



# ANTERO RESOURCES CORPORATION



Location: Tyler County, WV  
Field: Tyler  
Facility: Grand Pad

Slot: Slot #02  
Well: Vishnu Unit 2H  
Wellbore: Vishnu Unit 2H PWB

Grid System: NAD83 UTM Zone 17 North US feet  
North Reference: Grid North  
Scale: True distance  
Coordinates are in feet referenced to Slot  
Mean Sea Level to Ground level (At Slot Slot #02) -1243R  
Official - All MDs are referenced to each well's default MD datum  
Created by: antero on 2021-04-27; Database: WA, WEL, EASTERNUS Data

| Location Information |                   |                    |                 |
|----------------------|-------------------|--------------------|-----------------|
| Facility Name        | Grid East (US Ft) | Grid North (US Ft) | Longitude       |
| Grand Pad            | 1893813.970       | 39°30'25.7688"N    | 80°48'38.4804"W |
| Slot                 | Local E (ft)      | Local N (ft)       | Local L (ft)    |
| Slot #02             | -13.43            | 1893820.770        | 39°30'25.5640"N |
| Comment              | Vishnu Unit 2H    |                    |                 |

| Well Profile Data |          |         |         |
|-------------------|----------|---------|---------|
| Design Comment    | MD (ft)  | Inc (°) | Az (°)  |
| The On            | 2538.00  | 0.510   | 201.920 |
| Prof. to Bottom   | 2915.00  | 0.510   | 201.920 |
| KOP 1             | 2705.00  | 0.510   | 201.920 |
| End of 3D Arc     | 3238.18  | 15.831  | 97.292  |
| Curve KOP         | 6204.23  | 15.831  | 97.292  |
| Avoid NSZ         | 6942.73  | 30.000  | 0.000   |
| POE               | 7225.22  | 74.514  | 341.100 |
| Landing PL        | 7418.79  | 90.000  | 341.100 |
| BHL               | 23306.91 | 90.000  | 341.100 |

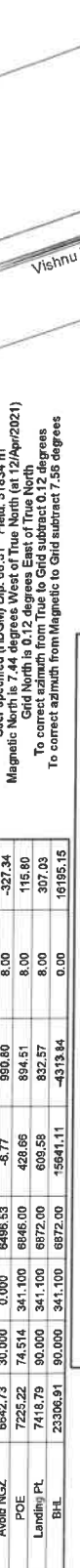
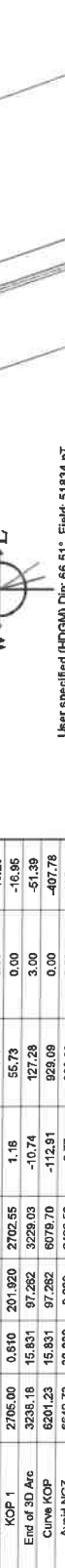
| Well Data |                |                    |          |
|-----------|----------------|--------------------|----------|
| Slot      | Well           | Wellbore           | VS (ft)  |
| Slot #02  | Vishnu Unit 2H | Vishnu Unit 2H AWB | 115.80   |
| Slot #02  | Vishnu Unit 2H | Vishnu Unit 2H PWB | 16195.15 |

API: 47-095-02717-0000  
BH Job #: 110784951  
Rig: H&P 317  
Duration: 4/14/2021-4/19/2021

Gyrodatta MS Gyro <17-1/2"> (373)(779-2538) : 0.37° Inc, 100.00ft MD, 100.00ft TVD, -0.24ft VS  
APS EM <12-1/4"> (2538)(2639-6451) : 0.88° Inc, 2639.00ft MD, 2636.55ft TVD, -16.76ft VS  
Marcellus POE: 7214' MD : 6640.24ft TVD, 425.82ft N, 918.65ft E

Projected MD at TD: 23325' : 90.56° Inc, 23325.00ft MD, 6815.00ft TVD, 16207.92ft VS  
BH AT Curve <8-1/2"> (6451)(6494-23300) : 23.01° Inc, 6494.00ft MD, 6359.52ft TVD, -378.43ft VS  
Marcellus POE: 7214' MD : 73.04° Inc, 7214.00ft MD, 6640.24ft TVD, 105.29ft VS

Vertical Section (ft)  
Azimuth 341.10° with reference 0.00 N, 0.00 E



Scale 1 inch = 200'

Scale 1 inch = 2500'

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# Actual Wellpath Report

Vishnu Unit 2H AWP Proj: 23325'  
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| REFERENCE WELLPATH IDENTIFICATION |                              |
|-----------------------------------|------------------------------|
| Operator                          | ANTERO RESOURCES CORPORATION |
| Field                             | Tyler                        |
| Facility                          | Grand Pad                    |
| Slot                              | Slot #02                     |
| Well                              | Vishnu Unit 2H               |
| API                               | 47-095-02717-0000            |
| Wellbore                          | Vishnu Unit 2H AWB           |

| REPORT SETUP INFORMATION |                                    |
|--------------------------|------------------------------------|
| Projection System        | NAD27 / UTM Zone 17 North, US feet |
| North Reference          | Grid                               |
| Scale                    | 0.999603                           |
| Convergence at slot      | 0.12° East                         |
| Software System          | WellArchitect® 6.0                 |
| User                     | Edsanyar                           |
| Report Generated         | 27/Apr/2021 at 20:21               |
| Database                 | WA_MPL_EASTERNUS_Defn              |

| WELLPATH LOCATION     |                   |          |                  |                 |                        |                 |
|-----------------------|-------------------|----------|------------------|-----------------|------------------------|-----------------|
|                       | Local coordinates |          | Grid coordinates |                 | Geographic coordinates |                 |
|                       | North[ft]         | East[ft] | Easting[US ft]   | Northing[US ft] | Latitude               | Longitude       |
| Slot Location         | -13.43            | 6.80     | 1693820.77       | 14346636.12     | 39°30'25.6540"N        | 80°48'38.3940"W |
| Facility Reference Pt |                   |          | 1693813.97       | 14346649.54     | 39°30'25.7866"N        | 80°48'38.4804"W |
| Field Reference Pt    |                   |          | 0.00             | 0.00            | 0°00'0.0000"           | 85°29'19.3013"W |

| WELLPATH DATUM           |  |
|--------------------------|--|
| Calculation method       | Minimum curvature                                |
| Horizontal Reference Pt  | Slot   |
| Vertical Reference Pt    | H&P 317 (RKB)                                    |
| MD Reference Pt          | H&P 317 (RKB)                                    |
| Field Vertical Reference | Mean Sea Level                                   |
|                          | H&P 317 (RKB) to Facility Vertical Datum         |
|                          | H&P 317 (RKB) to Mean Sea Level                  |
|                          | H&P 317 (RKB) to Ground Level at Slot (Slot #02) |
|                          | Section Origin                                   |
|                          | Section Azimuth                                  |
|                          | 1268.50ft  |
|                          | 1268.50ft  |
|                          | 25.50ft  |
|                          | N 0.00, E 0.00 ft                                |
|                          | 341.10°  |



# Actual Wellpath Report

Vishnu Unit 2H AWP Proj: 23325'  
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**REFERENCE WELLPATH DATA (extrapolated)**

|          |                              |          |                    |
|----------|------------------------------|----------|--------------------|
| Operator | ANTERO RESOURCES CORPORATION | Well     | Vishnu Unit 2H     |
| Field    | Tyler                        | API      | 47-095-02717-0000  |
| Facility | Grand Pad                    | Wellbore | Vishnu Unit 2H AWB |
| Slot     | Slot #02                     |          |                    |

**WELLPATH DATA (267 stations) † = interpolated, ‡ = extrapolated station**

| MD (ft) | Inclination (°) | Azimuth (°) | TVD (ft) | Vert Sect (ft) | North (ft) | East (ft) | Grid East (ft) | Grid North (ft) | Latitude        | Longitude       | Closure Dist (ft) | Closure Dir (°) | DLS (ft/100ft) | Build Rate (ft/100ft) | Turn Rate (ft/100ft) | Comments                               |
|---------|-----------------|-------------|----------|----------------|------------|-----------|----------------|-----------------|-----------------|-----------------|-------------------|-----------------|----------------|-----------------------|----------------------|--|
| 0.00    | 0.00            | 154.390     | 0.00     | 0.00           | 0.00       | 0.00      | 1693820.77     | 14346636.12     | 39°30'25.6540"N | 80°48'38.3940"W | 0.00              | 0.000           | 0.00           | 0.00                  | 0.00                 |  |
| 25.50   | 0.00            | 154.390     | 25.50    | 0.00           | 0.00       | 0.00      | 1693820.77     | 14346636.12     | 39°30'25.6540"N | 80°48'38.3940"W | 0.00              | 0.000           | 0.00           | 0.00                  | 0.00                 |  |
| 100.00  | 0.370           | 154.390     | 100.00   | -0.24          | -0.22      | 0.10      | 1693820.87     | 14346635.90     | 39°30'25.6518"N | 80°48'38.3926"W | 0.24              | 154.380         | 0.50           | 0.50                  | 0.00                 | Gyrodata MS Gyro <17-1/2"> (100'-373') |
| 200.00  | 0.280           | 162.130     | 200.00   | -0.80          | -0.74      | 0.32      | 1693821.09     | 14346635.38     | 39°30'25.6466"N | 80°48'38.3899"W | 0.81              | 156.729         | 0.10           | -0.09                 | 7.74                 |  |
| 300.00  | 0.250           | 132.870     | 300.00   | -1.24          | -1.12      | 0.55      | 1693821.32     | 14346635.00     | 39°30'25.6429"N | 80°48'38.3869"W | 1.25              | 153.739         | 0.14           | -0.03                 | -29.26               |  |
| 373.00  | 0.310           | 148.170     | 373.00   | -1.57          | -1.40      | 0.77      | 1693821.54     | 14346634.72     | 39°30'25.6401"N | 80°48'38.3841"W | 1.60              | 151.016         | 0.13           | 0.08                  | 20.96                |  |
| 779.00  | 6.450           | 74.850      | 778.13   | -4.14          | 3.63       | 23.39     | 1693824.15     | 14346639.75     | 39°30'25.6894"N | 80°48'37.9855"W | 23.67             | 81.168          | 1.57           | 1.51                  | -18.06               | APS EM <12-1/4"> (373')(779'-2538')    |
| 870.00  | 6.710           | 74.570      | 868.53   | -4.79          | 6.38       | 33.45     | 1693854.20     | 14346642.50     | 39°30'25.7164"N | 80°48'37.9871"W | 34.05             | 79.193          | 0.29           | 0.29                  | -0.31                |  |
| 960.00  | 5.230           | 70.390      | 958.04   | -5.06          | 9.16       | 42.38     | 1693869.13     | 14346645.28     | 39°30'25.7436"N | 80°48'37.8530"W | 43.36             | 77.803          | 1.71           | -1.64                 | -4.64                |  |
| 1050.00 | 2.890           | 77.630      | 1047.80  | -5.27          | 11.02      | 48.46     | 1693869.21     | 14346644.14     | 39°30'25.7619"N | 80°48'37.7754"W | 49.70             | 77.185          | 2.66           | -2.60                 | 8.04                 |  |
| 1145.00 | 1.060           | 47.070      | 1142.75  | -5.18          | 12.13      | 51.44     | 1693872.19     | 14346648.25     | 39°30'25.7728"N | 80°48'37.7373"W | 52.86             | 76.727          | 2.16           | -1.93                 | -32.17               |  |
| 1240.00 | 1.980           | 80.800      | 1237.71  | -5.10          | 13.00      | 53.71     | 1693874.46     | 14346649.11     | 39°30'25.7813"N | 80°48'37.7084"W | 55.26             | 76.397          | 1.31           | 0.97                  | 35.51                |  |
| 1335.00 | 2.150           | 81.520      | 1332.65  | -5.70          | 13.52      | 57.09     | 1693877.84     | 14346649.64     | 39°30'25.7864"N | 80°48'37.6652"W | 58.67             | 76.676          | 0.18           | 0.18                  | 0.76                 |  |
| 1429.00 | 0.270           | 45.190      | 1426.63  | -5.92          | 13.94      | 58.99     | 1693879.74     | 14346650.05     | 39°30'25.7905"N | 80°48'37.6410"W | 60.62             | 76.707          | 2.06           | -2.00                 | -38.65               |  |
| 1524.00 | 0.770           | 212.650     | 1521.62  | -6.22          | 13.56      | 58.81     | 1693879.55     | 14346649.67     | 39°30'25.7867"N | 80°48'37.6433"W | 60.35             | 77.018          | 1.09           | 0.53                  | 176.27               |  |
| 1619.00 | 0.470           | 225.420     | 1616.62  | -6.79          | 12.75      | 58.18     | 1693878.93     | 14346648.86     | 39°30'25.7787"N | 80°48'37.6513"W | 59.56             | 77.643          | 0.35           | -0.32                 | 13.44                |  |
| 1713.00 | 0.570           | 214.770     | 1710.61  | -7.23          | 12.09      | 57.64     | 1693878.39     | 14346648.21     | 39°30'25.7723"N | 80°48'37.6582"W | 58.90             | 78.153          | 0.15           | 0.11                  | -11.33               |  |
| 1808.00 | 0.560           | 202.520     | 1805.61  | -7.86          | 11.27      | 57.20     | 1693877.94     | 14346647.39     | 39°30'25.7642"N | 80°48'37.6640"W | 58.30             | 78.848          | 0.13           | -0.01                 | -12.89               |  |
| 1903.00 | 0.480           | 175.810     | 1900.61  | -8.59          | 10.45      | 57.05     | 1693877.79     | 14346646.56     | 39°30'25.7560"N | 80°48'37.6659"W | 58.00             | 79.620          | 0.27           | -0.08                 | -28.12               |  |
| 1998.00 | 0.640           | 187.400     | 1995.60  | -9.45          | 9.53       | 57.01     | 1693877.75     | 14346645.64     | 39°30'25.7489"N | 80°48'37.6664"W | 57.80             | 80.514          | 0.21           | 0.17                  | 12.20                |  |
| 2093.00 | 0.700           | 181.550     | 2090.60  | -10.47         | 8.42       | 56.92     | 1693877.67     | 14346644.54     | 39°30'25.7360"N | 80°48'37.6675"W | 57.54             | 81.586          | 0.10           | 0.06                  | -6.16                |  |
| 2188.00 | 0.730           | 183.080     | 2185.59  | -11.58         | 7.24       | 56.88     | 1693877.62     | 14346643.35     | 39°30'25.7243"N | 80°48'37.6682"W | 57.33             | 82.750          | 0.04           | 0.03                  | 1.61                 |  |
| 2282.00 | 0.810           | 179.160     | 2278.58  | -12.76         | 5.97       | 56.95     | 1693877.60     | 14346642.09     | 39°30'25.7118"N | 80°48'37.6685"W | 57.17             | 84.002          | 0.10           | 0.09                  | -4.17                |  |
| 2377.00 | 0.770           | 188.420     | 2374.57  | -13.97         | 4.67       | 56.77     | 1693877.52     | 14346640.79     | 39°30'25.6989"N | 80°48'37.6696"W | 56.96             | 85.297          | 0.14           | -0.04                 | 9.75                 |  |
| 2472.00 | 0.650           | 189.360     | 2469.56  | -15.01         | 3.51       | 56.59     | 1693877.34     | 14346639.63     | 39°30'25.6874"N | 80°48'37.6719"W | 56.70             | 86.454          | 0.13           | -0.13                 | 0.99                 |  |
| 2538.00 | 0.610           | 201.920     | 2535.56  | -15.61         | 2.81       | 56.40     | 1693877.14     | 14346638.93     | 39°30'25.6806"N | 80°48'37.6744"W | 56.47             | 87.146          | 0.22           | -0.06                 | 19.03                |  |
| 2639.00 | 0.880           | 176.330     | 2636.55  | -16.76         | 1.54       | 56.24     | 1693876.99     | 14346637.66     | 39°30'25.6680"N | 80°48'37.6763"W | 56.27             | 88.433          | 0.42           | 0.27                  | -25.34               | APS EM <8-3/4"> (2538')(2639'-6451')   |
| 2728.00 | 3.230           | 119.490     | 2725.49  | -19.30         | -0.38      | 58.47     | 1693879.22     | 14346635.74     | 39°30'25.6490"N | 80°48'37.6480"W | 58.47             | 90.370          | 3.20           | 2.64                  | -63.87               |  |
| 2816.00 | 6.300           | 105.770     | 2813.18  | -23.90         | -2.91      | 65.28     | 1693886.02     | 14346633.21     | 39°30'25.6238"N | 80°48'37.5612"W | 65.34             | 92.553          | 3.70           | 3.49                  | -15.59               |  |
| 2905.00 | 8.450           | 97.860      | 2901.44  | -28.62         | -5.13      | 76.46     | 1693897.20     | 14346630.98     | 39°30'25.6017"N | 80°48'37.4187"W | 76.63             | 93.840          | 2.67           | 2.42                  | -8.90                |  |

