

# ANTERO RESOURCES CORPORATION

Location: Tyler County, WV  
 Field: Tyler  
 Facility: Rush Fork Pad

Slot: Slot #14  
 Well: Robert Lee Unit 1H  
 Wellbore: Robert Lee Unit 1H PWB

|  |   |
|--|---|
| Plot reference wellpath is Robert Lee Unit 1H PWP Rev-A.0    | Grid System: NAD27 / UTM Zone 17 North, US feet |
| True vertical depths are referenced to H&P 317 (RKB)         | North Reference: North                          |
| Measured depths are referenced to H&P 317 (RKB)              | Scale: True distance                            |
| H&P 317 (RKB) to Mean Sea Level: 1011.5 feet                 | Depths are in feet                              |
| Mean Sea Level to Ground level (At Slot: Slot#14): -966 feet | Created by: delat on 2019-05-19                 |
| Coordinates are in feet referenced to Slot                   | Database: WA_MPL_EasternUS_Defn                 |

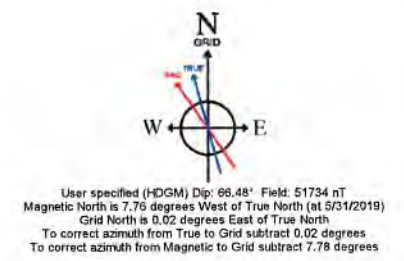
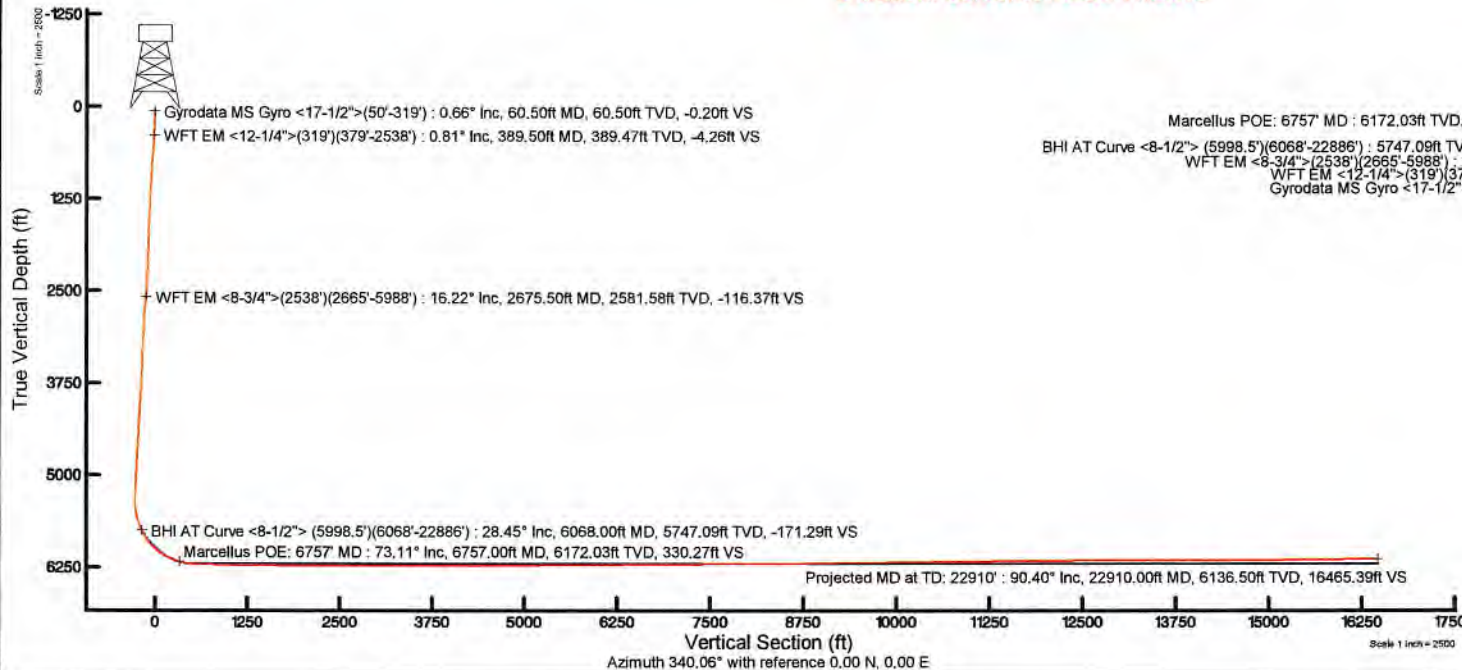
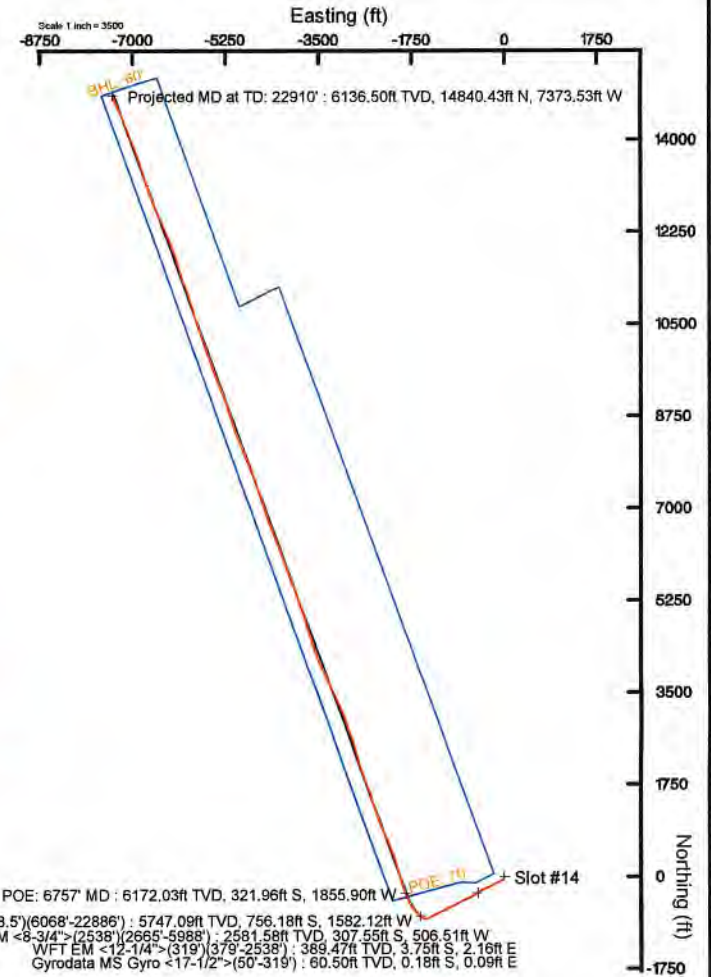
| Location Information                               |                   |                    |                   |                    |
|--|-------------------|--------------------|-------------------|--------------------|
| Facility Name                                      | Grid East (US ft) | Grid North (US ft) | Latitude          | Longitude          |
| Rush Fork Pad                                      | 1649000.970       | 14313796.070       | 39°25'01.492"N    | 80°58'10.578"W     |
| Slot   | Local N (ft)      | Local E (ft)       | Grid East (US ft) | Grid North (US ft) |
| Slot #14   | -128.70           | -18.94             | 1648982.033       | 14313667.421       |
| H&P 317 (RKB) to Ground level (At Slot: Slot #14)  |                   |                    | 25.5ft            |                    |
| Mean Sea Level to Ground level (At Slot: Slot #14) |                   |                    | -966ft            |                    |
| H&P 317 (RKB) to Mean Sea Level                    |                   |                    | 1011.5ft          |                    |

| Well Profile Data |          |         |         |          |              |              |          |
|-------------------|----------|---------|---------|----------|--------------|--------------|----------|
| Design Comment    | MD (ft)  | Inc (°) | Az (°)  | TVD (ft) | Local N (ft) | Local E (ft) | VS (ft)  |
| Tie On            | 5998.50  | 25.010  | 306.850 | 5695.29  | -776.01      | -1557.28     | -198.41  |
| Proj. To Bottom   | 6070.50  | 30.960  | 312.270 | 5748.57  | -754.07      | -1583.63     | -168.79  |
| End of 3D Arc     | 6462.00  | 51.934  | 329.605 | 6041.33  | -550.48      | -1738.35     | 75.36    |
| POE               | 6728.97  | 71.252  | 340.056 | 6168.00  | -338.56      | -1835.77     | 307.80   |
| Landing Pt.       | 6963.32  | 90.000  | 340.056 | 6206.00  | -122.17      | -1914.29     | 537.99   |
| BHL               | 22898.76 | 90.000  | 340.056 | 6206.00  | 14857.55     | -7349.99     | 16473.45 |

| Well Data |                    |                        |                                    |
|-----------|--------------------|------------------------|------------------------------------|
| Slot      | Well               | Wellbore               | Wellpath                           |
| Slot #14  | Robert Lee Unit 1H | Robert Lee Unit 1H AWB | Robert Lee Unit 1H AWP Proj: 22910 |
| Slot #14  | Robert Lee Unit 1H | Robert Lee Unit 1H PWB | Robert Lee Unit 1H PWP Rev-A.0     |



API: 47-095-02558-0000  
 BHI Job #: 109806120  
 Rig: H&P 317  
 Duration: 06/06/2019-06/11/2019





# Actual Wellpath Report

Robert Lee Unit 1H AWP Proj: 22910'

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| REFERENCE WELLPATH IDENTIFICATION |                              |          |                        |
|-----------------------------------|------------------------------|----------|------------------------|
| Operator                          | ANTERO RESOURCES CORPORATION | Slot     | Slot #14               |
| Area                              | Tyler County, WV             | Well     | Robert Lee Unit 1H     |
| Field                             | Tyler                        | Wellbore | Robert Lee Unit 1H AWB |
| Facility                          | Rush Fork Pad                |          |                        |

| REPORT SETUP INFORMATION |                                    |                      |  |
|--------------------------|------------------------------------|----------------------|--|
| Projection System        | NAD27 / UTM Zone 17 North, US feet | Software System      | WellArchitect® 5.1   |
| North Reference          | Grid                               | User                 | Delaset  |
| Scale                    | 0.999600                           | Report Generated     | 6/19/2019 at 11:46:21 PM                                     |
| Convergence at slot      | 0.02° East                         | Database/Source file | WA_MPL_EasternUS_Defn/Robert_Lee_Unit_1H_AWP_Proj_22910_.xml |

| WELLPATH LOCATION     |                   |          |                  |                 |                        |                |
|-----------------------|-------------------|----------|------------------|-----------------|------------------------|----------------|
|                       | Local coordinates |          | Grid coordinates |                 | Geographic coordinates |                |
|                       | North[ft]         | East[ft] | Easting[US ft]   | Northing[US ft] | Latitude               | Longitude      |
| Slot Location         | -128.70           | -18.94   | 1648982.03       | 14313667.42     | 39°25'00.220"N         | 80°58'10.820"W |
| Facility Reference Pt |                   |          | 1649000.97       | 14313796.07     | 39°25'01.492"N         | 80°58'10.578"W |
| Field Reference Pt    |                   |          | 0.00             | 0.00            | 0°00'00.000"           | 85°29'19.301"W |

| WELLPATH DATUM           |                   |  |                   |
|--------------------------|-------------------|--|-------------------|
| Calculation method       | Minimum curvature | H&P 317 (RKB) to Facility Vertical Datum         | 1011.50ft         |
| Horizontal Reference Pt  | Slot              | H&P 317 (RKB) to Mean Sea Level                  | 1011.50ft         |
| Vertical Reference Pt    | H&P 317 (RKB)     | H&P 317 (RKB) to Ground Level at Slot (Slot #14) | 25.50ft           |
| MD Reference Pt          | H&P 317 (RKB)     | Section Origin                                   | N 0.00, E 0.00 ft |
| Field Vertical Reference | Mean Sea Level    | Section Azimuth                                  | 340.06°           |





# Actual Wellpath Report

Robert Lee Unit 1H AWP Proj: 22910'

