 149.66 | 23.68 | 1661978.24 | 14297392.84 | 39°22'19.229"N | 80°55'25.337"W | 151.52 | 8.990 | 2.57 | 2.29 | 6.78 | |



Actual Wellpath Report

Goliad Unit 1H AWP Proj: 16807'

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| REFERENCE WELLPATH IDENTIFICATION | | | | |
|-----------------------------------|------------------------------|--|----------|--------------------|
| Operator | ANTERO RESOURCES CORPORATION | | Slot | Slot #11 |
| Area | Ritchie County, WV | | Well | Goliad Unit 1H |
| Field | Ritchie | | Wellbore | Goliad Unit 1H AWB |
| Facility | Weekley Trust Pad | | | |

| WELLPATH DATA (206 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 |
| 1861.50 | 11.720 | 20.950 | 1848.00 | -147.21 | 167.20 | 30.06 | 1661984.62 | 14297410.37 | 39°22'19.402"N | 80°55'25.255"W | 169.88 | 10.191 | 0.91 | 0.81 | 2.11 | |
| 1956.50 | 9.920 | 13.500 | 1941.31 | -161.37 | 184.17 | 35.42 | 1661989.97 | 14297427.34 | 39°22'19.570"N | 80°55'25.187"W | 187.55 | 10.886 | 2.40 | -1.89 | -7.84 | |
| 2051.50 | 9.970 | 4.190 | 2034.89 | -175.73 | 200.33 | 37.93 | 1661992.49 | 14297443.49 | 39°22'19.730"N | 80°55'25.155"W | 203.89 | 10.721 | 1.69 | 0.05 | -9.80 | |
| 2145.50 | 11.180 | 3.270 | 2127.29 | -191.55 | 217.55 | 39.04 | 1661993.60 | 14297460.70 | 39°22'19.900"N | 80°55'25.141"W | 221.02 | 10.175 | 1.30 | 1.29 | -0.98 | |
| 2240.50 | 11.870 | 6.660 | 2220.37 | -208.78 | 236.44 | 40.70 | 1661995.26 | 14297479.59 | 39°22'20.087"N | 80°55'25.119"W | 239.92 | 9.767 | 1.02 | 0.73 | 3.57 | |
| 2335.50 | 12.350 | 9.060 | 2313.26 | -226.44 | 256.18 | 43.43 | 1661997.99 | 14297499.32 | 39°22'20.282"N | 80°55'25.084"W | 259.84 | 9.623 | 0.73 | 0.51 | 2.53 | |
| 2430.50 | 11.730 | 6.640 | 2406.17 | -243.99 | 275.81 | 46.15 | 1662000.70 | 14297518.94 | 39°22'20.476"N | 80°55'25.049"W | 279.64 | 9.499 | 0.84 | -0.65 | -2.55 | |
| 2525.50 | 11.190 | 2.020 | 2499.28 | -261.20 | 294.61 | 47.59 | 1662002.15 | 14297537.73 | 39°22'20.661"N | 80°55'25.031"W | 298.43 | 9.177 | 1.12 | -0.57 | -4.86 | |
| 2665.50 | 11.440 | 2.340 | 2636.56 | -286.68 | 322.06 | 48.64 | 1662003.19 | 14297565.17 | 39°22'20.933"N | 80°55'25.017"W | 325.71 | 8.588 | 0.18 | 0.18 | 0.23 | WFT EM <8-3/4">(2516')(2656'-5791') |
| 2760.50 | 10.770 | 0.370 | 2729.78 | -303.74 | 340.35 | 49.08 | 1662003.63 | 14297583.45 | 39°22'21.113"N | 80°55'25.011"W | 343.87 | 8.206 | 0.81 | -0.71 | -2.07 | |
| 2855.50 | 9.230 | 5.570 | 2823.33 | -318.97 | 356.81 | 49.88 | 1662004.43 | 14297599.91 | 39°22'21.276"N | 80°55'25.001"W | 360.28 | 7.958 | 1.88 | -1.62 | 5.47 | |
| 2950.50 | 8.660 | 12.510 | 2917.18 | -331.90 | 371.38 | 52.17 | 1662006.72 | 14297614.47 | 39°22'21.420"N | 80°55'24.972"W | 375.02 | 7.996 | 1.28 | -0.60 | 7.31 | |
| 3044.50 | 8.300 | 10.020 | 3010.15 | -343.78 | 384.97 | 54.88 | 1662009.43 | 14297628.05 | 39°22'21.554"N | 80°55'24.937"W | 388.86 | 8.113 | 0.55 | -0.38 | -2.65 | |
| 3139.50 | 8.380 | 13.720 | 3104.15 | -355.50 | 398.44 | 57.71 | 1662012.26 | 14297641.52 | 39°22'21.688"N | 80°55'24.901"W | 402.60 | 8.242 | 0.57 | 0.08 | 3.89 | |
| 3239.50 | 7.990 | 12.070 | 3203.13 | -367.49 | 412.32 | 60.90 | 1662015.44 | 14297655.39 | 39°22'21.825"N | 80°55'24.860"W | 416.79 | 8.401 | 0.46 | -0.39 | -1.65 | |
| 3334.50 | 8.710 | 11.070 | 3297.12 | -379.27 | 425.84 | 63.66 | 1662018.20 | 14297668.90 | 39°22'21.958"N | 80°55'24.825"W | 430.57 | 8.502 | 0.77 | 0.76 | -1.05 | |
| 3429.50 | 8.340 | 9.190 | 3391.07 | -391.48 | 439.70 | 66.14 | 1662020.68 | 14297682.76 | 39°22'22.095"N | 80°55'24.793"W | 444.64 | 8.554 | 0.49 | -0.39 | -1.98 | |
| 3523.50 | 7.880 | 7.840 | 3484.13 | -403.16 | 452.81 | 68.11 | 1662022.65 | 14297695.87 | 39°22'22.225"N | 80°55'24.768"W | 457.90 | 8.554 | 0.53 | -0.49 | -1.44 | |
| 3618.50 | 7.370 | 5.790 | 3578.29 | -414.43 | 465.32 | 69.61 | 1662024.15 | 14297708.37 | 39°22'22.348"N | 80°55'24.749"W | 470.50 | 8.508 | 0.61 | -0.54 | -2.16 | |
| 3713.50 | 7.120 | 8.910 | 3672.54 | -425.09 | 477.20 | 71.14 | 1662025.68 | 14297720.25 | 39°22'22.466"N | 80°55'24.729"W | 482.47 | 8.479 | 0.49 | -0.26 | 3.28 | |
| 3807.50 | 5.820 | 9.000 | 3765.93 | -434.38 | 487.66 | 72.78 | 1662027.33 | 14297730.71 | 39°22'22.569"N | 80°55'24.708"W | 493.07 | 8.489 | 1.38 | -1.38 | 0.10 | |
| 3902.50 | 3.900 | 4.550 | 3860.59 | -441.55 | 495.64 | 73.79 | 1662028.34 | 14297738.68 | 39°22'22.648"N | 80°55'24.695"W | 501.11 | 8.468 | 2.06 | -2.02 | -4.68 | |
| 3997.50 | 2.290 | 358.800 | 3955.45 | -446.29 | 500.76 | 74.01 | 1662028.55 | 14297743.80 | 39°22'22.699"N | 80°55'24.692"W | 506.20 | 8.407 | 1.72 | -1.69 | -6.05 | |
| 4092.50 | 1.010 | 4.600 | 4050.41 | -448.86 | 503.49 | 74.04 | 1662028.58 | 14297746.53 | 39°22'22.726"N | 80°55'24.692"W | 508.91 | 8.365 | 1.36 | -1.35 | 6.11 | |
| 4187.50 | 0.690 | 18.640 | 4145.40 | -450.07 | 504.87 | 74.29 | 1662028.83 | 14297747.91 | 39°22'22.739"N | 80°55'24.689"W | 510.31 | 8.371 | 0.40 | -0.34 | 14.78 | |
| 4282.50 | 0.690 | 15.240 | 4240.39 | -450.99 | 505.96 | 74.62 | 1662029.16 | 14297749.00 | 39°22'22.750"N | 80°55'24.684"W | 511.44 | 8.390 | 0.04 | 0.00 | -3.58 | |
| 4377.50 | 0.550 | 8.550 | 4335.38 | -451.86 | 506.97 | 74.84 | 1662029.38 | 14297750.00 | 39°22'22.760"N | 80°55'24.682"W | 512.46 | 8.398 | 0.17 | -0.15 | -7.04 | |
| 4472.50 | 0.430 | 15.780 | 4430.38 | -452.55 | 507.76 | 75.00 | 1662029.55 | 14297750.80 | 39°22'22.768"N | 80°55'24.679"W | 513.27 | 8.403 | 0.14 | -0.13 | 7.61 | |
| 4566.50 | 0.260 | 37.520 | 4524.38 | -452.95 | 508.27 | 75.23 | 1662029.77 | 14297751.30 | 39°22'22.773"N | 80°55'24.677"W | 513.81 | 8.419 | 0.23 | -0.18 | 23.13 | |
| 4661.50 | 0.260 | 93.380 | 4619.38 | -452.98 | 508.43 | 75.58 | 1662030.12 | 14297751.46 | 39°22'22.774"N | 80°55'24.672"W | 514.01 | 8.455 | 0.26 | 0.00 | 58.80 | |



