



# ANTERO RESOURCES CORPORATION

Area: Harrison County, WV  
Field: Harrison  
Facility: Flanigan Pad  
Slot: Slot C

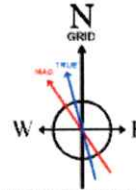
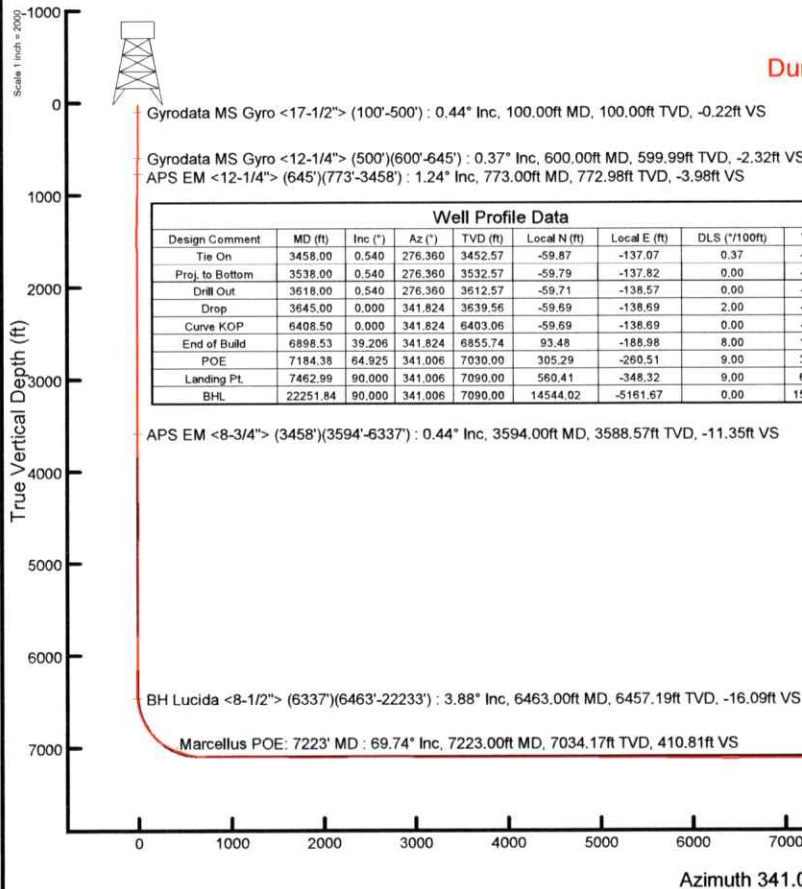
Well: Bream Unit 1H  
UWI: 47-033-06119-0000  
Wellbore: Bream Unit 1H PWB  
Wellpath: Bream Unit 1H PWP Rev-B.0



|                                                                    |                                                                    |
|--------------------------------------------------------------------|--------------------------------------------------------------------|
| Plot reference wellpath is Bream Unit 1H PWP Rev-B.0               | Grid System: NAD83 / UTM Zone 17 North, US feet                    |
| True vertical depths are referenced to H&P 317 (RKB)               | North Reference: Grid north                                        |
| Reference wellpath measured depths are referenced to H&P 317 (RKB) | Scale: True distance                                               |
| H&P 317 (RKB) to Mean Sea Level: 1179.5 feet                       | Coordinates are in feet referenced to Slot                         |
| Mean Sea Level to Ground level (At Slot: Slot C): -1154 feet       | Depths are in feet                                                 |
| Offset wellpath MDs are referenced to each path's default MD datum | Created by: edbayer on 2025-12-20, Database: WA_MPL_EASTERNUS_Dein |

| Location Information                                      |                   |                    |                   |                    |                |
|-----------------------------------------------------------|-------------------|--------------------|-------------------|--------------------|----------------|
| Facility Name                                             | Grid East (US ft) | Grid North (US ft) | Latitude          | Longitude          |                |
| Flanigan Pad                                              | 1811301.720       | 14288436.770       | 39°20'45.1145N    | 80°23'43.9918W     |                |
| Slot                                                      | Local N (ft)      | Local E (ft)       | Grid East (US ft) | Grid North (US ft) | Latitude       |
| Slot C                                                    | 17.53             | -24.34             | 1811277.390       | 14288454.290       | 39°20'45.2894N |
| Comment: Bream Unit 1H                                    |                   |                    |                   |                    |                |
| H&P 317 (RKB) to Ground level (At Slot: Slot C): 25.5ft   |                   |                    |                   |                    |                |
| Mean Sea Level to Ground level (At Slot: Slot C): -1154ft |                   |                    |                   |                    |                |
| H&P 317 (RKB) to Mean Sea Level: 1179.5ft                 |                   |                    |                   |                    |                |

| Well Data |               |                   |                                |
|-----------|---------------|-------------------|--------------------------------|
| Slot      | Well          | Wellbore          | Wellpath                       |
| Slot C    | Bream Unit 1H | Bream Unit 1H AWB | Bream Unit 1H AWP Proj: 22258' |
| Slot C    | Bream Unit 1H | Bream Unit 1H PWB | Bream Unit 1H PWP Rev-B.0      |



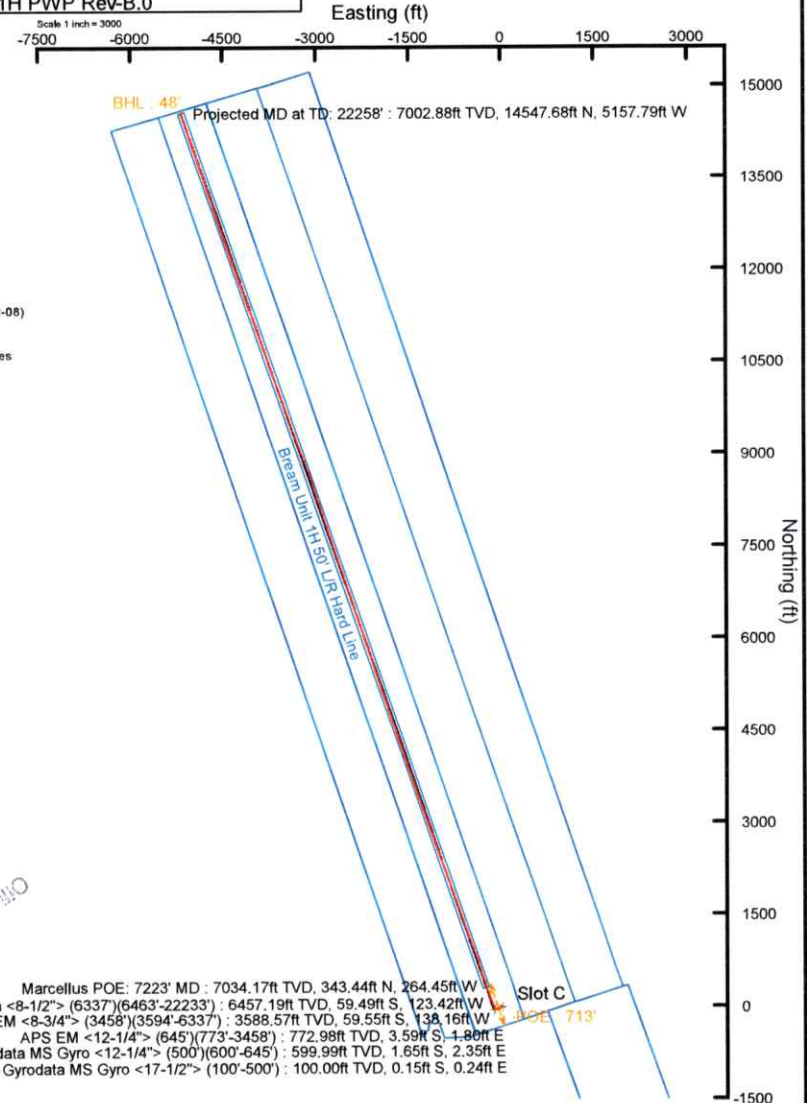
User specified (HDGM) Dip: 65.75° Field: 51431.2 nT  
Magnetic North is 9.10 degrees West of True North (at 2025-12-08)  
Grid North is 0.38 degrees East of True North  
To correct azimuth from True to Grid subtract 0.38 degrees  
To correct azimuth from Magnetic to Grid subtract 9.48 degrees

API: 47-033-06119-0000  
BH Job #: 112874826  
Rig: H&P 317  
Duration: 12/11/2025-12/15/2025

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Marcellus POE: 7223' MD : 7034.17ft TVD, 343.44ft N, 264.45ft W  
BH Lucida <8-1/2> (6337')(6463'-22233') : 6457.19ft TVD, 59.49ft S, 123.42ft W  
APS EM <8-3/4> (3458')(3594'-6337') : 3588.57ft TVD, 59.55ft S, 138.16ft W  
APS EM <12-1/4> (645')(773'-3458') : 772.98ft TVD, 3.59ft S, 1.80ft E  
Gyrodata MS Gyro <12-1/4> (500')(600'-645') : 599.99ft TVD, 1.65ft S, 2.35ft E  
Gyrodata MS Gyro <17-1/2> (100'-500') : 100.00ft TVD, 0.15ft S, 0.24ft E

Projected MD at TD: 22258' : 89.11° Inc, 22258.00ft MD, 7002.88ft TVD, 15434.29ft VS





# Actual Wellpath Report

Bream Unit 1H AWP Proj: 22258'

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## REFERENCE WELLPATH IDENTIFICATION

|          |                              |          |                   |
|----------|------------------------------|----------|-------------------|
| Operator | ANTERO RESOURCES CORPORATION | Well     | Bream Unit 1H     |
| Field    | Harrison                     | UWI      | 47-033-06119-0000 |
| Facility | Flanigan Pad                 | Wellbore | Bream Unit 1H AWB |
| Slot     | Slot C                       |          |                   |

## REPORT SETUP INFORMATION

|                     |                                            |                     |                                       |
|---------------------|--------------------------------------------|---------------------|---------------------------------------|
| Projection System   | NAD27 / UTM Zone 17 North, US feet [32067] | Software System     | WellArchitect® 7.0                    |
| North Reference     | Grid                                       | Report Generated By | Edsaryar on 2025-12-30 at 12:26:17 AM |
| Scale               | 0.999633                                   | Last Updated        | 2025-12-29                            |
| Convergence at slot | 0.38° East                                 | Database            | WA_MPL_EASTERNUS_Defn                 |

## WELLPATH LOCATION

|                       | Local coordinates |          | Grid coordinates |                 | Geographic coordinates |                 |
|-----------------------|-------------------|----------|------------------|-----------------|------------------------|-----------------|
|                       | North[ft]         | East[ft] | Easting[US ft]   | Northing[US ft] | Latitude               | Longitude       |
| Slot Location         | 17.53             | -24.34   | 1811277.39       | 14288454.29     | 39°20'45.2894"N        | 80°23'44.3002"W |
| Facility Reference Pt |                   |          | 1811301.72       | 14288436.77     | 39°20'45.1145"N        | 80°23'43.9918"W |
| Field Reference Pt    |                   |          | 0.00             | 0.00            | 0°00'0.0000"           | 85°29'19.3013"W |

## WELLPATH DATUM

|                          |                   |                                                |                   |
|--------------------------|-------------------|------------------------------------------------|-------------------|
| Calculation method       | Minimum curvature | H&P 317 (RKB) to Facility Vertical Datum       | 1179.50ft         |
| Horizontal Reference Pt  | Slot              | H&P 317 (RKB) to Mean Sea Level                | 1179.50ft         |
| Vertical Reference Pt    | H&P 317 (RKB)     | H&P 317 (RKB) to Ground Level at Slot (Slot C) | 25.50ft           |
| MD Reference Pt          | H&P 317 (RKB)     | Section Origin                                 | N 0.00, E 0.00 ft |
| Field Vertical Reference | Mean Sea Level    | Section Azimuth                                | 341.010°          |

