



## Actual Wellpath Report

Carnegie 17H Proj: 22627'

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### REFERENCE WELLPATH IDENTIFICATION

|          |                        |          |              |
|----------|------------------------|----------|--------------|
| Operator | EQT PRODUCTION COMPANY | Well     | Carnegie 17H |
| Field    | Marion                 | API      | 47-049-02528 |
| Facility | Carnegie Pad           | Wellbore | Carnegie 17H |
| Slot     | Slot 17                |          |              |

### REPORT SETUP INFORMATION

|                     |                                                                 |                  |                         |
|---------------------|-----------------------------------------------------------------|------------------|-------------------------|
| Projection System   | NAD27 / Lambert West Virginia SP, Northern Zone (4701), US feet | Software System  | WellArchitect® 6.0      |
| North Reference     | Grid                                                            | User             | Deergai                 |
| Scale               | 0.999942                                                        | Report Generated | 7/8/2024 at 10:26:17 AM |
| Convergence at slot | 0.60° West                                                      | 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         | 117.41            | 24.80    | 1735849.88       | 374323.02       | 39°31'26.2432"N        | 80°26'11.1162"W |
| Facility Reference Pt |                   |          | 1735825.08       | 374205.61       | 39°31'25.0803"N        | 80°26'11.4171"W |
| Field Reference Pt    |                   |          | 1931053.01       | 433518.91       | 39°41'24.0000"N        | 79°44'42.0000"W |

### WELLPATH DATUM

|                          |                     |                                                       |                   |
|--------------------------|---------------------|-------------------------------------------------------|-------------------|
| Calculation method       | Minimum curvature   | Patterson 292 (RKB) to Facility Vertical Datum        | 1346.00ft         |
| Horizontal Reference Pt  | Slot                | Patterson 292 (RKB) to Mean Sea Level                 | 1346.00ft         |
| Vertical Reference Pt    | Patterson 292 (RKB) | Patterson 292 (RKB) to Ground Level at Slot (Slot 17) | 28.00ft           |
| MD Reference Pt          | Patterson 292 (RKB) | Section Origin                                        | N 0.00, E 0.00 ft |
| Field Vertical Reference | Mean Sea Level      | Section Azimuth                                       | 350.63°           |





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|          |                        |          |              |
|----------|------------------------|----------|--------------|
| Operator | EQT PRODUCTION COMPANY | Well     | Carnegie 17H |
| Field    | Marion                 | API      | 47-049-02528 |
| Facility | Carnegie Pad           | Wellbore | Carnegie 17H |
| Slot     | Slot 17                |          |              |