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# Actual Wellpath Report

Vishnu Unit 2H AWP Proj: 23325'  
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| REFERENCE WELLPATH IDENTIFICATION |                              |
|-----------------------------------|------------------------------|
| Operator                          | ANTERO RESOURCES CORPORATION |
| Field                             | Tyler                        |
| Facility                          | Grand Pad                    |
| Slot                              | Slot #02                     |
| Well                              | Vishnu Unit 2H               |
| API                               | 47-095-02717-0000            |
| Wellbore                          | Vishnu Unit 2H AWB           |

| WELLPATH DATA (267 stations) |             |         |         |           |         |        |            |             |                 |                 |              |             |           |            |           |          |
|------------------------------|-------------|---------|---------|-----------|---------|--------|------------|-------------|-----------------|-----------------|--------------|-------------|-----------|------------|-----------|----------|
| MD                           | Inclination | Azimuth | TVD     | Vert Sect | North   | East   | Grid East  | Grid North  | Latitude        | Longitude       | Closure Dist | Closure Dir | DLS       | Build Rate | Turn Rate | Comments |
| (ft)                         | (°)         | (°)     | (ft)    | (ft)      | (ft)    | (ft)   | (US ft)    | (US ft)     |                 |                 | (ft)         | (°)         | (F/100ft) | (F/100ft)  | (F/100ft) |          |
| 2993.00                      | 10.490      | 98.440  | 2988.24 | -36.21    | -7.19   | 90.79  | 1693911.52 | 14346628.93 | 39°30'25.5610"N | 80°48'37.2359"W | 91.07        | 94.529      | 2.32      | 2.32       | 0.67      |          |
| 3082.00                      | 12.430      | 98.170  | 3075.46 | -44.29    | -9.74   | 108.28 | 1693929.01 | 14346626.38 | 39°30'25.5554"N | 80°48'37.0127"W | 108.72       | 95.141      | 2.18      | 2.18       | -0.30     |          |
| 3170.00                      | 11.870      | 95.870  | 3161.49 | -52.39    | -12.01  | 126.66 | 1693947.38 | 14346624.11 | 39°30'25.5326"N | 80°48'36.7783"W | 127.23       | 95.418      | 0.84      | -0.64      | -2.61     |          |
| 3258.00                      | 13.900      | 95.580  | 3247.27 | -60.57    | -13.97  | 146.19 | 1693966.90 | 14346622.16 | 39°30'25.5129"N | 80°48'36.5293"W | 146.85       | 95.457      | 2.31      | 2.31       | -0.33     |          |
| 3347.00                      | 15.540      | 95.560  | 3333.34 | -69.93    | -16.16  | 168.69 | 1693989.40 | 14346619.97 | 39°30'25.4907"N | 80°48'36.2422"W | 169.47       | 95.472      | 1.84      | 1.84       | -0.02     |          |
| 3435.00                      | 15.200      | 92.960  | 3418.20 | -79.11    | -17.90  | 191.95 | 1694012.64 | 14346618.23 | 39°30'25.4713"N | 80°48'35.9456"W | 192.78       | 95.327      | 0.87      | -0.39      | -2.95     |          |
| 3528.00                      | 14.410      | 92.350  | 3508.11 | -87.84    | -19.00  | 215.68 | 1694036.37 | 14346617.12 | 39°30'25.4617"N | 80°48'35.6427"W | 216.52       | 95.035      | 0.87      | -0.85      | -0.66     |          |
| 3617.00                      | 14.150      | 92.140  | 3598.36 | -95.76    | -19.86  | 237.62 | 1694058.30 | 14346616.26 | 39°30'25.4527"N | 80°48'35.3629"W | 238.45       | 94.778      | 0.30      | -0.29      | -0.24     |          |
| 3705.00                      | 14.260      | 97.150  | 3678.67 | -104.38   | -21.61  | 259.13 | 1694079.79 | 14346614.51 | 39°30'25.4349"N | 80°48'35.0886"W | 260.03       | 94.768      | 1.40      | 0.13       | 5.69      |          |
| 3794.00                      | 15.090      | 99.170  | 3765.77 | -114.65   | -24.82  | 281.44 | 1694102.10 | 14346611.31 | 39°30'25.4027"N | 80°48'34.8040"W | 282.53       | 95.041      | 1.10      | 0.93       | 2.27      |          |
| 3882.00                      | 15.370      | 98.740  | 3850.68 | -125.45   | -28.42  | 304.27 | 1694124.92 | 14346607.71 | 39°30'25.3667"N | 80°48'34.5128"W | 305.60       | 95.337      | 0.34      | 0.32       | -0.49     |          |
| 3971.00                      | 15.810      | 99.130  | 3936.40 | -136.62   | -32.14  | 327.90 | 1694148.54 | 14346603.99 | 39°30'25.3295"N | 80°48'34.2114"W | 329.47       | 95.598      | 0.51      | 0.49       | 0.44      |          |
| 4059.00                      | 14.220      | 98.760  | 4021.40 | -147.27   | -35.69  | 350.42 | 1694171.05 | 14346600.45 | 39°30'25.2939"N | 80°48'33.9242"W | 352.23       | 95.815      | 1.81      | -1.81      | -0.42     |          |
| 4147.00                      | 13.650      | 99.130  | 4106.81 | -157.17   | -38.98  | 371.36 | 1694191.98 | 14346597.15 | 39°30'25.2610"N | 80°48'33.6572"W | 373.40       | 95.992      | 0.66      | -0.65      | 0.42      |          |
| 4236.00                      | 13.880      | 99.520  | 4193.25 | -167.18   | -42.41  | 392.25 | 1694212.87 | 14346593.72 | 39°30'25.2266"N | 80°48'33.3907"W | 394.54       | 96.171      | 0.28      | 0.26       | 0.44      |          |
| 4324.00                      | 14.720      | 108.330 | 4278.53 | -178.97   | -47.68  | 413.28 | 1694233.88 | 14346588.46 | 39°30'25.1742"N | 80°48'33.1226"W | 416.02       | 96.580      | 2.65      | 0.95       | 10.01     |          |
| 4413.00                      | 15.920      | 108.960 | 4364.37 | -193.31   | -55.20  | 435.56 | 1694256.15 | 14346580.94 | 39°30'25.0993"N | 80°48'32.8386"W | 439.04       | 97.222      | 1.36      | 1.35       | 0.71      |          |
| 4501.00                      | 16.360      | 105.510 | 4448.90 | -207.73   | -62.44  | 458.93 | 1694279.52 | 14346573.71 | 39°30'25.0273"N | 80°48'32.5406"W | 463.16       | 97.747      | 1.21      | 0.52       | -3.92     |          |
| 4590.00                      | 16.910      | 104.650 | 4534.17 | -221.97   | -69.07  | 483.54 | 1694304.12 | 14346567.08 | 39°30'24.9613"N | 80°48'32.2268"W | 488.45       | 98.129      | 0.66      | 0.60       | -0.97     |          |
| 4678.00                      | 16.030      | 104.270 | 4618.56 | -235.69   | -75.30  | 507.70 | 1694328.27 | 14346550.85 | 39°30'24.8992"N | 80°48'31.9187"W | 513.26       | 98.436      | 1.01      | -1.00      | -0.43     |          |
| 4767.00                      | 16.360      | 103.110 | 4704.02 | -249.06   | -81.17  | 531.82 | 1694352.38 | 14346554.98 | 39°30'24.8406"N | 80°48'31.6112"W | 537.98       | 98.678      | 0.52      | 0.37       | -1.30     |          |
| 4855.00                      | 17.090      | 102.680 | 4788.30 | -262.40   | -86.82  | 556.50 | 1694377.05 | 14346549.33 | 39°30'24.7843"N | 80°48'31.2964"W | 563.24       | 98.867      | 0.84      | 0.83       | -0.49     |          |
| 4943.00                      | 15.060      | 99.220  | 4872.86 | -274.56   | -91.49  | 580.41 | 1694400.95 | 14346544.67 | 39°30'24.7376"N | 80°48'30.9916"W | 587.57       | 98.958      | 2.55      | -2.31      | -3.93     |          |
| 5032.00                      | 14.980      | 97.510  | 4958.82 | -285.13   | -94.85  | 603.22 | 1694423.75 | 14346541.31 | 39°30'24.7040"N | 80°48'30.7006"W | 610.64       | 98.936      | 0.51      | -0.09      | -1.92     |          |
| 5120.00                      | 16.050      | 97.620  | 5043.61 | -295.62   | -97.95  | 626.56 | 1694447.08 | 14346538.21 | 39°30'24.6726"N | 80°48'30.4030"W | 634.17       | 98.885      | 1.22      | 1.22       | 0.12      |          |
| 5209.00                      | 15.820      | 99.170  | 5129.19 | -306.82   | -101.51 | 650.73 | 1694471.24 | 14346534.65 | 39°30'24.6371"N | 80°48'30.0947"W | 658.60       | 98.866      | 0.54      | -0.26      | 1.74      |          |
| 5297.00                      | 16.170      | 97.690  | 5213.78 | -317.95   | -105.06 | 674.71 | 1694495.22 | 14346531.10 | 39°30'24.6015"N | 80°48'29.7888"W | 682.85       | 98.851      | 0.61      | 0.40       | -1.68     |          |
| 5386.00                      | 17.220      | 90.820  | 5299.04 | -327.94   | -106.91 | 700.17 | 1694520.66 | 14346529.25 | 39°30'24.5627"N | 80°48'29.4841"W | 708.29       | 98.681      | 2.51      | 1.18       | -7.72     |          |
| 5474.00                      | 17.780      | 90.510  | 5382.97 | -336.80   | -107.22 | 726.63 | 1694547.11 | 14346528.95 | 39°30'24.5791"N | 80°48'29.1265"W | 734.50       | 98.393      | 0.65      | 0.64       | -0.35     |          |
| 5562.00                      | 18.070      | 92.910  | 5466.77 | -346.34   | -108.03 | 753.70 | 1694574.17 | 14346528.14 | 39°30'24.5705"N | 80°48'28.7812"W | 761.40       | 98.157      | 0.90      | 0.33       | 2.73      |          |