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# Actual Wellpath Report

Bream Unit 1H AWP Proj: 22258'  
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| REFERENCE WELLPATH IDENTIFICATION |                              |          |                   |
|-----------------------------------|------------------------------|----------|-------------------|
| Operator                          | ANTERO RESOURCES CORPORATION | Well     | Bream Unit 1H     |
| Field                             | Harrison                     | UWI      | 47-033-06119-0000 |
| Facility                          | Flanigan Pad                 | Wellbore | Bream Unit 1H AWB |
| Slot                              | Slot C                       |          |                   |

| WELLPATH DATA (243 stations) † = interpolated, ‡ = extrapolated station |                    |                |             |                   |               |              |                      |                       |                 |                 |                      |                    |                  |                         |                        |                                              |
|-------------------------------------------------------------------------|--------------------|----------------|-------------|-------------------|---------------|--------------|----------------------|-----------------------|-----------------|-----------------|----------------------|--------------------|------------------|-------------------------|------------------------|----------------------------------------------|
| MD<br>[ft]                                                              | Inclination<br>[°] | Azimuth<br>[°] | TVD<br>[ft] | Vert Sect<br>[ft] | North<br>[ft] | East<br>[ft] | Grid East<br>[US ft] | Grid North<br>[US ft] | Latitude        | Longitude       | Closure Dist<br>[ft] | Closure Dir<br>[°] | DLS<br>[°/100ft] | Build Rate<br>[°/100ft] | Turn Rate<br>[°/100ft] | Comments                                     |
| 0.00†                                                                   | 0.000              | 121.690        | 0.00        | 0.00              | 0.00          | 0.00         | 1811277.39           | 14288454.29           | 39°20'45.2894"N | 80°23'44.3002"W | 0.00                 | 0.000              | 0.00             | 0.00                    | 0.00                   |                                              |
| 25.50                                                                   | 0.000              | 121.690        | 25.50       | 0.00              | 0.00          | 0.00         | 1811277.39           | 14288454.29           | 39°20'45.2894"N | 80°23'44.3002"W | 0.00                 | 0.000              | 0.00             | 0.00                    | 0.00                   |                                              |
| 100.00                                                                  | 0.440              | 121.690        | 100.00      | -0.22             | -0.15         | 0.24         | 1811277.63           | 14288454.14           | 39°20'45.2879"N | 80°23'44.2971"W | 0.29                 | 121.690            | 0.59             | 0.59                    | 0.00                   | Gyrodata MS Gyro <17-1/2"> (100'-500')       |
| 200.00                                                                  | 0.330              | 134.710        | 200.00      | -0.78             | -0.55         | 0.77         | 1811278.16           | 14288453.74           | 39°20'45.2838"N | 80°23'44.2903"W | 0.95                 | 125.594            | 0.14             | -0.11                   | 13.02                  |                                              |
| 300.00                                                                  | 0.290              | 90.120         | 300.00      | -1.12             | -0.76         | 1.23         | 1811278.62           | 14288453.53           | 39°20'45.2818"N | 80°23'44.2845"W | 1.45                 | 121.582            | 0.24             | -0.04                   | -44.59                 |                                              |
| 400.00                                                                  | 0.360              | 111.070        | 399.99      | -1.40             | -0.87         | 1.78         | 1811279.17           | 14288453.42           | 39°20'45.2806"N | 80°23'44.2776"W | 1.98                 | 116.094            | 0.14             | 0.07                    | 20.95                  |                                              |
| 500.00                                                                  | 0.230              | 152.030        | 499.99      | -1.80             | -1.16         | 2.17         | 1811279.56           | 14288453.13           | 39°20'45.2778"N | 80°23'44.2727"W | 2.46                 | 118.199            | 0.24             | -0.13                   | 40.96                  |                                              |
| 600.00                                                                  | 0.370              | 163.770        | 599.99      | -2.32             | -1.65         | 2.35         | 1811279.74           | 14288452.64           | 39°20'45.2729"N | 80°23'44.2704"W | 2.87                 | 125.047            | 0.15             | 0.14                    | 11.74                  | Gyrodata MS Gyro <12-1/4"> (500')(600'-645') |
| 645.00                                                                  | 0.470              | 162.180        | 644.99      | -2.65             | -1.96         | 2.45         | 1811279.84           | 14288452.33           | 39°20'45.2698"N | 80°23'44.2692"W | 3.14                 | 128.744            | 0.22             | 0.22                    | -3.53                  |                                              |
| 773.00                                                                  | 1.240              | 215.800        | 772.98      | -3.98             | -3.59         | 1.80         | 1811279.19           | 14288450.70           | 39°20'45.2538"N | 80°23'44.2776"W | 4.01                 | 153.378            | 0.81             | 0.60                    | 41.89                  | APS EM <12-1/4"> (645')(773'-3458')          |
| 863.00                                                                  | 2.750              | 231.980        | 862.92      | -5.24             | -5.71         | -0.47        | 1811276.92           | 14288448.59           | 39°20'45.2330"N | 80°23'44.3067"W | 5.73                 | 184.735            | 1.77             | 1.68                    | 17.98                  |                                              |
| 953.00                                                                  | 4.560              | 234.970        | 952.73      | -6.94             | -9.09         | -5.10        | 1811272.29           | 14288445.20           | 39°20'45.1999"N | 80°23'44.3659"W | 10.43                | 209.310            | 2.02             | 2.01                    | 3.32                   |                                              |
| 1040.00                                                                 | 4.930              | 223.830        | 1039.44     | -9.60             | -13.77        | -10.52       | 1811266.87           | 14288440.52           | 39°20'45.1539"N | 80°23'44.4353"W | 17.33                | 217.385            | 1.14             | 0.43                    | -12.80                 |                                              |
| 1137.00                                                                 | 4.660              | 231.330        | 1136.10     | -12.83            | -19.24        | -16.49       | 1811260.91           | 14288435.06           | 39°20'45.1003"N | 80°23'44.5116"W | 25.34                | 220.592            | 0.70             | -0.28                   | 7.73                   |                                              |
| 1232.00                                                                 | 4.410              | 241.050        | 1230.80     | -14.76            | -23.42        | -22.70       | 1811254.70           | 14288430.88           | 39°20'45.0594"N | 80°23'44.5910"W | 32.61                | 224.100            | 0.85             | -0.26                   | 10.23                  |                                              |
| 1326.00                                                                 | 4.330              | 246.690        | 1324.53     | -15.65            | -26.57        | -29.12       | 1811248.28           | 14288427.73           | 39°20'45.0287"N | 80°23'44.6730"W | 39.42                | 227.615            | 0.46             | -0.09                   | 6.00                   |                                              |
| 1421.00                                                                 | 4.130              | 245.020        | 1419.27     | -16.28            | -29.44        | -35.51       | 1811241.89           | 14288424.86           | 39°20'45.0008"N | 80°23'44.7547"W | 46.13                | 230.343            | 0.25             | -0.21                   | -1.76                  |                                              |
| 1515.00                                                                 | 4.230              | 256.540        | 1513.02     | -16.30            | -31.67        | -41.95       | 1811235.45           | 14288422.63           | 39°20'44.9791"N | 80°23'44.8368"W | 52.57                | 232.947            | 0.90             | 0.11                    | 12.26                  |                                              |
| 1610.00                                                                 | 4.710              | 257.610        | 1607.73     | -15.51            | -33.33        | -49.17       | 1811228.24           | 14288420.98           | 39°20'44.9632"N | 80°23'44.9288"W | 59.40                | 235.870            | 0.51             | 0.51                    | 1.13                   |                                              |
| 1705.00                                                                 | 4.840              | 254.950        | 1702.40     | -14.79            | -35.20        | -56.85       | 1811220.56           | 14288419.10           | 39°20'44.9452"N | 80°23'45.0267"W | 66.87                | 238.232            | 0.27             | 0.14                    | -2.80                  |                                              |
| 1799.00                                                                 | 4.630              | 253.690        | 1796.08     | -14.34            | -37.30        | -64.32       | 1811213.09           | 14288417.00           | 39°20'44.9250"N | 80°23'45.1220"W | 74.35                | 239.890            | 0.25             | -0.22                   | -1.34                  |                                              |
| 1894.00                                                                 | 4.510              | 253.920        | 1890.78     | -13.97            | -39.41        | -71.59       | 1811205.83           | 14288414.89           | 39°20'44.9046"N | 80°23'45.2147"W | 81.72                | 241.166            | 0.13             | -0.13                   | 0.24                   |                                              |
| 1988.00                                                                 | 4.550              | 251.950        | 1984.49     | -13.72            | -41.59        | -78.68       | 1811198.73           | 14288412.72           | 39°20'44.8835"N | 80°23'45.3052"W | 89.00                | 242.141            | 0.17             | 0.04                    | -2.10                  |                                              |
| 2083.00                                                                 | 4.400              | 252.840        | 2079.20     | -13.54            | -43.83        | -85.75       | 1811191.67           | 14288410.47           | 39°20'44.8618"N | 80°23'45.3953"W | 96.30                | 242.925            | 0.17             | -0.16                   | 0.94                   |                                              |
| 2178.00                                                                 | 4.260              | 251.420        | 2173.93     | -13.40            | -46.03        | -92.58       | 1811184.85           | 14288408.28           | 39°20'44.8405"N | 80°23'45.4824"W | 103.39               | 243.562            | 0.19             | -0.15                   | -1.49                  |                                              |
| 2273.00                                                                 | 4.230              | 249.970        | 2268.67     | -13.44            | -48.36        | -99.21       | 1811178.21           | 14288405.95           | 39°20'44.8180"N | 80°23'45.5671"W | 110.37               | 244.015            | 0.12             | -0.03                   | -1.53                  |                                              |
| 2367.00                                                                 | 4.070              | 248.540        | 2362.42     | -13.65            | -50.76        | -105.57      | 1811171.86           | 14288403.54           | 39°20'44.7946"N | 80°23'45.6483"W | 117.14               | 244.320            | 0.20             | -0.17                   | -1.52                  |                                              |
| 2462.00                                                                 | 3.950              | 247.640        | 2457.19     | -13.98            | -53.24        | -111.74      | 1811165.69           | 14288401.07           | 39°20'44.7705"N | 80°23'45.7269"W | 123.77               | 244.522            | 0.14             | -0.13                   | -0.95                  |                                              |
| 2557.00                                                                 | 3.720              | 246.810        | 2551.97     | -14.40            | -55.70        | -117.60      | 1811159.84           | 14288398.61           | 39°20'44.7466"N | 80°23'45.8017"W | 130.12               | 244.655            | 0.25             | -0.24                   | -0.87                  |                                              |
| 2651.00                                                                 | 3.620              | 246.240        | 2645.78     | -14.87            | -58.10        | -123.12      | 1811154.32           | 14288396.21           | 39°20'44.7233"N | 80°23'45.8722"W | 136.13               | 244.738            | 0.11             | -0.11                   | -0.61                  |                                              |

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# Actual Wellpath Report

Bream Unit 1H AWP Proj: 22258'  
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| REFERENCE WELLPATH IDENTIFICATION |                              |          |                   |
|-----------------------------------|------------------------------|----------|-------------------|
| Operator                          | ANTERO RESOURCES CORPORATION | Well     | Bream Unit 1H     |
| Field                             | Harrison                     | UWI      | 47-033-06119-0000 |
| Facility                          | Flanigan Pad                 | Wellbore | Bream Unit 1H AWB |
| Slot                              | Slot C                       |          |                   |