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| REFERENCE WELLPATH IDENTIFICATION |                              |          |                        |
|-----------------------------------|------------------------------|----------|------------------------|
| Operator                          | ANTERO RESOURCES CORPORATION | Slot     | Slot #14               |
| Area                              | Tyler County, WV             | Well     | Robert Lee Unit 1H     |
| Field                             | Tyler                        | Wellbore | Robert Lee Unit 1H AWB |
| Facility                          | Rush Fork Pad                |          |                        |

| WELLPATH DATA (271 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   | 0.00            | 152.870     | 0.00     | 0.00           | 0.00       | 0.00      | 1648982.03        | 14313667.42        | 39°25'00.220"N | 80°58'10.820"W | 0.00              | 0.000           | 0.00          | 0.00                 | 0.00                |                                      |
| 25.50  | 0.000           | 152.870     | 25.50    | 0.00           | 0.00       | 0.00      | 1648982.03        | 14313667.42        | 39°25'00.220"N | 80°58'10.820"W | 0.00              | 0.000           | 0.00          | 0.00                 | 0.00                |                                      |
| 60.50  | 0.660           | 152.870     | 60.50    | -0.20          | -0.18      | 0.09      | 1648982.12        | 14313667.24        | 39°25'00.218"N | 80°58'10.819"W | 0.20              | 152.870         | 1.89          | 1.89                 | 436.77              | Gyrodata MS Gyro <17-1/2">(50'-319') |
| 85.50  | 0.800           | 152.700     | 85.50    | -0.52          | -0.46      | 0.24      | 1648982.27        | 14313666.96        | 39°25'00.215"N | 80°58'10.817"W | 0.52              | 152.813         | 0.56          | 0.56                 | -0.68               |                                      |
| 110.50   | 1.070           | 152.960     | 110.49   | -0.92          | -0.83      | 0.42      | 1648982.46        | 14313666.60        | 39°25'00.212"N | 80°58'10.815"W | 0.93              | 152.829         | 1.08          | 1.08                 | -1.04               |                                      |
| 135.50   | 1.070           | 153.300     | 135.49   | -1.38          | -1.24      | 0.63      | 1648982.67        | 14313666.18        | 39°25'00.208"N | 80°58'10.812"W | 1.39              | 152.930         | 0.03          | 0.00                 | 1.36                |                                      |
| 160.50   | 0.800           | 152.990     | 160.49   | -1.79          | -1.61      | 0.82      | 1648982.85        | 14313665.82        | 39°25'00.204"N | 80°58'10.810"W | 1.80              | 152.983         | 1.08          | -1.08                | -1.24               |                                      |
| 185.50   | 0.770           | 147.790     | 185.48   | -2.13          | -1.90      | 0.99      | 1648983.02        | 14313665.52        | 39°25'00.201"N | 80°58'10.807"W | 2.14              | 152.578         | 0.31          | -0.12                | -20.80              |                                      |
| 210.50   | 0.530           | 151.530     | 210.48   | -2.40          | -2.15      | 1.13      | 1648983.16        | 14313665.27        | 39°25'00.199"N | 80°58'10.806"W | 2.43              | 152.197         | 0.97          | -0.96                | 14.96               |                                      |
| 235.50   | 0.500           | 137.610     | 235.48   | -2.62          | -2.33      | 1.26      | 1648983.29        | 14313665.09        | 39°25'00.197"N | 80°58'10.804"W | 2.65              | 151.574         | 0.51          | -0.12                | -55.68              |                                      |
| 260.50   | 0.520           | 136.030     | 260.48   | -2.82          | -2.49      | 1.41      | 1648983.45        | 14313664.93        | 39°25'00.195"N | 80°58'10.802"W | 2.86              | 150.439         | 0.10          | 0.08                 | -6.32               |                                      |
| 285.50   | 0.570           | 139.480     | 285.48   | -3.04          | -2.67      | 1.57      | 1648983.61        | 14313664.75        | 39°25'00.194"N | 80°58'10.800"W | 3.10              | 149.480         | 0.24          | 0.20                 | 13.80               |                                      |
| 310.50   | 0.690           | 139.000     | 310.48   | -3.30          | -2.88      | 1.75      | 1648983.78        | 14313664.55        | 39°25'00.192"N | 80°58'10.798"W | 3.37              | 148.646         | 0.48          | 0.48                 | -1.92               |                                      |
| 329.50   | 0.650           | 146.070     | 329.48   | -3.51          | -3.05      | 1.89      | 1648983.92        | 14313664.37        | 39°25'00.190"N | 80°58'10.796"W | 3.59              | 148.263         | 0.48          | -0.21                | 37.21               |                                      |
| 389.50   | 0.810           | 169.280     | 389.47   | -4.26          | -3.75      | 2.16      | 1648984.19        | 14313663.67        | 39°25'00.183"N | 80°58'10.793"W | 4.33              | 150.105         | 0.55          | 0.27                 | 38.68               | WFT EM <12-1/4">(319')(379'-2538')   |
| 482.50   | 3.260           | 186.630     | 482.41   | -7.28          | -7.02      | 1.97      | 1648984.01        | 14313660.40        | 39°25'00.151"N | 80°58'10.795"W | 7.30              | 164.307         | 2.69          | 2.63                 | 18.66               |                                      |
| 594.50   | 5.930           | 192.710     | 594.04   | -15.00         | -15.83     | 0.33      | 1648982.37        | 14313651.59        | 39°25'00.064"N | 80°58'10.816"W | 15.84             | 178.797         | 2.42          | 2.38                 | 5.43                |                                      |
| 688.50   | 6.650           | 204.260     | 687.47   | -22.99         | -25.53     | -2.97     | 1648979.06        | 14313641.90        | 39°24'59.968"N | 80°58'10.858"W | 25.70             | 186.640         | 1.54          | 0.77                 | 12.29               |                                      |
| 780.50   | 7.890           | 222.440     | 778.74   | -29.74         | -35.05     | -9.42     | 1648972.61        | 14313632.38        | 39°24'59.874"N | 80°58'10.940"W | 36.29             | 195.048         | 2.82          | 1.35                 | 19.76               |                                      |
| 969.50   | 11.510          | 233.340     | 965.03   | -41.18         | -55.89     | -33.31    | 1648948.73        | 14313611.55        | 39°24'59.668"N | 80°58'11.245"W | 65.07             | 210.797         | 2.14          | 1.92                 | 5.77                |                                      |
| 1064.50  | 11.940          | 233.270     | 1058.04  | -46.74         | -67.43     | -48.79    | 1648933.26        | 14313600.02        | 39°24'59.554"N | 80°58'11.442"W | 83.23             | 215.891         | 0.45          | 0.45                 | -0.07               |                                      |
| 1158.50  | 13.730          | 237.340     | 1149.69  | -52.01         | -79.26     | -65.98    | 1648916.08        | 14313588.19        | 39°24'59.437"N | 80°58'11.661"W | 103.13            | 219.774         | 2.13          | 1.90                 | 4.33                |                                      |
| 1253.50  | 15.490          | 244.470     | 1241.63  | -55.73         | -90.82     | -86.92    | 1648895.15        | 14313576.64        | 39°24'59.323"N | 80°58'11.928"W | 125.71            | 223.745         | 2.65          | 1.85                 | 7.51                |                                      |
| 1348.50  | 18.430          | 244.230     | 1332.48  | -58.49         | -102.82    | -111.90   | 1648870.18        | 14313564.65        | 39°24'59.204"N | 80°58'12.246"W | 151.96            | 227.422         | 3.10          | 3.09                 | -0.25               |                                      |
| 1443.50  | 19.550          | 239.780     | 1422.32  | -62.85         | -117.35    | -139.16   | 1648842.93        | 14313550.12        | 39°24'59.061"N | 80°58'12.594"W | 182.03            | 229.861         | 1.93          | 1.18                 | -4.68               |                                      |
| 1538.50  | 20.530          | 239.670     | 1511.56  | -68.69         | -133.76    | -167.27   | 1648814.83        | 14313533.72        | 39°24'58.899"N | 80°58'12.952"W | 214.18            | 231.353         | 1.03          | 1.03                 | -0.12               |                                      |
| 1632.50  | 20.280          | 240.270     | 1599.67  | -74.44         | -150.16    | -195.64   | 1648786.47        | 14313517.32        | 39°24'58.737"N | 80°58'13.313"W | 246.63            | 232.493         | 0.35          | -0.27                | 0.64                |                                      |
| 1727.50  | 20.090          | 241.070     | 1688.83  | -79.79         | -166.22    | -224.22   | 1648757.90        | 14313501.27        | 39°24'58.578"N | 80°58'13.678"W | 279.11            | 233.450         | 0.35          | -0.20                | 0.84                |                                      |
| 1822.50  | 19.410          | 245.330     | 1778.25  | -83.64         | -180.70    | -252.85   | 1648729.29        | 14313486.79        | 39°24'58.435"N | 80°58'14.042"W | 310.78            | 234.448         | 1.68          | -0.72                | 4.48                |                                      |
| 1917.50  | 21.740          | 248.290     | 1867.18  | -85.48         | -193.80    | -283.54   | 1648698.60        | 14313473.70        | 39°24'58.306"N | 80°58'14.434"W | 343.45            | 235.648         | 2.69          | 2.45                 | 3.12                |                                      |





# Actual Wellpath Report

Robert Lee Unit 1H AWP Proj: 22910'

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| REFERENCE WELLPATH IDENTIFICATION |                              |  |          |                        |
|-----------------------------------|------------------------------|--|----------|------------------------|
| Operator                          | ANTERO RESOURCES CORPORATION |  | Slot     | Slot #14               |
| Area                              | Tyler County, WV             |  | Well     | Robert Lee Unit 1H     |
| Field                             | Tyler                        |  | Wellbore | Robert Lee Unit 1H AWP |
| Facility                          | Rush Fork Pad                |  |          |                        |