Actual Wellpath Report

Goliad Unit 1H AWP Proj: 16807'

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| REFERENCE WELLPATH IDENTIFICATION | | | | |
|-----------------------------------|------------------------------|--|----------|--------------------|
| Operator | ANTERO RESOURCES CORPORATION | | Slot | Slot #11 |
| Area | Ritchie County, WV | | Well | Goliad Unit 1H |
| Field | Ritchie | | Wellbore | Goliad Unit 1H AWB |
| Facility | Weekley Trust Pad | | | |

| WELLPATH DATA (206 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 |
| 4757.50 | 0.510 | 91.050 | 4715.38 | -452.74 | 508.41 | 76.22 | 1662030.76 | 14297751.44 | 39°22'22.774"N | 80°55'24.664"W | 514.09 | 8.526 | 0.26 | 0.26 | -2.43 | |
| 4851.50 | 0.690 | 82.690 | 4809.37 | -452.47 | 508.47 | 77.20 | 1662031.74 | 14297751.51 | 39°22'22.775"N | 80°55'24.651"W | 514.30 | 8.633 | 0.21 | 0.19 | -8.89 | |
| 4946.50 | 0.820 | 80.280 | 4904.36 | -452.23 | 508.66 | 78.44 | 1662032.98 | 14297751.69 | 39°22'22.777"N | 80°55'24.636"W | 514.67 | 8.766 | 0.14 | 0.14 | -2.54 | |
| 5041.50 | 0.930 | 84.830 | 4999.35 | -451.92 | 508.84 | 79.88 | 1662034.42 | 14297751.88 | 39°22'22.779"N | 80°55'24.617"W | 515.07 | 8.921 | 0.14 | 0.12 | 4.79 | |
| 5136.50 | 0.790 | 164.260 | 5094.34 | -451.07 | 508.28 | 80.82 | 1662035.36 | 14297751.32 | 39°22'22.773"N | 80°55'24.605"W | 514.67 | 9.035 | 1.16 | -0.15 | 83.61 | |
| 5231.50 | 1.130 | 174.970 | 5189.33 | -449.51 | 506.72 | 81.08 | 1662035.62 | 14297749.75 | 39°22'22.758"N | 80°55'24.602"W | 513.16 | 9.091 | 0.40 | 0.36 | 11.27 | |
| 5326.50 | 1.120 | 155.750 | 5284.31 | -447.68 | 504.94 | 81.55 | 1662036.08 | 14297747.98 | 39°22'22.740"N | 80°55'24.596"W | 511.48 | 9.174 | 0.40 | -0.01 | -20.23 | |
| 5421.50 | 0.520 | 151.220 | 5379.30 | -446.33 | 503.71 | 82.13 | 1662036.67 | 14297746.75 | 39°22'22.728"N | 80°55'24.589"W | 510.37 | 9.261 | 0.63 | -0.63 | -4.77 | |
| 5516.50 | 0.380 | 122.290 | 5474.30 | -445.66 | 503.17 | 82.61 | 1662037.15 | 14297746.21 | 39°22'22.722"N | 80°55'24.583"W | 509.90 | 9.323 | 0.28 | -0.15 | -30.45 | |
| 5610.50 | 0.780 | 102.500 | 5568.29 | -445.07 | 502.86 | 83.50 | 1662038.03 | 14297745.90 | 39°22'22.719"N | 80°55'24.571"W | 509.75 | 9.427 | 0.47 | 0.43 | -21.05 | |
| 5705.50 | 1.090 | 111.910 | 5663.28 | -444.12 | 502.39 | 84.97 | 1662039.50 | 14297745.42 | 39°22'22.715"N | 80°55'24.553"W | 509.52 | 9.599 | 0.36 | 0.33 | 9.91 | |
| 5800.50 | 1.260 | 133.520 | 5758.26 | -442.59 | 501.33 | 86.56 | 1662041.10 | 14297744.37 | 39°22'22.704"N | 80°55'24.532"W | 508.75 | 9.796 | 0.50 | 0.18 | 22.75 | |
| 5854.00 | 1.400 | 142.010 | 5811.75 | -441.44 | 500.41 | 87.39 | 1662041.93 | 14297743.45 | 39°22'22.695"N | 80°55'24.522"W | 507.98 | 9.906 | 0.45 | 0.26 | 15.87 | BH AT Curve <8-1/2"> (5800.5')(5854'-16782') |
| 5905.00 | 2.070 | 146.920 | 5862.72 | -439.95 | 499.15 | 88.28 | 1662042.81 | 14297742.19 | 39°22'22.683"N | 80°55'24.511"W | 506.89 | 10.029 | 1.34 | 1.31 | 9.63 | |
| 5952.00 | 6.210 | 151.070 | 5909.59 | -436.62 | 496.21 | 89.97 | 1662044.51 | 14297739.25 | 39°22'22.654"N | 80°55'24.489"W | 504.30 | 10.277 | 8.83 | 8.81 | 8.83 | |
| 5999.00 | 8.440 | 153.560 | 5956.20 | -430.68 | 490.90 | 92.74 | 1662047.27 | 14297733.94 | 39°22'22.601"N | 80°55'24.454"W | 499.58 | 10.698 | 4.79 | 4.74 | 5.30 | |
| 6046.00 | 12.160 | 161.480 | 6002.44 | -422.30 | 483.11 | 95.85 | 1662050.38 | 14297726.16 | 39°22'22.524"N | 80°55'24.414"W | 492.53 | 11.221 | 8.45 | 7.91 | 16.85 | |
| 6094.00 | 16.940 | 165.040 | 6048.89 | -410.27 | 471.55 | 99.26 | 1662053.79 | 14297714.60 | 39°22'22.410"N | 80°55'24.371"W | 481.89 | 11.887 | 10.13 | 9.96 | 7.42 | |
| 6141.00 | 20.020 | 167.290 | 6093.46 | -395.46 | 457.09 | 102.80 | 1662057.33 | 14297700.14 | 39°22'22.267"N | 80°55'24.326"W | 468.50 | 12.675 | 6.73 | 6.55 | 4.79 | |
| 6188.00 | 18.800 | 169.160 | 6137.79 | -380.00 | 441.80 | 105.99 | 1662060.52 | 14297684.86 | 39°22'22.116"N | 80°55'24.286"W | 454.34 | 13.491 | 2.91 | -2.60 | 3.98 | |
| 6235.00 | 18.370 | 162.640 | 6182.34 | -365.11 | 427.29 | 109.63 | 1662064.15 | 14297670.36 | 39°22'21.972"N | 80°55'24.239"W | 441.13 | 14.389 | 4.51 | -0.91 | -13.87 | |
| 6284.00 | 23.480 | 159.260 | 6228.10 | -347.63 | 410.78 | 115.39 | 1662069.92 | 14297653.86 | 39°22'21.809"N | 80°55'24.166"W | 426.68 | 15.690 | 10.71 | 10.43 | -6.90 | |
| 6331.00 | 27.700 | 156.710 | 6270.48 | -327.35 | 391.98 | 123.03 | 1662077.55 | 14297635.06 | 39°22'21.623"N | 80°55'24.069"W | 410.84 | 17.425 | 9.28 | 8.98 | -5.43 | |
| 6379.00 | 32.800 | 155.670 | 6311.93 | -303.24 | 369.87 | 132.80 | 1662087.32 | 14297612.97 | 39°22'21.405"N | 80°55'23.945"W | 392.99 | 19.751 | 10.68 | 10.62 | -2.17 | |
| 6426.00 | 37.810 | 157.300 | 6350.27 | -276.15 | 344.97 | 143.61 | 1662098.13 | 14297588.07 | 39°22'21.158"N | 80°55'23.808"W | 373.67 | 22.603 | 10.85 | 10.66 | 3.47 | |
| 6473.00 | 42.280 | 157.620 | 6386.25 | -245.95 | 317.04 | 155.20 | 1662109.71 | 14297560.16 | 39°22'20.882"N | 80°55'23.660"W | 352.99 | 26.083 | 9.52 | 9.51 | 0.68 | |
| 6518.00† | 46.942 | 159.676 | 6418.27 | -214.37 | 287.61 | 166.68 | 1662121.18 | 14297530.74 | 39°22'20.591"N | 80°55'23.514"W | 332.42 | 30.093 | 10.84 | 10.36 | 4.57 | Middlesex: 6518' MD |
| 6520.00 | 47.150 | 159.760 | 6419.64 | -212.91 | 286.24 | 167.19 | 1662121.69 | 14297529.36 | 39°22'20.578"N | 80°55'23.508"W | 331.49 | 30.288 | 10.84 | 10.40 | 4.20 | |
| 6567.00 | 52.070 | 161.750 | 6450.08 | -177.13 | 252.45 | 178.96 | 1662133.46 | 14297495.59 | 39°22'20.244"N | 80°55'23.359"W | 309.45 | 35.333 | 10.95 | 10.47 | 4.23 | |
| 6614.00 | 57.340 | 162.880 | 6477.23 | -138.80 | 215.91 | 190.60 | 1662145.09 | 14297459.06 | 39°22'19.882"N | 80°55'23.211"W | 288.00 | 41.437 | 11.38 | 11.21 | 2.40 | |