| WELLPATH DATA (243 stations) |                    |                |             |                   |               |              |                      |                       |                 |                 |                      |                    |                  |                         |                        |                                      |
|------------------------------|--------------------|----------------|-------------|-------------------|---------------|--------------|----------------------|-----------------------|-----------------|-----------------|----------------------|--------------------|------------------|-------------------------|------------------------|--------------------------------------|
| MD<br>[ft]                   | Inclination<br>[°] | Azimuth<br>[°] | TVD<br>[ft] | Vert Sect<br>[ft] | North<br>[ft] | East<br>[ft] | Grid East<br>[US ft] | Grid North<br>[US ft] | Latitude        | Longitude       | Closure Dist<br>[ft] | Closure Dir<br>[°] | DLS<br>[°/100ft] | Build Rate<br>[°/100ft] | Turn Rate<br>[°/100ft] | Comments                             |
| 2746.00                      | 2.270              | 250.120        | 2740.65     | -15.15            | -59.95        | -127.63      | 1811149.81           | 14288394.37           | 39°20'44.7053"N | 80°23'45.9298"W | 141.01               | 244.841            | 1.44             | -1.42                   | 4.08                   |                                      |
| 2841.00                      | 0.950              | 272.550        | 2835.61     | -14.89            | -60.55        | -130.19      | 1811147.25           | 14288393.76           | 39°20'44.6995"N | 80°23'45.9624"W | 143.58               | 245.057            | 1.51             | -1.39                   | 23.61                  |                                      |
| 2935.00                      | 0.160              | 223.870        | 2929.61     | -14.67            | -60.61        | -131.06      | 1811146.38           | 14288393.70           | 39°20'44.6990"N | 80°23'45.9734"W | 144.39               | 245.181            | 0.91             | -0.84                   | -51.79                 |                                      |
| 3030.00                      | 0.740              | 281.990        | 3024.61     | -14.41            | -60.58        | -131.75      | 1811145.69           | 14288393.73           | 39°20'44.6994"N | 80°23'45.9822"W | 145.01               | 245.307            | 0.70             | 0.61                    | 61.18                  |                                      |
| 3124.00                      | 0.700              | 285.340        | 3118.60     | -13.77            | -60.30        | -132.89      | 1811144.54           | 14288394.01           | 39°20'44.7022"N | 80°23'45.9968"W | 145.94               | 245.594            | 0.06             | -0.04                   | 3.56                   |                                      |
| 3219.00                      | 0.780              | 277.400        | 3213.59     | -13.16            | -60.06        | -134.10      | 1811143.34           | 14288394.25           | 39°20'44.7046"N | 80°23'46.0121"W | 146.93               | 245.872            | 0.14             | 0.08                    | -8.36                  |                                      |
| 3314.00                      | 0.770              | 277.530        | 3308.58     | -12.59            | -59.90        | -135.37      | 1811142.07           | 14288394.42           | 39°20'44.7063"N | 80°23'46.0283"W | 148.03               | 246.132            | 0.01             | -0.01                   | 0.14                   |                                      |
| 3409.00                      | 0.670              | 264.070        | 3403.58     | -12.18            | -59.87        | -136.55      | 1811140.89           | 14288394.44           | 39°20'44.7067"N | 80°23'46.0434"W | 149.10               | 246.326            | 0.21             | -0.11                   | -14.17                 |                                      |
| 3458.00                      | 0.540              | 276.360        | 3452.57     | -12.01            | -59.87        | -137.07      | 1811140.37           | 14288394.44           | 39°20'44.7067"N | 80°23'46.0499"W | 149.58               | 246.403            | 0.37             | -0.27                   | 25.08                  |                                      |
| 3594.00                      | 0.440              | 299.130        | 3588.57     | -11.35            | -59.55        | -138.16      | 1811139.28           | 14288394.76           | 39°20'44.7100"N | 80°23'46.0638"W | 150.45               | 246.684            | 0.16             | -0.07                   | 16.74                  | APS EM <8-3/4"> (3458')(3594'-6337') |
| 3689.00                      | 0.550              | 313.940        | 3683.56     | -10.67            | -59.06        | -138.81      | 1811138.63           | 14288395.26           | 39°20'44.7149"N | 80°23'46.0720"W | 150.85               | 246.953            | 0.18             | 0.12                    | 15.59                  |                                      |
| 3783.00                      | 0.620              | 318.320        | 3777.56     | -9.80             | -58.36        | -139.47      | 1811137.97           | 14288395.95           | 39°20'44.7218"N | 80°23'46.0804"W | 151.19               | 247.293            | 0.09             | 0.07                    | 4.66                   |                                      |
| 3878.00                      | 0.600              | 329.160        | 3872.55     | -8.84             | -57.55        | -140.07      | 1811137.37           | 14288396.76           | 39°20'44.7298"N | 80°23'46.0879"W | 151.43               | 247.663            | 0.12             | -0.02                   | 11.41                  |                                      |
| 3973.00                      | 0.640              | 304.960        | 3967.55     | -7.92             | -56.82        | -140.76      | 1811136.68           | 14288397.49           | 39°20'44.7371"N | 80°23'46.0966"W | 151.79               | 248.018            | 0.28             | 0.04                    | -25.47                 |                                      |
| 4067.00                      | 0.620              | 338.870        | 4061.54     | -6.99             | -56.04        | -141.37      | 1811136.07           | 14288398.27           | 39°20'44.7448"N | 80°23'46.1044"W | 152.08               | 248.375            | 0.39             | -0.02                   | 36.07                  |                                      |
| 4162.00                      | 0.880              | 326.570        | 4156.53     | -5.77             | -54.96        | -141.96      | 1811135.48           | 14288399.35           | 39°20'44.7556"N | 80°23'46.1117"W | 152.23               | 248.837            | 0.32             | 0.27                    | -12.95                 |                                      |
| 4256.00                      | 1.120              | 314.690        | 4250.52     | -4.25             | -53.71        | -143.01      | 1811134.43           | 14288400.60           | 39°20'44.7680"N | 80°23'46.1250"W | 152.76               | 249.416            | 0.34             | 0.26                    | -12.64                 |                                      |
| 4351.00                      | 1.190              | 321.110        | 4345.50     | -2.49             | -52.29        | -144.29      | 1811133.15           | 14288402.02           | 39°20'44.7821"N | 80°23'46.1412"W | 153.47               | 250.081            | 0.15             | 0.07                    | 6.76                   |                                      |
| 4446.00                      | 0.260              | 269.430        | 4440.49     | -1.49             | -51.52        | -145.12      | 1811132.32           | 14288402.79           | 39°20'44.7898"N | 80°23'46.1517"W | 154.00               | 250.454            | 1.10             | -0.98                   | -54.40                 |                                      |
| 4540.00                      | 0.370              | 105.020        | 4534.49     | -1.60             | -51.60        | -145.05      | 1811132.40           | 14288402.71           | 39°20'44.7889"N | 80°23'46.1507"W | 153.95               | 250.416            | 0.66             | 0.12                    | -174.90                |                                      |
| 4635.00                      | 0.440              | 117.690        | 4629.49     | -2.03             | -51.85        | -144.43      | 1811133.02           | 14288402.46           | 39°20'44.7864"N | 80°23'46.1429"W | 153.45               | 250.251            | 0.12             | 0.07                    | 13.34                  |                                      |
| 4729.00                      | 0.260              | 118.250        | 4723.49     | -2.45             | -52.12        | -143.92      | 1811133.52           | 14288402.19           | 39°20'44.7838"N | 80°23'46.1364"W | 153.07               | 250.092            | 0.19             | -0.19                   | 0.60                   |                                      |
| 4824.00                      | 0.190              | 128.300        | 4818.49     | -2.74             | -52.32        | -143.60      | 1811133.84           | 14288401.99           | 39°20'44.7818"N | 80°23'46.1325"W | 152.84               | 249.982            | 0.08             | -0.07                   | 10.58                  |                                      |
| 4918.00                      | 0.710              | 90.650         | 4912.48     | -3.07             | -52.42        | -142.90      | 1811134.54           | 14288401.89           | 39°20'44.7807"N | 80°23'46.1235"W | 152.21               | 249.854            | 0.61             | 0.55                    | -40.05                 |                                      |
| 5013.00                      | 1.030              | 77.540         | 5007.47     | -3.36             | -52.25        | -141.48      | 1811135.96           | 14288402.06           | 39°20'44.7824"N | 80°23'46.1054"W | 150.82               | 249.732            | 0.39             | 0.34                    | -13.80                 |                                      |
| 5108.00                      | 0.790              | 83.840         | 5102.46     | -3.61             | -51.99        | -139.99      | 1811137.45           | 14288402.32           | 39°20'44.7848"N | 80°23'46.0865"W | 149.34               | 249.626            | 0.27             | -0.25                   | 6.63                   |                                      |
| 5202.00                      | 0.910              | 93.100         | 5196.45     | -4.03             | -51.96        | -138.60      | 1811138.84           | 14288402.35           | 39°20'44.7850"N | 80°23'46.0688"W | 148.02               | 249.449            | 0.19             | 0.13                    | 9.85                   |                                      |
| 5297.00                      | 0.860              | 91.200         | 5291.44     | -4.56             | -52.02        | -137.14      | 1811140.30           | 14288402.29           | 39°20'44.7843"N | 80°23'46.0501"W | 146.67               | 249.228            | 0.06             | -0.05                   | -2.00                  |                                      |
| 5391.00                      | 1.020              | 89.080         | 5385.43     | -5.06             | -52.02        | -135.60      | 1811141.84           | 14288402.29           | 39°20'44.7842"N | 80°23'46.0305"W | 145.23               | 249.012            | 0.17             | 0.17                    | -2.26                  |                                      |
| 5485.00                      | 0.240              | 106.790        | 5479.42     | -5.44             | -52.06        | -134.57      | 1811142.87           | 14288402.25           | 39°20'44.7837"N | 80°23'46.0174"W | 144.29               | 248.850            | 0.85             | -0.83                   | 18.84                  |                                      |

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# Actual Wellpath Report

Bream Unit 1H AWP Proj: 22258'

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## REFERENCE WELLPATH IDENTIFICATION

|          |                              |          |                   |
|----------|------------------------------|----------|-------------------|
| Operator | ANTERO RESOURCES CORPORATION | Well     | Bream Unit 1H     |
| Field    | Harrison                     | UWI      | 47-033-06119-0000 |
| Facility | Flanigan Pad                 | Wellbore | Bream Unit 1H AWB |
| Slot     | Slot C                       |          |                   |

## WELLPATH DATA (243 stations) † = interpolated, ‡ = extrapolated station

| MD<br>[ft] | Inclination<br>[°] | Azimuth<br>[°] | TVD<br>[ft] | Vert Sect<br>[ft] | North<br>[ft] | East<br>[ft] | Grid East<br>[US ft] | Grid North<br>[US ft] | Latitude        | Longitude       | Closure Dist<br>[ft] | Closure Dir<br>[°] | DLS<br>[°/100ft] | Build Rate<br>[°/100ft] | Turn Rate<br>[°/100ft] | Comments                                 |
|------------|--------------------|----------------|-------------|-------------------|---------------|--------------|----------------------|-----------------------|-----------------|-----------------|----------------------|--------------------|------------------|-------------------------|------------------------|------------------------------------------|
| 5580.00    | 1.040              | 110.150        | 5574.41     | -6.10             | -52.42        | -133.57      | 1811143.87           | 14288401.89           | 39°20'44.7801"N | 80°23'46.0047"W | 143.49               | 248.574            | 0.84             | 0.84                    | 3.54                   |                                          |
| 5675.00    | 1.120              | 122.370        | 5669.40     | -7.37             | -53.21        | -131.98      | 1811145.46           | 14288401.10           | 39°20'44.7722"N | 80°23'45.9845"W | 142.30               | 248.042            | 0.26             | 0.08                    | 12.86                  |                                          |
| 5770.00    | 0.970              | 127.360        | 5764.38     | -8.76             | -54.20        | -130.55      | 1811146.88           | 14288400.11           | 39°20'44.7624"N | 80°23'45.9665"W | 141.36               | 247.456            | 0.18             | -0.16                   | 5.25                   |                                          |
| 5864.00    | 1.000              | 131.290        | 5858.37     | -10.14            | -55.22        | -129.30      | 1811148.13           | 14288399.09           | 39°20'44.7522"N | 80°23'45.9507"W | 140.60               | 246.875            | 0.08             | 0.03                    | 4.18                   |                                          |
| 5959.00    | 1.180              | 140.220        | 5953.35     | -11.77            | -56.52        | -128.06      | 1811149.38           | 14288397.79           | 39°20'44.7392"N | 80°23'45.9349"W | 139.97               | 246.185            | 0.26             | 0.19                    | 9.40                   |                                          |
| 6053.00    | 1.220              | 142.160        | 6047.33     | -13.62            | -58.05        | -126.82      | 1811150.61           | 14288396.26           | 39°20'44.7240"N | 80°23'45.9193"W | 139.48               | 245.404            | 0.06             | 0.04                    | 2.06                   |                                          |
| 6148.00    | 1.250              | 138.120        | 6142.31     | -15.54            | -59.62        | -125.51      | 1811151.93           | 14288394.69           | 39°20'44.7084"N | 80°23'45.9028"W | 138.95               | 244.590            | 0.10             | 0.03                    | -4.25                  |                                          |
| 6242.00    | 1.320              | 136.860        | 6236.28     | -17.47            | -61.18        | -124.09      | 1811153.35           | 14288393.14           | 39°20'44.6929"N | 80°23'45.8848"W | 138.35               | 243.756            | 0.08             | 0.07                    | -1.34                  |                                          |
| 6337.00    | 1.010              | 146.160        | 6331.26     | -19.28            | -62.67        | -122.87      | 1811154.56           | 14288391.64           | 39°20'44.6781"N | 80°23'45.8694"W | 137.93               | 242.976            | 0.38             | -0.33                   | 9.79                   |                                          |
| 6365.00†   | 0.268              | 48.687         | 6359.26     | -19.49            | -62.83        | -122.68      | 1811154.75           | 14288391.48           | 39°20'44.6765"N | 80°23'45.8671"W | 137.84               | 242.881            | 3.85             | -2.65                   | -348.12                | Sycamore: 6365' MD                       |
| 6463.00    | 3.880              | 344.080        | 6457.19     | -16.09            | -59.49        | -123.42      | 1811154.01           | 14288394.82           | 39°20'44.7096"N | 80°23'45.8762"W | 137.01               | 244.265            | 3.85             | 3.69                    | -65.93                 | BH Lucida <8-1/2"> (6337')(6463'-22233') |
| 6558.00    | 11.610             | 343.270        | 6551.25     | -3.31             | -47.23        | -127.06      | 1811150.38           | 14288407.08           | 39°20'44.8310"N | 80°23'45.9215"W | 135.55               | 249.611            | 8.14             | 8.14                    | -0.85                  |                                          |
| 6624.00†   | 17.438             | 343.022        | 6615.11     | 13.22             | -31.40        | -131.87      | 1811145.57           | 14288422.91           | 39°20'44.9878"N | 80°23'45.9813"W | 135.55               | 256.608            | 8.83             | 8.83                    | -0.38                  | Middlesex: 6624' MD                      |
| 6652.00    | 19.910             | 342.960        | 6641.63     | 22.18             | -22.82        | -134.49      | 1811142.95           | 14288431.48           | 39°20'45.0727"N | 80°23'46.0139"W | 136.41               | 260.368            | 8.83             | 8.83                    | -0.22                  |                                          |
| 6747.00    | 27.580             | 339.990        | 6728.53     | 60.40             | 13.36         | -146.77      | 1811130.67           | 14288467.65           | 39°20'45.4311"N | 80°23'46.1672"W | 147.38               | 275.202            | 8.17             | 8.07                    | -3.13                  |                                          |
| 6819.00†   | 34.129             | 339.990        | 6790.31     | 97.30             | 48.04         | -159.40      | 1811118.05           | 14288502.31           | 39°20'45.7747"N | 80°23'46.3250"W | 166.48               | 286.772            | 9.10             | 9.10                    | 0.00                   | Burkett: 6819' MD                        |
| 6841.00    | 36.130             | 339.990        | 6808.30     | 109.95            | 59.93         | -163.73      | 1811113.72           | 14288514.20           | 39°20'45.8925"N | 80°23'46.3791"W | 174.36               | 290.105            | 9.10             | 9.10                    | 0.00                   |                                          |
| 6855.00†   | 37.279             | 340.012        | 6819.52     | 118.32            | 67.80         | -166.59      | 1811110.86           | 14288522.06           | 39°20'45.9705"N | 80°23'46.4149"W | 179.86               | 292.145            | 8.21             | 8.21                    | 0.16                   | Tully: 6855' MD                          |
| 6936.00    | 43.930             | 340.120        | 6880.99     | 171.00            | 117.33        | -184.55      | 1811092.90           | 14288571.58           | 39°20'46.4612"N | 80°23'46.6393"W | 218.69               | 302.446            | 8.21             | 8.21                    | 0.13                   |                                          |
| 7031.00    | 53.340             | 340.380        | 6943.70     | 242.21            | 184.36        | -208.61      | 1811068.86           | 14288638.59           | 39°20'47.1253"N | 80°23'46.9397"W | 278.40               | 311.469            | 9.91             | 9.91                    | 0.27                   |                                          |
| 7125.00    | 61.800             | 340.740        | 6994.06     | 321.48            | 259.12        | -234.98      | 1811042.50           | 14288713.31           | 39°20'47.8658"N | 80°23'47.2690"W | 349.80               | 317.797            | 9.01             | 9.00                    | 0.38                   |                                          |
| 7220.00    | 69.600             | 340.730        | 7033.12     | 407.99            | 340.79        | -263.53      | 1811013.96           | 14288794.95           | 39°20'48.6749"N | 80°23'47.6254"W | 430.79               | 322.286            | 8.21             | 8.21                    | -0.01                  |                                          |
| 7223.00†   | 69.745             | 340.760        | 7034.17     | 410.81            | 343.44        | -264.45      | 1811013.03           | 14288797.61           | 39°20'48.7012"N | 80°23'47.6370"W | 433.46               | 322.404            | 4.92             | 4.83                    | 1.00                   | Marcellus POE: 7223' MD                  |
| 7314.00    | 74.140             | 341.650        | 7062.37     | 497.30            | 425.33        | -292.31      | 1810985.19           | 14288879.46           | 39°20'49.5124"N | 80°23'47.9847"W | 516.09               | 325.501            | 4.92             | 4.83                    | 0.98                   |                                          |
| 7409.00    | 80.320             | 341.910        | 7083.36     | 589.90            | 513.29        | -321.26      | 1810956.24           | 14288967.39           | 39°20'50.3837"N | 80°23'48.3457"W | 605.54               | 327.958            | 6.51             | 6.51                    | 0.27                   |                                          |
| 7504.00    | 87.410             | 342.230        | 7093.50     | 684.28            | 603.10        | -350.32      | 1810927.20           | 14289057.17           | 39°20'51.2732"N | 80°23'48.7080"W | 697.47               | 329.849            | 7.47             | 7.46                    | 0.34                   |                                          |
| 7598.00    | 89.910             | 342.300        | 7095.70     | 778.22            | 692.61        | -378.95      | 1810898.58           | 14289146.64           | 39°20'52.1597"N | 80°23'49.0647"W | 789.50               | 331.316            | 2.66             | 2.66                    | 0.07                   |                                          |
| 7693.00    | 89.880             | 340.040        | 7095.87     | 873.21            | 782.52        | -409.61      | 1810867.93           | 14289236.52           | 39°20'53.0503"N | 80°23'49.4473"W | 883.24               | 332.370            | 2.38             | -0.03                   | -2.38                  |                                          |
| 7788.00    | 89.450             | 340.070        | 7096.43     | 968.20            | 871.82        | -442.01      | 1810835.54           | 14289325.78           | 39°20'53.9351"N | 80°23'49.8522"W | 977.47               | 333.115            | 0.45             | -0.45                   | 0.03                   |                                          |
| 7882.00    | 89.570             | 340.050        | 7097.23     | 1062.18           | 960.18        | -474.07      | 1810803.50           | 14289414.11           | 39°20'54.8105"N | 80°23'50.2528"W | 1070.83              | 333.723            | 0.13             | 0.13                    | -0.02                  |                                          |