# Actual Wellpath Report

Vishnu Unit 2H AWP Proj: 23325'  
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## REFERENCE WELL PATH IDENTIFICATION

| Operator | ANTERO RESOURCES CORPORATION | Well     | Vishnu Unit 2H     |
|----------|------------------------------|----------|--------------------|
| Field    | Tyler                        | API      | 47-095-02717-0000  |
| Facility | Grand Pad                    | Wellbore | Vishnu Unit 2H AWB |
| Slot     | Slot #02                     |          |                    |

## WELLPATH DATA (267 stations) † = interpolated, ‡ = extrapolated station

| MD (ft) | Inclination (°) | Azimuth (°) | TVD (ft) | Vert Sect (ft) | North (ft) | East (ft) | Grid East (ft) | Grid North (ft) | Latitude        | Longitude       | Closure Dist (ft) | Closure Dir (°) | DLS (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) | Comments                                     |
|---------|-----------------|-------------|----------|----------------|------------|-----------|----------------|-----------------|-----------------|-----------------|-------------------|-----------------|---------------|----------------------|---------------------|--|
| 5651.00 | 18.330          | 92.740      | 5551.24  | -356.63        | -109.40    | 781.46    | 1694601.92     | 14346526.77     | 39°30'24.5564"N | 80°48'28.4270"W | 789.08            | 97.969          | 0.30          | 0.29                 | -0.19               |  |
| 5739.00 | 15.750          | 87.200      | 5635.38  | -365.05        | -109.48    | 807.22    | 1694627.67     | 14346526.69     | 39°30'24.5551"N | 80°48'28.0384"W | 814.61            | 97.723          | 3.46          | -2.93                | -6.30               |  |
| 5827.00 | 15.290          | 84.020      | 5720.17  | -370.95        | -107.68    | 830.69    | 1694651.13     | 14346528.48     | 39°30'24.5723"N | 80°48'27.7989"W | 837.64            | 97.386          | 1.10          | -0.52                | -3.61               |  |
| 5921.00 | 16.040          | 90.290      | 5810.69  | -377.99        | -106.46    | 856.00    | 1694676.43     | 14346529.70     | 39°30'24.5839"N | 80°48'27.4759"W | 862.60            | 97.089          | 1.97          | 0.80                 | 6.67                |  |
| 6009.00 | 16.150          | 96.100      | 5895.24  | -387.16        | -107.82    | 880.33    | 1694700.75     | 14346528.34     | 39°30'24.5698"N | 80°48'27.1656"W | 886.91            | 96.983          | 1.83          | 0.13                 | 6.60                |  |
| 6098.00 | 15.090          | 90.040      | 5980.96  | -396.15        | -109.14    | 904.23    | 1694724.64     | 14346527.02     | 39°30'24.5663"N | 80°48'26.8608"W | 910.79            | 96.882          | 2.18          | -1.19                | -6.81               |  |
| 6186.00 | 14.450          | 87.590      | 6066.05  | -402.99        | -108.69    | 926.65    | 1694747.05     | 14346527.47     | 39°30'24.5603"N | 80°48'26.5747"W | 933.00            | 96.690          | 1.02          | -0.73                | -2.78               |  |
| 6275.00 | 13.920          | 64.380      | 6152.41  | -404.89        | -103.59    | 947.42    | 1694767.81     | 14346532.57     | 39°30'24.6103"N | 80°48'26.3066"W | 953.06            | 96.240          | 6.38          | -0.60                | -26.08              |  |
| 6363.00 | 17.930          | 54.040      | 6237.03  | -399.67        | -91.05     | 967.94    | 1694788.32     | 14346545.11     | 39°30'24.7338"N | 80°48'26.0475"W | 972.21            | 95.374          | 5.57          | 4.56                 | -11.75              |  |
| 6451.00 | 21.950          | 41.710      | 6319.78  | -387.62        | -70.80     | 989.86    | 1694810.24     | 14346565.35     | 39°30'24.9835"N | 80°48'25.7672"W | 992.39            | 94.091          | 6.59          | 4.57                 | -14.01              |  |
| 6494.00 | 23.010          | 32.490      | 6359.52  | -378.43        | -57.71     | 999.73    | 1694820.10     | 14346578.43     | 39°30'25.0626"N | 80°48'25.8410"W | 1001.39           | 93.304          | 8.55          | 2.47                 | -21.44              | BH AT Curve <-8-1/2"> (6451)-(6494)-(23300') |
| 6546.00 | 25.940          | 22.630      | 6406.86  | -363.56        | -38.63     | 1009.57   | 1694829.94     | 14346597.51     | 39°30'25.2510"N | 80°48'25.5149"W | 1010.31           | 92.191          | 9.65          | 5.63                 | -18.96              |  |
| 6637.00 | 29.570          | 6.400       | 6487.49  | -328.30        | 2.13       | 1019.75   | 1694840.11     | 14346638.25     | 39°30'25.6536"N | 80°48'25.3642"W | 1019.75           | 89.880          | 9.18          | 3.99                 | -17.84              |  |
| 6725.00 | 35.740          | 356.750     | 6561.60  | -283.95        | 49.45      | 1020.71   | 1694841.58     | 14346668.55     | 39°30'26.6731"N | 80°48'25.3703"W | 1021.85           | 87.996          | 9.16          | 7.30                 | -9.67               |  |
| 6814.00 | 42.550          | 351.980     | 6630.60  | -229.19        | 105.27     | 1015.03   | 1694832.04     | 14346741.35     | 39°30'26.8981"N | 80°48'25.4413"W | 1020.48           | 84.079          | 8.36          | 7.65                 | -5.36               |  |
| 6847.00 | 45.865          | 351.247     | 6654.25  | -206.57        | 128.03     | 1011.67   | 1694832.04     | 14346764.10     | 39°30'26.8981"N | 80°48'25.4835"W | 1019.74           | 82.787          | 10.17         | 10.05                | -2.22               | Middlesex: 6847' MD                          |
| 6902.00 | 51.400          | 350.190     | 6690.59  | -165.89        | 168.75     | 1005.00   | 1694825.37     | 14346804.80     | 39°30'27.3007"N | 80°48'25.5675"W | 1019.07           | 80.468          | 10.17         | 10.06                | -1.92               |  |
| 6991.00 | 56.590          | 341.690     | 6742.95  | -94.27         | 238.42     | 987.38    | 1694807.75     | 14346874.44     | 39°30'27.9896"N | 80°48'25.7905"W | 1015.75           | 78.425          | 9.67          | 5.83                 | -9.55               |  |
| 7007.00 | 57.338          | 341.268     | 6751.67  | -80.85         | 251.13     | 983.11    | 1694803.49     | 14346887.15     | 39°30'28.1154"N | 80°48'25.8445"W | 1014.68           | 75.670          | 5.16          | 4.66                 | -2.64               | Burkett: 7007' MD                            |
| 7067.00 | 60.146          | 339.744     | 6782.81  | -29.57         | 299.47     | 955.99    | 1694786.38     | 14346935.47     | 39°30'28.5935"N | 80°48'26.0816"W | 1011.35           | 72.776          | 5.16          | 4.68                 | -2.54               | Tully: 7067' MD                              |
| 7079.00 | 60.710          | 339.450     | 6788.73  | -19.14         | 309.26     | 962.35    | 1694782.74     | 14346945.25     | 39°30'28.6903"N | 80°48'26.1078"W | 1010.82           | 72.185          | 5.16          | 4.70                 | -2.45               |  |
| 7167.00 | 70.040          | 339.400     | 6825.35  | 60.73          | 384.07     | 934.27    | 1694754.67     | 14347020.03     | 39°30'29.4302"N | 80°48'26.4641"W | 1010.13           | 67.653          | 10.60         | 10.60                | -0.06               |  |
| 7214.00 | 73.039          | 339.577     | 6840.24  | 105.29         | 425.82     | 918.65    | 1694739.05     | 14347061.77     | 39°30'29.8432"N | 80°48'26.6622"W | 1012.54           | 65.131          | 6.39          | 6.38                 | 0.38                | Marcellus POE: 7214' MD                      |
| 7256.00 | 75.720          | 339.730     | 6851.54  | 145.72         | 463.74     | 904.59    | 1694725.00     | 14347099.67     | 39°30'30.2183"N | 80°48'26.8406"W | 1016.53           | 62.558          | 6.39          | 6.38                 | 0.36                |  |
| 7344.00 | 86.240          | 339.650     | 6865.32  | 232.49         | 545.13     | 874.46    | 1694694.88     | 14347181.03     | 39°30'31.0234"N | 80°48'27.2227"W | 1030.46           | 58.061          | 11.95         | 11.95                | -0.09               |  |
| 7433.00 | 89.820          | 339.880     | 6868.38  | 321.40         | 628.58     | 843.70    | 1694664.14     | 14347264.45     | 39°30'31.8487"N | 80°48'27.6128"W | 1052.11           | 53.313          | 4.03          | 4.02                 | 0.26                |  |
| 7521.00 | 86.890          | 339.500     | 6869.37  | 409.36         | 711.10     | 813.16    | 1694633.61     | 14347346.94     | 39°30'32.6650"N | 80°48'28.0003"W | 1080.23           | 48.831          | 1.14          | -1.06                | -0.43               |  |
| 7610.00 | 88.830          | 339.460     | 6871.14  | 498.31         | 794.44     | 781.97    | 1694602.43     | 14347430.24     | 39°30'33.4893"N | 80°48'28.3960"W | 1114.72           | 44.547          | 0.08          | -0.07                | -0.04               |  |
| 7698.00 | 88.610          | 339.710     | 6873.11  | 586.26         | 876.89     | 751.28    | 1694571.75     | 14347512.66     | 39°30'34.3048"N | 80°48'28.7852"W | 1154.71           | 40.589          | 0.38          | -0.25                | 0.28                |  |