Actual Wellpath Report

Goliad Unit 1H AWP Proj: 16807'

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REFERENCE WELLPATH IDENTIFICATION

| | | | |
|----------|------------------------------|----------|--------------------|
| Operator | ANTERO RESOURCES CORPORATION | Slot | Slot #11 |
| Area | Ritchie County, WV | Well | Goliad Unit 1H |
| Field | Ritchie | Wellbore | Goliad Unit 1H AWB |
| Facility | Weekley Trust Pad | | |

WELLPATH DATA (206 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 |
|----------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|----------------|----------------|-------------------|-----------------|---------------|----------------------|---------------------|-------------------------|
| 6661.00 | 61.920 | 163.800 | 6500.99 | -98.32 | 177.07 | 202.21 | 1662156.70 | 14297420.24 | 39°22'19.498"N | 80°55'23.063"W | 268.78 | 48.792 | 9.89 | 9.74 | 1.96 | |
| 6695.00† | 65.219 | 163.559 | 6516.12 | -67.94 | 147.86 | 210.77 | 1662165.25 | 14297391.04 | 39°22'19.210"N | 80°55'22.955"W | 257.46 | 54.950 | 9.72 | 9.70 | -0.71 | Burkett: 6695' MD |
| 6708.00 | 66.480 | 163.470 | 6521.44 | -56.09 | 136.48 | 214.13 | 1662168.62 | 14297379.67 | 39°22'19.097"N | 80°55'22.912"W | 253.93 | 57.488 | 9.72 | 9.70 | -0.68 | |
| 6757.00 | 69.340 | 163.640 | 6539.86 | -10.77 | 92.94 | 226.99 | 1662181.47 | 14297336.14 | 39°22'18.667"N | 80°55'22.749"W | 245.28 | 67.733 | 5.85 | 5.84 | 0.35 | |
| 6773.00† | 70.269 | 163.458 | 6545.39 | 4.22 | 78.54 | 231.24 | 1662185.72 | 14297321.75 | 39°22'18.524"N | 80°55'22.695"W | 244.21 | 71.240 | 5.91 | 5.81 | -1.14 | Tully: 6773' MD |
| 6804.00 | 72.070 | 163.110 | 6555.39 | 33.52 | 50.44 | 239.68 | 1662194.15 | 14297293.66 | 39°22'18.247"N | 80°55'22.588"W | 244.93 | 78.116 | 5.91 | 5.81 | -1.12 | |
| 6837.00† | 73.472 | 163.138 | 6565.17 | 65.00 | 20.28 | 248.83 | 1662203.30 | 14297263.51 | 39°22'17.948"N | 80°55'22.471"W | 249.65 | 85.341 | 4.25 | 4.25 | 0.08 | Marcellus POE: 6837' MD |
| 6852.00 | 74.110 | 163.150 | 6569.35 | 79.38 | 6.49 | 253.00 | 1662207.47 | 14297249.73 | 39°22'17.812"N | 80°55'22.418"W | 253.09 | 88.530 | 4.25 | 4.25 | 0.08 | |
| 6899.00 | 77.970 | 163.900 | 6580.69 | 124.91 | -37.24 | 265.93 | 1662220.40 | 14297206.02 | 39°22'17.380"N | 80°55'22.254"W | 268.53 | 97.971 | 8.36 | 8.21 | 1.60 | |
| 6947.00 | 83.000 | 164.960 | 6588.62 | 172.11 | -82.83 | 278.63 | 1662233.09 | 14297160.45 | 39°22'16.929"N | 80°55'22.093"W | 290.68 | 106.555 | 10.70 | 10.48 | 2.21 | |
| 6994.00 | 86.180 | 166.360 | 6593.05 | 218.68 | -128.15 | 290.22 | 1662244.67 | 14297115.14 | 39°22'16.481"N | 80°55'21.946"W | 317.25 | 113.825 | 7.39 | 6.77 | 2.98 | |
| 7042.00 | 90.310 | 162.650 | 6594.52 | 266.51 | -174.37 | 303.03 | 1662257.48 | 14297068.94 | 39°22'16.024"N | 80°55'21.833"W | 349.62 | 119.916 | 11.56 | 8.60 | -7.73 | |
| 7136.00 | 89.970 | 154.750 | 6594.29 | 360.40 | -261.88 | 337.15 | 1662291.59 | 14296981.47 | 39°22'15.159"N | 80°55'21.350"W | 426.91 | 127.838 | 8.41 | -0.36 | -8.40 | |
| 7231.00 | 89.970 | 153.010 | 6594.34 | 454.81 | -347.17 | 378.97 | 1662333.39 | 14296896.21 | 39°22'14.316"N | 80°55'20.818"W | 513.95 | 132.492 | 1.83 | 0.00 | -1.83 | |