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# Actual Wellpath Report

Bream Unit 1H AWP Proj: 22258'  
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| REFERENCE WELLPATH IDENTIFICATION |                              |          |                   |
|-----------------------------------|------------------------------|----------|-------------------|
| Operator                          | ANTERO RESOURCES CORPORATION | Well     | Bream Unit 1H     |
| Field                             | Harrison                     | UWI      | 47-033-06119-0000 |
| Facility                          | Flanigan Pad                 | Wellbore | Bream Unit 1H AWP |
| Slot                              | Slot C                       |          |                   |

| WELLPATH DATA (243 stations) |                    |                |             |                   |               |              |                      |                       |                 |                 |                      |                    |                  |                         |                        |          |
|------------------------------|--------------------|----------------|-------------|-------------------|---------------|--------------|----------------------|-----------------------|-----------------|-----------------|----------------------|--------------------|------------------|-------------------------|------------------------|----------|
| MD<br>[ft]                   | Inclination<br>[°] | Azimuth<br>[°] | TVD<br>[ft] | Vert Sect<br>[ft] | North<br>[ft] | East<br>[ft] | Grid East<br>[US ft] | Grid North<br>[US ft] | Latitude        | Longitude       | Closure Dist<br>[ft] | Closure Dir<br>[°] | DLS<br>[°/100ft] | Build Rate<br>[°/100ft] | Turn Rate<br>[°/100ft] | Comments |
| 7977.00                      | 89.420             | 340.550        | 7098.07     | 1157.17           | 1049.61       | -506.09      | 1810771.49           | 14289503.52           | 39°20'55.6965"N | 80°23'50.6528"W | 1165.25              | 334.258            | 0.55             | -0.16                   | 0.53                   |          |
| 8072.00                      | 89.660             | 340.250        | 7098.83     | 1252.16           | 1139.11       | -537.96      | 1810739.63           | 14289592.98           | 39°20'56.5831"N | 80°23'51.0508"W | 1259.75              | 334.720            | 0.40             | 0.25                    | -0.32                  |          |
| 8166.00                      | 89.420             | 340.480        | 7099.59     | 1346.15           | 1227.64       | -569.54      | 1810708.06           | 14289681.47           | 39°20'57.4602"N | 80°23'51.4454"W | 1353.32              | 335.112            | 0.35             | -0.26                   | 0.24                   |          |
| 8261.00                      | 89.820             | 341.070        | 7100.22     | 1441.15           | 1317.34       | -600.82      | 1810676.79           | 14289771.14           | 39°20'58.3488"N | 80°23'51.8359"W | 1447.88              | 335.483            | 0.75             | 0.42                    | 0.62                   |          |
| 8356.00                      | 89.660             | 340.680        | 7100.65     | 1536.15           | 1407.09       | -631.95      | 1810645.67           | 14289860.86           | 39°20'59.2379"N | 80°23'52.2245"W | 1542.49              | 335.814            | 0.44             | -0.17                   | -0.41                  |          |
| 8450.00                      | 89.260             | 340.320        | 7101.53     | 1630.14           | 1495.70       | -663.32      | 1810614.31           | 14289949.43           | 39°21'0.1157"N  | 80°23'52.6164"W | 1636.19              | 336.083            | 0.57             | -0.43                   | -0.38                  |          |
| 8545.00                      | 89.480             | 340.250        | 7102.58     | 1725.13           | 1585.12       | -695.37      | 1810582.28           | 14290038.83           | 39°21'1.0016"N  | 80°23'53.0167"W | 1730.94              | 336.314            | 0.24             | 0.23                    | -0.07                  |          |
| 8640.00                      | 90.550             | 341.490        | 7102.55     | 1820.12           | 1674.87       | -726.50      | 1810551.16           | 14290128.55           | 39°21'1.8907"N  | 80°23'53.4054"W | 1825.65              | 336.550            | 1.72             | 1.13                    | 1.31                   |          |
| 8734.00                      | 89.940             | 340.280        | 7102.15     | 1914.12           | 1763.69       | -757.28      | 1810520.39           | 14290217.33           | 39°21'2.7705"N  | 80°23'53.7897"W | 1919.39              | 336.763            | 1.44             | -0.65                   | -1.29                  |          |
| 8829.00                      | 90.280             | 340.270        | 7101.97     | 2009.11           | 1853.11       | -789.35      | 1810488.34           | 14290306.72           | 39°21'3.6565"N  | 80°23'54.1902"W | 2014.22              | 336.928            | 0.36             | 0.36                    | -0.01                  |          |
| 8923.00                      | 90.030             | 340.170        | 7101.72     | 2103.10           | 1941.57       | -821.16      | 1810456.54           | 14290395.14           | 39°21'4.5328"N  | 80°23'54.5877"W | 2108.07              | 337.075            | 0.29             | -0.27                   | -0.11                  |          |
| 9018.00                      | 90.220             | 340.310        | 7101.51     | 2198.09           | 2030.97       | -853.27      | 1810424.43           | 14290484.51           | 39°21'5.4185"N  | 80°23'54.9889"W | 2202.93              | 337.211            | 0.25             | 0.20                    | 0.15                   |          |
| 9112.00                      | 90.250             | 340.380        | 7101.12     | 2292.09           | 2119.49       | -884.89      | 1810392.83           | 14290573.00           | 39°21'6.2955"N  | 80°23'55.3839"W | 2296.80              | 337.339            | 0.08             | 0.03                    | 0.07                   |          |
| 9207.00                      | 90.220             | 340.180        | 7100.73     | 2387.08           | 2208.92       | -916.95      | 1810360.78           | 14290662.40           | 39°21'7.1815"N  | 80°23'55.7844"W | 2391.68              | 337.456            | 0.21             | -0.03                   | -0.21                  |          |
| 9301.00                      | 90.090             | 340.300        | 7100.48     | 2481.07           | 2297.39       | -948.73      | 1810329.01           | 14290750.83           | 39°21'8.0579"N  | 80°23'56.1814"W | 2485.57              | 337.561            | 0.19             | -0.14                   | 0.13                   |          |
| 9396.00                      | 90.120             | 340.040        | 7100.30     | 2576.06           | 2386.75       | -980.95      | 1810296.80           | 14290840.16           | 39°21'8.9433"N  | 80°23'56.5841"W | 2580.48              | 337.657            | 0.28             | 0.03                    | -0.27                  |          |
| 9490.00                      | 89.940             | 340.420        | 7100.26     | 2670.05           | 2475.21       | -1012.75     | 1810265.02           | 14290928.59           | 39°21'9.8196"N  | 80°23'56.9813"W | 2674.38              | 337.748            | 0.45             | -0.19                   | 0.40                   |          |
| 9585.00                      | 89.720             | 339.710        | 7100.54     | 2765.04           | 2564.52       | -1045.14     | 1810232.64           | 14291017.86           | 39°21'10.7044"N | 80°23'57.3861"W | 2769.31              | 337.827            | 0.78             | -0.23                   | -0.75                  |          |
| 9680.00                      | 89.940             | 340.720        | 7100.82     | 2860.03           | 2653.91       | -1077.29     | 1810200.49           | 14291107.22           | 39°21'11.5900"N | 80°23'57.7879"W | 2864.23              | 337.906            | 1.09             | 0.23                    | 1.06                   |          |
| 9774.00                      | 89.690             | 340.350        | 7101.12     | 2954.02           | 2742.54       | -1108.62     | 1810169.18           | 14291195.82           | 39°21'12.4680"N | 80°23'58.1791"W | 2958.13              | 337.990            | 0.48             | -0.27                   | -0.39                  |          |
| 9869.00                      | 89.630             | 340.280        | 7101.69     | 3049.01           | 2831.98       | -1140.62     | 1810137.19           | 14291285.23           | 39°21'13.3541"N | 80°23'58.5789"W | 3053.05              | 338.062            | 0.10             | -0.06                   | -0.07                  |          |
| 9963.00                      | 89.910             | 340.320        | 7102.06     | 3143.01           | 2920.48       | -1172.30     | 1810105.52           | 14291373.69           | 39°21'14.2309"N | 80°23'58.9748"W | 3146.98              | 338.129            | 0.30             | 0.30                    | 0.04                   |          |
| 10058.00                     | 89.720             | 340.200        | 7102.37     | 3238.00           | 3009.90       | -1204.39     | 1810073.44           | 14291463.08           | 39°21'15.1167"N | 80°23'59.3757"W | 3241.92              | 338.192            | 0.24             | -0.20                   | -0.13                  |          |
| 10153.00                     | 90.030             | 340.300        | 7102.58     | 3332.99           | 3099.31       | -1236.49     | 1810041.35           | 14291552.46           | 39°21'16.0025"N | 80°23'59.7768"W | 3336.86              | 338.250            | 0.34             | 0.33                    | 0.11                   |          |
| 10247.00                     | 90.060             | 340.210        | 7102.50     | 3426.98           | 3187.78       | -1268.25     | 1810009.61           | 14291640.90           | 39°21'16.8790"N | 80°24'0.1735"W  | 3430.80              | 338.305            | 0.10             | 0.03                    | -0.10                  |          |
| 10342.00                     | 90.060             | 339.990        | 7102.40     | 3521.97           | 3277.11       | -1300.58     | 1809977.29           | 14291730.19           | 39°21'17.7640"N | 80°24'0.5776"W  | 3525.76              | 338.353            | 0.23             | 0.00                    | -0.23                  |          |
| 10436.00                     | 90.150             | 340.350        | 7102.23     | 3615.96           | 3365.53       | -1332.47     | 1809945.41           | 14291818.58           | 39°21'18.6400"N | 80°24'0.9761"W  | 3619.71              | 338.401            | 0.39             | 0.10                    | 0.38                   |          |
| 10531.00                     | 90.250             | 340.320        | 7101.90     | 3710.95           | 3454.99       | -1364.44     | 1809913.45           | 14291908.01           | 39°21'19.5263"N | 80°24'1.3755"W  | 3714.66              | 338.450            | 0.11             | 0.11                    | -0.03                  |          |
| 10626.00                     | 89.940             | 340.400        | 7101.74     | 3805.94           | 3544.47       | -1396.37     | 1809881.53           | 14291997.45           | 39°21'20.4127"N | 80°24'1.7744"W  | 3809.61              | 338.498            | 0.34             | -0.33                   | 0.08                   |          |
| 10720.00                     | 89.880             | 340.690        | 7101.89     | 3899.94           | 3633.10       | -1427.68     | 1809850.24           | 14292086.05           | 39°21'21.2907"N | 80°24'2.1655"W  | 3903.55              | 338.547            | 0.32             | -0.06                   | 0.31                   |          |