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# Actual Wellpath Report

Vishnu Unit 2H AWP Proj: 23325  
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| REFERENCE WELLPATH IDENTIFICATION |                              |
|-----------------------------------|------------------------------|
| Operator                          | ANTERO RESOURCES CORPORATION |
| Field                             | Tyler                        |
| Facility                          | Grand Pad                    |
| Slot                              | Slot #02                     |
| Well                              | Vishnu Unit 2H               |
| API                               | 47-095-02717-0000            |
| Wellbore                          | Vishnu Unit 2H AWB           |

| WELLPATH DATA (267 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 |
| 7787.00                      | 88.090          | 339.050     | 6875.67  | 675.18         | 960.15     | 719.95    | 1694540.43        | 14347695.89        | 39°30'35.1284"N | 80°48'29.1827"W | 1200.09           | 36.864          | 0.94          | -0.58                | -0.74               |          |
| 7875.00                      | 88.610          | 340.420     | 6878.20  | 763.12         | 1042.67    | 688.49    | 1694509.98        | 14347678.37        | 39°30'35.9446"N | 80°48'29.5692"W | 1250.02           | 33.475          | 1.66          | 0.59                 | 1.56                |          |
| 7964.00                      | 88.860          | 340.480     | 6880.17  | 852.09         | 1126.52    | 659.71    | 1694490.22        | 14347762.19        | 39°30'36.7739"N | 80°48'29.9468"W | 1306.47           | 30.354          | 0.29          | 0.28                 | 0.07                |          |
| 8052.00                      | 88.340          | 341.390     | 6882.32  | 940.06         | 1209.66    | 630.98    | 1694451.49        | 14347845.30        | 39°30'37.5963"N | 80°48'30.3111"W | 1364.34           | 27.547          | 1.19          | -0.59                | 1.03                |          |
| 8140.00                      | 90.000          | 343.260     | 6883.59  | 1028.02        | 1293.49    | 604.26    | 1694424.79        | 14347928.10        | 39°30'38.4253"N | 80°48'30.6497"W | 1427.68           | 25.040          | 2.84          | 1.89                 | 2.12                |          |
| 8229.00                      | 88.650          | 339.190     | 6884.64  | 1117.00        | 1377.73    | 575.63    | 1694396.17        | 14348006.19        | 39°30'39.2585"N | 80°48'31.0128"W | 1493.15           | 22.676          | 4.82          | -1.52                | -4.57               |          |
| 8318.00                      | 88.580          | 338.290     | 6886.78  | 1205.89        | 1460.65    | 543.36    | 1694383.92        | 14348096.19        | 39°30'40.0787"N | 80°48'31.4221"W | 1558.44           | 20.405          | 1.01          | -0.08                | -1.01               |          |
| 8406.00                      | 90.520          | 340.940     | 6887.48  | 1293.85        | 1543.13    | 512.72    | 1694333.28        | 14348178.63        | 39°30'40.8945"N | 80°48'31.8109"W | 1626.07           | 18.380          | 3.73          | 2.20                 | 3.01                |          |
| 8495.00                      | 88.710          | 337.580     | 6888.08  | 1382.79        | 1626.34    | 481.21    | 1694301.78        | 14348261.81        | 39°30'41.7176"N | 80°48'32.2107"W | 1696.04           | 16.483          | 4.29          | -2.03                | -3.78               |          |
| 8583.00                      | 88.830          | 337.580     | 6889.97  | 1470.60        | 1707.67    | 447.65    | 1694288.24        | 14348343.11        | 39°30'42.5221"N | 80°48'32.6366"W | 1765.37           | 14.889          | 0.14          | 0.14                 | 0.00                |          |
| 8672.00                      | 91.140          | 341.880     | 6889.99  | 1559.55        | 1791.13    | 416.83    | 1694237.43        | 14348426.54        | 39°30'43.3476"N | 80°48'33.0276"W | 1839.00           | 13.101          | 5.48          | 2.60                 | 4.83                |          |
| 8760.00                      | 89.140          | 339.800     | 6889.78  | 1647.54        | 1874.25    | 387.95    | 1694208.56        | 14348509.62        | 39°30'44.1697"N | 80°48'33.3939"W | 1913.98           | 11.694          | 3.28          | -2.27                | -2.36               |          |
| 8849.00                      | 89.690          | 339.760     | 6890.69  | 1736.51        | 1957.76    | 357.19    | 1694177.82        | 14348593.10        | 39°30'44.9957"N | 80°48'33.7841"W | 1990.08           | 10.340          | 0.62          | 0.62                 | -0.04               |          |
| 8937.00                      | 88.890          | 338.570     | 6891.78  | 1824.45        | 2040.00    | 325.89    | 1694146.53        | 14348675.30        | 39°30'45.8091"N | 80°48'34.1812"W | 2065.86           | 9.076           | 1.63          | -0.91                | -1.35               |          |
| 9026.00                      | 89.200          | 340.110     | 6893.26  | 1913.39        | 2123.26    | 294.50    | 1694115.15        | 14348758.53        | 39°30'46.6327"N | 80°48'34.5795"W | 2143.59           | 7.897           | 1.76          | 0.35                 | 1.73                |          |
| 9114.00                      | 89.480          | 340.310     | 6894.28  | 2001.38        | 2206.06    | 264.70    | 1694085.37        | 14348841.30        | 39°30'47.4516"N | 80°48'34.9574"W | 2221.88           | 6.842           | 0.39          | 0.32                 | 0.23                |          |
| 9203.00                      | 88.740          | 338.350     | 6895.66  | 2090.32        | 2289.31    | 233.29    | 1694053.97        | 14348924.52        | 39°30'48.2751"N | 80°48'35.3559"W | 2301.17           | 5.819           | 2.35          | -0.83                | -2.20               |          |
| 9291.00                      | 89.720          | 341.440     | 6896.84  | 2178.28        | 2371.93    | 203.05    | 1694023.74        | 14349007.11        | 39°30'49.0923"N | 80°48'35.7395"W | 2380.61           | 4.893           | 3.68          | 1.11                 | 3.51                |          |
| 9380.00                      | 90.460          | 342.430     | 6898.70  | 2267.27        | 2456.54    | 175.45    | 1693996.15        | 14349091.68        | 39°30'49.9291"N | 80°48'36.0894"W | 2462.80           | 4.085           | 1.39          | 0.83                 | 1.11                |          |
| 9468.00                      | 89.420          | 341.690     | 6898.79  | 2355.25        | 2540.26    | 148.35    | 1693969.06        | 14349175.37        | 39°30'50.7571"N | 80°48'36.4330"W | 2544.59           | 3.342           | 1.45          | -1.18                | -0.84               |          |
| 9557.00                      | 89.570          | 339.710     | 6897.58  | 2444.24        | 2624.25    | 118.94    | 1693939.66        | 14349259.33        | 39°30'51.5878"N | 80°48'36.8060"W | 2626.95           | 2.595           | 2.23          | 0.17                 | -2.22               |          |
| 9645.00                      | 90.180          | 337.760     | 6897.77  | 2532.16        | 2706.26    | 87.02     | 1693907.76        | 14349341.30        | 39°30'52.3990"N | 80°48'37.2110"W | 2707.66           | 1.842           | 2.32          | 0.69                 | -2.22               |          |
| 9733.00                      | 89.820          | 335.940     | 6897.77  | 2619.92        | 2787.17    | 52.43     | 1693873.18        | 14349422.18        | 39°30'53.1993"N | 80°48'37.6503"W | 2787.66           | 1.078           | 2.11          | -0.41                | -2.07               |          |
| 9822.00                      | 89.690          | 339.120     | 6898.15  | 2708.73        | 2869.40    | 18.42     | 1693839.18        | 14349504.38        | 39°30'54.0128"N | 80°48'38.0820"W | 2869.46           | 0.368           | 3.58          | -0.15                | 3.57                |          |
| 9910.00                      | 90.030          | 344.110     | 6898.37  | 2796.70        | 2952.88    | -9.33     | 1693811.44        | 14349587.82        | 39°30'54.8384"N | 80°48'38.4338"W | 2952.90           | 359.819         | 5.68          | 0.39                 | 5.67                |          |
| 9999.00                      | 89.630          | 343.770     | 6898.63  | 2885.59        | 3038.41    | -33.95    | 1693786.83        | 14349673.32        | 39°30'55.6842"N | 80°48'38.7457"W | 3038.60           | 359.360         | 0.59          | -0.45                | -0.38               |          |
| 10087.00                     | 90.090          | 344.990     | 6898.84  | 2973.44        | 3123.16    | -57.65    | 1693763.15        | 14349758.03        | 39°30'56.5223"N | 80°48'39.0457"W | 3123.69           | 358.943         | 1.48          | 0.52                 | 1.39                |          |
| 10176.00                     | 92.310          | 346.220     | 6898.98  | 3062.14        | 3209.34    | -78.76    | 1693741.04        | 14349844.18        | 39°30'57.3745"N | 80°48'39.3256"W | 3210.33           | 358.576         | 2.85          | 2.49                 | 1.38                |          |
| 10264.00                     | 93.330          | 343.320     | 6892.65  | 3149.84        | 3294.13    | -102.85   | 1693717.96        | 14349928.94        | 39°30'58.2130"N | 80°48'39.6179"W | 3295.74           | 358.212         | 3.49          | 1.16                 | -3.30               |          |
| 10353.00                     | 91.020          | 342.490     | 6889.27  | 3238.73        | 3379.13    | -128.99   | 1693691.83        | 14350013.90        | 39°30'59.0537"N | 80°48'39.9492"W | 3381.59           | 357.814         | 2.76          | -2.60                | -0.93               |          |



# Actual Wellpath Report

Vishnu Unit 2H AWP Proj: 23325'  
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| REFERENCE WELLPATH IDENTIFICATION |                              |
|-----------------------------------|------------------------------|
| Operator                          | ANTERO RESOURCES CORPORATION |
| Field                             | Tyler                        |
| Facility                          | Grand Pad                    |
| Slot                              | Slot #02                     |
| Well                              | Vishnu Unit 2H               |
| API                               | 47-095-02717-0000            |
| Wellbore                          | Vishnu Unit 2H AWB           |