| 7325.00 | 89.940 | 154.310 | 6594.42 | 548.19 | -431.41 | 420.68 | 1662375.08 | 14296812.00 | 39°22'13.483"N | 80°55'20.288"W | 602.57 | 135.721 | 1.38 | -0.03 | 1.38 | |
| 7420.00 | 89.910 | 154.260 | 6594.54 | 642.67 | -517.00 | 461.90 | 1662416.29 | 14296726.45 | 39°22'12.636"N | 80°55'19.764"W | 693.28 | 138.222 | 0.06 | -0.03 | -0.05 | |
| 7514.00 | 90.060 | 158.730 | 6594.57 | 736.45 | -603.18 | 499.38 | 1662453.75 | 14296640.30 | 39°22'11.784"N | 80°55'19.288"W | 783.08 | 140.378 | 4.76 | 0.16 | 4.76 | |
| 7609.00 | 90.120 | 162.260 | 6594.42 | 831.43 | -692.71 | 531.10 | 1662485.45 | 14296550.80 | 39°22'10.899"N | 80°55'18.885"W | 872.88 | 142.523 | 3.72 | 0.06 | 3.72 | |
| 7703.00 | 89.750 | 167.790 | 6594.52 | 925.07 | -783.49 | 555.38 | 1662509.72 | 14296460.07 | 39°22'10.002"N | 80°55'18.577"W | 960.36 | 144.669 | 5.90 | -0.39 | 5.88 | |
| 7798.00 | 90.430 | 168.810 | 6594.37 | 1019.13 | -876.51 | 574.64 | 1662528.98 | 14296367.08 | 39°22'09.082"N | 80°55'18.333"W | 1048.08 | 146.751 | 1.29 | 0.72 | 1.07 | |
| 7893.00 | 90.520 | 161.330 | 6593.59 | 1113.72 | -968.23 | 599.10 | 1662553.43 | 14296275.39 | 39°22'08.175"N | 80°55'18.022"W | 1138.59 | 148.253 | 7.87 | 0.09 | -7.87 | |
| 7987.00 | 90.030 | 155.010 | 6593.13 | 1207.61 | -1055.45 | 634.03 | 1662588.35 | 14296188.21 | 39°22'07.313"N | 80°55'17.578"W | 1231.25 | 149.006 | 6.74 | -0.52 | -6.72 | |
| 8081.00 | 90.430 | 151.100 | 6592.76 | 1300.85 | -1139.23 | 676.62 | 1662630.92 | 14296104.47 | 39°22'06.485"N | 80°55'17.037"W | 1325.01 | 149.293 | 4.18 | 0.43 | -4.16 | |
| 8176.00 | 90.220 | 153.120 | 6592.22 | 1394.89 | -1223.19 | 721.06 | 1662675.34 | 14296020.54 | 39°22'05.654"N | 80°55'16.472"W | 1419.90 | 149.481 | 2.14 | -0.22 | 2.13 | |
| 8271.00 | 90.340 | 156.280 | 6591.75 | 1489.43 | -1309.06 | 761.65 | 1662715.91 | 14295934.70 | 39°22'04.805"N | 80°55'15.956"W | 1514.51 | 149.808 | 3.33 | 0.13 | 3.33 | |
| 8365.00 | 90.280 | 160.690 | 6591.24 | 1583.36 | -1396.49 | 796.11 | 1662750.37 | 14295847.31 | 39°22'03.941"N | 80°55'15.518"W | 1607.48 | 150.313 | 4.69 | -0.06 | 4.69 | |
| 8460.00 | 90.030 | 164.410 | 6590.99 | 1678.27 | -1487.10 | 824.60 | 1662778.84 | 14295756.73 | 39°22'03.045"N | 80°55'15.157"W | 1700.42 | 150.992 | 3.92 | -0.26 | 3.92 | |
| 8554.00 | 90.090 | 168.290 | 6590.89 | 1771.72 | -1578.43 | 846.78 | 1662801.01 | 14295665.44 | 39°22'02.142"N | 80°55'14.875"W | 1791.22 | 151.788 | 4.13 | 0.06 | 4.13 | |
| 8649.00 | 90.310 | 167.810 | 6590.56 | 1865.84 | -1671.37 | 866.45 | 1662820.67 | 14295572.54 | 39°22'01.224"N | 80°55'14.626"W | 1882.61 | 152.598 | 0.56 | 0.23 | -0.51 | |
| 8744.00 | 89.820 | 165.060 | 6590.45 | 1960.28 | -1763.71 | 888.73 | 1662842.94 | 14295480.24 | 39°22'00.311"N | 80°55'14.343"W | 1974.97 | 153.257 | 2.94 | -0.52 | -2.89 | |



Actual Wellpath Report

Goliad Unit 1H AWP Proj: 16807'

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| REFERENCE WELLPATH IDENTIFICATION | | | | |
|-----------------------------------|------------------------------|--|----------|--------------------|
| Operator | ANTERO RESOURCES CORPORATION | | Slot | Slot #11 |
| Area | Ritchie County, WV | | Well | Goliad Unit 1H |
| Field | Ritchie | | Wellbore | Goliad Unit 1H AWB |
| Facility | Weekley Trust Pad | | | |