| WELLPATH DATA (271 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 (ft/100ft) | Build Rate (ft/100ft) | Turn Rate (ft/100ft) | Comments                            |
| 2012.50                      | 23.330          | 248.420     | 1954.93  | -86.56         | -207.23    | -317.38   | 1648664.78        | 14313460.28        | 39°24'58.173"N | 80°58'14.865"W | 379.05            | 236.859         | 1.67           | 1.67                  | 0.14                 |                                     |
| 2107.50                      | 22.220          | 247.450     | 2042.52  | -87.92         | -221.03    | -351.47   | 1648630.71        | 14313446.47        | 39°24'58.037"N | 80°58'15.299"W | 415.19            | 237.835         | 1.23           | -1.17                 | -1.02                |                                     |
| 2265.50                      | 19.090          | 243.450     | 2190.35  | -92.26         | -244.05    | -402.19   | 1648580.01        | 14313423.47        | 39°24'57.809"N | 80°58'15.945"W | 470.44            | 238.751         | 2.17           | -1.98                 | -2.53                |                                     |
| 2455.50                      | 17.980          | 239.870     | 2370.50  | -101.02        | -272.66    | -455.35   | 1648526.87        | 14313394.87        | 39°24'57.527"N | 80°58'16.623"W | 530.74            | 239.087         | 0.84           | -0.58                 | -1.88                |                                     |
| 2548.50                      | 15.770          | 235.470     | 2459.49  | -106.75        | -287.03    | -478.18   | 1648504.05        | 14313380.51        | 39°24'57.385"N | 80°58'16.914"W | 557.71            | 239.025         | 2.74           | -2.38                 | -4.73                |                                     |
| 2675.50                      | 16.220          | 232.750     | 2581.58  | -116.37        | -307.55    | -506.51   | 1648475.72        | 14313360.00        | 39°24'57.182"N | 80°58'17.275"W | 592.57            | 238.735         | 0.69           | 0.35                  | -2.14                | WFT EM <8-3/4">(2538')(2665'-5988') |
| 2770.50                      | 18.420          | 233.360     | 2672.27  | -124.63        | -324.54    | -529.12   | 1648453.13        | 14313343.01        | 39°24'57.014"N | 80°58'17.563"W | 620.72            | 238.477         | 2.32           | 2.32                  | 0.64                 |                                     |
| 2865.50                      | 20.650          | 237.190     | 2761.80  | -132.68        | -342.57    | -555.25   | 1648427.01        | 14313324.98        | 39°24'56.836"N | 80°58'17.896"W | 652.42            | 238.326         | 2.71           | 2.35                  | 4.03                 |                                     |
| 2960.50                      | 21.390          | 241.780     | 2850.48  | -138.90        | -359.84    | -584.59   | 1648397.68        | 14313307.72        | 39°24'56.665"N | 80°58'18.270"W | 686.47            | 238.386         | 1.90           | 0.78                  | 4.83                 |                                     |
| 3059.50                      | 20.950          | 240.620     | 2942.80  | -144.41        | -377.06    | -615.92   | 1648366.36        | 14313290.51        | 39°24'56.495"N | 80°58'18.669"W | 722.18            | 238.525         | 0.61           | -0.44                 | -1.17                |                                     |
| 3154.50                      | 21.550          | 243.710     | 3031.34  | -149.12        | -393.12    | -646.37   | 1648335.93        | 14313274.45        | 39°24'56.337"N | 80°58'19.057"W | 756.53            | 238.692         | 1.34           | 0.63                  | 3.25                 |                                     |
| 3249.50                      | 21.340          | 243.370     | 3119.76  | -153.07        | -408.60    | -677.46   | 1648304.84        | 14313258.99        | 39°24'56.184"N | 80°58'19.454"W | 791.14            | 238.904         | 0.26           | -0.22                 | -0.36                |                                     |
| 3344.50                      | 20.990          | 244.090     | 3208.36  | -156.85        | -423.78    | -708.22   | 1648274.10        | 14313243.81        | 39°24'56.034"N | 80°58'19.845"W | 825.33            | 239.105         | 0.46           | -0.37                 | 0.76                 |                                     |
| 3439.50                      | 21.390          | 243.150     | 3296.93  | -160.70        | -439.04    | -738.98   | 1648243.35        | 14313228.56        | 39°24'55.883"N | 80°58'20.237"W | 859.56            | 239.285         | 0.55           | 0.42                  | -0.99                |                                     |
| 3534.50                      | 21.930          | 247.270     | 3385.23  | -163.65        | -453.72    | -770.80   | 1648211.54        | 14313213.88        | 39°24'55.738"N | 80°58'20.643"W | 894.42            | 239.517         | 1.70           | 0.57                  | 4.34                 |                                     |
| 3628.50                      | 21.530          | 245.480     | 3472.55  | -165.88        | -467.66    | -802.68   | 1648179.67        | 14313199.95        | 39°24'55.600"N | 80°58'21.049"W | 928.98            | 239.774         | 0.82           | -0.43                 | -1.90                |                                     |
| 3723.50                      | 21.530          | 244.460     | 3560.92  | -168.98        | -482.41    | -834.27   | 1648148.10        | 14313185.20        | 39°24'55.455"N | 80°58'21.452"W | 963.71            | 239.962         | 0.39           | 0.00                  | -1.07                |                                     |
| 3818.50                      | 21.660          | 240.550     | 3649.26  | -173.57        | -498.55    | -865.27   | 1648117.11        | 14313169.07        | 39°24'55.295"N | 80°58'21.847"W | 998.62            | 240.050         | 1.52           | 0.14                  | -4.12                |                                     |
| 3913.50                      | 21.250          | 240.600     | 3737.68  | -179.30        | -515.62    | -895.53   | 1648086.86        | 14313152.01        | 39°24'55.127"N | 80°58'22.232"W | 1033.37           | 240.088         | 0.43           | -0.43                 | 0.05                 |                                     |
| 4008.50                      | 21.630          | 240.790     | 3826.10  | -184.95        | -532.62    | -925.81   | 1648056.59        | 14313135.02        | 39°24'54.959"N | 80°58'22.618"W | 1068.09           | 240.088         | 0.41           | 0.40                  | 0.20                 |                                     |
| 4103.50                      | 21.260          | 242.700     | 3914.53  | -189.98        | -549.06    | -956.40   | 1648026.01        | 14313118.58        | 39°24'54.796"N | 80°58'23.008"W | 1102.80           | 240.140         | 0.83           | -0.39                 | 2.01                 |                                     |
| 4198.50                      | 21.190          | 244.010     | 4003.08  | -193.99        | -564.48    | -987.14   | 1647995.29        | 14313103.16        | 39°24'54.644"N | 80°58'23.400"W | 1137.14           | 240.237         | 0.50           | -0.07                 | 1.38                 |                                     |
| 4293.50                      | 21.910          | 242.280     | 4091.44  | -198.20        | -580.25    | -1018.27  | 1647964.18        | 14313087.40        | 39°24'54.488"N | 80°58'23.796"W | 1171.99           | 240.324         | 1.01           | 0.76                  | -1.82                |                                     |
| 4387.50                      | 21.720          | 242.120     | 4178.71  | -202.98        | -596.54    | -1049.16  | 1647933.29        | 14313071.12        | 39°24'54.327"N | 80°58'24.190"W | 1206.90           | 240.378         | 0.21           | -0.20                 | -0.17                |                                     |
| 4482.50                      | 21.220          | 241.590     | 4267.12  | -207.94        | -612.94    | -1079.83  | 1647902.64        | 14313054.72        | 39°24'54.165"N | 80°58'24.581"W | 1241.66           | 240.419         | 0.56           | -0.53                 | -0.56                |                                     |
| 4577.50                      | 21.070          | 242.040     | 4355.72  | -212.85        | -629.13    | -1110.03  | 1647872.45        | 14313038.54        | 39°24'54.005"N | 80°58'24.966"W | 1275.92           | 240.457         | 0.23           | -0.16                 | 0.47                 |                                     |
| 4672.50                      | 20.690          | 241.990     | 4444.48  | -217.59        | -645.02    | -1139.93  | 1647842.56        | 14313022.66        | 39°24'53.848"N | 80°58'25.347"W | 1309.77           | 240.497         | 0.40           | -0.40                 | -0.05                |                                     |
| 4766.50                      | 20.790          | 242.560     | 4532.39  | -222.10        | -660.51    | -1169.40  | 1647813.11        | 14313007.18        | 39°24'53.696"N | 80°58'25.722"W | 1343.04           | 240.541         | 0.24           | 0.11                  | 0.61                 |                                     |
| 4861.50                      | 20.410          | 241.090     | 4621.32  | -226.89        | -676.28    | -1198.86  | 1647783.65        | 14312991.41        | 39°24'53.540"N | 80°58'26.098"W | 1376.45           | 240.572         | 0.68           | -0.40                 | -1.55                |                                     |
| 4956.50                      | 19.860          | 240.970     | 4710.61  | -232.02        | -692.12    | -1227.47  | 1647755.06        | 14312975.58        | 39°24'53.383"N | 80°58'26.462"W | 1409.15           | 240.583         | 0.58           | -0.58                 | -0.13                |                                     |





# Actual Wellpath Report

Robert Lee Unit 1H AWP Proj: 22910'

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## REFERENCE WELLPATH IDENTIFICATION

|          |                              |          |                        |
|----------|------------------------------|----------|------------------------|
| Operator | ANTERO RESOURCES CORPORATION | Slot     | Slot #14               |
| Area     | Tyler County, WV             | Well     | Robert Lee Unit 1H     |
| Field    | Tyler                        | Wellbore | Robert Lee Unit 1H AWB |
| Facility | Rush Fork Pad                |          |                        |

## WELLPATH DATA (271 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                                      |
|----------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|----------------|----------------|-------------------|-----------------|---------------|----------------------|---------------------|---|
| 5050.50  | 20.350          | 241.960     | 4798.78  | -236.84        | -707.55    | -1255.86  | 1647726.68        | 14312960.15        | 39°24'53.231"N | 80°58'26.824"W | 1441.46           | 240.603         | 0.63          | 0.52                 | 1.05                |   |
| 5144.50  | 20.890          | 242.340     | 4886.76  | -241.40        | -723.02    | -1285.13  | 1647697.42        | 14312944.69        | 39°24'53.078"N | 80°58'27.197"W | 1474.55           | 240.638         | 0.59          | 0.57                 | 0.40                |   |
| 5239.50  | 21.430          | 241.720     | 4975.36  | -246.19        | -739.10    | -1315.41  | 1647667.15        | 14312928.62        | 39°24'52.919"N | 80°58'27.583"W | 1508.84           | 240.669         | 0.62          | 0.57                 | -0.65               |   |
| 5334.50  | 21.790          | 242.260     | 5063.68  | -251.10        | -755.53    | -1346.30  | 1647636.27        | 14312912.19        | 39°24'52.757"N | 80°58'27.977"W | 1543.81           | 240.699         | 0.43          | 0.38                 | 0.57                |   |
| 5429.50  | 21.800          | 242.230     | 5151.89  | -255.90        | -771.96    | -1377.52  | 1647605.07        | 14312895.77        | 39°24'52.595"N | 80°58'28.374"W | 1579.07           | 240.734         | 0.02          | 0.01                 | -0.03               |   |
| 5524.50  | 20.720          | 242.550     | 5240.42  | -260.50        | -787.92    | -1408.04  | 1647574.56        | 14312879.81        | 39°24'52.437"N | 80°58'28.763"W | 1613.51           | 240.769         | 1.14          | -1.14                | 0.34                |   |
| 5619.50  | 19.460          | 243.770     | 5329.64  | -264.43        | -802.67    | -1437.15  | 1647545.46        | 14312865.08        | 39°24'52.291"N | 80°58'29.134"W | 1646.11           | 240.816         | 1.40          | -1.33                | 1.28                |   |
| 5650.50  | 17.750          | 250.330     | 5359.02  | -264.97        | -806.54    | -1446.23  | 1647536.38        | 14312861.21        | 39°24'52.253"N | 80°58'29.250"W | 1655.93           | 240.852         | 8.71          | -5.52                | 21.16               |   |
| 5682.50  | 16.870          | 257.820     | 5389.58  | -264.32        | -809.16    | -1455.37  | 1647527.25        | 14312858.59        | 39°24'52.227"N | 80°58'29.367"W | 1665.18           | 240.927         | 7.48          | -2.75                | 23.41               |   |
| 5714.50  | 16.940          | 266.210     | 5420.20  | -262.40        | -810.45    | -1464.56  | 1647518.06        | 14312857.30        | 39°24'52.214"N | 80°58'29.484"W | 1673.84           | 241.041         | 7.62          | 0.22                 | 26.22               |   |
| 5745.50  | 17.830          | 272.050     | 5449.78  | -259.36        | -810.58    | -1473.81  | 1647508.82        | 14312857.17        | 39°24'52.213"N | 80°58'29.601"W | 1682.01           | 241.190         | 6.32          | 2.87                 | 18.84               |   |
| 5777.50  | 18.500          | 277.580     | 5480.19  | -255.18        | -809.73    | -1483.74  | 1647498.89        | 14312858.01        | 39°24'52.222"N | 80°58'29.728"W | 1690.31           | 241.377         | 5.78          | 2.09                 | 17.28               |   |
| 5808.50  | 19.390          | 282.250     | 5509.51  | -250.17        | -807.99    | -1493.64  | 1647488.99        | 14312859.75        | 39°24'52.239"N | 80°58'29.854"W | 1698.18           | 241.589         | 5.67          | 2.87                 | 15.06               |   |
| 5840.50  | 20.010          | 286.780     | 5539.64  | -244.06        | -805.28    | -1504.08  | 1647478.56        | 14312862.46        | 39°24'52.266"N | 80°58'29.987"W | 1706.08           | 241.835         | 5.15          | 1.94                 | 14.16               |   |
| 5872.50  | 20.740          | 292.420     | 5569.64  | -236.97        | -801.54    | -1514.56  | 1647468.09        | 14312866.20        | 39°24'52.303"N | 80°58'30.121"W | 1713.58           | 242.111         | 6.54          | 2.28                 | 17.63               |   |
| 5903.50  | 21.820          | 297.380     | 5598.53  | -229.04        | -796.80    | -1524.75  | 1647457.90        | 14312870.94        | 39°24'52.349"N | 80°58'30.250"W | 1720.39           | 242.409         | 6.77          | 3.48                 | 16.00               |   |
| 5935.50  | 23.460          | 301.010     | 5628.06  | -219.72        | -790.78    | -1535.49  | 1647447.16        | 14312876.96        | 39°24'52.409"N | 80°58'30.387"W | 1727.15           | 242.751         | 6.73          | 5.12                 | 11.34               |   |
| 5967.50  | 24.710          | 304.230     | 5657.28  | -209.35        | -783.74    | -1546.48  | 1647436.18        | 14312884.00        | 39°24'52.479"N | 80°58'30.527"W | 1733.74           | 243.125         | 5.67          | 3.91                 | 10.06               |   |
| 5998.50  | 26.010          | 306.850     | 5685.29  | -198.41        | -776.01    | -1557.28  | 1647425.38        | 14312891.72        | 39°24'52.555"N | 80°58'30.665"W | 1739.92           | 243.512         | 5.54          | 4.19                 | 8.45                |   |
| 6068.00  | 28.450          | 310.210     | 5747.09  | -171.29        | -756.18    | -1582.12  | 1647400.55        | 14312911.54        | 39°24'52.751"N | 80°58'30.981"W | 1753.54           | 244.454         | 4.15          | 3.51                 | 4.83                | BHI AT Curve <8-1/2"> (5998.5')(6068'-22886') |
| 6141.00  | 32.080          | 314.430     | 5810.14  | -138.72        | -731.38    | -1609.25  | 1647373.43        | 14312936.34        | 39°24'52.996"N | 80°58'31.327"W | 1767.66           | 245.559         | 5.76          | 4.97                 | 5.78                |   |
| 6188.00  | 35.540          | 316.270     | 5849.18  | -114.96        | -712.76    | -1627.61  | 1647355.07        | 14312954.94        | 39°24'53.180"N | 80°58'31.561"W | 1776.84           | 246.350         | 7.68          | 7.36                 | 3.91                |   |
| 6236.00  | 38.560          | 317.850     | 5887.49  | -88.34         | -691.59    | -1647.30  | 1647335.39        | 14312976.11        | 39°24'53.390"N | 80°58'31.812"W | 1786.59           | 247.226         | 6.60          | 6.29                 | 3.29                |   |
| 6283.00  | 41.660          | 319.630     | 5923.43  | -60.13         | -668.82    | -1667.26  | 1647315.45        | 14312998.87        | 39°24'53.615"N | 80°58'32.066"W | 1796.40           | 248.142         | 7.03          | 6.60                 | 3.79                |   |
| 6330.00  | 44.960          | 322.830     | 5957.63  | -29.62         | -643.68    | -1687.41  | 1647295.30        | 14313024.00        | 39°24'53.863"N | 80°58'32.322"W | 1806.01           | 249.120         | 8.43          | 7.02                 | 6.81                |   |
| 6377.00  | 48.200          | 325.190     | 5989.93  | 3.19           | -616.05    | -1707.45  | 1647275.27        | 14313051.62        | 39°24'54.136"N | 80°58'32.578"W | 1815.19           | 250.161         | 7.80          | 6.89                 | 5.02                |   |
| 6427.00  | 51.740          | 327.600     | 6022.09  | 40.38          | -584.16    | -1728.62  | 1647254.11        | 14313083.49        | 39°24'54.452"N | 80°58'32.847"W | 1824.66           | 251.328         | 7.98          | 7.08                 | 4.82                |   |
| 6474.00  | 54.850          | 329.770     | 6050.18  | 77.32          | -551.97    | -1748.19  | 1647234.55        | 14313115.67        | 39°24'54.770"N | 80°58'33.097"W | 1833.26           | 252.477         | 7.58          | 6.62                 | 4.62                |   |
| 6480.00† | 55.278          | 330.083     | 6053.62  | 82.16          | -547.71    | -1750.65  | 1647232.08        | 14313119.93        | 39°24'54.812"N | 80°58'33.128"W | 1834.33           | 252.627         | 8.32          | 7.14                 | 5.22                | Middlesex: 6480' MD                           |
| 6523.00  | 58.370          | 332.240     | 6077.15  | 117.71         | -516.19    | -1768.00  | 1647214.75        | 14313151.44        | 39°24'55.124"N | 80°58'33.349"W | 1841.81           | 253.724         | 8.32          | 7.19                 | 5.02                |   |