| WELLPATH DATA (267 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 (ft) | DLS (ft/100ft) | Build Rate (ft/100ft) | Turn Rate (ft/100ft) | Comments |
| 10441.00                     | 89.510          | 344.740     | 6888.87  | 3326.64        | 3463.55    | -153.81   | 1693667.02        | 14350098.29        | 39°30'59.8885"N | 80°48'40.2637"W | 3466.96           | 357.457          | 3.08           | -1.72                 | 2.56                 |          |
| 10530.00                     | 89.290          | 344.790     | 6889.80  | 3415.45        | 3549.42    | -177.20   | 1693664.64        | 14350184.12        | 39°31'10.7376"N | 80°48'40.5598"W | 3553.84           | 357.142          | 0.25           | -0.25                 | 0.08                 |          |
| 10618.00                     | 89.510          | 345.190     | 6890.72  | 3503.24        | 3634.41    | -199.99   | 1693620.86        | 14350269.08        | 39°31'11.5781"N | 80°48'40.8483"W | 3639.91           | 356.850          | 0.52           | 0.25                  | 0.45                 |          |
| 10707.00                     | 91.110          | 344.250     | 6890.24  | 3592.06        | 3720.26    | -223.44   | 1693597.42        | 14350354.89        | 39°31'12.4271"N | 80°48'41.1453"W | 3726.96           | 356.563          | 2.09           | 1.80                  | -1.06                |          |
| 10795.00                     | 89.570          | 341.210     | 6889.72  | 3680.01        | 3804.28    | -249.56   | 1693571.31        | 14350438.88        | 39°31'13.2680"N | 80°48'41.4763"W | 3812.45           | 356.247          | 3.87           | -1.75                 | -3.45                |          |
| 10884.00                     | 88.710          | 340.840     | 6891.05  | 3769.00        | 3888.43    | -278.50   | 1693542.38        | 14350523.00        | 39°31'14.0903"N | 80°48'41.8433"W | 3898.39           | 355.903          | 1.05           | -0.97                 | -0.42                |          |
| 10972.00                     | 91.630          | 344.250     | 6890.79  | 3856.95        | 3972.36    | -304.89   | 1693516.00        | 14350606.89        | 39°31'14.9203"N | 80°48'42.1778"W | 3984.04           | 355.611          | 5.10           | 3.32                  | 3.88                 |          |
| 11061.00                     | 90.180          | 340.500     | 6889.38  | 3945.89        | 4057.15    | -331.83   | 1693489.07        | 14350691.65        | 39°31'15.7589"N | 80°48'42.5193"W | 4070.70           | 355.324          | 4.52           | -1.63                 | -4.21                |          |
| 11149.00                     | 89.820          | 343.270     | 6889.38  | 4033.88        | 4140.78    | -359.19   | 1693461.73        | 14350775.25        | 39°31'16.5860"N | 80°48'42.8661"W | 4156.33           | 355.042          | 3.17           | -0.41                 | 3.15                 |          |
| 11238.00                     | 88.860          | 341.850     | 6890.41  | 4122.84        | 4225.68    | -385.86   | 1693435.07        | 14350860.11        | 39°31'17.4257"N | 80°48'43.2042"W | 4243.28           | 354.783          | 1.93           | -1.08                 | -1.60                |          |
| 11326.00                     | 90.740          | 341.340     | 6890.72  | 4210.83        | 4309.17    | -413.64   | 1693407.29        | 14350943.58        | 39°31'18.2515"N | 80°48'43.5565"W | 4328.98           | 354.517          | 2.21           | 2.14                  | -0.58                |          |
| 11415.00                     | 88.680          | 339.350     | 6891.17  | 4299.81        | 4392.98    | -443.57   | 1693377.37        | 14351027.35        | 39°31'19.0803"N | 80°48'43.9362"W | 4415.32           | 354.234          | 3.22           | -2.31                 | -2.24                |          |
| 11503.00                     | 90.060          | 340.640     | 6892.13  | 4387.79        | 4475.66    | -473.67   | 1693347.28        | 14351110.00        | 39°31'19.8981"N | 80°48'44.3181"W | 4500.66           | 353.959          | 2.15           | 1.57                  | 1.47                 |          |
| 11592.00                     | 87.480          | 338.100     | 6894.05  | 4476.71        | 4558.92    | -505.02   | 1693315.95        | 14351193.22        | 39°31'20.7217"N | 80°48'44.7158"W | 4586.81           | 353.679          | 4.07           | -2.90                 | -2.85                |          |
| 11680.00                     | 89.690          | 339.460     | 6896.22  | 4564.61        | 4640.92    | -536.86   | 1693284.13        | 14351275.19        | 39°31'21.5328"N | 80°48'45.1199"W | 4671.87           | 353.401          | 2.95           | 2.51                  | 1.55                 |          |
| 11769.00                     | 89.880          | 340.360     | 6896.55  | 4653.58        | 4724.51    | -567.43   | 1693253.57        | 14351358.74        | 39°31'22.3695"N | 80°48'45.5078"W | 4758.46           | 353.151          | 1.03           | 0.21                  | 1.01                 |          |
| 11857.00                     | 89.630          | 340.380     | 6896.93  | 4741.58        | 4807.39    | -596.99   | 1693224.02        | 14351441.59        | 39°31'23.1792"N | 80°48'45.8928"W | 4844.32           | 352.921          | 0.28           | -0.28                 | 0.02                 |          |
| 11946.00                     | 89.260          | 338.780     | 6897.79  | 4830.54        | 4890.79    | -628.04   | 1693192.98        | 14351524.96        | 39°31'24.0042"N | 80°48'46.2768"W | 4930.95           | 352.683          | 1.85           | -0.42                 | -1.80                |          |
| 12034.00                     | 89.600          | 339.600     | 6898.67  | 4918.48        | 4973.04    | -659.30   | 1693161.73        | 14351607.18        | 39°31'24.8177"N | 80°48'46.6736"W | 5016.56           | 352.448          | 1.01           | 0.39                  | 0.93                 |          |
| 12122.00                     | 89.820          | 338.550     | 6899.11  | 5006.43        | 5055.24    | -690.73   | 1693130.32        | 14351689.34        | 39°31'25.6307"N | 80°48'47.0724"W | 5102.21           | 352.219          | 1.22           | 0.25                  | -1.19                |          |
| 12211.00                     | 90.220          | 338.680     | 6899.08  | 5095.34        | 5138.11    | -723.18   | 1693097.88        | 14351772.18        | 39°31'26.4505"N | 80°48'47.4843"W | 5188.75           | 351.988          | 0.47           | 0.45                  | 0.15                 |          |
| 12299.00                     | 89.600          | 339.010     | 6899.22  | 5183.27        | 5220.18    | -754.94   | 1693066.13        | 14351854.22        | 39°31'27.2622"N | 80°48'47.8874"W | 5274.49           | 351.771          | 0.80           | -0.70                 | 0.38                 |          |
| 12388.00                     | 89.970          | 341.320     | 6899.55  | 5272.26        | 5303.89    | -785.14   | 1693035.95        | 14351937.90        | 39°31'28.0902"N | 80°48'48.2705"W | 5361.69           | 351.580          | 2.63           | 0.42                  | 2.60                 |          |
| 12476.00                     | 89.880          | 341.060     | 6899.57  | 5360.26        | 5387.19    | -813.51   | 1693007.58        | 14352021.17        | 39°31'28.9141"N | 80°48'48.6304"W | 5448.27           | 351.413          | 0.31           | -0.10                 | -0.30                |          |
| 12565.00                     | 90.340          | 340.990     | 6899.50  | 5449.25        | 5471.33    | -842.52   | 1692978.58        | 14352105.27        | 39°31'29.7462"N | 80°48'48.9984"W | 5535.82           | 351.246          | 0.55           | 0.52                  | -0.19                |          |
| 12653.00                     | 89.940          | 341.850     | 6899.28  | 5537.25        | 5554.72    | -870.63   | 1692950.48        | 14352188.62        | 39°31'30.5709"N | 80°48'49.3549"W | 5622.54           | 351.092          | 1.18           | -0.45                 | 1.09                 |          |
| 12742.00                     | 90.520          | 341.240     | 6898.92  | 5626.25        | 5639.14    | -898.81   | 1692922.32        | 14352273.01        | 39°31'31.4059"N | 80°48'49.7122"W | 5710.32           | 350.944          | 0.95           | 0.65                  | -0.69                |          |
| 12830.00                     | 90.710          | 341.600     | 6897.98  | 5714.24        | 5722.55    | -928.85   | 1692894.28        | 14352356.39        | 39°31'32.2308"N | 80°48'50.0678"W | 5797.12           | 350.800          | 0.46           | 0.22                  | 0.41                 |          |
| 12919.00                     | 90.060          | 341.570     | 6897.38  | 5803.24        | 5806.99    | -954.96   | 1692866.19        | 14352440.79        | 39°31'33.0659"N | 80°48'50.4243"W | 5884.99           | 350.661          | 0.73           | -0.73                 | -0.03                |          |
| 13007.00                     | 90.990          | 341.750     | 6896.58  | 5891.23        | 5890.52    | -982.65   | 1692838.51        | 14352524.29        | 39°31'33.8920"N | 80°48'50.7755"W | 5971.91           | 350.529          | 1.08           | 1.06                  | 0.20                 |          |

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# Actual Wellpath Report

Vishnu Unit 2H AWP Proj: 23325'  
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| REFERENCE WELLPATH IDENTIFICATION |                              |
|-----------------------------------|------------------------------|
| Operator                          | ANTERO RESOURCES CORPORATION |
| Field                             | Tyler                        |
| Facility                          | Grand Pad                    |
| Slot                              | Slot #02                     |
| Well                              | Vishnu Unit 2H               |
| API                               | 47-095-02717-0000            |
| Wellbore                          | Vishnu Unit 2H AWB           |

| WELLPATH DATA (267 stations) |                 |             |          |                |            |           |                |                 |                 |                 |                   |                  |                |                       |                     |          |
|------------------------------|-----------------|-------------|----------|----------------|------------|-----------|----------------|-----------------|-----------------|-----------------|-------------------|------------------|----------------|-----------------------|---------------------|----------|
| MD (ft)                      | Inclination (°) | Azimuth (°) | TVD (ft) | Vert-Sect (ft) | North (ft) | East (ft) | Grid East (ft) | Grid North (ft) | Latitude        | Longitude       | Closure Dist (ft) | Closure Dir (ft) | DLS (ft/100ft) | Build Rate (ft/100ft) | Turn Rate (°/100ft) | Comments |
| 13096.00                     | 90.650          | 342.140     | 6895.30  | 5980.21        | 5975.12    | -1010.23  | 1692810.94     | 14352608.86     | 39°31'24.7288"N | 80°48'51.1252"W | 6059.92           | 350.404          | 0.58           | -0.38                 | 0.44                |          |
| 13184.00                     | 90.680          | 341.810     | 6894.28  | 6088.19        | 6058.75    | -1037.60  | 1692783.58     | 14352892.46     | 39°31'25.5559"N | 80°48'51.4723"W | 6146.96           | 350.282          | 0.80           | 0.03                  | -0.60               |          |
| 13272.00                     | 90.280          | 340.720     | 6893.54  | 6156.19        | 6142.04    | -1066.01  | 1692755.18     | 14352775.71     | 39°31'26.3795"N | 80°48'51.8326"W | 6233.86           | 350.154          | 1.11           | -0.45                 | -1.01               |          |
| 13361.00                     | 90.650          | 341.300     | 6892.82  | 6245.19        | 6226.19    | -1094.97  | 1692726.24     | 14352859.83     | 39°31'27.2118"N | 80°48'52.2000"W | 6321.74           | 350.026          | 0.77           | 0.42                  | 0.65                |          |
| 13449.00                     | 90.250          | 339.880     | 6892.13  | 6333.17        | 6309.13    | -1124.36  | 1692696.86     | 14352842.73     | 39°31'28.0322"N | 80°48'52.5728"W | 6408.53           | 349.895          | 1.90           | -0.45                 | -1.84               |          |
| 13537.00                     | 90.460          | 341.140     | 6891.58  | 6421.16        | 6392.03    | -1153.86  | 1692667.37     | 14353025.60     | 39°31'28.8521"N | 80°48'52.9472"W | 6495.34           | 349.767          | 1.68           | 0.24                  | 1.66                |          |
| 13626.00                     | 90.400          | 339.620     | 6890.92  | 6510.15        | 6475.86    | -1183.75  | 1692637.50     | 14353109.40     | 39°31'29.6812"N | 80°48'53.3263"W | 6583.16           | 349.641          | 1.71           | -0.07                 | -1.71               |          |
| 13714.00                     | 90.430          | 339.770     | 6890.28  | 6598.12        | 6558.39    | -1214.28  | 1692608.97     | 14353191.89     | 39°31'30.4975"N | 80°48'53.7138"W | 6669.85           | 349.511          | 0.17           | 0.03                  | 0.17                |          |
| 13803.00                     | 90.770          | 342.250     | 6889.35  | 6687.11        | 6642.53    | -1243.24  | 1692578.03     | 14353276.01     | 39°31'31.3297"N | 80°48'54.0811"W | 6757.88           | 349.399          | 2.81           | 0.38                  | 2.79                |          |
| 13891.00                     | 90.220          | 341.340     | 6888.59  | 6775.10        | 6726.13    | -1270.73  | 1692550.55     | 14353359.56     | 39°31'32.1564"N | 80°48'54.4298"W | 6845.11           | 349.302          | 1.21           | -0.63                 | -1.03               |          |
| 13980.00                     | 89.970          | 341.750     | 6888.44  | 6864.10        | 6810.55    | -1298.90  | 1692522.38     | 14353443.95     | 39°31'32.9914"N | 80°48'54.7871"W | 6933.30           | 349.202          | 0.54           | -0.28                 | 0.46                |          |
| 14069.00                     | 89.880          | 341.760     | 6888.56  | 6953.09        | 6895.07    | -1326.77  | 1692494.53     | 14353528.44     | 39°31'33.8273"N | 80°48'55.1405"W | 7021.56           | 349.108          | 0.10           | -0.10                 | 0.01                |          |
| 14157.00                     | 91.170          | 341.310     | 6887.75  | 7041.08        | 6978.54    | -1354.64  | 1692466.67     | 14353611.87     | 39°31'34.6528"N | 80°48'55.4940"W | 7108.80           | 349.015          | 1.55           | 1.47                  | -0.51               |          |
| 14245.00                     | 90.740          | 341.420     | 6886.28  | 7129.07        | 7061.91    | -1382.75  | 1692438.57     | 14353695.22     | 39°31'35.4774"N | 80°48'55.8506"W | 7196.01           | 348.921          | 0.50           | -0.49                 | 0.13                |          |
| 14334.00                     | 90.620          | 342.140     | 6885.23  | 7218.06        | 7146.44    | -1410.58  | 1692410.75     | 14353779.71     | 39°31'36.3134"N | 80°48'56.2035"W | 7284.32           | 348.834          | 0.82           | -0.13                 | 0.81                |          |
| 14422.00                     | 90.250          | 340.120     | 6884.56  | 7306.05        | 7229.71    | -1439.04  | 1692382.31     | 14353862.94     | 39°31'37.1369"N | 80°48'56.5645"W | 7371.53           | 348.743          | 2.33           | -0.42                 | -2.30               |          |
| 14511.00                     | 90.520          | 342.210     | 6883.96  | 7395.04        | 7313.93    | -1467.77  | 1692353.59     | 14353947.14     | 39°31'37.9699"N | 80°48'56.9289"W | 7459.76           | 348.653          | 2.37           | 0.30                  | 2.35                |          |
| 14599.00                     | 90.920          | 341.860     | 6882.85  | 7483.02        | 7397.64    | -1494.91  | 1692326.46     | 14354030.81     | 39°31'38.7977"N | 80°48'57.2731"W | 7547.17           | 348.576          | 0.80           | 0.45                  | -0.40               |          |
| 14688.00                     | 90.400          | 342.920     | 6881.83  | 7571.99        | 7482.46    | -1521.83  | 1692299.54     | 14354115.60     | 39°31'39.6366"N | 80°48'57.6145"W | 7635.65           | 348.504          | 1.33           | -0.58                 | 1.19                |          |
| 14776.00                     | 90.620          | 341.270     | 6881.05  | 7659.97        | 7566.19    | -1548.88  | 1692272.50     | 14354199.29     | 39°31'40.4647"N | 80°48'57.9575"W | 7723.10           | 348.431          | 1.89           | 0.25                  | -1.88               |          |
| 14864.00                     | 90.400          | 342.880     | 6880.26  | 7747.96        | 7649.87    | -1576.11  | 1692245.29     | 14354282.94     | 39°31'41.2922"N | 80°48'58.3028"W | 7810.54           | 348.358          | 1.62           | -0.25                 | 1.60                |          |
| 14953.00                     | 90.680          | 341.540     | 6879.42  | 7836.94        | 7734.56    | -1603.45  | 1692217.96     | 14354367.59     | 39°31'42.1298"N | 80°48'58.6495"W | 7899.02           | 348.288          | 1.32           | 0.31                  | -1.28               |          |
| 15041.00                     | 90.770          | 342.140     | 6878.31  | 7924.92        | 7818.17    | -1630.88  | 1692190.54     | 14354451.17     | 39°31'42.9687"N | 80°48'58.9973"W | 7986.46           | 348.217          | 0.89           | 0.10                  | 0.68                |          |
| 15130.00                     | 90.770          | 342.450     | 6877.11  | 8013.90        | 7902.94    | -1657.94  | 1692163.49     | 14354535.91     | 39°31'43.7951"N | 80°48'59.3405"W | 8074.98           | 348.152          | 0.35           | 0.00                  | 0.35                |          |
| 15218.00                     | 90.460          | 342.730     | 6876.17  | 8101.86        | 7986.91    | -1684.27  | 1692137.17     | 14354619.84     | 39°31'44.6255"N | 80°48'59.6743"W | 8162.56           | 348.092          | 0.47           | -0.35                 | 0.32                |          |
| 15306.00                     | 90.770          | 341.220     | 6875.23  | 8189.84        | 8070.58    | -1711.50  | 1692109.96     | 14354703.48     | 39°31'45.4530"N | 80°49'0.0196"W  | 8250.06           | 348.027          | 1.75           | 0.35                  | -1.72               |          |
| 15483.00                     | 90.580          | 340.930     | 6873.14  | 8366.83        | 8238.00    | -1768.90  | 1692052.58     | 14354870.84     | 39°31'47.1088"N | 80°49'0.7479"W  | 8425.77           | 347.881          | 0.20           | -0.11                 | -0.16               |          |
| 15572.00                     | 90.950          | 342.950     | 6871.95  | 8455.81        | 8322.60    | -1796.49  | 1692025.00     | 14354955.41     | 39°31'47.9455"N | 80°49'1.0977"W  | 8514.29           | 347.819          | 2.31           | 0.42                  | 2.27                |          |
| 15660.00                     | 90.520          | 342.400     | 6870.82  | 8543.77        | 8406.60    | -1822.69  | 1691998.81     | 14355039.37     | 39°31'48.7763"N | 80°49'1.4300"W  | 8601.93           | 347.767          | 0.79           | -0.49                 | -0.63               |          |
| 15749.00                     | 90.770          | 343.710     | 6869.92  | 8632.71        | 8491.73    | -1848.63  | 1691972.88     | 14355124.47     | 39°31'49.6181"N | 80°49'1.7588"W  | 8690.62           | 347.718          | 1.50           | 0.28                  | 1.47                |          |