| WELLPATH DATA (206 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 |
| 8839.00 | 90.120 | 160.990 | 6590.50 | 2055.15 | -1854.55 | 916.46 | 1662870.66 | 14295389.43 | 39°21'59.413"N | 80°55'13.991"W | 2068.64 | 153.703 | 4.30 | 0.32 | -4.28 | |
| 8933.00 | 89.940 | 156.030 | 6590.45 | 2149.07 | -1941.99 | 950.88 | 1662905.07 | 14295302.03 | 39°21'58.548"N | 80°55'13.554"W | 2162.29 | 153.912 | 5.28 | -0.19 | -5.28 | |
| 9028.00 | 90.060 | 158.850 | 6590.45 | 2243.95 | -2029.71 | 987.32 | 1662941.50 | 14295214.34 | 39°21'57.681"N | 80°55'13.091"W | 2257.11 | 154.060 | 2.97 | 0.13 | 2.97 | |
| 9123.00 | 90.060 | 159.140 | 6590.35 | 2338.93 | -2118.40 | 1021.38 | 1662975.54 | 14295125.69 | 39°21'56.804"N | 80°55'12.658"W | 2351.77 | 154.259 | 0.31 | 0.00 | 0.31 | |
| 9219.00 | 89.820 | 160.950 | 6590.45 | 2434.92 | -2208.63 | 1054.14 | 1663008.29 | 14295035.50 | 39°21'55.912"N | 80°55'12.242"W | 2447.30 | 154.486 | 1.90 | -0.25 | 1.89 | |
| 9311.00 | 90.770 | 159.660 | 6589.98 | 2526.92 | -2295.24 | 1085.14 | 1663039.28 | 14294948.92 | 39°21'55.055"N | 80°55'11.848"W | 2538.83 | 154.696 | 1.74 | 1.03 | -1.40 | |
| 9406.00 | 89.660 | 157.670 | 6589.62 | 2621.87 | -2383.73 | 1119.70 | 1663073.82 | 14294860.47 | 39°21'54.181"N | 80°55'11.409"W | 2633.61 | 154.839 | 2.40 | -1.17 | -2.09 | |
| 9499.00 | 89.600 | 158.170 | 6590.22 | 2714.79 | -2469.91 | 1154.66 | 1663108.77 | 14294774.33 | 39°21'53.329"N | 80°55'10.965"W | 2726.48 | 154.944 | 0.54 | -0.06 | 0.54 | |
| 9594.00 | 89.450 | 160.690 | 6591.01 | 2809.77 | -2558.84 | 1188.03 | 1663142.13 | 14294685.43 | 39°21'52.449"N | 80°55'10.541"W | 2821.18 | 155.095 | 2.66 | -0.16 | 2.65 | |
| 9689.00 | 89.480 | 164.920 | 6591.90 | 2904.65 | -2649.57 | 1216.11 | 1663170.19 | 14294594.74 | 39°21'51.552"N | 80°55'10.185"W | 2915.33 | 155.346 | 4.45 | 0.03 | 4.45 | |
| 9784.00 | 89.690 | 167.000 | 6592.58 | 2999.17 | -2741.72 | 1239.16 | 1663193.23 | 14294502.62 | 39°21'50.641"N | 80°55'09.893"W | 3008.74 | 155.679 | 2.20 | 0.22 | 2.19 | |
| 9879.00 | 89.690 | 166.590 | 6593.10 | 3093.55 | -2834.21 | 1260.86 | 1663214.92 | 14294410.17 | 39°21'49.727"N | 80°55'09.617"W | 3102.02 | 156.017 | 0.43 | 0.00 | -0.43 | |
| 9974.00 | 88.980 | 167.990 | 6594.20 | 3187.83 | -2926.87 | 1281.76 | 1663235.81 | 14294317.54 | 39°21'48.811"N | 80°55'09.352"W | 3195.23 | 156.350 | 1.65 | -0.75 | 1.47 | |
| 10069.00 | 89.880 | 170.610 | 6595.15 | 3281.63 | -3020.21 | 1299.39 | 1663253.44 | 14294224.25 | 39°21'47.888"N | 80°55'09.129"W | 3287.87 | 156.721 | 2.92 | 0.95 | 2.76 | |
| 10164.00 | 89.940 | 165.360 | 6595.30 | 3375.73 | -3113.09 | 1319.16 | 1663273.20 | 14294131.40 | 39°21'46.970"N | 80°55'08.878"W | 3381.05 | 157.035 | 5.53 | 0.06 | -5.53 | |
| 10259.00 | 89.780 | 157.130 | 6595.53 | 3470.64 | -3202.97 | 1349.68 | 1663303.71 | 14294041.55 | 39°21'46.082"N | 80°55'08.491"W | 3475.72 | 157.150 | 8.66 | -0.17 | -8.66 | |
| 10353.00 | 91.480 | 155.930 | 6594.49 | 3564.43 | -3289.18 | 1387.11 | 1663341.13 | 14293955.38 | 39°21'45.229"N | 80°55'08.015"W | 3569.71 | 157.134 | 2.21 | 1.81 | -1.28 | |
| 10448.00 | 91.080 | 153.690 | 6592.37 | 3658.97 | -3375.12 | 1427.53 | 1663381.53 | 14293869.47 | 39°21'44.379"N | 80°55'07.501"W | 3664.60 | 157.074 | 2.39 | -0.42 | -2.36 | |
| 10543.00 | 89.260 | 151.440 | 6592.09 | 3753.11 | -3459.43 | 1471.30 | 1663425.28 | 14293785.20 | 39°21'43.546"N | 80°55'06.945"W | 3759.30 | 156.960 | 3.05 | -1.92 | -2.37 | |
| 10638.00 | 89.380 | 152.180 | 6593.22 | 3847.07 | -3543.15 | 1516.17 | 1663470.14 | 14293701.51 | 39°21'42.718"N | 80°55'06.375"W | 3853.92 | 156.833 | 0.79 | 0.13 | 0.78 | |
| 10733.00 | 89.540 | 152.380 | 6594.11 | 3941.15 | -3627.25 | 1560.36 | 1663514.31 | 14293617.45 | 39°21'41.886"N | 80°55'05.813"W | 3948.63 | 156.724 | 0.27 | 0.17 | 0.21 | |
| 10828.00 | 89.320 | 151.910 | 6595.06 | 4035.20 | -3711.23 | 1604.75 | 1663558.67 | 14293533.49 | 39°21'41.056"N | 80°55'05.249"W | 4043.32 | 156.616 | 0.55 | -0.23 | -0.49 | |
| 10923.00 | 88.830 | 157.080 | 6596.59 | 4129.67 | -3796.94 | 1645.63 | 1663599.54 | 14293447.83 | 39°21'40.208"N | 80°55'04.729"W | 4138.22 | 156.568 | 5.47 | -0.52 | 5.44 | |
| 11018.00 | 89.380 | 157.850 | 6598.08 | 4224.55 | -3884.67 | 1682.04 | 1663635.93 | 14293360.13 | 39°21'39.341"N | 80°55'04.267"W | 4233.19 | 156.588 | 1.00 | 0.58 | 0.81 | |
| 11113.00 | 89.600 | 152.650 | 6598.92 | 4319.15 | -3970.91 | 1721.79 | 1663675.67 | 14293273.92 | 39°21'38.488"N | 80°55'03.762"W | 4328.13 | 156.558 | 5.48 | 0.23 | -5.47 | |
| 11207.00 | 89.450 | 158.660 | 6599.70 | 4412.80 | -4056.51 | 1760.52 | 1663714.39 | 14293188.36 | 39°21'37.642"N | 80°55'03.270"W | 4422.07 | 156.539 | 6.40 | -0.16 | 6.39 | |
| 11303.00 | 89.260 | 163.600 | 6600.78 | 4508.75 | -4147.32 | 1791.56 | 1663745.41 | 14293097.59 | 39°21'36.744"N | 80°55'02.876"W | 4517.74 | 156.637 | 5.15 | -0.20 | 5.15 | |
| 11398.00 | 89.050 | 166.880 | 6602.19 | 4603.37 | -4239.16 | 1815.76 | 1663769.60 | 14293005.78 | 39°21'35.836"N | 80°55'02.569"W | 4611.67 | 156.813 | 3.46 | -0.22 | 3.45 | |
| 11493.00 | 89.410 | 169.030 | 6603.46 | 4697.50 | -4332.05 | 1835.58 | 1663789.42 | 14292912.92 | 39°21'34.918"N | 80°55'02.317"W | 4704.90 | 157.037 | 2.29 | 0.38 | 2.26 | |
| 11589.00 | 89.420 | 168.660 | 6604.44 | 4792.42 | -4426.24 | 1854.15 | 1663807.98 | 14292818.78 | 39°21'33.987"N | 80°55'02.082"W | 4798.90 | 157.271 | 0.39 | 0.01 | -0.39 | |



Actual Wellpath Report

Goliad Unit 1H AWP Proj: 16807'