# Actual Wellpath Report

Robert Lee Unit 1H AWP Proj: 22910'

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| REFERENCE WELLPATH IDENTIFICATION |                              |  |          |                        |
|-----------------------------------|------------------------------|--|----------|------------------------|
| Operator                          | ANTERO RESOURCES CORPORATION |  | Slot     | Slot #14               |
| Area                              | Tyler County, WV             |  | Well     | Robert Lee Unit 1H     |
| Field                             | Tyler                        |  | Wellbore | Robert Lee Unit 1H AWP |
| Facility                          | Rush Fork Pad                |  |          |                        |

| WELLPATH DATA (271 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 (ft/100ft) | Build Rate (ft/100ft) | Turn Rate (ft/100ft) | Comments                |
| 6570.00  | 61.770          | 335.130     | 6100.60  | 158.18         | -479.68    | -1786.03  | 1647196.72        | 14313187.94        | 39°24'55.484"N | 80°58'33.578"W | 1849.33           | 254.967         | 8.98           | 7.23                  | 6.15                 |                         |
| 6619.00  | 65.030          | 335.950     | 6122.53  | 201.85         | -439.80    | -1804.17  | 1647178.59        | 14313227.80        | 39°24'55.879"N | 80°58'33.809"W | 1857.00           | 256.300         | 6.82           | 6.65                  | 1.67                 |                         |
| 6666.00  | 67.790          | 335.950     | 6141.34  | 244.81         | -400.47    | -1821.72  | 1647161.05        | 14313267.11        | 39°24'56.267"N | 80°58'34.033"W | 1865.22           | 257.602         | 5.87           | 5.87                  | 0.00                 |                         |
| 6683.00†   | 68.668          | 336.045     | 6147.65  | 260.56         | -386.05    | -1828.14  | 1647154.63        | 14313281.53        | 39°24'56.410"N | 80°58'34.115"W | 1868.46           | 258.076         | 5.19           | 5.16                  | 0.56                 | Burkett: 6683' MD       |
| 6715.00  | 70.320          | 336.220     | 6158.86  | 290.46         | -358.64    | -1840.27  | 1647142.50        | 14313308.92        | 39°24'56.681"N | 80°58'34.269"W | 1874.89           | 258.972         | 5.19           | 5.16                  | 0.55                 |                         |
| 6757.00†   | 73.108          | 337.599     | 6172.03  | 330.27         | -321.96    | -1855.90  | 1647126.88        | 14313345.59        | 39°24'57.043"N | 80°58'34.468"W | 1883.62           | 260.158         | 7.33           | 6.64                  | 3.28                 | Marcellus POE: 6757' MD |
| 6762.00  | 73.440          | 337.760     | 6173.47  | 335.05         | -317.53    | -1857.72  | 1647125.06        | 14313350.02        | 39°24'57.087"N | 80°58'34.491"W | 1884.66           | 260.300         | 7.33           | 6.65                  | 3.23                 |                         |
| 6811.00  | 76.170          | 340.320     | 6186.32  | 382.33         | -273.38    | -1874.63  | 1647108.16        | 14313394.15        | 39°24'57.524"N | 80°58'34.707"W | 1894.46           | 261.703         | 7.51           | 5.57                  | 5.22                 |                         |
| 6858.00  | 79.670          | 343.220     | 6196.15  | 428.25         | -229.74    | -1888.99  | 1647093.80        | 14313437.78        | 39°24'57.955"N | 80°58'34.889"W | 1902.91           | 263.066         | 9.58           | 7.45                  | 6.17                 |                         |
| 6907.00  | 83.930          | 344.340     | 6203.14  | 476.64         | -183.18    | -1902.53  | 1647080.26        | 14313484.32        | 39°24'58.415"N | 80°58'35.062"W | 1911.33           | 264.500         | 8.98           | 8.69                  | 2.29                 |                         |
| 6954.00  | 86.400          | 342.910     | 6207.10  | 523.37         | -138.25    | -1915.74  | 1647067.07        | 14313529.23        | 39°24'58.859"N | 80°58'35.230"W | 1920.72           | 265.872         | 6.07           | 5.26                  | -3.04                |                         |
| 7001.00  | 88.920          | 342.430     | 6209.02  | 570.28         | -93.42     | -1929.73  | 1647053.08        | 14313574.03        | 39°24'59.302"N | 80°58'35.408"W | 1931.99           | 267.228         | 5.46           | 5.36                  | -1.02                |                         |
| 7097.00  | 88.520          | 342.780     | 6211.17  | 666.16         | -1.84      | -1958.42  | 1647024.40        | 14313665.58        | 39°25'00.208"N | 80°58'35.773"W | 1958.42           | 269.946         | 0.55           | -0.42                 | 0.36                 |                         |
| 7192.00  | 88.340          | 343.560     | 6213.77  | 760.99         | 89.06      | -1985.91  | 1646996.92        | 14313756.44        | 39°25'01.106"N | 80°58'36.123"W | 1987.91           | 272.568         | 0.84           | -0.19                 | 0.82                 |                         |
| 7288.00  | 88.340          | 343.570     | 6216.55  | 856.77         | 181.10     | -2013.06  | 1646969.78        | 14313848.45        | 39°25'02.016"N | 80°58'36.469"W | 2021.19           | 275.141         | 0.01           | 0.00                  | 0.01                 |                         |
| 7384.00  | 89.600          | 341.910     | 6218.27  | 952.64         | 272.75     | -2041.54  | 1646941.31        | 14313940.07        | 39°25'02.922"N | 80°58'36.832"W | 2059.68           | 277.610         | 2.17           | 1.31                  | -1.73                |                         |
| 7480.00  | 89.600          | 340.850     | 6218.95  | 1048.61        | 363.73     | -2072.19  | 1646910.67        | 14314031.00        | 39°25'03.821"N | 80°58'37.222"W | 2103.87           | 279.956         | 1.10           | 0.00                  | -1.10                |                         |
| 7575.00  | 89.540          | 340.010     | 6219.66  | 1143.61        | 453.23     | -2104.01  | 1646878.87        | 14314120.47        | 39°25'04.706"N | 80°58'37.627"W | 2152.27           | 282.157         | 0.89           | -0.06                 | -0.88                |                         |
| 7669.00  | 89.660          | 338.400     | 6220.31  | 1237.59        | 541.11     | -2137.38  | 1646845.51        | 14314208.31        | 39°25'05.574"N | 80°58'38.052"W | 2204.81           | 284.207         | 1.72           | 0.13                  | -1.71                |                         |
| 7764.00  | 89.540          | 337.270     | 6220.98  | 1332.52        | 629.08     | -2173.22  | 1646809.68        | 14314296.25        | 39°25'06.444"N | 80°58'38.508"W | 2262.44           | 286.144         | 1.20           | -0.13                 | -1.19                |                         |
| 7859.00  | 89.420          | 336.920     | 6221.84  | 1427.38        | 716.59     | -2210.19  | 1646772.73        | 14314383.72        | 39°25'07.309"N | 80°58'38.979"W | 2323.46           | 287.964         | 0.39           | -0.13                 | -0.37                |                         |
| 7955.00  | 89.600          | 336.130     | 6222.66  | 1523.20        | 804.64     | -2248.43  | 1646734.50        | 14314471.74        | 39°25'08.179"N | 80°58'39.466"W | 2388.07           | 289.691         | 0.84           | 0.19                  | -0.82                |                         |
| 8050.00  | 89.570          | 336.930     | 6223.35  | 1618.01        | 891.78     | -2286.27  | 1646696.68        | 14314558.84        | 39°25'09.040"N | 80°58'39.948"W | 2454.03           | 291.309         | 0.84           | -0.03                 | 0.84                 |                         |
| 8144.00  | 89.600          | 338.330     | 6224.03  | 1711.92        | 978.70     | -2322.04  | 1646660.92        | 14314645.72        | 39°25'09.900"N | 80°58'40.403"W | 2519.87           | 292.855         | 1.49           | 0.03                  | 1.49                 |                         |
| 8239.00  | 89.570          | 340.590     | 6224.72  | 1806.91        | 1067.65    | -2355.37  | 1646627.61        | 14314734.64        | 39°25'10.779"N | 80°58'40.828"W | 2586.05           | 294.384         | 2.38           | -0.03                 | 2.38                 |                         |
| 8336.00  | 89.630          | 341.010     | 6225.40  | 1903.90        | 1159.25    | -2387.27  | 1646595.72        | 14314826.21        | 39°25'11.684"N | 80°58'41.234"W | 2653.85           | 295.901         | 0.44           | 0.06                  | 0.43                 |                         |
| 8431.00  | 89.630          | 343.140     | 6226.01  | 1998.83        | 1249.63    | -2416.51  | 1646566.50        | 14314916.55        | 39°25'12.578"N | 80°58'41.606"W | 2720.49           | 297.345         | 2.24           | 0.00                  | 2.24                 |                         |
| 8526.00  | 89.630          | 343.410     | 6226.62  | 2093.68        | 1340.61    | -2443.84  | 1646539.17        | 14315007.49        | 39°25'13.477"N | 80°58'41.954"W | 2787.40           | 298.748         | 0.28           | 0.00                  | 0.28                 |                         |
| 8622.00  | 89.570          | 343.230     | 6227.29  | 2189.52        | 1432.57    | -2471.40  | 1646511.63        | 14315099.42        | 39°25'14.386"N | 80°58'42.305"W | 2856.58           | 300.099         | 0.20           | -0.06                 | -0.19                |                         |
| 8717.00  | 89.570          | 341.690     | 6228.01  | 2284.44        | 1523.15    | -2500.03  | 1646483.01        | 14315189.96        | 39°25'15.281"N | 80°58'42.670"W | 2927.48           | 301.352         | 1.62           | 0.00                  | -1.62                |                         |





# Actual Wellpath Report

Robert Lee Unit 1H AWP Proj: 22910'

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| REFERENCE WELLPATH IDENTIFICATION |                              |  |          |                        |
|-----------------------------------|------------------------------|--|----------|------------------------|
| Operator                          | ANTERO RESOURCES CORPORATION |  | Slot     | Slot #14               |
| Area                              | Tyler County, WV             |  | Well     | Robert Lee Unit 1H     |
| Field                             | Tyler                        |  | Wellbore | Robert Lee Unit 1H AWB |
| Facility                          | Rush Fork Pad                |  |          |                        |