# Actual Wellpath Report

Vishnu Unit 2H AWP Proj: 23325'  
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## REFERENCE WELLPATH IDENTIFICATION

|          |                              |          |                    |
|----------|------------------------------|----------|--------------------|
| Operator | ANTERO RESOURCES CORPORATION | Well     | Vishnu Unit 2H     |
| Field    | Tyler                        | API      | 47-095-02717-0000  |
| Facility | Grand Pad                    | Wellbore | Vishnu Unit 2H AWB |
| Slot     | Slot #02                     |          |                    |

## WELLPATH DATA (267 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 |
|----------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|-----------------|-----------------|-------------------|-----------------|---------------|----------------------|---------------------|----------|
| 15837.00 | 90.650          | 342.010     | 6868.73  | 8720.66        | 8575.82    | -1874.56  | 1691946.36        | 14355208.52        | 39°31'50.4497"N | 80°49'2.0875"W  | 8778.30           | 347.670         | 1.94          | -0.14                | -1.93               |          |
| 15925.00 | 90.120          | 341.670     | 6888.14  | 8808.95        | 8659.43    | -1901.98  | 1691919.54        | 14355292.10        | 39°31'51.2766"N | 80°49'2.4354"W  | 8865.85           | 347.612         | 0.72          | -0.60                | -0.39               |          |
| 16014.00 | 90.400          | 341.100     | 6867.74  | 8897.64        | 8743.77    | -1930.39  | 1691891.15        | 14355376.41        | 39°31'52.1108"N | 80°49'2.7958"W  | 8954.33           | 347.550         | 0.71          | 0.31                 | -0.64               |          |
| 16102.00 | 90.650          | 342.530     | 6866.93  | 8985.03        | 8827.37    | -1957.85  | 1691863.70        | 14355459.97        | 39°31'52.9375"N | 80°49'3.1441"W  | 9041.89           | 347.495         | 1.65          | 0.28                 | 1.62                |          |
| 16191.00 | 90.280          | 339.580     | 6866.21  | 9074.62        | 8911.54    | -1986.75  | 1691834.82        | 14355544.11        | 39°31'53.3770"N | 80°49'3.5106"W  | 9130.32           | 347.432         | 3.34          | -0.42                | -3.31               |          |
| 16279.00 | 91.050          | 339.680     | 6865.19  | 9162.58        | 8994.03    | -2017.37  | 1691804.20        | 14355626.56        | 39°31'54.5859"N | 80°49'3.8994"W  | 9217.50           | 347.358         | 0.88          | 0.87                 | 0.11                |          |
| 16368.00 | 90.550          | 340.290     | 6863.94  | 9251.56        | 9077.65    | -2047.83  | 1691773.75        | 14355710.15        | 39°31'55.4129"N | 80°49'4.2860"W  | 9305.76           | 347.287         | 0.89          | -0.56                | 0.69                |          |
| 16456.00 | 90.580          | 340.310     | 6863.07  | 9339.54        | 9160.49    | -2077.50  | 1691744.10        | 14355792.96        | 39°31'56.2322"N | 80°49'4.6624"W  | 9393.11           | 347.222         | 0.04          | 0.03                 | 0.02                |          |
| 16545.00 | 90.370          | 340.490     | 6862.34  | 9428.53        | 9244.33    | -2107.35  | 1691714.26        | 14355876.76        | 39°31'57.0615"N | 80°49'5.0413"W  | 9481.49           | 347.158         | 0.31          | -0.24                | 0.20                |          |
| 16633.00 | 89.570          | 340.900     | 6862.38  | 9516.53        | 9327.25    | -2136.81  | 1691684.81        | 14355959.65        | 39°31'57.8816"N | 80°49'5.4151"W  | 9568.89           | 347.097         | 0.92          | -0.91                | -0.11               |          |
| 16722.00 | 90.370          | 339.870     | 6862.43  | 9605.51        | 9410.95    | -2167.06  | 1691654.57        | 14356043.32        | 39°31'58.7094"N | 80°49'5.7991"W  | 9657.23           | 347.033         | 1.07          | 0.90                 | -0.58               |          |
| 16810.00 | 89.940          | 340.390     | 6862.19  | 9693.50        | 9493.71    | -2196.97  | 1691624.68        | 14356126.05        | 39°31'59.5280"N | 80°49'6.1787"W  | 9744.60           | 346.970         | 0.77          | -0.49                | 0.59                |          |
| 16899.00 | 90.030          | 339.980     | 6862.21  | 9782.49        | 9577.44    | -2227.14  | 1691594.52        | 14356208.74        | 39°32'0.3561"N  | 80°49'6.5615"W  | 9832.98           | 346.909         | 0.47          | 0.10                 | -0.46               |          |
| 16987.00 | 90.090          | 339.160     | 6862.12  | 9870.46        | 9659.91    | -2257.86  | 1691563.81        | 14356292.17        | 39°32'1.1717"N  | 80°49'6.9515"W  | 9920.27           | 346.844         | 0.93          | 0.07                 | -0.93               |          |
| 17076.00 | 90.770          | 339.690     | 6861.45  | 9959.41        | 9743.23    | -2289.13  | 1691532.55        | 14356375.46        | 39°32'1.9958"N  | 80°49'7.3485"W  | 10008.53          | 346.778         | 0.97          | 0.76                 | 0.60                |          |
| 17164.00 | 90.460          | 339.960     | 6860.51  | 10047.39       | 9825.82    | -2319.48  | 1691502.21        | 14356458.02        | 39°32'2.8127"N  | 80°49'7.7337"W  | 10095.88          | 346.718         | 0.47          | -0.35                | 0.31                |          |
| 17252.00 | 90.580          | 339.850     | 6859.71  | 10135.36       | 9908.46    | -2349.72  | 1691471.99        | 14356540.63        | 39°32'3.6301"N  | 80°49'8.1175"W  | 10183.26          | 346.659         | 0.18          | 0.14                 | -0.12               |          |
| 17341.00 | 90.710          | 340.330     | 6858.71  | 10224.34       | 9992.14    | -2380.02  | 1691441.70        | 14356624.27        | 39°32'4.4577"N  | 80°49'8.5021"W  | 10271.67          | 346.602         | 0.56          | 0.15                 | 0.54                |          |
| 17429.00 | 90.030          | 341.770     | 6858.14  | 10312.34       | 10075.36   | -2408.60  | 1691413.13        | 14356707.47        | 39°32'5.2808"N  | 80°49'8.8647"W  | 10359.26          | 346.555         | 1.81          | -0.77                | 1.64                |          |
| 17518.00 | 90.580          | 340.810     | 6857.67  | 10401.34       | 10159.66   | -2437.15  | 1691384.60        | 14356791.73        | 39°32'6.1145"N  | 80°49'9.2269"W  | 10447.89          | 346.511         | 1.24          | 0.62                 | -1.08               |          |
| 17606.00 | 90.280          | 340.440     | 6857.01  | 10489.33       | 10242.67   | -2466.34  | 1691355.41        | 14356874.71        | 39°32'6.9355"N  | 80°49'9.5974"W  | 10535.42          | 346.461         | 0.54          | -0.34                | -0.42               |          |
| 17695.00 | 90.890          | 341.050     | 6856.10  | 10578.32       | 10326.69   | -2495.69  | 1691326.08        | 14356958.69        | 39°32'7.7664"N  | 80°49'9.9698"W  | 10623.98          | 346.414         | 0.97          | 0.69                 | 0.69                |          |
| 17783.00 | 90.680          | 340.780     | 6854.89  | 10666.31       | 10409.84   | -2524.46  | 1691297.32        | 14357041.81        | 39°32'8.5888"N  | 80°49'10.3349"W | 10711.57          | 346.369         | 0.39          | -0.24                | -0.31               |          |
| 17872.00 | 90.180          | 341.340     | 6854.22  | 10755.31       | 10494.02   | -2553.34  | 1691268.44        | 14357125.96        | 39°32'9.4214"N  | 80°49'10.7014"W | 10800.19          | 346.325         | 0.84          | -0.56                | 0.63                |          |
| 17960.00 | 90.280          | 341.220     | 6853.87  | 10843.31       | 10577.36   | -2581.59  | 1691240.21        | 14357209.27        | 39°32'10.2456"N | 80°49'11.0597"W | 10887.85          | 346.284         | 0.18          | 0.11                 | -0.14               |          |
| 18049.00 | 90.460          | 340.620     | 6853.30  | 10932.31       | 10661.47   | -2610.68  | 1691211.13        | 14357293.34        | 39°32'11.0775"N | 80°49'11.4289"W | 10976.46          | 346.241         | 0.70          | 0.20                 | -0.67               |          |
| 18137.00 | 90.370          | 341.450     | 6852.68  | 11020.30       | 10744.69   | -2639.28  | 1691182.54        | 14357376.53        | 39°32'11.9005"N | 80°49'11.7918"W | 11064.10          | 346.199         | 0.95          | -0.10                | 0.94                |          |
| 18226.00 | 90.340          | 341.160     | 6852.11  | 11109.30       | 10829.00   | -2667.80  | 1691154.03        | 14357460.80        | 39°32'12.7343"N | 80°49'12.1537"W | 11152.77          | 346.160         | 0.33          | -0.03                | -0.33               |          |
| 18314.00 | 90.310          | 341.070     | 6851.61  | 11197.30       | 10912.26   | -2696.29  | 1691125.56        | 14357544.03        | 39°32'13.5577"N | 80°49'12.5151"W | 11240.43          | 346.121         | 0.11          | -0.03                | -0.10               |          |
| 18403.00 | 90.310          | 341.010     | 6851.13  | 11286.30       | 10996.43   | -2725.20  | 1691096.65        | 14357628.16        | 39°32'14.3902"N | 80°49'12.8821"W | 11329.08          | 346.081         | 0.07          | 0.00                 | -0.07               |          |