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# Actual Wellpath Report

Bream Unit 1H AWP Proj: 22258'  
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## REFERENCE WELLPATH IDENTIFICATION

|          |                              |          |                   |
|----------|------------------------------|----------|-------------------|
| Operator | ANTERO RESOURCES CORPORATION | Well     | Bream Unit 1H     |
| Field    | Harrison                     | UWI      | 47-033-06119-0000 |
| Facility | Flanigan Pad                 | Wellbore | Bream Unit 1H AWP |
| Slot     | Slot C                       |          |                   |

## WELLPATH DATA (243 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 |
|----------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|-----------------|-----------------|-------------------|-----------------|---------------|----------------------|---------------------|----------|
| 10815.00 | 89.970          | 340.380     | 7102.02  | 3994.94        | 3722.67    | -1459.34  | 1809818.59        | 14292175.59        | 39°21'22.1781"N | 80°24'2.5609"W  | 3998.49           | 338.594         | 0.34          | 0.09                 | -0.33               |          |
| 10910.00 | 89.940          | 341.290     | 7102.09  | 4089.94        | 3812.40    | -1490.52  | 1809787.42        | 14292265.29        | 39°21'23.0670"N | 80°24'2.9504"W  | 4093.42           | 338.646         | 0.96          | -0.03                | 0.96                |          |
| 11004.00 | 89.820          | 341.410     | 7102.29  | 4183.93        | 3901.47    | -1520.58  | 1809757.37        | 14292354.32        | 39°21'23.9492"N | 80°24'3.3255"W  | 4187.32           | 338.707         | 0.18          | -0.13                | 0.13                |          |
| 11099.00 | 89.820          | 341.400     | 7102.59  | 4278.93        | 3991.51    | -1550.88  | 1809727.09        | 14292444.33        | 39°21'24.8411"N | 80°24'3.7036"W  | 4282.21           | 338.767         | 0.01          | 0.00                 | -0.01               |          |
| 11194.00 | 89.910          | 341.390     | 7102.81  | 4373.93        | 4081.54    | -1581.19  | 1809696.79        | 14292534.33        | 39°21'25.7329"N | 80°24'4.0818"W  | 4377.11           | 338.824         | 0.10          | 0.09                 | -0.01               |          |
| 11288.00 | 89.750          | 341.570     | 7103.09  | 4467.92        | 4170.67    | -1611.04  | 1809666.94        | 14292623.43        | 39°21'26.6158"N | 80°24'4.4544"W  | 4471.02           | 338.880         | 0.26          | -0.17                | 0.19                |          |
| 11383.00 | 89.820          | 341.640     | 7103.44  | 4562.92        | 4260.82    | -1641.02  | 1809636.97        | 14292713.54        | 39°21'27.5087"N | 80°24'4.8284"W  | 4565.91           | 338.936         | 0.10          | 0.07                 | 0.07                |          |
| 11478.00 | 89.230          | 341.330     | 7104.23  | 4657.91        | 4350.90    | -1671.19  | 1809606.82        | 14292803.58        | 39°21'28.4010"N | 80°24'5.2049"W  | 4660.81           | 338.988         | 0.70          | -0.62                | -0.33               |          |
| 11572.00 | 89.450          | 341.280     | 7105.31  | 4751.90        | 4439.93    | -1701.32  | 1809576.70        | 14292892.59        | 39°21'29.2829"N | 80°24'5.5809"W  | 4754.73           | 339.034         | 0.24          | 0.23                 | -0.05               |          |
| 11667.00 | 89.350          | 341.360     | 7106.31  | 4846.90        | 4529.92    | -1731.74  | 1809546.29        | 14292982.54        | 39°21'30.1743"N | 80°24'5.9607"W  | 4849.65           | 339.079         | 0.13          | -0.11                | 0.08                |          |
| 11762.00 | 89.170          | 341.630     | 7107.54  | 4941.89        | 4620.00    | -1761.89  | 1809516.15        | 14293072.59        | 39°21'31.0666"N | 80°24'6.3369"W  | 4944.56           | 339.125         | 0.34          | -0.19                | 0.28                |          |
| 11856.00 | 89.480          | 341.330     | 7108.64  | 5035.88        | 4709.13    | -1791.75  | 1809486.30        | 14293161.68        | 39°21'31.9494"N | 80°24'6.7094"W  | 5038.48           | 339.169         | 0.46          | 0.33                 | -0.32               |          |
| 11951.00 | 89.720          | 341.770     | 7109.31  | 5130.87        | 4799.24    | -1821.81  | 1809456.25        | 14293251.76        | 39°21'32.8420"N | 80°24'7.0846"W  | 5133.39           | 339.213         | 0.53          | 0.25                 | 0.46                |          |
| 12046.00 | 89.450          | 341.370     | 7110.00  | 5225.86        | 4889.37    | -1851.84  | 1809426.23        | 14293341.86        | 39°21'33.7347"N | 80°24'7.4593"W  | 5228.31           | 339.256         | 0.51          | -0.28                | -0.42               |          |
| 12141.00 | 89.450          | 341.050     | 7110.91  | 5320.86        | 4979.30    | -1882.44  | 1809395.64        | 14293431.76        | 39°21'34.6256"N | 80°24'7.8413"W  | 5323.25           | 339.291         | 0.34          | 0.00                 | -0.34               |          |
| 12235.00 | 89.420          | 341.150     | 7111.83  | 5414.85        | 5068.23    | -1912.89  | 1809365.21        | 14293520.65        | 39°21'35.5065"N | 80°24'8.2214"W  | 5417.20           | 339.322         | 0.11          | -0.03                | 0.11                |          |
| 12330.00 | 89.420          | 341.510     | 7112.80  | 5509.85        | 5158.22    | -1943.30  | 1809334.81        | 14293610.61        | 39°21'36.3979"N | 80°24'8.6010"W  | 5512.14           | 339.357         | 0.38          | 0.00                 | 0.38                |          |
| 12425.00 | 89.570          | 341.560     | 7113.63  | 5604.84        | 5248.33    | -1973.39  | 1809304.73        | 14293700.69        | 39°21'37.2904"N | 80°24'8.9765"W  | 5607.07           | 339.394         | 0.17          | 0.16                 | 0.05                |          |
| 12519.00 | 89.450          | 341.650     | 7114.44  | 5698.83        | 5337.52    | -2003.05  | 1809275.08        | 14293789.85        | 39°21'38.1739"N | 80°24'9.3466"W  | 5701.00           | 339.430         | 0.16          | -0.13                | 0.10                |          |
| 12614.00 | 89.450          | 341.920     | 7115.35  | 5793.82        | 5427.76    | -2032.74  | 1809245.40        | 14293880.05        | 39°21'39.0677"N | 80°24'9.7170"W  | 5795.91           | 339.469         | 0.28          | 0.00                 | 0.28                |          |
| 12708.00 | 89.450          | 342.460     | 7116.25  | 5887.79        | 5517.25    | -2061.49  | 1809216.66        | 14293969.51        | 39°21'39.9540"N | 80°24'10.0755"W | 5889.80           | 339.512         | 0.57          | 0.00                 | 0.57                |          |
| 12803.00 | 89.140          | 341.360     | 7117.42  | 5982.77        | 5607.55    | -2090.99  | 1809187.17        | 14294059.77        | 39°21'40.8484"N | 80°24'10.4434"W | 5984.71           | 339.550         | 1.20          | -0.33                | -1.16               |          |
| 12898.00 | 89.450          | 341.530     | 7118.59  | 6077.76        | 5697.60    | -2121.21  | 1809156.96        | 14294149.79        | 39°21'41.7404"N | 80°24'10.8207"W | 6079.66           | 339.580         | 0.37          | 0.33                 | 0.18                |          |
| 12992.00 | 89.420          | 341.400     | 7119.52  | 6171.75        | 5786.72    | -2151.09  | 1809127.09        | 14294238.88        | 39°21'42.6232"N | 80°24'11.1936"W | 6173.60           | 339.608         | 0.14          | -0.03                | -0.14               |          |
| 13087.00 | 89.200          | 341.180     | 7120.66  | 6266.75        | 5876.69    | -2181.57  | 1809096.63        | 14294328.82        | 39°21'43.5144"N | 80°24'11.5740"W | 6268.55           | 339.634         | 0.33          | -0.23                | -0.23               |          |
| 13182.00 | 89.540          | 341.860     | 7121.70  | 6361.74        | 5966.79    | -2211.68  | 1809066.53        | 14294418.88        | 39°21'44.4068"N | 80°24'11.9497"W | 6363.50           | 339.662         | 0.80          | 0.36                 | 0.72                |          |
| 13277.00 | 90.550          | 341.510     | 7121.63  | 6456.73        | 6056.98    | -2241.53  | 1809036.69        | 14294509.03        | 39°21'45.3001"N | 80°24'12.3222"W | 6458.44           | 339.692         | 1.13          | 1.06                 | -0.37               |          |
| 13371.00 | 90.340          | 341.120     | 7120.90  | 6550.72        | 6146.02    | -2271.64  | 1809006.58        | 14294598.04        | 39°21'46.1821"N | 80°24'12.6981"W | 6552.40           | 339.715         | 0.47          | -0.22                | -0.41               |          |
| 13466.00 | 90.370          | 341.430     | 7120.31  | 6645.72        | 6235.99    | -2302.14  | 1808976.10        | 14294687.98        | 39°21'47.0733"N | 80°24'13.0788"W | 6647.36           | 339.737         | 0.33          | 0.03                 | 0.33                |          |
| 13561.00 | 90.280          | 341.430     | 7119.77  | 6740.72        | 6326.04    | -2332.39  | 1808945.86        | 14294778.00        | 39°21'47.9653"N | 80°24'13.4564"W | 6742.32           | 339.761         | 0.09          | -0.09                | 0.00                |          |



# Actual Wellpath Report

Bream Unit 1H AWP Proj: 22258'  
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| REFERENCE WELLPATH IDENTIFICATION |                              |          |                   |
|-----------------------------------|------------------------------|----------|-------------------|
| Operator                          | ANTERO RESOURCES CORPORATION | Well     | Bream Unit 1H     |
| Field                             | Harrison                     | UWI      | 47-033-06119-0000 |
| Facility                          | Flanigan Pad                 | Wellbore | Bream Unit 1H AWP |
| Slot                              | Slot C                       |          |                   |