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| REFERENCE WELLPATH IDENTIFICATION | | | | |
|-----------------------------------|------------------------------|--|----------|--------------------|
| Operator | ANTERO RESOURCES CORPORATION | | Slot | Slot #11 |
| Area | Ritchie County, WV | | Well | Goliad Unit 1H |
| Field | Ritchie | | Wellbore | Goliad Unit 1H AWB |
| Facility | Weekley Trust Pad | | | |

| WELLPATH DATA (206 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 |
| 11683.00 | 89.750 | 166.570 | 6605.12 | 4885.63 | -4518.04 | 1874.31 | 1663828.13 | 14292727.01 | 39°21'33.079"N | 80°55'01.826"W | 4891.39 | 157.469 | 2.25 | 0.35 | -2.22 | |
| 11777.00 | 89.820 | 160.540 | 6605.48 | 4979.43 | -4608.15 | 1900.91 | 1663854.72 | 14292636.94 | 39°21'32.188"N | 80°55'01.489"W | 4984.83 | 157.583 | 6.42 | 0.07 | -6.41 | |
| 11870.00 | 89.690 | 156.580 | 6605.87 | 5072.37 | -4694.70 | 1934.90 | 1663888.69 | 14292550.42 | 39°21'31.333"N | 80°55'01.057"W | 5077.80 | 157.601 | 4.26 | -0.14 | -4.26 | |
| 11965.00 | 89.780 | 154.460 | 6606.31 | 5167.04 | -4781.15 | 1974.26 | 1663928.04 | 14292464.01 | 39°21'30.478"N | 80°55'00.557"W | 5172.73 | 157.563 | 2.23 | 0.09 | -2.23 | |
| 12059.00 | 89.690 | 150.660 | 6606.75 | 5260.18 | -4864.56 | 2017.57 | 1663971.33 | 14292380.63 | 39°21'29.653"N | 80°55'00.007"W | 5266.36 | 157.474 | 4.04 | -0.10 | -4.04 | |
| 12154.00 | 89.720 | 151.180 | 6607.24 | 5353.92 | -4947.58 | 2063.74 | 1664017.48 | 14292297.64 | 39°21'28.832"N | 80°54'59.420"W | 5360.75 | 157.358 | 0.55 | 0.03 | 0.55 | |
| 12248.00 | 89.600 | 156.490 | 6607.80 | 5447.30 | -5031.92 | 2105.18 | 1664058.90 | 14292213.34 | 39°21'27.998"N | 80°54'58.893"W | 5454.54 | 157.297 | 5.65 | -0.13 | 5.65 | |
| 12343.00 | 89.570 | 160.930 | 6608.48 | 5542.24 | -5120.41 | 2139.66 | 1664093.37 | 14292124.88 | 39°21'27.123"N | 80°54'58.455"W | 5549.48 | 157.321 | 4.67 | -0.03 | 4.67 | |
| 12438.00 | 89.690 | 165.230 | 6609.10 | 5637.10 | -5211.28 | 2167.30 | 1664121.00 | 14292034.05 | 39°21'26.225"N | 80°54'58.105"W | 5643.99 | 157.418 | 4.53 | 0.13 | 4.53 | |
| 12532.00 | 89.720 | 168.310 | 6609.58 | 5730.48 | -5302.77 | 2188.81 | 1664142.50 | 14291942.60 | 39°21'25.320"N | 80°54'57.832"W | 5736.75 | 157.571 | 3.28 | 0.03 | 3.28 | |
| 12628.00 | 89.600 | 168.840 | 6610.15 | 5825.46 | -5396.87 | 2207.83 | 1664161.51 | 14291848.54 | 39°21'24.390"N | 80°54'57.591"W | 5831.01 | 157.751 | 0.57 | -0.13 | 0.55 | |
| 12723.00 | 90.000 | 168.380 | 6610.48 | 5919.45 | -5489.99 | 2226.59 | 1664180.26 | 14291755.45 | 39°21'23.470"N | 80°54'57.353"W | 5924.33 | 157.924 | 0.64 | 0.42 | -0.48 | |
| 12818.00 | 89.910 | 165.780 | 6610.56 | 6013.77 | -5582.58 | 2247.83 | 1664201.50 | 14291662.90 | 39°21'22.554"N | 80°54'57.084"W | 6018.13 | 158.068 | 2.74 | -0.09 | -2.74 | |
| 12913.00 | 90.830 | 162.790 | 6609.94 | 6108.52 | -5674.02 | 2273.55 | 1664227.21 | 14291571.50 | 39°21'21.650"N | 80°54'56.757"W | 6112.57 | 158.164 | 3.29 | 0.97 | -3.15 | |
| 13007.00 | 90.030 | 157.620 | 6609.24 | 6202.48 | -5762.43 | 2305.38 | 1664259.02 | 14291483.12 | 39°21'20.776"N | 80°54'56.353"W | 6206.48 | 158.195 | 5.57 | -0.85 | -5.50 | |
| 13102.00 | 89.880 | 155.010 | 6609.31 | 6297.25 | -5849.42 | 2343.53 | 1664297.16 | 14291396.17 | 39°21'19.916"N | 80°54'55.869"W | 6301.42 | 158.167 | 2.75 | -0.16 | -2.75 | |
| 13196.00 | 90.180 | 152.910 | 6609.26 | 6390.68 | -5933.87 | 2384.80 | 1664338.41 | 14291311.75 | 39°21'19.081"N | 80°54'55.344"W | 6395.16 | 158.105 | 2.26 | 0.32 | -2.23 | |
| 13291.00 | 90.000 | 151.450 | 6609.11 | 6484.74 | -6017.89 | 2429.13 | 1664382.73 | 14291227.77 | 39°21'18.250"N | 80°54'54.781"W | 6489.66 | 158.018 | 1.55 | -0.19 | -1.54 | |
| 13385.00 | 89.970 | 151.780 | 6609.14 | 6577.67 | -6100.59 | 2473.82 | 1664427.40 | 14291145.10 | 39°21'17.432"N | 80°54'54.213"W | 6583.08 | 157.927 | 0.35 | -0.03 | 0.35 | |
| 13480.00 | 89.940 | 154.160 | 6609.21 | 6671.90 | -6185.20 | 2516.99 | 1664470.55 | 14291060.52 | 39°21'16.596"N | 80°54'53.664"W | 6677.72 | 157.857 | 2.51 | -0.03 | 2.51 | |
| 13575.00 | 89.880 | 157.020 | 6609.36 | 6766.58 | -6271.70 | 2556.25 | 1664509.79 | 14290974.05 | 39°21'15.740"N | 80°54'53.166"W | 6772.64 | 157.825 | 3.01 | -0.06 | 3.01 | |
| 13670.00 | 89.780 | 158.740 | 6609.65 | 6861.49 | -6359.71 | 2592.02 | 1664545.55 | 14290886.08 | 39°21'14.870"N | 80°54'52.711"W | 6867.64 | 157.826 | 1.81 | -0.11 | 1.81 | |
| 13766.00 | 89.970 | 164.790 | 6609.85 | 6957.41 | -6450.84 | 2622.04 | 1664575.56 | 14290794.98 | 39°21'13.969"N | 80°54'52.330"W | 6963.37 | 157.880 | 6.31 | 0.20 | 6.30 | |
| 13861.00 | 89.940 | 165.870 | 6609.93 | 7052.04 | -6542.75 | 2646.10 | 1664599.61 | 14290703.12 | 39°21'13.061"N | 80°54'52.025"W | 7057.58 | 157.980 | 1.14 | -0.03 | 1.14 | |
| 13956.00 | 90.030 | 163.030 | 6609.95 | 7146.77 | -6634.26 | 2671.57 | 1664625.06 | 14290611.64 | 39°21'12.156"N | 80°54'51.702"W | 7151.97 | 158.066 | 2.99 | 0.09 | -2.99 | |
| 14051.00 | 89.570 | 161.010 | 6610.29 | 7241.72 | -6724.61 | 2700.89 | 1664654.38 | 14290521.32 | 39°21'11.263"N | 80°54'51.330"W | 7246.74 | 158.118 | 2.18 | -0.48 | -2.13 | |
| 14145.00 | 90.000 | 163.050 | 6610.64 | 7335.67 | -6814.02 | 2729.89 | 1664683.36 | 14290431.95 | 39°21'10.379"N | 80°54'50.962"W | 7340.52 | 158.168 | 2.22 | 0.46 | 2.17 | |
| 14240.00 | 89.850 | 163.410 | 6610.76 | 7430.54 | -6904.98 | 2757.30 | 1664710.76 | 14290341.03 | 39°21'09.479"N | 80°54'50.614"W | 7435.15 | 158.232 | 0.41 | -0.16 | 0.38 | |
| 14335.00 | 89.850 | 163.200 | 6611.01 | 7525.41 | -6995.98 | 2784.59 | 1664738.04 | 14290250.07 | 39°21'08.580"N | 80°54'50.268"W | 7529.78 | 158.296 | 0.22 | 0.00 | -0.22 | |
| 14429.00 | 90.120 | 163.250 | 6611.04 | 7619.28 | -7085.98 | 2811.72 | 1664765.16 | 14290160.11 | 39°21'07.690"N | 80°54'49.923"W | 7623.44 | 158.357 | 0.29 | 0.29 | 0.05 | |