| WELLPATH DATA (271 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 |
| 8812.00                      | 89.630          | 339.340     | 6228.67  | 2379.42        | 1612.70    | -2531.71  | 1646451.34        | 14315279.47        | 39°25'16.166"N | 80°58'43.073"W | 3001.73           | 302.497         | 2.47          | 0.06                 | -2.47               |          |
| 8907.00                      | 89.910          | 338.990     | 6229.05  | 2474.41        | 1701.49    | -2565.50  | 1646417.56        | 14315368.22        | 39°25'17.044"N | 80°58'43.503"W | 3078.45           | 303.553         | 0.47          | 0.29                 | -0.37               |          |
| 9001.00                      | 89.880          | 339.150     | 6229.22  | 2568.40        | 1789.28    | -2599.08  | 1646384.00        | 14315455.99        | 39°25'17.912"N | 80°58'43.931"W | 3155.43           | 304.545         | 0.17          | -0.03                | 0.17                |          |
| 9096.00                      | 89.910          | 339.220     | 6229.40  | 2663.39        | 1878.08    | -2632.84  | 1646350.25        | 14315544.75        | 39°25'18.789"N | 80°58'44.361"W | 3234.04           | 305.501         | 0.08          | 0.03                 | 0.07                |          |
| 9192.00                      | 90.000          | 339.560     | 6229.47  | 2759.38        | 1967.94    | -2666.63  | 1646316.47        | 14315634.57        | 39°25'19.678"N | 80°58'44.791"W | 3314.17           | 306.427         | 0.37          | 0.09                 | 0.35                |          |
| 9287.00                      | 89.970          | 340.890     | 6229.50  | 2854.38        | 2057.33    | -2698.77  | 1646284.35        | 14315723.93        | 39°25'20.561"N | 80°58'45.201"W | 3393.52           | 307.319         | 1.40          | -0.03                | 1.40                |          |
| 9382.00                      | 89.970          | 343.850     | 6229.55  | 2949.29        | 2147.86    | -2727.54  | 1646255.59        | 14315814.42        | 39°25'21.456"N | 80°58'45.567"W | 3471.71           | 308.219         | 3.12          | 0.00                 | 3.12                |          |
| 9477.00                      | 89.940          | 343.530     | 6229.62  | 3044.10        | 2239.04    | -2754.22  | 1646228.92        | 14315905.56        | 39°25'22.357"N | 80°58'45.907"W | 3549.51           | 309.109         | 0.34          | -0.03                | -0.34               |          |
| 9573.00                      | 89.940          | 344.390     | 6229.72  | 3139.87        | 2331.30    | -2780.74  | 1646202.41        | 14315997.78        | 39°25'23.269"N | 80°58'46.244"W | 3628.71           | 309.976         | 0.90          | 0.00                 | 0.90                |          |
| 9668.00                      | 89.970          | 345.580     | 6229.80  | 3234.52        | 2423.06    | -2805.36  | 1646177.80        | 14316089.50        | 39°25'24.176"N | 80°58'46.558"W | 3706.92           | 310.818         | 1.25          | 0.03                 | 1.25                |          |
| 9762.00                      | 90.310          | 343.060     | 6229.57  | 3328.25        | 2513.55    | -2830.76  | 1646152.41        | 14316179.96        | 39°25'25.071"N | 80°58'46.881"W | 3785.65           | 311.603         | 2.71          | 0.36                 | -2.68               |          |
| 9857.00                      | 89.940          | 340.390     | 6229.36  | 3423.20        | 2603.75    | -2860.55  | 1646122.64        | 14316270.12        | 39°25'25.962"N | 80°58'47.260"W | 3868.11           | 312.309         | 2.84          | -0.39                | -2.81               |          |
| 9952.00                      | 90.030          | 339.340     | 6229.38  | 3518.20        | 2692.94    | -2893.25  | 1646089.95        | 14316359.28        | 39°25'26.844"N | 80°58'47.677"W | 3952.57           | 312.946         | 1.11          | 0.09                 | -1.11               |          |
| 10046.00                     | 89.970          | 339.990     | 6229.38  | 3612.20        | 2781.08    | -2925.91  | 1646057.30        | 14316447.39        | 39°25'27.715"N | 80°58'48.093"W | 4036.76           | 313.546         | 0.69          | -0.06                | 0.69                |          |
| 10142.00                     | 89.910          | 341.160     | 6229.48  | 3708.19        | 2871.62    | -2957.84  | 1646025.38        | 14316537.88        | 39°25'28.610"N | 80°58'48.499"W | 4122.50           | 314.153         | 1.22          | -0.06                | 1.22                |          |
| 10236.00                     | 90.030          | 340.120     | 6229.53  | 3802.19        | 2960.30    | -2989.00  | 1645994.23        | 14316626.53        | 39°25'29.486"N | 80°58'48.896"W | 4206.84           | 314.724         | 1.11          | 0.13                 | -1.11               |          |
| 10331.00                     | 89.970          | 338.670     | 6229.53  | 3897.18        | 3049.22    | -3022.43  | 1645960.82        | 14316715.42        | 39°25'30.365"N | 80°58'49.322"W | 4293.35           | 315.253         | 1.53          | -0.06                | -1.53               |          |
| 10426.00                     | 89.910          | 336.230     | 6229.63  | 3992.07        | 3136.95    | -3058.86  | 1645924.40        | 14316803.11        | 39°25'31.232"N | 80°58'49.786"W | 4381.45           | 315.722         | 2.57          | -0.06                | -2.57               |          |
| 10520.00                     | 90.030          | 335.730     | 6229.68  | 4085.84        | 3222.81    | -3097.12  | 1645886.15        | 14316888.94        | 39°25'32.081"N | 80°58'50.273"W | 4469.75           | 316.139         | 0.55          | 0.13                 | -0.53               |          |
| 10615.00                     | 89.970          | 336.210     | 6229.68  | 4180.59        | 3309.58    | -3135.81  | 1645847.48        | 14316975.67        | 39°25'32.939"N | 80°58'50.766"W | 4559.23           | 316.544         | 0.51          | -0.06                | 0.51                |          |
| 10712.00                     | 90.030          | 336.960     | 6229.68  | 4277.41        | 3398.59    | -3174.36  | 1645808.95        | 14317064.64        | 39°25'33.819"N | 80°58'51.257"W | 4650.48           | 316.954         | 0.78          | 0.06                 | 0.77                |          |
| 10807.00                     | 89.910          | 336.510     | 6229.73  | 4372.25        | 3485.86    | -3211.88  | 1645771.44        | 14317151.88        | 39°25'34.681"N | 80°58'51.735"W | 4739.98           | 317.342         | 0.49          | -0.13                | -0.47               |          |
| 10902.00                     | 89.910          | 335.550     | 6229.88  | 4467.02        | 3572.67    | -3250.47  | 1645732.87        | 14317238.65        | 39°25'35.539"N | 80°58'52.227"W | 4830.07           | 317.704         | 1.01          | 0.00                 | -1.01               |          |
| 10997.00                     | 90.400          | 336.700     | 6229.62  | 4561.79        | 3659.54    | -3288.92  | 1645694.43        | 14317325.49        | 39°25'36.398"N | 80°58'52.716"W | 4920.29           | 318.053         | 1.32          | 0.52                 | 1.21                |          |
| 11092.00                     | 90.150          | 335.920     | 6229.17  | 4656.59        | 3746.53    | -3327.09  | 1645656.28        | 14317412.45        | 39°25'37.258"N | 80°58'53.203"W | 5010.59           | 318.393         | 0.86          | -0.26                | -0.82               |          |
| 11188.00                     | 90.770          | 334.530     | 6228.40  | 4752.24        | 3833.69    | -3367.32  | 1645616.07        | 14317499.57        | 39°25'38.119"N | 80°58'53.715"W | 5102.55           | 318.706         | 1.59          | 0.69                 | -1.45               |          |
| 11282.00                     | 90.650          | 334.800     | 6227.23  | 4845.81        | 3918.64    | -3407.54  | 1645575.86        | 14317584.49        | 39°25'38.959"N | 80°58'54.227"W | 5192.98           | 318.991         | 0.31          | -0.13                | 0.29                |          |
| 11377.00                     | 90.890          | 335.500     | 6225.96  | 4940.46        | 4004.84    | -3447.46  | 1645535.96        | 14317670.65        | 39°25'39.811"N | 80°58'54.736"W | 5284.29           | 319.277         | 0.78          | 0.25                 | 0.74                |          |
| 11473.00                     | 89.910          | 337.060     | 6225.29  | 5036.24        | 4092.72    | -3486.07  | 1645497.36        | 14317758.50        | 39°25'40.680"N | 80°58'55.228"W | 5376.16           | 319.577         | 1.92          | -1.02                | 1.63                |          |
| 11567.00                     | 91.020          | 340.240     | 6224.52  | 5130.20        | 4180.26    | -3520.29  | 1645463.16        | 14317846.00        | 39°25'41.545"N | 80°58'55.663"W | 5465.07           | 319.899         | 3.58          | 1.18                 | 3.38                |          |





# Actual Wellpath Report

Robert Lee Unit 1H AWP Proj: 22910'

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## REFERENCE WELLPATH IDENTIFICATION

|          |                              |          |                        |
|----------|------------------------------|----------|------------------------|
| Operator | ANTERO RESOURCES CORPORATION | Slot     | Slot #14               |
| Area     | Tyler County, WV             | Well     | Robert Lee Unit 1H     |
| Field    | Tyler                        | Wellbore | Robert Lee Unit 1H AWB |
| Facility | Rush Fork Pad                |          |                        |

## WELLPATH DATA (271 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 |
|----------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|----------------|----------------|-------------------|-----------------|---------------|----------------------|---------------------|----------|
| 11662.00 | 90.430          | 341.470     | 6223.32  | 5225.18        | 4269.99    | -3551.44  | 1645432.02        | 14317935.70        | 39°25'42.432"N | 80°58'56.060"W | 5553.88           | 320.249         | 1.44          | -0.62                | 1.29                |          |
| 11757.00 | 90.370          | 341.080     | 6222.66  | 5320.15        | 4359.96    | -3581.94  | 1645401.53        | 14318025.63        | 39°25'43.321"N | 80°58'56.449"W | 5642.66           | 320.595         | 0.42          | -0.06                | -0.41               |          |
| 11852.00 | 90.370          | 342.110     | 6222.04  | 5415.12        | 4450.10    | -3611.93  | 1645371.55        | 14318115.73        | 39°25'44.212"N | 80°58'56.831"W | 5731.44           | 320.935         | 1.08          | 0.00                 | 1.08                |          |
| 11947.00 | 90.370          | 343.070     | 6221.43  | 5510.02        | 4540.74    | -3640.36  | 1645343.14        | 14318206.34        | 39°25'45.108"N | 80°58'57.193"W | 5819.84           | 321.281         | 1.01          | 0.00                 | 1.01                |          |
| 12042.00 | 90.310          | 343.720     | 6220.87  | 5604.86        | 4631.78    | -3667.50  | 1645316.00        | 14318297.34        | 39°25'46.008"N | 80°58'57.538"W | 5907.96           | 321.627         | 0.69          | -0.06                | 0.68                |          |
| 12136.00 | 90.310          | 343.230     | 6220.36  | 5698.69        | 4721.90    | -3694.24  | 1645289.28        | 14318387.42        | 39°25'46.898"N | 80°58'57.879"W | 5995.31           | 321.962         | 0.52          | 0.00                 | -0.52               |          |
| 12232.00 | 90.340          | 343.740     | 6219.81  | 5794.52        | 4813.93    | -3721.53  | 1645262.00        | 14318479.42        | 39°25'47.808"N | 80°58'58.226"W | 6084.71           | 322.293         | 0.53          | 0.03                 | 0.53                |          |
| 12328.00 | 90.430          | 343.460     | 6219.17  | 5890.33        | 4906.03    | -3748.63  | 1645234.91        | 14318571.48        | 39°25'48.718"N | 80°58'58.572"W | 6174.25           | 322.617         | 0.31          | 0.09                 | -0.29               |          |
| 12423.00 | 90.550          | 342.440     | 6218.36  | 5985.20        | 4996.85    | -3776.49  | 1645207.06        | 14318662.26        | 39°25'49.616"N | 80°58'58.926"W | 6263.41           | 322.919         | 1.08          | 0.13                 | -1.07               |          |
| 12518.00 | 90.490          | 341.830     | 6217.49  | 6080.14        | 5087.21    | -3805.79  | 1645177.78        | 14318752.59        | 39°25'50.509"N | 80°58'59.300"W | 6353.25           | 323.200         | 0.85          | -0.06                | -0.85               |          |
| 12613.00 | 90.460          | 341.080     | 6216.71  | 6175.12        | 5177.22    | -3836.16  | 1645147.42        | 14318842.56        | 39°25'51.399"N | 80°58'59.686"W | 6443.58           | 323.463         | 0.58          | -0.03                | -0.58               |          |
| 12708.00 | 90.520          | 340.230     | 6215.89  | 6270.11        | 5266.85    | -3867.63  | 1645115.96        | 14318932.16        | 39°25'52.285"N | 80°59'00.087"W | 6534.39           | 323.709         | 0.90          | 0.06                 | -0.89               |          |
| 12804.00 | 90.520          | 339.290     | 6215.02  | 6366.10        | 5356.92    | -3900.84  | 1645082.77        | 14319022.19        | 39°25'53.175"N | 80°59'00.510"W | 6626.70           | 323.938         | 0.98          | 0.00                 | -0.98               |          |
| 12898.00 | 90.430          | 338.390     | 6214.24  | 6460.07        | 5444.58    | -3934.77  | 1645048.85        | 14319109.81        | 39°25'54.042"N | 80°59'00.942"W | 6717.58           | 324.145         | 0.96          | -0.10                | -0.96               |          |
| 12993.00 | 90.460          | 337.620     | 6213.51  | 6555.01        | 5532.66    | -3970.34  | 1645013.28        | 14319197.86        | 39°25'54.912"N | 80°59'01.396"W | 6809.84           | 324.336         | 0.81          | 0.03                 | -0.81               |          |
| 13088.00 | 90.370          | 338.180     | 6212.82  | 6649.94        | 5620.68    | -4006.08  | 1644977.56        | 14319285.84        | 39°25'55.782"N | 80°59'01.851"W | 6902.23           | 324.521         | 0.60          | -0.09                | 0.59                |          |
| 13183.00 | 90.490          | 339.030     | 6212.10  | 6744.91        | 5709.13    | -4040.74  | 1644942.92        | 14319374.26        | 39°25'56.656"N | 80°59'02.292"W | 6994.41           | 324.710         | 0.90          | 0.13                 | 0.89                |          |
| 13278.00 | 90.520          | 340.380     | 6211.27  | 6839.90        | 5798.23    | -4073.69  | 1644909.98        | 14319463.32        | 39°25'57.537"N | 80°59'02.712"W | 7086.21           | 324.909         | 1.42          | 0.03                 | 1.42                |          |
| 13372.00 | 90.400          | 340.470     | 6210.51  | 6933.89        | 5886.79    | -4105.18  | 1644878.50        | 14319551.84        | 39°25'58.412"N | 80°59'03.113"W | 7176.82           | 325.110         | 0.16          | -0.13                | 0.10                |          |
| 13466.00 | 90.490          | 339.090     | 6209.78  | 7027.89        | 5974.99    | -4137.67  | 1644846.03        | 14319640.01        | 39°25'59.284"N | 80°59'03.527"W | 7267.79           | 325.297         | 1.47          | 0.10                 | -1.47               |          |
| 13562.00 | 90.490          | 339.870     | 6208.96  | 7123.88        | 6064.90    | -4171.32  | 1644812.39        | 14319729.88        | 39°26'00.173"N | 80°59'03.956"W | 7360.90           | 325.481         | 0.81          | 0.00                 | 0.81                |          |
| 13656.00 | 90.490          | 340.730     | 6208.16  | 7217.87        | 6153.39    | -4203.00  | 1644780.72        | 14319818.34        | 39°26'01.048"N | 80°59'04.359"W | 7451.81           | 325.665         | 0.91          | 0.00                 | 0.91                |          |
| 13751.00 | 90.460          | 339.990     | 6207.37  | 7312.87        | 6242.86    | -4234.93  | 1644748.80        | 14319907.77        | 39°26'01.932"N | 80°59'04.766"W | 7543.74           | 325.848         | 0.78          | -0.03                | -0.78               |          |
| 13846.00 | 90.250          | 338.640     | 6206.78  | 7407.85        | 6331.73    | -4268.49  | 1644715.26        | 14319996.61        | 39°26'02.810"N | 80°59'05.194"W | 7636.15           | 326.014         | 1.44          | -0.22                | -1.42               |          |
| 13941.00 | 90.250          | 339.730     | 6206.37  | 7502.84        | 6420.53    | -4302.24  | 1644681.52        | 14320085.37        | 39°26'03.688"N | 80°59'05.624"W | 7728.68           | 326.175         | 1.15          | 0.00                 | 1.15                |          |
| 14037.00 | 90.460          | 338.720     | 6205.77  | 7598.83        | 6510.29    | -4336.29  | 1644647.48        | 14320175.09        | 39°26'04.575"N | 80°59'06.057"W | 7822.23           | 326.334         | 1.07          | 0.22                 | -1.05               |          |
| 14133.00 | 90.310          | 337.370     | 6205.13  | 7694.76        | 6599.32    | -4372.19  | 1644611.60        | 14320264.09        | 39°26'05.455"N | 80°59'06.515"W | 7916.25           | 326.475         | 1.41          | -0.16                | -1.41               |          |
| 14228.00 | 90.490          | 340.200     | 6204.46  | 7789.73        | 6687.87    | -4406.56  | 1644577.25        | 14320352.60        | 39°26'06.330"N | 80°59'06.953"W | 8009.08           | 326.620         | 2.98          | 0.19                 | 2.98                |          |
| 14324.00 | 90.550          | 341.530     | 6203.59  | 7885.71        | 6778.56    | -4438.02  | 1644545.79        | 14320443.26        | 39°26'07.227"N | 80°59'07.353"W | 8102.16           | 326.787         | 1.39          | 0.06                 | 1.39                |          |
| 14419.00 | 90.370          | 340.860     | 6202.83  | 7980.69        | 6868.49    | -4468.65  | 1644515.18        | 14320533.15        | 39°26'08.116"N | 80°59'07.743"W | 8194.20           | 326.952         | 0.73          | -0.19                | -0.71               |          |