| WELLPATH DATA (243 stations) |                    |                |             |                   |               |              |                      |                       |                 |                 |                      |                    |                  |                         |                        |          |
|------------------------------|--------------------|----------------|-------------|-------------------|---------------|--------------|----------------------|-----------------------|-----------------|-----------------|----------------------|--------------------|------------------|-------------------------|------------------------|----------|
| MD<br>[ft]                   | Inclination<br>[°] | Azimuth<br>[°] | TVD<br>[ft] | Vert Sect<br>[ft] | North<br>[ft] | East<br>[ft] | Grid East<br>[US ft] | Grid North<br>[US ft] | Latitude        | Longitude       | Closure Dist<br>[ft] | Closure Dir<br>[°] | DLS<br>[°/100ft] | Build Rate<br>[°/100ft] | Turn Rate<br>[°/100ft] | Comments |
| 13655.00                     | 90.280             | 341.540        | 7119.31     | 6834.71           | 6415.17       | -2362.24     | 1808916.02           | 14294867.10           | 39°21'48.8482"N | 80°24'13.8290"W | 6836.27              | 339.785            | 0.12             | 0.00                    | 0.12                   |          |
| 13750.00                     | 90.520             | 341.710        | 7118.65     | 6929.70           | 6505.33       | -2392.19     | 1808886.08           | 14294957.22           | 39°21'49.7412"N | 80°24'14.2027"W | 6931.22              | 339.810            | 0.31             | 0.25                    | 0.18                   |          |
| 13845.00                     | 90.280             | 341.370        | 7117.99     | 7024.70           | 6595.44       | -2422.27     | 1808856.01           | 14295047.30           | 39°21'50.6337"N | 80°24'14.5781"W | 7026.18              | 339.834            | 0.44             | -0.25                   | -0.36                  |          |
| 13939.00                     | 90.340             | 341.730        | 7117.48     | 7118.69           | 6684.60       | -2452.02     | 1808826.28           | 14295136.43           | 39°21'51.5169"N | 80°24'14.9493"W | 7120.13              | 339.856            | 0.39             | 0.06                    | 0.38                   |          |
| 14034.00                     | 90.120             | 341.400        | 7117.10     | 7213.69           | 6774.73       | -2482.06     | 1808796.25           | 14295226.52           | 39°21'52.4096"N | 80°24'15.3243"W | 7215.09              | 339.879            | 0.42             | -0.23                   | -0.35                  |          |
| 14129.00                     | 90.150             | 341.550        | 7116.87     | 7308.68           | 6864.81       | -2512.24     | 1808766.07           | 14295316.56           | 39°21'53.3019"N | 80°24'15.7010"W | 7310.06              | 339.899            | 0.16             | 0.03                    | 0.16                   |          |
| 14223.00                     | 90.430             | 342.040        | 7116.40     | 7402.67           | 6954.10       | -2541.61     | 1808736.72           | 14295405.83           | 39°21'54.1863"N | 80°24'16.0674"W | 7404.00              | 339.923            | 0.60             | 0.30                    | 0.52                   |          |
| 14318.00                     | 90.120             | 341.380        | 7115.94     | 7497.66           | 7044.30       | -2571.42     | 1808706.92           | 14295495.99           | 39°21'55.0797"N | 80°24'16.4394"W | 7498.96              | 339.946            | 0.77             | -0.33                   | -0.69                  |          |
| 14413.00                     | 89.230             | 340.670        | 7116.48     | 7592.66           | 7134.13       | -2602.31     | 1808676.04           | 14295585.79           | 39°21'55.9696"N | 80°24'16.8251"W | 7593.94              | 339.960            | 1.20             | -0.94                   | -0.75                  |          |
| 14507.00                     | 90.030             | 341.160        | 7117.09     | 7686.66           | 7222.96       | -2633.04     | 1808645.32           | 14295674.59           | 39°21'56.8495"N | 80°24'17.2090"W | 7687.92              | 339.971            | 1.00             | 0.85                    | 0.52                   |          |
| 14602.00                     | 90.400             | 341.780        | 7116.73     | 7781.65           | 7313.04       | -2663.24     | 1808615.14           | 14295764.63           | 39°21'57.7417"N | 80°24'17.5858"W | 7782.89              | 339.990            | 0.76             | 0.39                    | 0.65                   |          |
| 14696.00                     | 89.780             | 340.990        | 7116.58     | 7875.65           | 7402.12       | -2693.24     | 1808585.14           | 14295853.68           | 39°21'58.6241"N | 80°24'17.9604"W | 7876.86              | 340.006            | 1.07             | -0.66                   | -0.84                  |          |
| 14791.00                     | 89.940             | 341.210        | 7116.82     | 7970.65           | 7492.00       | -2724.01     | 1808554.38           | 14295943.52           | 39°21'59.5144"N | 80°24'18.3446"W | 7971.84              | 340.019            | 0.29             | 0.17                    | 0.23                   |          |
| 14886.00                     | 90.150             | 341.460        | 7116.74     | 8065.65           | 7582.00       | -2754.42     | 1808523.99           | 14296033.49           | 39°22'0.4059"N  | 80°24'18.7242"W | 8066.82              | 340.035            | 0.34             | 0.22                    | 0.26                   |          |
| 14981.00                     | 90.220             | 341.240        | 7116.43     | 8160.64           | 7672.01       | -2784.80     | 1808493.62           | 14296123.47           | 39°22'1.2975"N  | 80°24'19.1034"W | 8161.79              | 340.050            | 0.24             | 0.07                    | -0.23                  |          |
| 15075.00                     | 90.060             | 341.470        | 7116.20     | 8254.64           | 7761.08       | -2814.85     | 1808463.58           | 14296212.51           | 39°22'2.1798"N  | 80°24'19.4786"W | 8255.77              | 340.065            | 0.30             | -0.17                   | 0.24                   |          |
| 15170.00                     | 90.340             | 341.670        | 7115.87     | 8349.64           | 7851.20       | -2844.88     | 1808433.56           | 14296302.60           | 39°22'3.0725"N  | 80°24'19.8534"W | 8350.73              | 340.082            | 0.36             | 0.29                    | 0.21                   |          |
| 15265.00                     | 90.370             | 341.800        | 7115.28     | 8444.63           | 7941.41       | -2874.65     | 1808403.79           | 14296392.78           | 39°22'3.9660"N  | 80°24'20.2250"W | 8445.69              | 340.101            | 0.14             | 0.03                    | 0.14                   |          |
| 15359.00                     | 90.550             | 342.020        | 7114.53     | 8538.61           | 8030.77       | -2903.84     | 1808374.62           | 14296482.10           | 39°22'4.8510"N  | 80°24'20.5891"W | 8539.64              | 340.121            | 0.30             | 0.19                    | 0.23                   |          |
| 15454.00                     | 90.220             | 341.400        | 7113.89     | 8633.60           | 8120.96       | -2933.65     | 1808344.82           | 14296572.26           | 39°22'5.7444"N  | 80°24'20.9611"W | 8634.60              | 340.138            | 0.74             | -0.35                   | -0.65                  |          |
| 15549.00                     | 89.910             | 341.380        | 7113.78     | 8728.60           | 8211.00       | -2963.97     | 1808314.51           | 14296662.26           | 39°22'6.6362"N  | 80°24'21.3396"W | 8729.58              | 340.152            | 0.33             | -0.33                   | -0.02                  |          |
| 15644.00                     | 90.650             | 342.030        | 7113.32     | 8823.59           | 8301.19       | -2993.79     | 1808284.70           | 14296752.42           | 39°22'7.5296"N  | 80°24'21.7117"W | 8824.54              | 340.168            | 1.04             | 0.78                    | 0.68                   |          |
| 15738.00                     | 90.950             | 342.230        | 7112.01     | 8917.56           | 8390.65       | -3022.63     | 1808255.87           | 14296841.85           | 39°22'8.4156"N  | 80°24'22.0715"W | 8918.48              | 340.189            | 0.38             | 0.32                    | 0.21                   |          |
| 15833.00                     | 90.830             | 342.190        | 7110.53     | 9012.53           | 8481.09       | -3051.66     | 1808226.86           | 14296932.26           | 39°22'9.3114"N  | 80°24'22.4334"W | 9013.41              | 340.210            | 0.13             | -0.13                   | -0.04                  |          |
| 15927.00                     | 90.710             | 341.990        | 7109.27     | 9106.51           | 8570.53       | -3080.56     | 1808197.97           | 14297021.66           | 39°22'10.1972"N | 80°24'22.7940"W | 9107.35              | 340.230            | 0.25             | -0.13                   | -0.21                  |          |
| 16022.00                     | 90.310             | 339.300        | 7108.42     | 9201.49           | 8660.15       | -3112.04     | 1808166.50           | 14297111.25           | 39°22'11.0850"N | 80°24'23.1873"W | 9202.34              | 340.234            | 2.86             | -0.42                   | -2.83                  |          |
| 16117.00                     | 90.590             | 339.590        | 7107.68     | 9296.45           | 8749.10       | -3145.39     | 1808133.15           | 14297200.16           | 39°22'11.9662"N | 80°24'23.6046"W | 9297.32              | 340.226            | 0.42             | 0.29                    | 0.31                   |          |
| 16211.00                     | 91.230             | 339.420        | 7106.18     | 9390.41           | 8837.14       | -3178.30     | 1808100.26           | 14297288.17           | 39°22'12.8385"N | 80°24'24.0162"W | 9391.30              | 340.219            | 0.70             | 0.68                    | -0.18                  |          |
| 16306.00                     | 91.940             | 338.880        | 7103.55     | 9485.32           | 8925.88       | -3212.10     | 1808066.47           | 14297376.88           | 39°22'13.7178"N | 80°24'24.4392"W | 9486.25              | 340.208            | 0.94             | 0.75                    | -0.57                  |          |
| 16401.00                     | 92.000             | 338.390        | 7100.29     | 9580.18           | 9014.30       | -3246.69     | 1808031.90           | 14297465.27           | 39°22'14.5939"N | 80°24'24.8722"W | 9581.16              | 340.192            | 0.52             | 0.06                    | -0.52                  |          |

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# Actual Wellpath Report

Bream Unit 1H AWP Proj: 22258'

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## REFERENCE WELLPATH IDENTIFICATION

|          |                              |          |                   |
|----------|------------------------------|----------|-------------------|
| Operator | ANTERO RESOURCES CORPORATION | Well     | Bream Unit 1H     |
| Field    | Harrison                     | UWI      | 47-033-06119-0000 |
| Facility | Flanigan Pad                 | Wellbore | Bream Unit 1H AWP |
| Slot     | Slot C                       |          |                   |