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# Actual Wellpath Report

Vishnu Unit 2H AWP Proj: 23325'  
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| REFERENCE WELLPATH IDENTIFICATION |                              |
|-----------------------------------|------------------------------|
| Operator                          | ANTERO RESOURCES CORPORATION |
| Field                             | Tyler                        |
| Well                              | Vishnu Unit 2H               |
| API                               | 47-095-02717-0000            |
| Facility                          | Grand Pad                    |
| Wellbore                          | Vishnu Unit 2H AWB           |
| Slot                              | Slot #02                     |

| WELLPATH DATA (267 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 |
| 18491.00                     | 90.400          | 341.110     | 6850.58  | 11374.30       | 11079.66   | -2753.77  | 1691068.10        | 1435771.36         | 39°32'15.2134"N | 80°49'13.2445"W | 11416.75          | 346.042         | 0.15          | 0.10                 | 0.11                |          |
| 18580.00                     | 90.710          | 341.800     | 6849.72  | 11463.29       | 11164.04   | -2782.07  | 1691039.81        | 14357795.70        | 39°32'16.0478"N | 80°49'13.6036"W | 11505.46          | 346.007         | 0.85          | 0.35                 | 0.78                |          |
| 18668.00                     | 90.370          | 340.880     | 6848.89  | 11551.29       | 11247.40   | -2810.22  | 1691011.67        | 14357879.04        | 39°32'16.8723"N | 80°49'13.9609"W | 11593.16          | 345.972         | 1.11          | -0.39                | -1.05               |          |
| 18757.00                     | 90.800          | 340.890     | 6847.98  | 11640.28       | 11331.49   | -2839.37  | 1690982.53        | 14357963.09        | 39°32'17.7040"N | 80°49'14.3307"W | 11681.81          | 345.933         | 0.48          | 0.48                 | 0.01                |          |
| 18845.00                     | 89.940          | 341.250     | 6847.41  | 11728.28       | 11414.73   | -2867.91  | 1690954.00        | 14358046.30        | 39°32'18.5272"N | 80°49'14.6930"W | 11769.50          | 345.897         | 1.06          | -0.98                | 0.41                |          |
| 18934.00                     | 90.280          | 341.140     | 6847.24  | 11817.28       | 11498.98   | -2896.60  | 1690925.32        | 14358130.51        | 39°32'19.3604"N | 80°49'15.0570"W | 11858.20          | 345.861         | 0.40          | 0.38                 | -0.12               |          |
| 19022.00                     | 90.000          | 340.330     | 6847.03  | 11905.27       | 11582.05   | -2925.64  | 1690896.36        | 14358213.55        | 39°32'20.1820"N | 80°49'15.4255"W | 11945.85          | 345.824         | 0.97          | -0.32                | -0.92               |          |
| 19111.00                     | 90.490          | 341.300     | 6846.65  | 11994.27       | 11666.11   | -2954.88  | 1690867.06        | 14358297.57        | 39°32'21.0133"N | 80°49'15.7986"W | 12034.51          | 345.787         | 1.22          | 0.55                 | 1.09                |          |
| 19199.00                     | 90.430          | 340.880     | 6845.94  | 12082.27       | 11749.35   | -2983.40  | 1690838.56        | 14358380.79        | 39°32'21.8367"N | 80°49'16.1585"W | 12122.21          | 345.753         | 0.48          | -0.07                | -0.48               |          |
| 19288.00                     | 90.490          | 341.150     | 6845.23  | 12171.26       | 11833.51   | -3012.13  | 1690809.62        | 14358464.91        | 39°32'22.6690"N | 80°49'16.5259"W | 12210.91          | 345.718         | 0.31          | 0.07                 | 0.30                |          |
| 19376.00                     | 90.340          | 341.510     | 6843.83  | 12348.26       | 12000.87   | -3068.96  | 1690752.03        | 14358548.04        | 39°32'23.4914"N | 80°49'16.8911"W | 12298.60          | 345.684         | 0.53          | 0.00                 | -0.53               |          |
| 19465.00                     | 90.340          | 341.510     | 6843.83  | 12348.26       | 12000.87   | -3068.96  | 1690752.03        | 14358548.04        | 39°32'23.4914"N | 80°49'16.8911"W | 12298.60          | 345.684         | 0.53          | 0.00                 | -0.53               |          |
| 19553.00                     | 89.910          | 341.160     | 6843.64  | 12436.26       | 12084.24   | -3098.13  | 1690723.88        | 14358715.54        | 39°32'25.1487"N | 80°49'17.6144"W | 12475.06          | 345.620         | 0.63          | -0.49                | -0.40               |          |
| 19642.00                     | 90.770          | 340.890     | 6843.11  | 12525.25       | 12168.40   | -3127.06  | 1690694.95        | 14358799.67        | 39°32'25.9810"N | 80°49'17.9816"W | 12563.78          | 345.588         | 1.01          | 0.97                 | -0.30               |          |
| 19730.00                     | 90.800          | 341.530     | 6841.90  | 12613.24       | 12251.70   | -3155.41  | 1690666.62        | 14358882.94        | 39°32'26.8049"N | 80°49'18.3413"W | 12651.51          | 345.557         | 0.73          | 0.03                 | 0.73                |          |
| 19819.00                     | 90.430          | 340.900     | 6840.95  | 12702.24       | 12335.95   | -3184.06  | 1690637.98        | 14358967.16        | 39°32'27.6381"N | 80°49'18.7049"W | 12740.25          | 345.527         | 0.82          | -0.42                | -0.71               |          |
| 19907.00                     | 90.060          | 340.910     | 6840.57  | 12790.24       | 12419.11   | -3212.85  | 1690609.20        | 14359050.28        | 39°32'28.4606"N | 80°49'19.0703"W | 12827.97          | 345.495         | 0.42          | -0.42                | 0.01                |          |
| 19996.00                     | 90.030          | 340.240     | 6840.50  | 12879.23       | 12503.04   | -3242.45  | 1690579.61        | 14359134.18        | 39°32'29.2907"N | 80°49'19.4460"W | 12916.64          | 345.462         | 0.75          | -0.03                | -0.75               |          |
| 20084.00                     | 89.970          | 340.500     | 6840.50  | 12967.23       | 12585.93   | -3272.01  | 1690550.06        | 14359217.03        | 39°32'30.1104"N | 80°49'19.8212"W | 13004.30          | 345.427         | 0.30          | -0.07                | 0.30                |          |
| 20173.00                     | 90.490          | 340.090     | 6840.14  | 13056.22       | 12669.72   | -3302.02  | 1690520.07        | 14359300.79        | 39°32'30.9391"N | 80°49'20.2022"W | 13092.94          | 345.392         | 0.74          | 0.58                 | -0.46               |          |
| 20261.00                     | 90.620          | 340.950     | 6839.29  | 13144.21       | 12752.68   | -3331.37  | 1690490.73        | 14359383.71        | 39°32'31.7596"N | 80°49'20.5746"W | 13180.62          | 345.360         | 0.99          | 0.15                 | 0.98                |          |
| 20349.00                     | 90.550          | 340.830     | 6838.39  | 13232.20       | 12835.82   | -3360.17  | 1690461.94        | 14359466.82        | 39°32'32.5819"N | 80°49'20.9403"W | 13268.35          | 345.330         | 0.16          | -0.08                | -0.14               |          |
| 20438.00                     | 90.520          | 341.120     | 6837.56  | 13321.20       | 12919.96   | -3389.18  | 1690432.94        | 14359550.92        | 39°32'33.4140"N | 80°49'21.3084"W | 13357.09          | 345.301         | 0.33          | -0.03                | 0.33                |          |
| 20526.00                     | 90.220          | 341.270     | 6836.99  | 13409.20       | 13003.26   | -3417.55  | 1690404.58        | 14359634.19        | 39°32'34.2378"N | 80°49'21.6694"W | 13444.86          | 345.274         | 0.38          | -0.34                | 0.17                |          |
| 20615.00                     | 90.120          | 340.160     | 6836.73  | 13498.19       | 13087.25   | -3446.94  | 1690375.20        | 14359718.16        | 39°32'35.0686"N | 80°49'22.0415"W | 13533.58          | 345.244         | 1.25          | -0.11                | -1.25               |          |
| 20703.00                     | 90.650          | 340.610     | 6836.18  | 13586.18       | 13170.15   | -3476.48  | 1690345.67        | 14359801.02        | 39°32'35.8884"N | 80°49'22.4165"W | 13621.26          | 345.213         | 0.79          | 0.60                 | 0.51                |          |
| 20791.00                     | 90.280          | 340.890     | 6835.42  | 13674.18       | 13253.23   | -3505.50  | 1690316.67        | 14359884.06        | 39°32'36.7101"N | 80°49'22.7847"W | 13709.00          | 345.184         | 0.53          | -0.42                | 0.32                |          |
| 20880.00                     | 90.120          | 340.780     | 6835.11  | 13763.18       | 13337.18   | -3534.71  | 1690287.47        | 14359968.10        | 39°32'37.5415"N | 80°49'23.1556"W | 13797.74          | 345.156         | 0.22          | -0.18                | -0.12               |          |
| 20968.00                     | 90.180          | 341.080     | 6834.88  | 13851.17       | 13420.47   | -3563.47  | 1690258.73        | 14360051.23        | 39°32'38.3640"N | 80°49'23.5205"W | 13885.50          | 345.130         | 0.35          | 0.07                 | 0.34                |          |
| 21057.00                     | 90.250          | 341.100     | 6834.55  | 13940.17       | 13504.66   | -3592.31  | 1690229.89        | 14360135.40        | 39°32'39.1967"N | 80°49'23.8866"W | 13974.28          | 345.104         | 0.08          | 0.08                 | 0.02                |          |



# Actual Wellpath Report

Vishnu Unit 2H AWP Proj: 23325'  
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| REFERENCE WELL PATH IDENTIFICATION |                              |
|------------------------------------|------------------------------|
| Operator                           | ANTERO RESOURCES CORPORATION |
| Field                              | Tyler                        |
| Facility                           | Grand Pad                    |
| Slot                               | Slot #02                     |
| Well                               | Vishnu Unit 2H               |
| API                                | 47-095-02717-0000            |
| Wellbore                           | Vishnu Unit 2H AWB           |