## WELLPATH DATA (268 stations) † = Interpolated, ‡ = extrapolated station

| MD<br>[ft] | Inclination<br>[°] | Azimuth<br>[°] | TVD<br>[ft] | TVDSS<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              | 176.460        | 0.00        | -1346.00      | 0.00              | 0.00          | 0.00         | 1735849.88           | 374323.02             | 39°31'26.2432"N | 80°26'11.1162"W | 0.00                 | 0.000              | 0.00             | 0.00                    | 0.00                   |            |
| 28.00      | 0.000              | 176.460        | 28.00       | -1318.00      | 0.00              | 0.00          | 0.00         | 1735849.88           | 374323.02             | 39°31'26.2432"N | 80°26'11.1162"W | 0.00                 | 0.000              | 0.00             | 0.00                    | 0.00                   |            |
| 115.00     | 0.580              | 176.460        | 115.00      | -1231.00      | -0.42             | -0.42         | 0.03         | 1735849.91           | 374322.60             | 39°31'26.2390"N | 80°26'11.1158"W | 0.43                 | 176.460            | 0.64             | 0.64                    | 0.00                   | 01 Gyro    |
| 215.00     | 0.580              | 181.670        | 214.99      | -1131.01      | -1.41             | -1.42         | 0.04         | 1735849.92           | 374321.60             | 39°31'26.2292"N | 80°26'11.1155"W | 1.42                 | 178.317            | 0.06             | 0.02                    | 5.21                   |            |
| 315.00     | 0.480              | 172.340        | 314.99      | -1031.01      | -2.32             | -2.34         | 0.05         | 1735849.96           | 374320.66             | 39°31'26.2201"N | 80°26'11.1149"W | 2.34                 | 177.974            | 0.13             | -0.10                   | -9.33                  |            |
| 415.00     | 0.380              | 166.000        | 414.99      | -931.01       | -3.07             | -3.08         | 0.22         | 1735850.10           | 374319.94             | 39°31'26.2129"N | 80°26'11.1130"W | 3.08                 | 175.931            | 0.11             | -0.10                   | -6.34                  |            |
| 515.00     | 0.240              | 160.640        | 514.99      | -831.01       | -3.61             | -3.60         | 0.37         | 1735850.25           | 374319.42             | 39°31'26.2077"N | 80°26'11.1110"W | 3.61                 | 174.148            | 0.14             | -0.14                   | -5.36                  |            |
| 615.00     | 0.130              | 141.410        | 614.98      | -731.02       | -3.91             | -3.88         | 0.51         | 1735850.39           | 374319.14             | 39°31'26.2049"N | 80°26'11.1092"W | 3.91                 | 172.534            | 0.12             | -0.11                   | -19.23                 |            |
| 715.00     | 0.090              | 223.180        | 714.98      | -631.02       | -4.06             | -4.03         | 0.53         | 1735850.41           | 374318.99             | 39°31'26.2035"N | 80°26'11.1090"W | 4.06                 | 172.564            | 0.15             | -0.04                   | 81.77                  |            |
| 815.00     | 0.150              | 160.210        | 814.98      | -531.02       | -4.34             | -4.21         | 0.52         | 1735850.40           | 374318.91             | 39°31'26.2017"N | 80°26'11.1091"W | 4.24                 | 173.005            | 0.14             | 0.06                    | -62.97                 |            |
| 915.00     | 0.170              | 153.300        | 914.98      | -431.02       | -4.51             | -4.46         | 0.63         | 1735850.51           | 374318.56             | 39°31'26.1992"N | 80°26'11.1076"W | 4.51                 | 172.001            | 0.03             | 0.02                    | -8.91                  |            |
| 992.00     | 0.470              | 136.350        | 991.98      | -354.02       | -4.88             | -4.79         | 0.90         | 1735850.78           | 374318.23             | 39°31'26.1959"N | 80°26'11.1041"W | 4.88                 | 169.408            | 0.40             | 0.39                    | -22.01                 |            |
| 1196.00    | 0.570              | 159.510        | 1195.97     | -150.03       | -6.56             | -6.35         | 1.83         | 1735851.71           | 374316.67             | 39°31'26.1807"N | 80°26'11.0920"W | 6.61                 | 163.930            | 0.11             | 0.05                    | 11.35                  | 02 SDI MWD |
| 1240.00    | 0.700              | 174.100        | 1239.97     | -106.03       | -7.05             | -6.82         | 1.93         | 1735851.81           | 374316.20             | 39°31'26.1760"N | 80°26'11.0906"W | 7.09                 | 164.177            | 0.47             | 0.30                    | 33.16                  |            |