## WELLPATH DATA (243 stations)

| MD<br>[ft] | Inclination<br>[°] | Azimuth<br>[°] | TVD<br>[ft] | Vert Sect<br>[ft] | North<br>[ft] | East<br>[ft] | Grid East<br>[US ft] | Grid North<br>[US ft] | Latitude        | Longitude       | Closure Dist<br>[ft] | Closure Dir<br>[°] | DLS<br>[°/100ft] | Build Rate<br>[°/100ft] | Turn Rate<br>[°/100ft] | Comments |
|------------|--------------------|----------------|-------------|-------------------|---------------|--------------|----------------------|-----------------------|-----------------|-----------------|----------------------|--------------------|------------------|-------------------------|------------------------|----------|
| 16495.00   | 91.570             | 340.370        | 7097.36     | 9674.10           | 9102.23       | -3279.78     | 1807998.82           | 14297553.17           | 39°22'15.4651"N | 80°24'25.2861"W | 9675.10              | 340.185            | 2.15             | -0.46                   | 2.11                   |          |
| 16590.00   | 91.850             | 340.560        | 7094.53     | 9769.05           | 9191.72       | -3311.53     | 1807967.08           | 14297642.62           | 39°22'16.3517"N | 80°24'25.6829"W | 9770.06              | 340.187            | 0.36             | 0.29                    | 0.20                   |          |
| 16685.00   | 91.820             | 340.910        | 7091.48     | 9864.00           | 9281.36       | -3342.86     | 1807935.77           | 14297732.23           | 39°22'17.2396"N | 80°24'26.0743"W | 9865.00              | 340.193            | 0.37             | -0.03                   | 0.37                   |          |
| 16779.00   | 91.910             | 340.760        | 7088.42     | 9957.95           | 9370.10       | -3373.70     | 1807904.93           | 14297820.94           | 39°22'18.1187"N | 80°24'26.4596"W | 9958.95              | 340.199            | 0.19             | 0.10                    | -0.16                  |          |
| 16874.00   | 92.160             | 340.480        | 7085.05     | 10052.89          | 9459.66       | -3405.20     | 1807873.44           | 14297910.46           | 39°22'19.0059"N | 80°24'26.8533"W | 10053.88             | 340.203            | 0.39             | 0.26                    | -0.29                  |          |
| 16968.00   | 92.160             | 340.350        | 7081.51     | 10146.81          | 9548.16       | -3436.69     | 1807841.97           | 14297998.93           | 39°22'19.8826"N | 80°24'27.2468"W | 10147.82             | 340.205            | 0.14             | 0.00                    | -0.14                  |          |
| 17063.00   | 92.150             | 340.600        | 7077.94     | 10241.74          | 9637.63       | -3468.42     | 1807810.25           | 14298088.37           | 39°22'20.7689"N | 80°24'27.6434"W | 10242.75             | 340.207            | 0.26             | -0.01                   | 0.26                   |          |
| 17158.00   | 92.160             | 340.480        | 7074.36     | 10336.67          | 9727.14       | -3500.05     | 1807778.64           | 14298177.85           | 39°22'21.6556"N | 80°24'28.0386"W | 10337.68             | 340.210            | 0.13             | 0.01                    | -0.13                  |          |
| 17252.00   | 92.340             | 340.830        | 7070.67     | 10430.60          | 9815.77       | -3531.16     | 1807747.53           | 14298266.44           | 39°22'22.5336"N | 80°24'28.4274"W | 10431.60             | 340.214            | 0.42             | 0.19                    | 0.37                   |          |
| 17347.00   | 92.340             | 340.590        | 7066.79     | 10525.52          | 9905.36       | -3562.52     | 1807716.19           | 14298356.00           | 39°22'23.4211"N | 80°24'28.8192"W | 10526.52             | 340.219            | 0.25             | 0.00                    | -0.25                  |          |
| 17442.00   | 92.400             | 340.760        | 7062.87     | 10620.43          | 9994.93       | -3593.93     | 1807684.79           | 14298445.54           | 39°22'24.3084"N | 80°24'29.2117"W | 10621.44             | 340.223            | 0.19             | 0.06                    | 0.18                   |          |
| 17536.00   | 92.340             | 340.560        | 7058.98     | 10714.35          | 10083.55      | -3625.03     | 1807653.70           | 14298534.12           | 39°22'25.1862"N | 80°24'29.6004"W | 10715.35             | 340.227            | 0.22             | -0.06                   | -0.21                  |          |
| 17631.00   | 92.190             | 340.980        | 7055.22     | 10809.28          | 10173.18      | -3656.30     | 1807622.44           | 14298623.72           | 39°22'26.0741"N | 80°24'29.9910"W | 10810.28             | 340.231            | 0.47             | -0.16                   | 0.44                   |          |
| 17725.00   | 92.310             | 340.880        | 7051.53     | 10903.20          | 10261.95      | -3686.98     | 1807591.77           | 14298712.46           | 39°22'26.9535"N | 80°24'30.3744"W | 10904.20             | 340.237            | 0.17             | 0.13                    | -0.11                  |          |
| 17820.00   | 92.160             | 340.840        | 7047.83     | 10998.13          | 10351.63      | -3718.11     | 1807560.65           | 14298802.11           | 39°22'27.8418"N | 80°24'30.7632"W | 10999.12             | 340.243            | 0.16             | -0.16                   | -0.04                  |          |
| 17914.00   | 92.370             | 340.770        | 7044.11     | 11092.06          | 10440.34      | -3748.99     | 1807529.78           | 14298890.78           | 39°22'28.7205"N | 80°24'31.1490"W | 11093.04             | 340.247            | 0.24             | 0.22                    | -0.07                  |          |
| 18009.00   | 92.250             | 340.840        | 7040.29     | 11186.98          | 10529.98      | -3780.20     | 1807498.58           | 14298980.39           | 39°22'29.6085"N | 80°24'31.5390"W | 11187.96             | 340.252            | 0.15             | -0.13                   | 0.07                   |          |
| 18103.00   | 92.680             | 340.850        | 7036.24     | 11280.89          | 10618.69      | -3811.01     | 1807467.78           | 14299069.07           | 39°22'30.4873"N | 80°24'31.9240"W | 11281.87             | 340.257            | 0.46             | 0.46                    | 0.01                   |          |
| 18197.00   | 92.620             | 340.710        | 7031.90     | 11374.79          | 10707.36      | -3841.93     | 1807436.88           | 14299157.70           | 39°22'31.3656"N | 80°24'32.3102"W | 11375.76             | 340.261            | 0.16             | -0.06                   | -0.15                  |          |
| 18292.00   | 92.680             | 340.780        | 7027.50     | 11469.69          | 10796.95      | -3873.22     | 1807405.60           | 14299247.26           | 39°22'32.2531"N | 80°24'32.7012"W | 11470.66             | 340.265            | 0.10             | 0.06                    | 0.07                   |          |
| 18386.00   | 92.620             | 340.680        | 7023.16     | 11563.59          | 10885.59      | -3904.21     | 1807374.62           | 14299335.87           | 39°22'33.1312"N | 80°24'33.0885"W | 11564.55             | 340.269            | 0.12             | -0.06                   | -0.11                  |          |
| 18481.00   | 92.620             | 340.660        | 7018.82     | 11658.49          | 10975.14      | -3935.62     | 1807343.22           | 14299425.38           | 39°22'34.0183"N | 80°24'33.4810"W | 11659.45             | 340.272            | 0.02             | 0.00                    | -0.02                  |          |
| 18575.00   | 92.680             | 341.020        | 7014.47     | 11752.38          | 11063.84      | -3966.44     | 1807312.41           | 14299514.05           | 39°22'34.8969"N | 80°24'33.8661"W | 11753.35             | 340.277            | 0.39             | 0.06                    | 0.38                   |          |
| 18670.00   | 92.650             | 340.850        | 7010.05     | 11847.28          | 11153.53      | -3997.44     | 1807281.43           | 14299603.71           | 39°22'35.7853"N | 80°24'34.2533"W | 11848.24             | 340.282            | 0.18             | -0.03                   | -0.18                  |          |
| 18765.00   | 92.770             | 340.880        | 7005.56     | 11942.18          | 11243.18      | -4028.54     | 1807250.33           | 14299693.33           | 39°22'36.6734"N | 80°24'34.6419"W | 11943.13             | 340.287            | 0.13             | 0.13                    | 0.03                   |          |
| 18859.00   | 91.880             | 339.310        | 7001.75     | 12036.08          | 11331.49      | -4060.52     | 1807218.37           | 14299781.60           | 39°22'37.5482"N | 80°24'35.0418"W | 12037.04             | 340.285            | 1.92             | -0.95                   | -1.67                  |          |
| 18954.00   | 91.820             | 340.500        | 6998.68     | 12131.01          | 11420.66      | -4093.14     | 1807185.76           | 14299870.74           | 39°22'38.4316"N | 80°24'35.4498"W | 12131.99             | 340.282            | 1.25             | -0.06                   | 1.25                   |          |
| 19049.00   | 91.850             | 340.870        | 6995.64     | 12225.96          | 11510.26      | -4124.55     | 1807154.36           | 14299960.31           | 39°22'39.3193"N | 80°24'35.8423"W | 12226.94             | 340.286            | 0.39             | 0.03                    | 0.39                   |          |
| 19143.00   | 91.850             | 339.540        | 6992.60     | 12319.90          | 11598.66      | -4156.36     | 1807122.56           | 14300048.68           | 39°22'40.1950"N | 80°24'36.2401"W | 12320.89             | 340.285            | 1.41             | 0.00                    | -1.41                  |          |
| 19238.00   | 91.600             | 340.680        | 6989.74     | 12414.85          | 11687.95      | -4188.67     | 1807090.26           | 14300137.93           | 39°22'41.0796"N | 80°24'36.6440"W | 12415.84             | 340.284            | 1.23             | -0.26                   | 1.20                   |          |

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# Actual Wellpath Report

Bream Unit 1H AWP Proj: 22258'

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## REFERENCE WELLPATH IDENTIFICATION

|          |                              |          |                   |
|----------|------------------------------|----------|-------------------|
| Operator | ANTERO RESOURCES CORPORATION | Well     | Bream Unit 1H     |
| Field    | Harrison                     | UWI      | 47-033-06119-0000 |
| Facility | Flanigan Pad                 | Wellbore | Bream Unit 1H AWB |
| Slot     | Slot C                       |          |                   |

## WELLPATH DATA (243 stations)

| MD<br>[ft] | Inclination<br>[°] | Azimuth<br>[°] | TVD<br>[ft] | Vert Sect<br>[ft] | North<br>[ft] | East<br>[ft] | Grid East<br>[US ft] | Grid North<br>[US ft] | Latitude        | Longitude       | Closure Dist<br>[ft] | Closure Dir<br>[°] | DLS<br>[°/100ft] | Build Rate<br>[°/100ft] | Turn Rate<br>[°/100ft] | Comments |
|------------|--------------------|----------------|-------------|-------------------|---------------|--------------|----------------------|-----------------------|-----------------|-----------------|----------------------|--------------------|------------------|-------------------------|------------------------|----------|
| 19333.00   | 91.820             | 340.680        | 6986.91     | 12509.80          | 11777.56      | -4220.09     | 1807058.86           | 14300227.51           | 39°22'41.9673"N | 80°24'37.0366"W | 12510.80             | 340.287            | 0.23             | 0.23                    | 0.00                   |          |
| 19427.00   | 91.080             | 340.520        | 6984.53     | 12603.77          | 11866.20      | -4251.30     | 1807027.66           | 14300316.11           | 39°22'42.8453"N | 80°24'37.4267"W | 12604.77             | 340.289            | 0.81             | -0.79                   | -0.17                  |          |
| 19522.00   | 91.110             | 340.630        | 6982.71     | 12698.75          | 11955.77      | -4282.89     | 1806996.08           | 14300405.65           | 39°22'43.7326"N | 80°24'37.8215"W | 12699.75             | 340.291            | 0.12             | 0.03                    | 0.12                   |          |
| 19617.00   | 90.920             | 340.510        | 6981.03     | 12793.73          | 12045.35      | -4314.48     | 1806964.50           | 14300495.20           | 39°22'44.6200"N | 80°24'38.2165"W | 12794.73             | 340.293            | 0.24             | -0.20                   | -0.13                  |          |
| 19711.00   | 90.920             | 340.450        | 6979.52     | 12887.71          | 12133.93      | -4345.89     | 1806933.10           | 14300583.75           | 39°22'45.4975"N | 80°24'38.6090"W | 12888.72             | 340.295            | 0.06             | 0.00                    | -0.06                  |          |
| 19806.00   | 90.460             | 340.570        | 6978.38     | 12982.70          | 12223.48      | -4377.58     | 1806901.42           | 14300673.27           | 39°22'46.3846"N | 80°24'39.0052"W | 12983.71             | 340.296            | 0.50             | -0.48                   | 0.13                   |          |
| 19900.00   | 90.400             | 340.660        | 6977.67     | 13076.70          | 12312.15      | -4408.78     | 1806870.23           | 14300761.90           | 39°22'47.2630"N | 80°24'39.3951"W | 13077.71             | 340.298            | 0.12             | -0.06                   | 0.10                   |          |
| 19995.00   | 90.490             | 340.300        | 6976.93     | 13171.69          | 12401.69      | -4440.52     | 1806838.50           | 14300851.41           | 39°22'48.1500"N | 80°24'39.7919"W | 13172.70             | 340.300            | 0.39             | 0.09                    | -0.38                  |          |
| 20089.00   | 90.430             | 340.670        | 6976.18     | 13265.68          | 12490.29      | -4471.92     | 1806807.11           | 14300939.97           | 39°22'49.0276"N | 80°24'40.1844"W | 13266.70             | 340.301            | 0.40             | -0.06                   | 0.39                   |          |
| 20184.00   | 90.400             | 340.580        | 6975.49     | 13360.68          | 12579.90      | -4503.44     | 1806775.61           | 14301029.56           | 39°22'49.9154"N | 80°24'40.5783"W | 13361.70             | 340.303            | 0.10             | -0.03                   | -0.09                  |          |
| 20278.00   | 90.460             | 341.240        | 6974.79     | 13454.68          | 12668.73      | -4534.18     | 1806744.88           | 14301118.35           | 39°22'50.7953"N | 80°24'40.9624"W | 13455.69             | 340.308            | 0.71             | 0.06                    | 0.70                   |          |
| 20373.00   | 90.460             | 341.080        | 6974.02     | 13549.67          | 12758.64      | -4564.86     | 1806714.21           | 14301208.23           | 39°22'51.6858"N | 80°24'41.3456"W | 13550.67             | 340.314            | 0.17             | 0.00                    | -0.17                  |          |
| 20468.00   | 89.720             | 341.670        | 6973.87     | 13644.67          | 12848.66      | -4595.20     | 1806683.89           | 14301298.22           | 39°22'52.5775"N | 80°24'41.7246"W | 13645.66             | 340.321            | 1.00             | -0.78                   | 0.62                   |          |
| 20562.00   | 89.660             | 341.680        | 6974.38     | 13738.66          | 12937.89      | -4624.75     | 1806654.34           | 14301387.41           | 39°22'53.4613"N | 80°24'42.0935"W | 13739.63             | 340.330            | 0.06             | -0.06                   | 0.01                   |          |
| 20657.00   | 89.110             | 341.990        | 6975.40     | 13833.65          | 13028.15      | -4654.37     | 1806624.74           | 14301477.64           | 39°22'54.3553"N | 80°24'42.4632"W | 13834.59             | 340.341            | 0.66             | -0.58                   | 0.33                   |          |
| 20751.00   | 89.050             | 341.690        | 6976.91     | 13927.62          | 13117.46      | -4683.66     | 1806595.46           | 14301566.91           | 39°22'55.2399"N | 80°24'42.8288"W | 13928.55             | 340.351            | 0.33             | -0.06                   | -0.32                  |          |
| 20846.00   | 89.010             | 341.890        | 6978.52     | 14022.60          | 13207.69      | -4713.34     | 1806565.78           | 14301657.11           | 39°22'56.1335"N | 80°24'43.1993"W | 14023.50             | 340.360            | 0.21             | -0.04                   | 0.21                   |          |
| 20941.00   | 89.010             | 341.390        | 6980.16     | 14117.58          | 13297.84      | -4743.26     | 1806535.88           | 14301747.23           | 39°22'57.0265"N | 80°24'43.5729"W | 14118.47             | 340.369            | 0.53             | 0.00                    | -0.53                  |          |
| 21035.00   | 89.050             | 341.480        | 6981.75     | 14211.57          | 13386.93      | -4773.19     | 1806505.96           | 14301836.29           | 39°22'57.9089"N | 80°24'43.9466"W | 14212.44             | 340.376            | 0.10             | 0.04                    | 0.10                   |          |
| 21130.00   | 88.950             | 341.560        | 6983.41     | 14306.55          | 13477.02      | -4803.29     | 1806475.87           | 14301926.34           | 39°22'58.8012"N | 80°24'44.3225"W | 14307.40             | 340.384            | 0.13             | -0.11                   | 0.08                   |          |
| 21225.00   | 89.010             | 341.610        | 6985.10     | 14401.53          | 13567.14      | -4833.30     | 1806445.87           | 14302016.43           | 39°22'59.6939"N | 80°24'44.6972"W | 14402.37             | 340.392            | 0.08             | 0.06                    | 0.05                   |          |
| 21319.00   | 88.860             | 341.540        | 6986.85     | 14495.51          | 13656.31      | -4863.00     | 1806416.18           | 14302105.57           | 39°23'0.5771"N  | 80°24'45.0681"W | 14496.33             | 340.399            | 0.18             | -0.16                   | -0.07                  |          |
| 21414.00   | 88.890             | 341.470        | 6988.71     | 14590.48          | 13746.39      | -4893.13     | 1806386.06           | 14302195.61           | 39°23'1.4692"N  | 80°24'45.4444"W | 14591.29             | 340.406            | 0.08             | 0.03                    | -0.07                  |          |
| 21509.00   | 89.010             | 341.720        | 6990.46     | 14685.46          | 13836.51      | -4923.12     | 1806356.08           | 14302285.70           | 39°23'2.3619"N  | 80°24'45.8188"W | 14686.26             | 340.414            | 0.29             | 0.13                    | 0.26                   |          |
| 21603.00   | 88.860             | 341.600        | 6992.20     | 14779.44          | 13925.72      | -4952.70     | 1806326.52           | 14302374.88           | 39°23'3.2455"N  | 80°24'46.1881"W | 14780.22             | 340.422            | 0.20             | -0.16                   | -0.13                  |          |
| 21698.00   | 88.890             | 341.500        | 6994.07     | 14874.42          | 14015.82      | -4982.76     | 1806296.47           | 14302464.94           | 39°23'4.1379"N  | 80°24'46.5634"W | 14875.18             | 340.429            | 0.11             | 0.03                    | -0.11                  |          |
| 21793.00   | 88.800             | 341.390        | 6995.98     | 14969.40          | 14105.86      | -5012.98     | 1806266.26           | 14302554.95           | 39°23'5.0298"N  | 80°24'46.9409"W | 14970.15             | 340.436            | 0.15             | -0.09                   | -0.12                  |          |
| 21888.00   | 88.890             | 341.660        | 6997.90     | 15064.37          | 14195.95      | -5043.08     | 1806236.17           | 14302645.01           | 39°23'5.9221"N  | 80°24'47.3167"W | 15065.11             | 340.443            | 0.30             | 0.09                    | 0.28                   |          |
| 21982.00   | 89.420             | 342.430        | 6999.28     | 15158.35          | 14285.36      | -5072.05     | 1806207.21           | 14302734.39           | 39°23'6.8076"N  | 80°24'47.6783"W | 15159.06             | 340.452            | 0.99             | 0.56                    | 0.82                   |          |
| 22077.00   | 89.320             | 341.920        | 7000.33     | 15253.32          | 14375.79      | -5101.13     | 1806178.14           | 14302824.79           | 39°23'7.7033"N  | 80°24'48.0412"W | 15254.02             | 340.463            | 0.55             | -0.11                   | -0.54                  |          |