# Actual Wellpath Report

Robert Lee Unit 1H AWP Proj: 22910'

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## REFERENCE WELLPATH IDENTIFICATION

|          |                              |          |                        |
|----------|------------------------------|----------|------------------------|
| Operator | ANTERO RESOURCES CORPORATION | Slot     | Slot #14               |
| Area     | Tyler County, WV             | Well     | Robert Lee Unit 1H     |
| Field    | Tyler                        | Wellbore | Robert Lee Unit 1H AWB |
| Facility | Rush Fork Pad                |          |                        |

## WELLPATH DATA (271 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 |
|----------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|----------------|----------------|-------------------|-----------------|---------------|----------------------|---------------------|----------|
| 14515.00 | 90.460          | 341.510     | 6202.13  | 8076.67        | 6959.35    | -4499.61  | 1644484.23        | 14320623.98        | 39°26'09.014"N | 80°59'08.138"W | 8287.28           | 327.115         | 0.68          | 0.09                 | 0.68                |          |
| 14609.00 | 90.310          | 341.030     | 6201.50  | 8170.65        | 7048.37    | -4529.79  | 1644454.06        | 14320712.96        | 39°26'09.894"N | 80°59'08.522"W | 8378.46           | 327.272         | 0.53          | -0.16                | -0.51               |          |
| 14705.00 | 90.060          | 342.280     | 6201.19  | 8266.61        | 7139.49    | -4560.00  | 1644423.86        | 14320804.04        | 39°26'10.794"N | 80°59'08.907"W | 8471.48           | 327.434         | 1.33          | -0.26                | 1.30                |          |
| 14801.00 | 90.150          | 341.940     | 6201.02  | 8362.54        | 7230.85    | -4589.49  | 1644394.38        | 14320895.36        | 39°26'11.697"N | 80°59'09.283"W | 8564.38           | 327.596         | 0.37          | 0.09                 | -0.35               |          |
| 14895.00 | 90.280          | 342.820     | 6200.66  | 8456.47        | 7320.44    | -4617.95  | 1644365.94        | 14320984.92        | 39°26'12.583"N | 80°59'09.645"W | 8655.30           | 327.755         | 0.95          | 0.14                 | 0.94                |          |
| 14991.00 | 90.280          | 343.150     | 6200.19  | 8552.34        | 7412.23    | -4646.04  | 1644337.86        | 14321076.68        | 39°26'13.490"N | 80°59'10.003"W | 8747.97           | 327.920         | 0.34          | 0.00                 | 0.34                |          |
| 15085.00 | 90.220          | 341.140     | 6199.78  | 8646.27        | 7501.70    | -4674.86  | 1644309.05        | 14321166.11        | 39°26'14.374"N | 80°59'10.370"W | 8839.11           | 328.070         | 2.14          | -0.06                | -2.14               |          |
| 15180.00 | 90.370          | 338.870     | 6199.30  | 8741.26        | 7590.97    | -4707.34  | 1644276.58        | 14321255.34        | 39°26'15.257"N | 80°59'10.784"W | 8932.07           | 328.196         | 2.39          | 0.16                 | -2.39               |          |
| 15276.00 | 91.750          | 338.730     | 6197.52  | 8837.22        | 7680.45    | -4742.05  | 1644241.89        | 14321344.79        | 39°26'16.141"N | 80°59'11.226"W | 9026.43           | 328.308         | 1.44          | 1.44                 | -0.15               |          |
| 15370.00 | 90.460          | 337.670     | 6195.71  | 8931.15        | 7767.71    | -4776.95  | 1644207.00        | 14321432.01        | 39°26'17.004"N | 80°59'11.671"W | 9119.02           | 328.410         | 1.78          | -1.37                | -1.13               |          |
| 15465.00 | 91.390          | 337.490     | 6194.17  | 9026.05        | 7855.52    | -4813.18  | 1644170.79        | 14321519.78        | 39°26'17.871"N | 80°59'12.133"W | 9212.81           | 328.504         | 1.00          | 0.98                 | -0.19               |          |
| 15560.00 | 91.110          | 337.590     | 6192.10  | 9120.93        | 7943.29    | -4849.46  | 1644134.52        | 14321607.52        | 39°26'18.739"N | 80°59'12.595"W | 9306.62           | 328.595         | 0.31          | -0.29                | 0.11                |          |
| 15654.00 | 91.380          | 338.610     | 6190.06  | 9214.86        | 8030.49    | -4884.52  | 1644099.48        | 14321694.68        | 39°26'19.601"N | 80°59'13.042"W | 9399.32           | 328.690         | 1.12          | 0.29                 | 1.09                |          |
| 15750.00 | 91.110          | 337.850     | 6187.97  | 9310.78        | 8119.62    | -4920.11  | 1644063.90        | 14321783.78        | 39°26'20.482"N | 80°59'13.495"W | 9493.98           | 328.786         | 0.84          | -0.28                | -0.79               |          |
| 15845.00 | 90.430          | 338.070     | 6186.70  | 9405.71        | 8207.67    | -4955.76  | 1644028.27        | 14321871.79        | 39°26'21.352"N | 80°59'13.949"W | 9587.77           | 328.877         | 0.75          | -0.72                | 0.23                |          |
| 15940.00 | 90.310          | 338.000     | 6186.08  | 9500.65        | 8295.77    | -4991.29  | 1643992.75        | 14321959.86        | 39°26'22.223"N | 80°59'14.402"W | 9681.57           | 328.966         | 0.15          | -0.13                | -0.07               |          |
| 16034.00 | 90.490          | 337.740     | 6185.43  | 9594.58        | 8382.84    | -5026.70  | 1643957.35        | 14322046.89        | 39°26'23.083"N | 80°59'14.853"W | 9774.44           | 329.051         | 0.34          | 0.19                 | -0.28               |          |
| 16129.00 | 90.580          | 339.300     | 6184.54  | 9689.54        | 8471.24    | -5061.48  | 1643922.58        | 14322135.25        | 39°26'23.957"N | 80°59'15.296"W | 9868.16           | 329.142         | 1.64          | 0.09                 | 1.64                |          |
| 16224.00 | 90.800          | 343.530     | 6183.39  | 9784.48        | 8561.26    | -5091.75  | 1643892.33        | 14322225.24        | 39°26'24.847"N | 80°59'15.682"W | 9960.98           | 329.258         | 4.46          | 0.23                 | 4.45                |          |
| 16319.00 | 90.860          | 345.130     | 6182.02  | 9879.21        | 8652.71    | -5117.41  | 1643866.68        | 14322316.66        | 39°26'25.751"N | 80°59'16.009"W | 10052.73          | 329.399         | 1.69          | 0.06                 | 1.69                |          |
| 16415.00 | 90.860          | 343.430     | 6180.58  | 9974.93        | 8745.11    | -5143.41  | 1643840.69        | 14322409.01        | 39°26'26.664"N | 80°59'16.340"W | 10145.52          | 329.538         | 1.77          | 0.00                 | -1.77               |          |
| 16510.00 | 90.860          | 342.010     | 6179.15  | 10069.81       | 8835.81    | -5171.63  | 1643812.48        | 14322499.68        | 39°26'27.561"N | 80°59'16.700"W | 10238.03          | 329.659         | 1.49          | 0.00                 | -1.49               |          |
| 16605.00 | 90.770          | 339.720     | 6177.80  | 10164.79       | 8925.54    | -5202.76  | 1643781.36        | 14322589.38        | 39°26'28.448"N | 80°59'17.096"W | 10331.22          | 329.762         | 2.41          | -0.09                | -2.41               |          |
| 16700.00 | 90.860          | 338.270     | 6176.45  | 10259.76       | 9014.22    | -5236.81  | 1643747.32        | 14322678.02        | 39°26'29.324"N | 80°59'17.530"W | 10424.99          | 329.846         | 1.53          | 0.09                 | -1.53               |          |
| 16795.00 | 90.580          | 338.100     | 6175.25  | 10354.70       | 9102.41    | -5272.11  | 1643712.04        | 14322766.17        | 39°26'30.196"N | 80°59'17.980"W | 10518.98          | 329.921         | 0.34          | -0.29                | -0.18               |          |
| 16891.00 | 90.550          | 339.310     | 6174.31  | 10450.67       | 9191.85    | -5306.97  | 1643677.19        | 14322855.58        | 39°26'31.080"N | 80°59'18.424"W | 10613.86          | 330.000         | 1.26          | -0.03                | 1.26                |          |
| 16987.00 | 90.590          | 339.200     | 6173.35  | 10546.66       | 9281.62    | -5340.98  | 1643643.20        | 14322945.31        | 39°26'31.967"N | 80°59'18.857"W | 10708.62          | 330.082         | 0.12          | 0.04                 | -0.11               |          |
| 17084.00 | 90.550          | 338.760     | 6172.39  | 10643.63       | 9372.16    | -5375.77  | 1643608.42        | 14323035.82        | 39°26'32.862"N | 80°59'19.301"W | 10804.46          | 330.162         | 0.46          | -0.04                | -0.45               |          |
| 17180.00 | 90.550          | 339.130     | 6171.47  | 10739.61       | 9461.75    | -5410.26  | 1643573.95        | 14323125.37        | 39°26'33.747"N | 80°59'19.740"W | 10899.34          | 330.239         | 0.39          | 0.00                 | 0.39                |          |
| 17274.00 | 90.580          | 340.410     | 6170.54  | 10833.60       | 9549.94    | -5442.76  | 1643541.46        | 14323213.53        | 39°26'34.619"N | 80°59'20.154"W | 10992.04          | 330.320         | 1.36          | 0.03                 | 1.36                |          |