Actual Wellpath Report

Goliad Unit 1H AWP Proj: 16807'

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| REFERENCE WELLPATH IDENTIFICATION | | | | |
|-----------------------------------|------------------------------|--|----------|--------------------|
| Operator | ANTERO RESOURCES CORPORATION | | Slot | Slot #11 |
| Area | Ritchie County, WV | | Well | Goliad Unit 1H |
| Field | Ritchie | | Wellbore | Goliad Unit 1H AWB |
| Facility | Weekley Trust Pad | | | |

| WELLPATH DATA (206 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 |
| 14524.00 | 89.880 | 164.950 | 6611.04 | 7714.06 | -7177.34 | 2837.74 | 1664791.18 | 14290068.78 | 39°21'06.787"N | 80°54'49.593"W | 7717.97 | 158.427 | 1.81 | -0.25 | 1.79 | |
| 14619.00 | 90.180 | 164.370 | 6610.99 | 7808.78 | -7268.95 | 2862.88 | 1664816.30 | 14289977.20 | 39°21'05.881"N | 80°54'49.274"W | 7812.41 | 158.503 | 0.69 | 0.32 | -0.61 | |
| 14714.00 | 90.490 | 159.250 | 6610.43 | 7903.71 | -7359.18 | 2892.52 | 1664845.93 | 14289887.02 | 39°21'04.989"N | 80°54'48.898"W | 7907.22 | 158.543 | 5.40 | 0.33 | -5.39 | |
| 14809.00 | 89.850 | 156.150 | 6610.15 | 7998.60 | -7447.06 | 2928.57 | 1664881.96 | 14289799.17 | 39°21'04.120"N | 80°54'48.440"W | 8002.20 | 158.533 | 3.33 | -0.67 | -3.26 | |
| 14904.00 | 90.000 | 156.540 | 6610.27 | 8093.38 | -7534.08 | 2966.68 | 1664920.06 | 14289712.19 | 39°21'03.260"N | 80°54'47.956"W | 8097.13 | 158.507 | 0.44 | 0.16 | 0.41 | |
| 14999.00 | 90.150 | 155.140 | 6610.15 | 8188.10 | -7620.75 | 3005.56 | 1664958.93 | 14289625.55 | 39°21'02.403"N | 80°54'47.462"W | 8192.03 | 158.476 | 1.48 | 0.16 | -1.47 | |
| 15093.00 | 89.970 | 155.930 | 6610.05 | 8281.78 | -7706.31 | 3044.49 | 1664997.84 | 14289540.02 | 39°21'01.557"N | 80°54'46.968"W | 8285.90 | 158.443 | 0.86 | -0.19 | 0.84 | |
| 15188.00 | 89.820 | 159.030 | 6610.22 | 8376.66 | -7794.06 | 3080.87 | 1665034.21 | 14289452.31 | 39°21'00.689"N | 80°54'46.506"W | 8380.88 | 158.432 | 3.27 | -0.16 | 3.26 | |
| 15282.00 | 89.630 | 164.190 | 6610.68 | 8470.60 | -7883.23 | 3110.52 | 1665063.84 | 14289363.18 | 39°20'59.808"N | 80°54'46.130"W | 8474.70 | 158.467 | 5.49 | -0.20 | 5.49 | |
| 15377.00 | 89.850 | 169.090 | 6611.11 | 8564.98 | -7975.63 | 3132.46 | 1665085.78 | 14289270.82 | 39°20'58.894"N | 80°54'45.851"W | 8568.72 | 158.557 | 5.16 | 0.23 | 5.16 | |
| 15472.00 | 90.340 | 169.310 | 6610.95 | 8658.82 | -8068.94 | 3150.26 | 1665103.57 | 14289177.54 | 39°20'57.972"N | 80°54'45.626"W | 8662.10 | 158.673 | 0.57 | 0.52 | 0.23 | |
| 15566.00 | 90.000 | 163.930 | 6610.67 | 8752.21 | -8160.36 | 3172.01 | 1665125.31 | 14289086.16 | 39°20'57.068"N | 80°54'45.350"W | 8755.17 | 158.758 | 5.73 | -0.36 | -5.72 | |
| 15661.00 | 91.290 | 157.620 | 6609.60 | 8847.15 | -8250.01 | 3203.27 | 1665156.56 | 14288996.55 | 39°20'56.182"N | 80°54'44.953"W | 8850.06 | 158.780 | 6.78 | 1.36 | -6.64 | |
| 15756.00 | 89.910 | 153.480 | 6608.61 | 8941.80 | -8336.46 | 3242.58 | 1665195.85 | 14288910.12 | 39°20'55.327"N | 80°54'44.454"W | 8944.88 | 158.746 | 4.59 | -1.45 | -4.36 | |
| 15851.00 | 89.970 | 153.750 | 6608.70 | 9036.16 | -8421.56 | 3284.80 | 1665238.05 | 14288825.06 | 39°20'54.485"N | 80°54'43.918"W | 9039.50 | 158.692 | 0.29 | 0.06 | 0.28 | |
| 15946.00 | 89.880 | 153.690 | 6608.83 | 9130.55 | -8506.75 | 3326.86 | 1665280.09 | 14288739.91 | 39°20'53.643"N | 80°54'43.383"W | 9134.15 | 158.640 | 0.11 | -0.09 | -0.06 | |
| 16041.00 | 89.750 | 154.480 | 6609.14 | 9225.00 | -8592.19 | 3368.38 | 1665321.60 | 14288654.50 | 39°20'52.798"N | 80°54'42.856"W | 9228.85 | 158.593 | 0.84 | -0.14 | 0.83 | |
| 16135.00 | 89.600 | 159.320 | 6609.67 | 9318.81 | -8678.63 | 3405.25 | 1665358.45 | 14288568.10 | 39°20'51.943"N | 80°54'42.388"W | 9322.78 | 158.576 | 5.15 | -0.16 | 5.15 | |
| 16230.00 | 89.780 | 164.160 | 6610.18 | 9413.74 | -8768.82 | 3435.00 | 1665388.19 | 14288477.94 | 39°20'51.052"N | 80°54'42.010"W | 9417.61 | 158.608 | 5.10 | 0.19 | 5.09 | |
| 16325.00 | 89.780 | 166.830 | 6610.55 | 9508.34 | -8860.78 | 3458.79 | 1665411.98 | 14288386.02 | 39°20'50.142"N | 80°54'41.708"W | 9511.92 | 158.677 | 2.81 | 0.00 | 2.81 | |
| 16419.00 | 89.850 | 168.750 | 6610.85 | 9601.52 | -8952.65 | 3478.67 | 1665431.85 | 14288294.19 | 39°20'49.234"N | 80°54'41.456"W | 9604.74 | 158.766 | 2.04 | 0.07 | 2.04 | |
| 16514.00 | 89.970 | 167.670 | 6611.00 | 9695.60 | -9045.64 | 3498.08 | 1665451.25 | 14288201.23 | 39°20'48.315"N | 80°54'41.211"W | 9698.47 | 158.858 | 1.14 | 0.13 | -1.14 | |
| 16609.00 | 90.060 | 164.110 | 6610.98 | 9790.13 | -9137.76 | 3521.24 | 1665474.40 | 14288109.15 | 39°20'47.404"N | 80°54'40.917"W | 9792.74 | 158.926 | 3.75 | 0.09 | -3.75 | |
| 16704.00 | 90.060 | 160.000 | 6610.88 | 9885.06 | -9228.12 | 3550.50 | 1665503.65 | 14288018.82 | 39°20'46.511"N | 80°54'40.546"W | 9887.58 | 158.956 | 4.33 | 0.00 | -4.33 | |
| 16782.00 | 90.000 | 156.330 | 6610.84 | 9962.99 | -9300.51 | 3579.51 | 1665532.64 | 14287946.46 | 39°20'45.795"N | 80°54'40.177"W | 9965.56 | 158.950 | 4.71 | -0.08 | -4.71 | |
| 16807.00 | 90.000 | 156.330 | 6610.84 | 9987.94 | -9323.41 | 3589.55 | 1665542.68 | 14287923.57 | 39°20'45.569"N | 80°54'40.050"W | 9990.53 | 158.943 | 0.00 | 0.00 | 0.00 | Projected MD at TD: 16807' |