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# Actual Wellpath Report

Bream Unit 1H AWP Proj: 22258'

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## REFERENCE WELLPATH IDENTIFICATION

|          |                              |          |                   |
|----------|------------------------------|----------|-------------------|
| Operator | ANTERO RESOURCES CORPORATION | Well     | Bream Unit 1H     |
| Field    | Harrison                     | UWI      | 47-033-06119-0000 |
| Facility | Flanigan Pad                 | Wellbore | Bream Unit 1H AWB |
| Slot     | Slot C                       |          |                   |

## WELLPATH DATA (243 stations) † = interpolated, ‡ = extrapolated station

| MD [ft]   | Inclination [°] | Azimuth [°] | TVD [ft] | Vert Sect [ft] | North [ft] | East [ft] | Grid East [US ft] | Grid North [US ft] | Latitude       | Longitude       | Closure Dist [ft] | Closure Dir [°] | DLS [°/100ft] | Build Rate [°/100ft] | Turn Rate [°/100ft] | Comments                   |
|-----------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|----------------|-----------------|-------------------|-----------------|---------------|----------------------|---------------------|----------------------------|
| 22172.00  | 89.170          | 341.670     | 7001.58  | 15348.30       | 14466.03   | -5130.81  | 1806148.47        | 14302914.99        | 39°23'8.5970"N | 80°24'48.4117"W | 15348.98          | 340.471         | 0.31          | -0.16                | -0.26               |                            |
| 22233.00  | 89.110          | 341.740     | 7002.50  | 15409.29       | 14523.94   | -5149.95  | 1806129.33        | 14302972.88        | 39°23'9.1706"N | 80°24'48.6507"W | 15409.96          | 340.476         | 0.15          | -0.10                | 0.11                |                            |
| 22258.00‡ | 89.110          | 341.740     | 7002.88  | 15434.29       | 14547.68   | -5157.79  | 1806121.50        | 14302996.61        | 39°23'9.4057"N | 80°24'48.7485"W | 15434.95          | 340.478         | 0.00          | 0.00                 | 0.00                | Projected MD at TD: 22258' |

## DIRECTIONAL DIFFICULTY INDEX

|                                          |                                                              |  |  |                           |                                                   |  |  |
|------------------------------------------|--------------------------------------------------------------|--|--|---------------------------|---------------------------------------------------|--|--|
| Directional Difficulty Index @ TD = 6.96 |                                                              |  |  | Reference: IADC/SPE 59196 |                                                   |  |  |
| Values                                   | Wellpath characterized as:                                   |  |  | Values                    | Wellpath characterized as:                        |  |  |
| < 6.0                                    | Relatively short or simple profiles with low tortuosity      |  |  | 6.4-6.8                   | Longer with relatively tortuous well paths        |  |  |
| < 6.0-6.4                                | Shorter with high tortuosity or longer with lower tortuosity |  |  | > 6.8                     | Long tortuous profiles, high degree of difficulty |  |  |

## HOLE & CASING SECTIONS - Ref Wellbore: Bream Unit 1H AWB Ref Wellpath: Bream Unit 1H AWP Proj: 22258'

| 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         | 125.50      | 100.00        | 25.50          | 125.50       | 0.00           | 0.00           | -0.25        | 0.40         |
| 17 1/2in Open Hole          | 125.50        | 543.00      | 417.50        | 125.50         | 542.99       | -0.25          | 0.40           | -1.34        | 2.25         |
| 13 3/8in Casing Surface     | 25.50         | 523.00      | 497.50        | 25.50          | 522.99       | 0.00           | 0.00           | -1.25        | 2.21         |
| 12 1/4in Open Hole          | 543.00        | 3538.00     | 2995.00       | 542.99         | 3532.57      | -1.34          | 2.25           | -59.73       | -137.76      |
| 9 5/8in Casing Intermediate | 25.50         | 3508.00     | 3482.50       | 25.50          | 3502.57      | 0.00           | 0.00           | -59.80       | -137.51      |
| 8 3/4in Open Hole           | 3538.00       | 6414.00     | 2876.00       | 3532.57        | 6408.25      | -59.73         | -137.76        | -61.92       | -122.78      |
| 8 1/2in Open Hole           | 6414.00       | 22258.00    | 15844.00      | 6408.25        | 7002.88      | -61.92         | -122.78        | 14547.68     | -5157.79     |
| 5 1/2in Casing Production   | 25.50         | 22238.00    | 22212.50      | 25.50          | 7002.57      | 0.00           | 0.00           | 14528.69     | -5151.52     |

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# Actual Wellpath Report

Bream Unit 1H AWP Proj: 22258'

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## REFERENCE WELLPATH IDENTIFICATION

|          |                              |          |                   |
|----------|------------------------------|----------|-------------------|
| Operator | ANTERO RESOURCES CORPORATION | Well     | Bream Unit 1H     |
| Field    | Harrison                     | UWI      | 47-033-06119-0000 |
| Facility | Flanigan Pad                 | Wellbore | Bream Unit 1H AWB |
| Slot     | Slot C                       |          |                   |

## TARGETS

| Name                    | TVD<br>[ft] | North<br>[ft] | East<br>[ft] | Grid East<br>[US ft] | Grid North<br>[US ft] | Latitude        | Longitude       | Shape |
|-------------------------|-------------|---------------|--------------|----------------------|-----------------------|-----------------|-----------------|-------|
| Bream Unit 1H POE Rev-2 | 7010.00     | 305.29        | -260.51      | 1811016.98           | 14288759.47           | 39°20'48.3239"N | 80°23'47.5900"W | point |
| Bream Unit 1H POE Rev-1 | 7019.50     | 305.29        | -260.51      | 1811016.98           | 14288759.47           | 39°20'48.3239"N | 80°23'47.5900"W | point |
| Bream Unit 1H POE Rev-3 | 7030.00     | 305.29        | -260.51      | 1811016.98           | 14288759.47           | 39°20'48.3239"N | 80°23'47.5900"W | point |
| Bream Unit 1H BHL Rev-1 | 7044.50     | 14544.02      | -5161.67     | 1806117.62           | 14302992.95           | 39°23'9.3698"N  | 80°24'48.7983"W | point |
| Bream Unit 1H BHL Rev-2 | 7060.00     | 14544.02      | -5161.67     | 1806117.62           | 14302992.95           | 39°23'9.3698"N  | 80°24'48.7983"W | point |
| Bream Unit 1H LP Rev-2  | 7060.00     | 539.14        | -341.00      | 1810936.52           | 14288993.23           | 39°20'50.6404"N | 80°23'48.5947"W | point |
| Bream Unit 1H BHL Rev-3 | 7090.00     | 14544.02      | -5161.67     | 1806117.62           | 14302992.95           | 39°23'9.3698"N  | 80°24'48.7983"W | point |
| Bream Unit 1H LP Rev-3  | 7090.00     | 560.41        | -348.32      | 1810929.20           | 14289014.49           | 39°20'50.8511"N | 80°23'48.6861"W | point |



# Actual Wellpath Report

Bream Unit 1H AWP Proj: 22258'

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## REFERENCE WELLPATH IDENTIFICATION

|          |                              |          |                   |
|----------|------------------------------|----------|-------------------|
| Operator | ANTERO RESOURCES CORPORATION | Well     | Bream Unit 1H     |
| Field    | Harrison                     | UWI      | 47-033-06119-0000 |
| Facility | Flanigan Pad                 | Wellbore | Bream Unit 1H AWB |
| Slot     | Slot C                       |          |                   |

## TARGETS

| Name                            | TVD<br>[ft] | North<br>[ft] | East<br>[ft] | Grid East<br>[US ft] | Grid North<br>[US ft] | Latitude        | Longitude       | Shape     |
|---------------------------------|-------------|---------------|--------------|----------------------|-----------------------|-----------------|-----------------|-----------|
| Bream Unit 1H 50' L/R Hard Line | 7500.00     | 7424.66       | -2711.09     | 1808567.30           | 14295876.21           | 39°21'58.8480"N | 80°24'18.1857"W | rectangle |
| 2D Rectangle: 15058.6 x 100.    |             |               |              |                      |                       |                 |                 |           |

## WELLPATH COMPOSITION - Ref Wellbore: Bream Unit 1H AWB Ref Wellpath: Bream Unit 1H AWP Proj: 22258'

| Start MD<br>[ft] | End MD<br>[ft] | Positional Uncertainty Model                           | Log Name/Comment                                | Wellbore          | Survey Date |
|------------------|----------------|--------------------------------------------------------|-------------------------------------------------|-------------------|-------------|
| 25.50            | 500.00         | Gyrodata 2015 - GC+WR+DPIPE                            | 01_Gyrodata MS Gyro <17-1/2"> (100'-500')       | Bream Unit 1H AWB | 2025-11-14  |
| 500.00           | 645.00         | Gyrodata 2015 - GC+WR+DPIPE                            | 02_Gyrodata MS Gyro <12-1/4"> (500')(600'-645') | Bream Unit 1H AWB | 2025-11-17  |
| 645.00           | 3458.00        | BH NaviTrak (2019) (Axial Corr+HRGM)                   | 03_APS EM <12-1/4"> (645')(773'-3458')          | Bream Unit 1H AWB | 2025-11-14  |
| 3458.00          | 6337.00        | BH NaviTrak (2019) (Axial Corr+HRGM)                   | 04_APS EM <8-3/4"> (3458')(3594'-6337')         | Bream Unit 1H AWB | 2025-12-08  |
| 6337.00          | 22258.00       | BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing) | 05_BH Lucida <8-1/2"> (6337')(6463'-22233')     | Bream Unit 1H AWB | 2025-12-08  |

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# Actual Wellpath Report

Bream Unit 1H AWP Proj: 22258'  
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| REFERENCE WELLPATH IDENTIFICATION |                              |          |                   |
|-----------------------------------|------------------------------|----------|-------------------|
| Operator                          | ANTERO RESOURCES CORPORATION | Well     | Bream Unit 1H     |
| Field                             | Harrison                     | UWI      | 47-033-06119-0000 |
| Facility                          | Flanigan Pad                 | Wellbore | Bream Unit 1H AWB |
| Slot                              | Slot C                       |          |                   |

| COMMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Wellpath general comments</b><br>API: 47-033-06119-0000<br>BH Job #: 112874826<br>Rig: H&P 317<br>Duration: 12/11/2025-12/15/2025<br>Gyrodata MS Gyro <17-1/2"> (100'-500')<br>Gyrodata MS Gyro <12-1/4"> (500')(600'-645')<br>APS EM <12-1/4"> (645')(773'-3458')<br>APS EM <8-3/4"> (3458')(3594'-6337')<br>BH Lucida <8-1/2"> (6337')(6463'-22233')<br>Sycamore: 6365' MD<br>Middlesex: 6624' MD<br>Burkett: 6819' MD<br>Tully: 6855' MD<br>Marcellus POE: 7223' MD<br>Projected MD at TD: 22258' |  |

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