# Actual Wellpath Report

Robert Lee Unit 1H AWP Proj: 22910'

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| REFERENCE WELLPATH IDENTIFICATION |                              |  |          |                        |
|-----------------------------------|------------------------------|--|----------|------------------------|
| Operator                          | ANTERO RESOURCES CORPORATION |  | Slot     | Slot #14               |
| Area                              | Tyler County, WV             |  | Well     | Robert Lee Unit 1H     |
| Field                             | Tyler                        |  | Wellbore | Robert Lee Unit 1H AWB |
| Facility                          | Rush Fork Pad                |  |          |                        |

| WELLPATH DATA (271 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 |
| 17369.00                     | 90.650          | 341.040     | 6169.52  | 10928.59       | 9639.61    | -5474.12  | 1643510.12        | 14323303.16        | 39°26'35.505"N | 80°59'20.554"W | 11085.49          | 330.409         | 0.67          | 0.07                 | 0.66                |          |
| 17464.00                     | 90.650          | 340.710     | 6168.44  | 11023.57       | 9729.36    | -5505.24  | 1643479.01        | 14323392.87        | 39°26'36.392"N | 80°59'20.950"W | 11178.92          | 330.497         | 0.35          | 0.00                 | -0.35               |          |
| 17558.00                     | 90.680          | 339.990     | 6167.35  | 11117.57       | 9817.88    | -5536.85  | 1643447.41        | 14323481.36        | 39°26'37.267"N | 80°59'21.353"W | 11271.53          | 330.579         | 0.77          | 0.03                 | -0.77               |          |
| 17653.00                     | 90.710          | 340.010     | 6166.20  | 11212.56       | 9907.15    | -5569.34  | 1643414.94        | 14323570.59        | 39°26'38.150"N | 80°59'21.767"W | 11365.26          | 330.657         | 0.04          | 0.03                 | 0.02                |          |
| 17748.00                     | 90.460          | 339.950     | 6165.23  | 11307.55       | 9996.40    | -5601.86  | 1643382.43        | 14323659.80        | 39°26'39.032"N | 80°59'22.182"W | 11459.01          | 330.734         | 0.27          | -0.26                | -0.06               |          |
| 17844.00                     | 90.460          | 340.360     | 6164.46  | 11403.55       | 10086.70   | -5634.45  | 1643349.85        | 14323750.06        | 39°26'39.924"N | 80°59'22.597"W | 11553.72          | 330.812         | 0.43          | 0.00                 | 0.43                |          |
| 17939.00                     | 90.430          | 340.940     | 6163.72  | 11498.54       | 10176.33   | -5665.92  | 1643318.39        | 14323839.66        | 39°26'40.810"N | 80°59'22.998"W | 11647.33          | 330.892         | 0.61          | -0.03                | 0.61                |          |
| 18032.00                     | 90.400          | 341.120     | 6163.05  | 11591.53       | 10264.27   | -5696.15  | 1643288.17        | 14323927.57        | 39°26'41.679"N | 80°59'23.383"W | 11738.89          | 330.972         | 0.20          | -0.03                | 0.19                |          |
| 18128.00                     | 90.430          | 341.020     | 6162.35  | 11687.51       | 10355.08   | -5727.30  | 1643257.04        | 14324018.34        | 39°26'42.577"N | 80°59'23.780"W | 11833.41          | 331.053         | 0.11          | 0.03                 | -0.10               |          |
| 18223.00                     | 90.490          | 341.560     | 6161.59  | 11782.48       | 10445.06   | -5757.77  | 1643226.58        | 14324108.28        | 39°26'43.466"N | 80°59'24.168"W | 11926.91          | 331.135         | 0.57          | 0.06                 | 0.57                |          |
| 18317.00                     | 90.460          | 342.290     | 6160.81  | 11876.43       | 10534.41   | -5786.93  | 1643197.43        | 14324197.60        | 39°26'44.349"N | 80°59'24.540"W | 12019.25          | 331.218         | 0.78          | -0.03                | 0.78                |          |
| 18412.00                     | 90.460          | 342.430     | 6160.05  | 11971.35       | 10624.94   | -5815.72  | 1643168.65        | 14324288.09        | 39°26'45.244"N | 80°59'24.907"W | 12112.47          | 331.305         | 0.15          | 0.00                 | 0.15                |          |
| 18507.00                     | 90.400          | 342.430     | 6159.33  | 12066.27       | 10715.51   | -5844.40  | 1643139.99        | 14324378.62        | 39°26'46.139"N | 80°59'25.272"W | 12205.70          | 331.391         | 0.06          | -0.06                | 0.00                |          |
| 18601.00                     | 90.400          | 343.210     | 6158.68  | 12160.15       | 10805.31   | -5872.16  | 1643112.23        | 14324468.39        | 39°26'47.027"N | 80°59'25.626"W | 12297.85          | 331.478         | 0.83          | 0.00                 | 0.83                |          |
| 18696.00                     | 90.430          | 343.840     | 6157.99  | 12254.98       | 10896.41   | -5899.10  | 1643085.30        | 14324559.45        | 39°26'47.927"N | 80°59'25.969"W | 12390.77          | 331.570         | 0.66          | 0.03                 | 0.66                |          |
| 18791.00                     | 90.460          | 341.730     | 6157.25  | 12349.86       | 10987.15   | -5927.22  | 1643057.20        | 14324650.15        | 39°26'48.824"N | 80°59'26.327"W | 12483.96          | 331.655         | 2.22          | 0.03                 | -2.22               |          |
| 18885.00                     | 90.430          | 339.490     | 6156.52  | 12443.85       | 11075.81   | -5958.42  | 1643026.01        | 14324738.77        | 39°26'49.700"N | 80°59'26.725"W | 12576.81          | 331.721         | 2.38          | -0.03                | -2.38               |          |
| 18979.00                     | 90.430          | 339.160     | 6155.82  | 12537.84       | 11163.75   | -5991.61  | 1642992.83        | 14324826.68        | 39°26'50.570"N | 80°59'27.148"W | 12669.99          | 331.777         | 0.35          | 0.00                 | -0.35               |          |
| 19073.00                     | 90.460          | 339.290     | 6155.09  | 12631.83       | 11251.63   | -6024.95  | 1642959.51        | 14324914.53        | 39°26'51.438"N | 80°59'27.573"W | 12763.20          | 331.832         | 0.14          | 0.03                 | 0.14                |          |
| 19167.00                     | 90.460          | 340.990     | 6154.33  | 12725.82       | 11340.04   | -6056.88  | 1642927.59        | 14325002.90        | 39°26'52.312"N | 80°59'27.980"W | 12856.21          | 331.893         | 1.81          | 0.00                 | 1.81                |          |
| 19263.00                     | 90.220          | 342.270     | 6153.76  | 12821.78       | 11431.14   | -6087.13  | 1642897.35        | 14325093.97        | 39°26'53.212"N | 80°59'28.365"W | 12950.84          | 331.965         | 1.36          | -0.25                | 1.33                |          |
| 19358.00                     | 90.250          | 343.380     | 6153.37  | 12916.67       | 11521.90   | -6115.19  | 1642869.31        | 14325184.69        | 39°26'54.110"N | 80°59'28.723"W | 13044.15          | 332.043         | 1.17          | 0.03                 | 1.17                |          |
| 19452.00                     | 90.310          | 343.860     | 6152.91  | 13010.48       | 11612.09   | -6141.69  | 1642842.81        | 14325274.84        | 39°26'55.001"N | 80°59'29.061"W | 13136.25          | 332.125         | 0.51          | 0.06                 | 0.51                |          |
| 19547.00                     | 90.030          | 343.110     | 6152.63  | 13105.31       | 11703.17   | -6168.70  | 1642815.81        | 14325365.88        | 39°26'55.901"N | 80°59'29.405"W | 13229.40          | 332.206         | 0.84          | -0.29                | -0.79               |          |
| 19642.00                     | 89.940          | 341.460     | 6152.65  | 13200.24       | 11793.66   | -6197.60  | 1642786.92        | 14325456.34        | 39°26'56.795"N | 80°59'29.773"W | 13322.94          | 332.278         | 1.74          | -0.09                | -1.74               |          |
| 19737.00                     | 89.970          | 338.760     | 6152.73  | 13295.23       | 11882.98   | -6229.92  | 1642754.62        | 14325545.63        | 39°26'57.678"N | 80°59'30.185"W | 13417.05          | 332.333         | 2.84          | 0.03                 | -2.84               |          |
| 19832.00                     | 90.120          | 337.890     | 6152.65  | 13390.18       | 11971.27   | -6265.01  | 1642719.54        | 14325633.87        | 39°26'58.551"N | 80°59'30.632"W | 13511.53          | 332.375         | 0.93          | 0.16                 | -0.92               |          |
| 19927.00                     | 89.880          | 337.270     | 6152.65  | 13485.09       | 12059.08   | -6301.24  | 1642683.32        | 14325721.66        | 39°26'59.419"N | 80°59'31.094"W | 13606.14          | 332.412         | 0.70          | -0.25                | -0.65               |          |
| 20023.00                     | 89.820          | 336.810     | 6152.91  | 13580.96       | 12147.48   | -6338.69  | 1642645.89        | 14325810.02        | 39°27'00.293"N | 80°59'31.571"W | 13701.83          | 332.444         | 0.48          | -0.06                | -0.48               |          |
| 20117.00                     | 90.120          | 337.570     | 6152.96  | 13674.84       | 12234.13   | -6375.13  | 1642609.46        | 14325896.63        | 39°27'01.149"N | 80°59'32.036"W | 13795.51          | 332.476         | 0.87          | 0.32                 | 0.81                |          |





# Actual Wellpath Report

Robert Lee Unit 1H AWP Proj: 22910'

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| REFERENCE WELLPATH IDENTIFICATION |                              |  |          |                        |
|-----------------------------------|------------------------------|--|----------|------------------------|
| Operator                          | ANTERO RESOURCES CORPORATION |  | Slot     | Slot #14               |
| Area                              | Tyler County, WV             |  | Well     | Robert Lee Unit 1H     |
| Field                             | Tyler                        |  | Wellbore | Robert Lee Unit 1H AWP |
| Facility                          | Rush Fork Pad                |  |          |                        |