| WELLPATH DATA (267 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 (F/100ft) | Build Rate (F/100ft) | Turn Rate (°/100ft) | Comments                   |
| 21145.00  | 90.220          | 340.520     | 6834.19  | 14028.17       | 13587.77   | -3621.23  | 1690200.98        | 14360218.47        | 39°32'40.018"N | 80°49'24.253"W | 14062.04          | 345.077         | 0.56          | -0.03                | -0.66               |                            |
| 21234.00  | 90.550          | 340.170     | 6833.59  | 14117.16       | 13671.56   | -3651.17  | 1690171.06        | 14360302.25        | 39°32'40.847"N | 80°49'24.633"W | 14150.73          | 345.047         | 0.54          | 0.37                 | -0.39               |                            |
| 21322.00  | 90.650          | 340.730     | 6832.67  | 14205.15       | 13754.51   | -3680.61  | 1690141.62        | 14360385.14        | 39°32'41.667"N | 80°49'25.007"W | 14238.45          | 345.019         | 0.65          | 0.11                 | 0.64                |                            |
| 21410.00  | 90.000          | 340.850     | 6832.17  | 14293.15       | 13837.60   | -3709.57  | 1690112.68        | 14360468.21        | 39°32'42.489"N | 80°49'25.375"W | 14326.21          | 344.993         | 0.75          | -0.74                | 0.14                |                            |
| 21499.00  | 90.120          | 340.390     | 6832.08  | 14382.14       | 13921.56   | -3739.10  | 1690083.16        | 14360552.13        | 39°32'43.319"N | 80°49'25.749"W | 14414.95          | 344.966         | 0.53          | 0.13                 | -0.52               |                            |
| 21587.00  | 90.180          | 340.530     | 6831.85  | 14470.14       | 14004.49   | -3768.53  | 1690053.74        | 14360635.03        | 39°32'44.140"N | 80°49'26.123"W | 14502.68          | 344.939         | 0.17          | 0.07                 | 0.16                |                            |
| 21676.00  | 90.490          | 341.910     | 6831.33  | 14559.13       | 14088.75   | -3797.19  | 1690025.10        | 14360719.25        | 39°32'44.973"N | 80°49'26.487"W | 14591.49          | 344.916         | 1.59          | 0.35                 | 1.55                |                            |
| 21764.00  | 90.650          | 341.800     | 6830.45  | 14647.12       | 14172.37   | -3824.59  | 1689997.71        | 14360802.84        | 39°32'45.800"N | 80°49'26.834"W | 14679.36          | 344.898         | 0.22          | 0.18                 | -0.13               |                            |
| 21853.00  | 90.260          | 342.020     | 6829.75  | 14736.11       | 14256.97   | -3852.22  | 1689970.08        | 14360887.40        | 39°32'46.637"N | 80°49'27.156"W | 14768.23          | 344.880         | 0.51          | -0.45                | 0.25                |                            |
| 21941.00  | 90.460          | 341.870     | 6829.21  | 14824.10       | 14340.63   | -3879.50  | 1689942.82        | 14360971.03        | 39°32'47.464"N | 80°49'27.516"W | 14856.12          | 344.862         | 0.29          | 0.24                 | -0.17               |                            |
| 22030.00  | 90.430          | 341.960     | 6828.52  | 14913.09       | 14425.23   | -3907.12  | 1689915.20        | 14361055.60        | 39°32'48.301"N | 80°49'27.882"W | 14945.00          | 344.845         | 0.11          | -0.03                | 0.10                |                            |
| 22118.00  | 90.430          | 341.890     | 6827.85  | 15001.08       | 14508.89   | -3934.43  | 1689887.91        | 14361139.22        | 39°32'49.128"N | 80°49'28.228"W | 15032.88          | 344.828         | 0.08          | 0.00                 | -0.08               |                            |
| 22207.00  | 90.800          | 341.610     | 6826.90  | 15090.06       | 14593.41   | -3962.30  | 1689860.05        | 14361223.11        | 39°32'49.964"N | 80°49'28.583"W | 15121.75          | 344.810         | 0.52          | 0.42                 | -0.31               |                            |
| 22295.00  | 90.830          | 341.340     | 6825.65  | 15178.05       | 14676.84   | -3990.25  | 1689832.11        | 14361307.11        | 39°32'50.789"N | 80°49'28.937"W | 15209.59          | 344.790         | 0.31          | 0.03                 | -0.31               |                            |
| 22384.00  | 90.710          | 341.760     | 6824.45  | 15267.04       | 14761.26   | -4018.42  | 1689803.96        | 14361391.49        | 39°32'51.624"N | 80°49'29.294"W | 15298.44          | 344.772         | 0.49          | -0.13                | 0.47                |                            |
| 22472.00  | 90.620          | 341.670     | 6823.43  | 15355.03       | 14844.81   | -4046.02  | 1689776.36        | 14361475.01        | 39°32'52.450"N | 80°49'28.644"W | 15386.31          | 344.754         | 0.14          | -0.10                | -0.10               |                            |
| 22561.00  | 90.550          | 342.240     | 6822.52  | 15444.02       | 14929.42   | -4073.59  | 1689748.80        | 14361559.59        | 39°32'53.287"N | 80°49'29.994"W | 15475.20          | 344.738         | 0.65          | -0.08                | 0.64                |                            |
| 22649.00  | 90.520          | 342.090     | 6821.70  | 15532.00       | 15013.19   | -4100.54  | 1689721.86        | 14361643.33        | 39°32'54.115"N | 80°49'30.336"W | 15563.11          | 344.723         | 0.17          | -0.03                | -0.17               |                            |
| 22738.00  | 90.490          | 341.730     | 6820.92  | 15620.99       | 15097.79   | -4128.18  | 1689694.24        | 14361727.89        | 39°32'54.952"N | 80°49'30.687"W | 15652.00          | 344.707         | 0.41          | -0.03                | -0.40               |                            |
| 22826.00  | 90.560          | 341.600     | 6820.12  | 15708.98       | 15181.32   | -4155.86  | 1689666.57        | 14361811.38        | 39°32'55.778"N | 80°49'31.038"W | 15739.87          | 344.690         | 0.16          | 0.07                 | -0.15               |                            |
| 22914.00  | 90.650          | 341.880     | 6819.20  | 15796.97       | 15264.88   | -4183.43  | 1689639.01        | 14361894.92        | 39°32'56.604"N | 80°49'31.386"W | 15827.75          | 344.674         | 0.34          | 0.11                 | 0.32                |                            |
| 23003.00  | 90.650          | 342.030     | 6818.19  | 15885.95       | 15349.50   | -4211.00  | 1689611.45        | 14361979.50        | 39°32'57.441"N | 80°49'31.738"W | 15916.65          | 344.659         | 0.17          | 0.00                 | 0.17                |                            |
| 23091.00  | 90.650          | 341.480     | 6817.19  | 15973.94       | 15433.07   | -4238.55  | 1689583.91        | 14362063.04        | 39°32'58.268"N | 80°49'32.088"W | 16004.53          | 344.643         | 0.62          | 0.00                 | -0.63               |                            |
| 23180.00  | 90.550          | 341.800     | 6816.26  | 16052.93       | 15517.53   | -4266.58  | 1689555.89        | 14362147.47        | 39°32'59.103"N | 80°49'32.443"W | 16093.40          | 344.626         | 0.38          | -0.11                | 0.36                |                            |
| 23268.00  | 90.400          | 341.890     | 6815.53  | 16150.92       | 15601.10   | -4294.14  | 1689528.34        | 14362231.00        | 39°32'59.929"N | 80°49'32.793"W | 16181.29          | 344.611         | 0.21          | -0.17                | -0.12               |                            |
| 23300.00  | 90.580          | 341.820     | 6815.25  | 16182.92       | 15683.49   | -4304.16  | 1689518.33        | 14362281.38        | 39°33'00.230"N | 80°49'33.920"W | 16273.25          | 344.605         | 0.69          | 0.56                 | 0.41                |                            |
| 23325.00†   | 90.580          | 341.820     | 6815.00  | 16207.92       | 15655.24   | -4311.96  | 1689510.53        | 14362285.12        | 39°33'00.465"N | 80°49'33.019"W | 16238.22          | 344.601         | 0.00          | 0.00                 | 0.00                | Projected MD at TD: 23325' |

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# Actual Wellpath Report

Vishnu Unit 2H AWP Proj: 23325'  
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| REFERENCE WELLPATH IDENTIFICATION |                              |
|-----------------------------------|------------------------------|
| Operator                          | ANTERO RESOURCES CORPORATION |
| Field                             | Tyler                        |
| Facility                          | Grand Pad                    |
| Slot                              | Slot #02                     |
| Well                              | Vishnu Unit 2H               |
| API                               | 47-095-02717-0000            |
| Wellbore                          | Vishnu Unit 2H AWB           |

| HOLE & CASING SECTIONS - Ref Wellbores: Vishnu Unit 2H AWB Ref Wellpath: Vishnu Unit 2H AWP Proj: 23325' |               |             |               |                |              |                |                |              |              |
|--|---------------|-------------|---------------|----------------|--------------|----------------|----------------|--------------|--------------|
| 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          | 105.50       | 0.00           | 0.00           | -0.25        | 0.12         |
| 17.5in Open Hole   | 105.50        | 404.00      | 298.50        | 105.50         | 403.99       | -0.25          | 0.12           | -1.50        | 0.99         |
| 13.375in Casing Surface  | 25.50         | 384.20      | 358.70        | 25.50          | 384.20       | 0.00           | 0.00           | -1.44        | 0.82         |
| 12.25in Open Hole  | 404.00        | 2615.00     | 2211.00       | 403.99         | 2612.55      | -1.50          | 0.99           | 1.89         | 56.24        |
| 9.625in Casing Intermediate  | 25.50         | 2594.80     | 2569.30       | 25.50          | 2592.36      | 0.00           | 0.00           | 2.16         | 56.25        |
| 8.75in Open Hole   | 2615.00       | 6518.00     | 3903.00       | 2612.55        | 6381.51      | 1.89           | 56.24          | -49.38       | 1004.54      |
| 8.5in Open Hole  | 6518.00       | 23325.00    | 16807.00      | 6381.51        | 6815.00      | -49.38         | 1004.54        | 15655.24     | -4311.96     |
| 5.5in Casing Production  | 25.50         | 23325.00    | 23299.50      | 25.50          | 6815.00      | 0.00           | 0.00           | 15655.24     | -4311.96     |

| TARGETS                          |          |            |           |                   |                    |                 |                 |           |
|----------------------------------|----------|------------|-----------|-------------------|--------------------|-----------------|-----------------|-----------|
| Name                             | TVD [ft] | North [ft] | East [ft] | Grid East [US ft] | Grid North [US ft] | Latitude        | Longitude       | Shape     |
| Vishnu Unit 2H POE Rev-2         | 6846.00  | 428.66     | 894.51    | 1694714.93        | 14347064.61        | 39°30'29.8719"N | 80°48'26.9700"W | point     |
| Vishnu Unit 2H BHL Rev-2         | 6872.00  | 15641.11   | -4313.84  | 1689508.65        | 14362270.99        | 39°33'0.3257"N  | 80°49'33.0440"W | point     |
| Vishnu Unit 2H LP Rev-2          | 6872.00  | 609.58     | 832.57    | 1694653.01        | 14347245.45        | 39°30'31.6612"N | 80°48'27.7553"W | point     |
| Vishnu Unit 2H 50' L/R Hard Line | 7000.00  | 8034.89    | -1709.66  | 1692111.79        | 14354667.80        | 39°31'45.1002"N | 80°48'59.9972"W | rectangle |

2D Rectangle 16079.4 x 100.

### REFERENCE WELLPATH IDENTIFICATION

|          |                              |          |                    |
|----------|------------------------------|----------|--------------------|
| Operator | ANTERO RESOURCES CORPORATION | Well     | Vishnu Unit 2H     |
| Field    | Tyler                        | API      | 47-095-02717-0000  |
| Facility | Grand Pad                    | Wellbore | Vishnu Unit 2H AWB |
| Slot     | Slot #02                     |          |                    |

### WELLPATH COMPOSITION - Ref Wellbore: Vishnu Unit 2H AWB

Positional Uncertainty Model

| Start MD (ft) | End MD (ft) | Log Name/Comment                                     | Wellbore           | Survey Date |
|---------------|-------------|--|--------------------|-------------|
| 25.50         | 373.00      | Gyrodatta 2015 - GC+WIR+DPIPE                        |                    |             |
| 373.00        | 2538.00     | BH NaviTrak (2019) (Axial Corr+HRGM)                 | Vishnu Unit 2H AWB | 10/Mar/2021 |
| 2538.00       | 6451.00     | BH NaviTrak (2019) (Axial Corr+HRGM)                 | Vishnu Unit 2H AWB | 10/Mar/2021 |
| 6451.00       | 23325.00    | BH AutoTrak CurveXpress (2019) (HRGM, Short spacing) | Vishnu Unit 2H AWB | 09/Apr/2021 |
|               |             | 01_Gyrodatta MS Gyro <17-1/2"> (100-373')            |                    |             |
|               |             | 02_APS EM <12-1/4"> (373')(779'-2538')               |                    |             |
|               |             | 03_APS EM <8-3/4"> (2538')(2639-6451')               |                    |             |
|               |             | 04_BH AT Curve <8-1/2"> (6451')(6494'-23300')        |                    |             |

### WELLPATH COMPOSITION - Ref Wellbore: Vishnu Unit 2H AWP Proj: 23325'

| Start MD (ft) | End MD (ft) | Log Name/Comment                                     | Wellbore           | Survey Date |
|---------------|-------------|--|--------------------|-------------|
| 25.50         | 373.00      | Gyrodatta 2015 - GC+WIR+DPIPE                        |                    |             |
| 373.00        | 2538.00     | BH NaviTrak (2019) (Axial Corr+HRGM)                 | Vishnu Unit 2H AWB | 10/Mar/2021 |
| 2538.00       | 6451.00     | BH NaviTrak (2019) (Axial Corr+HRGM)                 | Vishnu Unit 2H AWB | 10/Mar/2021 |
| 6451.00       | 23325.00    | BH AutoTrak CurveXpress (2019) (HRGM, Short spacing) | Vishnu Unit 2H AWB | 09/Apr/2021 |

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# Actual Wellpath Report

Vishnu Unit 2H AWP Proj: 23325'  
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| REFERENCE WELLPATH IDENTIFICATION |                              |          |                    |
|-----------------------------------|------------------------------|----------|--------------------|
| Operator                          | ANTERO RESOURCES CORPORATION | Well     | Vishnu Unit 2H     |
| Field                             | Tyler                        | API      | 47-095-02717-0000  |
| Facility                          | Grand Pad                    | Wellbore | Vishnu Unit 2H AWB |
| Slot                              | Slot #02                     |          |                    |

## COMMENTS

Wellpath general comments  
 API: 47-095-02717-0000  
 BH Job #: 110784951  
 Rig: H&P 317  
 Duration: 4/14/2021-4/19/2021  
 Gyrodatta MS Gyro <17-1/2"> (100'-373')  
 APS EM <12-1/4"> (373')(779'-2538')  
 APS EM <8-3/4"> (2538')(2639'-6451')  
 BH AT Curve <8-1/2"> (6451')(6494'-23300')  
 Sycamore: 6701' MD  
 Middlesex: 6847' MD  
 Burkett: 7007' MD  
 Tully: 7067' MD  
 Marcellus POE: 7214' MD  
 Projected MD at TD: 23325'