Actual Wellpath Report

Goliad Unit 1H AWP Proj: 16807'

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| REFERENCE WELLPATH IDENTIFICATION | | | |
|-----------------------------------|------------------------------|----------|--------------------|
| Operator | ANTERO RESOURCES CORPORATION | Slot | Slot #11 |
| Area | Ritchie County, WV | Well | Goliad Unit 1H |
| Field | Ritchie | Wellbore | Goliad Unit 1H AWB |
| Facility | Weekley Trust Pad | | |

| HOLE & CASING SECTIONS - Ref Wellbore: Goliad Unit 1H AWB Ref Wellpath: Goliad Unit 1H AWP Proj: 16807' | | | | | | | | | |
|---|---------------|-------------|---------------|----------------|--------------|----------------|----------------|--------------|--------------|
| 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 | 24.50 | 104.50 | 80.00 | 24.50 | 104.50 | 0.00 | 0.00 | -0.67 | 0.10 |
| 17.5in Open Hole | 104.50 | 481.50 | 377.00 | 104.50 | 481.49 | -0.67 | 0.10 | -2.66 | -1.20 |
| 13.375in Casing Surface | 24.50 | 481.50 | 457.00 | 24.50 | 481.49 | 0.00 | 0.00 | -2.66 | -1.20 |
| 12.25in Open Hole | 481.50 | 2618.50 | 2137.00 | 481.49 | 2590.48 | -2.66 | -1.20 | 312.78 | 48.27 |
| 9.625in Casing Intermediate | 24.50 | 2618.50 | 2594.00 | 24.50 | 2590.48 | 0.00 | 0.00 | 312.78 | 48.27 |
| 8.75in Open Hole | 2618.50 | 5874.50 | 3256.00 | 2590.48 | 5832.24 | 312.78 | 48.27 | 499.97 | 87.72 |
| 8.5in Open Hole | 5874.50 | 16807.00 | 10932.50 | 5832.24 | 6610.84 | 499.97 | 87.72 | -9323.41 | 3589.55 |
| 5.5in Casing Production | 24.50 | 16807.00 | 16782.50 | 24.50 | 6610.84 | 0.00 | 0.00 | -9323.41 | 3589.55 |

| TARGETS | | | | | | | | |
|------------------------------|----------|------------|-----------|-------------------|--------------------|----------------|----------------|-------|
| Name | TVD [ft] | North [ft] | East [ft] | Grid East [US ft] | Grid North [US ft] | Latitude | Longitude | Shape |
| Goliad Unit 1H - POE - Rev-3 | 6562.00 | 17.19 | 251.10 | 1662205.57 | 14297260.42 | 39°22'17.918"N | 80°55'22.442"W | point |
| Goliad Unit 1H - BHL - Rev-3 | 6595.00 | -9351.15 | 3614.66 | 1665567.78 | 14287895.84 | 39°20'45.294"N | 80°54'39.731"W | point |
| Goliad Unit 1H - LP - Rev-3 | 6595.00 | -185.06 | 323.72 | 1662278.16 | 14297058.25 | 39°22'15.918"N | 80°55'21.520"W | point |



Actual Wellpath Report

Goliad Unit 1H AWP Proj: 16807'

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| REFERENCE WELLPATH IDENTIFICATION | | | |
|-----------------------------------|------------------------------|----------|--------------------|
| Operator | ANTERO RESOURCES CORPORATION | Slot | Slot #11 |
| Area | Ritchie County, WV | Well | Goliad Unit 1H |
| Field | Ritchie | Wellbore | Goliad Unit 1H AWB |
| Facility | Weekley Trust Pad | | |

| WELLPATH COMPOSITION - Ref Wellbore: Goliad Unit 1H AWB Ref Wellpath: Goliad Unit 1H AWP Proj: 16807' | | | | |
|---|-------------|---|---|--------------------|
| Start MD [ft] | End MD [ft] | Positional Uncertainty Model | Log Name/Comment | Wellbore |
| 24.50 | 430.50 | Gyrodata standard - Drop gyro or Multi-shot | 01_Gyrodata MS Gyro <17-1/2">(100'-421') | Goliad Unit 1H AWB |
| 430.50 | 2525.50 | ISCWSA MWD, Rev. 4 (Standard) | 02_WFT EM <12-1/4">(421')(529'-2516') | Goliad Unit 1H AWB |
| 2525.50 | 5800.50 | ISCWSA MWD, Rev. 4 (Standard) | 03_WFT EM <8-3/4">(2516')(2656'-5791') | Goliad Unit 1H AWB |
| 5800.50 | 16782.00 | BHI AutoTrak Curve (Short) | 04_BH AT Curve <8-1/2"> (5800.5')(5854'-16782') | Goliad Unit 1H AWB |
| 16782.00 | 16807.00 | Blind Drilling (std) | Projection to bit | Goliad Unit 1H AWB |



Actual Wellpath Report

Goliad Unit 1H AWP Proj: 16807'

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| REFERENCE WELLPATH IDENTIFICATION | | | |
|-----------------------------------|------------------------------|----------|--------------------|
| Operator | ANTERO RESOURCES CORPORATION | Slot | Slot #11 |
| Area | Ritchie County, WV | Well | Goliad Unit 1H |
| Field | Ritchie | Wellbore | Goliad Unit 1H AWB |
| Facility | Weekley Trust Pad | | |

COMMENTS

Wellpath general comments

API: 47-085-10320-0000

BHI Job #: 109674642

Rig: Frontier 22

Duration: 02/22/2019-02/26/2019

Gyrodata MS Gyro <17-1/2">(100'-421')

WFT EM <12-1/4">(421')(529'-2516')

WFT EM <8-3/4">(2516')(2656'-5791')

BH AT Curve <8-1/2"> (5800.5')(5854'-16782')

Middlesex: 6518' MD

Burkett: 6695' MD

Tully: 6773' MD

Marcellus POE: 6837' MD

Projected MD at TD: 16807'