| WELLPATH DATA (271 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 |
| 20212.00                     | 90.120          | 337.910     | 6152.76  | 13769.76       | 12322.05   | -6411.12  | 1642573.49        | 14325984.51        | 39°27'02.018"N | 80°59'32.494"W | 13890.11          | 332.512         | 0.36          | 0.00                 | 0.36                |          |
| 20306.00                     | 90.090          | 338.440     | 6152.58  | 13863.71       | 12409.31   | -6446.06  | 1642538.56        | 14326071.74        | 39°27'02.880"N | 80°59'32.940"W | 13983.66          | 332.550         | 0.56          | -0.03                | 0.56                |          |
| 20401.00                     | 90.120          | 338.420     | 6152.41  | 13958.67       | 12497.65   | -6480.99  | 1642503.65        | 14326160.05        | 39°27'03.754"N | 80°59'33.385"W | 14078.16          | 332.590         | 0.04          | 0.03                 | -0.02               |          |
| 20496.00                     | 90.120          | 337.020     | 6152.21  | 14053.59       | 12585.56   | -6517.01  | 1642467.65        | 14326247.92        | 39°27'04.622"N | 80°59'33.844"W | 14172.78          | 332.624         | 1.47          | 0.00                 | -1.47               |          |
| 20591.00                     | 89.940          | 336.640     | 6152.16  | 14148.44       | 12672.90   | -6554.38  | 1642430.28        | 14326335.22        | 39°27'05.486"N | 80°59'34.320"W | 14267.53          | 332.652         | 0.44          | -0.19                | -0.40               |          |
| 20686.00                     | 89.940          | 337.050     | 6152.26  | 14243.29       | 12760.24   | -6591.74  | 1642392.94        | 14326422.54        | 39°27'06.349"N | 80°59'34.796"W | 14362.27          | 332.680         | 0.43          | 0.00                 | 0.43                |          |
| 20781.00                     | 89.970          | 338.110     | 6152.34  | 14338.20       | 12848.06   | -6627.97  | 1642356.72        | 14326510.32        | 39°27'07.217"N | 80°59'35.258"W | 14456.93          | 332.712         | 1.12          | 0.03                 | 1.12                |          |
| 20876.00                     | 89.940          | 339.570     | 6152.41  | 14433.18       | 12936.65   | -6662.26  | 1642322.45        | 14326598.88        | 39°27'08.093"N | 80°59'35.695"W | 14551.38          | 332.752         | 1.54          | -0.03                | 1.54                |          |
| 20970.00                     | 89.910          | 341.010     | 6152.53  | 14527.17       | 13025.14   | -6693.97  | 1642290.76        | 14326687.33        | 39°27'08.967"N | 80°59'36.099"W | 14644.57          | 332.800         | 1.53          | -0.03                | 1.53                |          |
| 21065.00                     | 89.970          | 342.000     | 6152.63  | 14622.14       | 13115.24   | -6724.10  | 1642260.63        | 14326777.39        | 39°27'09.858"N | 80°59'36.483"W | 14738.49          | 332.856         | 1.04          | 0.06                 | 1.04                |          |
| 21160.00                     | 90.220          | 342.970     | 6152.48  | 14717.06       | 13205.83   | -6752.69  | 1642232.06        | 14326867.94        | 39°27'10.753"N | 80°59'36.848"W | 14832.15          | 332.917         | 1.05          | 0.26                 | 1.02                |          |
| 21255.00                     | 90.180          | 343.200     | 6152.14  | 14811.92       | 13296.72   | -6780.33  | 1642204.43        | 14326958.80        | 39°27'11.651"N | 80°59'37.200"W | 14925.67          | 332.982         | 0.25          | -0.04                | 0.24                |          |
| 21350.00                     | 90.280          | 342.200     | 6151.76  | 14906.82       | 13387.42   | -6808.58  | 1642176.19        | 14327049.46        | 39°27'12.548"N | 80°59'37.560"W | 15019.32          | 333.043         | 1.06          | 0.11                 | -1.05               |          |
| 21445.00                     | 91.020          | 342.540     | 6150.68  | 15001.74       | 13477.95   | -6837.35  | 1642147.43        | 14327139.96        | 39°27'13.443"N | 80°59'37.927"W | 15113.06          | 333.101         | 0.86          | 0.78                 | 0.36                |          |
| 21539.00                     | 90.460          | 341.510     | 6149.47  | 15095.67       | 13567.36   | -6866.36  | 1642118.43        | 14327229.32        | 39°27'14.326"N | 80°59'38.297"W | 15205.92          | 333.156         | 1.25          | -0.60                | -1.10               |          |
| 21635.00                     | 90.490          | 340.840     | 6148.67  | 15191.65       | 13658.22   | -6897.33  | 1642087.47        | 14327320.15        | 39°27'15.224"N | 80°59'38.691"W | 15300.98          | 333.206         | 0.70          | 0.03                 | -0.70               |          |
| 21729.00                     | 90.490          | 339.550     | 6147.87  | 15285.64       | 13746.65   | -6929.18  | 1642055.64        | 14327408.55        | 39°27'16.098"N | 80°59'39.097"W | 15394.28          | 333.249         | 1.37          | 0.00                 | -1.37               |          |
| 21823.00                     | 90.520          | 338.920     | 6147.04  | 15379.63       | 13834.54   | -6962.51  | 1642022.33        | 14327496.40        | 39°27'16.967"N | 80°59'39.522"W | 15487.77          | 333.285         | 0.67          | 0.03                 | -0.67               |          |
| 21918.00                     | 90.460          | 337.960     | 6146.23  | 15474.59       | 13922.89   | -6997.41  | 1641987.43        | 14327584.72        | 39°27'17.840"N | 80°59'39.967"W | 15582.38          | 333.317         | 1.01          | -0.06                | -1.01               |          |
| 22014.00                     | 90.520          | 337.900     | 6145.41  | 15570.52       | 14011.85   | -7033.48  | 1641951.38        | 14327673.64        | 39°27'18.720"N | 80°59'40.427"W | 15678.07          | 333.345         | 0.09          | 0.06                 | -0.06               |          |
| 22109.00                     | 90.770          | 339.100     | 6144.34  | 15665.47       | 14100.24   | -7068.30  | 1641916.58        | 14327761.99        | 39°27'19.593"N | 80°59'40.871"W | 15772.68          | 333.376         | 1.29          | 0.26                 | 1.26                |          |
| 22205.00                     | 90.740          | 339.460     | 6143.07  | 15761.46       | 14190.02   | -7102.26  | 1641882.63        | 14327851.74        | 39°27'20.480"N | 80°59'41.303"W | 15868.17          | 333.412         | 0.38          | -0.03                | 0.37                |          |
| 22301.00                     | 90.890          | 339.660     | 6141.71  | 15857.44       | 14279.96   | -7135.78  | 1641849.12        | 14327941.65        | 39°27'21.369"N | 80°59'41.731"W | 15963.61          | 333.448         | 0.26          | 0.16                 | 0.21                |          |
| 22397.00                     | 90.400          | 338.930     | 6140.63  | 15953.43       | 14369.76   | -7169.72  | 1641815.19        | 14328031.40        | 39°27'22.257"N | 80°59'42.163"W | 16059.11          | 333.483         | 0.92          | -0.51                | -0.76               |          |
| 22493.00                     | 90.460          | 337.180     | 6139.91  | 16049.36       | 14458.80   | -7205.60  | 1641779.33        | 14328120.41        | 39°27'23.137"N | 80°59'42.621"W | 16154.79          | 333.510         | 1.82          | 0.06                 | -1.82               |          |
| 22588.00                     | 90.490          | 335.760     | 6139.12  | 16144.17       | 14545.89   | -7243.52  | 1641741.42        | 14328207.47        | 39°27'23.998"N | 80°59'43.104"W | 16249.66          | 333.528         | 1.50          | 0.03                 | -1.49               |          |
| 22682.00                     | 90.490          | 335.110     | 6138.32  | 16237.86       | 14631.38   | -7282.60  | 1641702.36        | 14328292.92        | 39°27'24.843"N | 80°59'43.602"W | 16343.61          | 333.539         | 0.69          | 0.00                 | -0.69               |          |
| 22778.00                     | 90.490          | 336.250     | 6137.50  | 16333.57       | 14718.86   | -7322.13  | 1641662.84        | 14328380.36        | 39°27'25.707"N | 80°59'44.106"W | 16439.54          | 333.551         | 1.19          | 0.00                 | 1.19                |          |
| 22874.00                     | 90.400          | 337.530     | 6136.75  | 16429.42       | 14807.15   | -7359.81  | 1641625.18        | 14328468.62        | 39°27'26.580"N | 80°59'44.586"W | 16535.37          | 333.571         | 1.34          | -0.09                | 1.33                |          |
| 22886.00                     | 90.400          | 337.610     | 6136.67  | 16441.41       | 14818.24   | -7364.39  | 1641620.61        | 14328479.71        | 39°27'26.890"N | 80°59'44.645"W | 16547.34          | 333.573         | 0.67          | 0.00                 | 0.67                |          |





# Actual Wellpath Report

Robert Lee Unit 1H AWP Proj: 22910'

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| REFERENCE WELLPATH IDENTIFICATION |                              |          |                        |
|-----------------------------------|------------------------------|----------|------------------------|
| Operator                          | ANTERO RESOURCES CORPORATION | Slot     | Slot #14               |
| Area                              | Tyler County, WV             | Well     | Robert Lee Unit 1H     |
| Field                             | Tyler                        | Wellbore | Robert Lee Unit 1H AWB |
| Facility                          | Rush Fork Pad                |          |                        |

| WELLPATH DATA (271 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                   |
| 22910.00                     | 90.400          | 337.610     | 6136.50  | 16465.39       | 14840.43   | -7373.53  | 1641611.47        | 14328501.89        | 39°27'26.909"N | 80°59'44.761"W | 16571.28          | 333.579         | 0.00          | 0.00                 | 0.00                | Projected MD at TD: 22910' |

| HOLE & CASING SECTIONS - Ref Wellbore: Robert Lee Unit 1H AWB Ref Wellpath: Robert Lee Unit 1H AWP Proj: 22910' |               |             |               |                |              |                |                |              |              |
|---|---------------|-------------|---------------|----------------|--------------|----------------|----------------|--------------|--------------|
| 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  | 25.50         | 105.50      | 80.00         | 25.50          | 105.49       | 0.00           | 0.00           | -0.74        | 0.38         |
| 17.5in Open Hole  | 105.50        | 345.90      | 240.40        | 105.49         | 345.88       | -0.74          | 0.38           | -3.22        | 1.98         |
| 13.375in Casing Surface   | 25.50         | 345.90      | 320.40        | 25.50          | 345.88       | 0.00           | 0.00           | -3.22        | 1.98         |
| 12.25in Open Hole   | 345.90        | 2631.30     | 2285.40       | 345.88         | 2539.12      | -3.22          | 1.98           | -300.19      | -496.67      |
| 9.625in Casing Intermediate   | 25.50         | 2631.30     | 2605.80       | 25.50          | 2539.12      | 0.00           | 0.00           | -300.19      | -496.67      |
| 8.75in Open Hole  | 2631.30       | 6070.50     | 3439.20       | 2539.12        | 5749.29      | -300.19        | -496.67        | -755.41      | -1583.03     |
| 8.5in Open Hole   | 6070.50       | 22910.00    | 16839.50      | 5749.29        | 6136.50      | -755.41        | -1583.03       | 14840.43     | -7373.53     |
| 5.5in Casing Production   | 25.50         | 22910.00    | 22884.50      | 25.50          | 6136.50      | 0.00           | 0.00           | 14840.43     | -7373.53     |

| TARGETS                          |          |            |           |                   |                    |                |                |       |
|----------------------------------|----------|------------|-----------|-------------------|--------------------|----------------|----------------|-------|
| Name                             | TVD [ft] | North [ft] | East [ft] | Grid East [US ft] | Grid North [US ft] | Latitude       | Longitude      | Shape |
| Robert Lee Unit 1H - POE - Rev-1 | 6168.00  | -338.56    | -1835.77  | 1647147.00        | 14313329.00        | 39°24'56.879"N | 80°58'34.212"W | point |
| Robert Lee Unit 1H - BHL - Rev-1 | 6206.00  | 14857.55   | -7349.99  | 1641635.00        | 14328519.00        | 39°27'27.078"N | 80°59'44.461"W | point |
| Robert Lee Unit 1H - LP - Rev-1  | 6206.00  | -122.17    | -1914.29  | 1647068.52        | 14313545.30        | 39°24'59.018"N | 80°58'35.211"W | point |





# Actual Wellpath Report

Robert Lee Unit 1H AWP Proj: 22910'

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| REFERENCE WELLPATH IDENTIFICATION |                              |          |                        |
|-----------------------------------|------------------------------|----------|------------------------|
| Operator                          | ANTERO RESOURCES CORPORATION | Slot     | Slot #14               |
| Area                              | Tyler County, WV             | Well     | Robert Lee Unit 1H     |
| Field                             | Tyler                        | Wellbore | Robert Lee Unit 1H AWB |
| Facility                          | Rush Fork Pad                |          |                        |

| WELLPATH COMPOSITION - Ref Wellbore: Robert Lee Unit 1H AWB Ref Wellpath: Robert Lee Unit 1H AWP Proj: 22910' |             |   |  |                        |
|---|-------------|---|--|------------------------|
| Start MD [ft]   | End MD [ft] | Positional Uncertainty Model                | Log Name/Comment                                 | Wellbore               |
| 25.50   | 329.50      | Gyrodata standard - Drop gyro or Multi-shot | 01 Gyrodata MS Gyro <17-1/2">(50'-319')          | Robert Lee Unit 1H AWB |
| 329.50  | 2548.50     | OWSG MWD rev2 + HRGM                        | 02 WFT EM <12-1/4">(319')(379'-2538')            | Robert Lee Unit 1H AWB |
| 2548.50   | 5998.50     | OWSG MWD rev2 + HRGM                        | 03 WFT EM <8-3/4">(2538')(2665'-5988')           | Robert Lee Unit 1H AWB |
| 5998.50   | 22886.00    | BHI AutoTrak Curve (Short)                  | 04 BHI AT Curve <8-1/2"> (5998.5')(6068'-22886') | Robert Lee Unit 1H AWB |
| 22886.00  | 22910.00    | Blind Drilling (std)                        | Projection to bit                                | Robert Lee Unit 1H AWB |





# Actual Wellpath Report

Robert Lee Unit 1H AWP Proj: 22910'  
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| REFERENCE WELLPATH IDENTIFICATION |                              |          |                        |
|-----------------------------------|------------------------------|----------|------------------------|
| Operator                          | ANTERO RESOURCES CORPORATION | Slot     | Slot #14               |
| Area                              | Tyler County, WV             | Well     | Robert Lee Unit 1H     |
| Field                             | Tyler                        | Wellbore | Robert Lee Unit 1H AWB |
| Facility                          | Rush Fork Pad                |          |                        |

| COMMENTS  |
|---|
| <p><b>Wellpath general comments</b><br/>API: 47-095-02558-0000<br/>BHI Job #: 109806120<br/>Rig: H&amp;P 317<br/>Duration: 06/06/2019-06/11/2019<br/>Gyrodata MS Gyro &lt;17-1/2"&gt;(50'-319')<br/>WFT EM &lt;12-1/4"&gt;(319')(379'-2538')<br/>WFT EM &lt;8-3/4"&gt;(2538')(2665'-5988')<br/>BHI AT Curve &lt;8-1/2"&gt; (5998.5')(6068'-22886')<br/>Middlesex: 6480' MD<br/>Burkett: 6683' MD<br/>Marcellus POE: 6757' MD<br/>Projected MD at TD: 22910'</p> |

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