| 1282.00    | 0.850              | 165.250        | 1281.97     | -64.03        | -7.54             | -7.31         | 2.02         | 1735851.90           | 374315.71             | 39°31'26.1712"N | 80°26'11.0895"W | 7.58                 | 164.545            | 0.27             | -0.12                   | -21.07                 |            |
| 1325.00    | 0.470              | 166.040        | 1324.97     | -21.03        | -7.96             | -7.72         | 2.13         | 1735852.01           | 374315.30             | 39°31'26.1672"N | 80°26'11.0881"W | 8.00                 | 164.599            | 0.42             | -0.42                   | 1.84                   |            |
| 1367.00    | 0.380              | 165.040        | 1366.97     | 20.97         | -8.27             | -8.02         | 2.20         | 1735852.08           | 374315.00             | 39°31'26.1642"N | 80°26'11.0871"W | 8.31                 | 164.637            | 0.22             | -0.21                   | -2.38                  |            |
| 1410.00    | 0.360              | 162.670        | 1409.96     | 83.96         | -8.54             | -8.28         | 2.28         | 1735852.16           | 374314.74             | 39°31'26.1616"N | 80°26'11.0860"W | 8.59                 | 164.612            | 0.06             | -0.05                   | -5.51                  | KOP        |
| 1452.00    | 0.440              | 98.080         | 1451.96     | 105.96        | -8.72             | -8.43         | 2.48         | 1735852.36           | 374314.59             | 39°31'26.1602"N | 80°26'11.0835"W | 8.79                 | 163.619            | 1.03             | 0.19                    | -153.79                |            |
| 1494.00    | 1.340              | 81.280         | 1493.96     | 147.96        | -8.78             | -8.38         | 3.12         | 1735853.00           | 374314.64             | 39°31'26.1607"N | 80°26'11.0752"W | 8.84                 | 169.557            | 2.21             | 2.14                    | -40.00                 |            |
| 1537.00    | 2.140              | 74.540         | 1536.94     | 190.94        | -8.70             | -8.09         | 4.39         | 1735854.27           | 374314.93             | 39°31'26.1637"N | 80°26'11.0591"W | 9.21                 | 151.489            | 1.92             | 1.86                    | -15.67                 |            |
| 1579.00    | 3.140              | 75.830         | 1578.89     | 232.89        | -8.52             | -7.60         | 6.27         | 1735856.15           | 374315.42             | 39°31'26.1688"N | 80°26'11.0353"W | 9.85                 | 140.495            | 2.39             | 2.38                    | 3.07                   |            |
| 1622.00    | 3.940              | 75.900         | 1621.81     | 275.81        | -8.30             | -6.95         | 8.84         | 1735858.72           | 374316.07             | 39°31'26.1754"N | 80°26'11.0025"W | 11.25                | 128.179            | 1.86             | 1.86                    | 0.16                   |            |
| 1665.00    | 4.480              | 74.730         | 1664.69     | 318.69        | -8.00             | -6.15         | 11.89        | 1735861.77           | 374316.87             | 39°31'26.1837"N | 80°26'10.9636"W | 13.39                | 117.340            | 1.27             | 1.26                    | -2.72                  |            |
| 1708.00    | 5.060              | 77.550         | 1708.54     | 362.54        | -7.72             | -5.28         | 15.45        | 1735865.33           | 374317.74             | 39°31'26.1927"N | 80°26'10.9183"W | 16.33                | 108.853            | 1.46             | 1.36                    | 6.41                   |            |
| 1751.00    | 5.530              | 77.940         | 1750.36     | 404.36        | -7.53             | -4.45         | 19.25        | 1735869.13           | 374318.57             | 39°31'26.2012"N | 80°26'10.8700"W | 19.76                | 103.026            | 1.07             | 1.07                    | 0.93                   |            |
| 1794.00    | 6.190              | 77.510         | 1793.14     | 447.14        | -7.30             | -3.52         | 23.54        | 1735873.42           | 374319.50             | 39°31'26.2109"N | 80°26'10.8154"W | 23.80                | 98.502             | 1.54             | 1.53                    | -1.00                  |            |
| 1837.00    | 7.370              | 76.710         | 1835.83     | 489.83        | -6.99             | -2.38         | 28.49        | 1735878.37           | 374320.64             | 39°31'26.2226"N | 80°26'10.7524"W | 28.58                | 94.782             | 2.75             | 2.74                    | -1.86                  |            |
| 1881.00    | 8.270              | 76.840         | 1879.43     | 533.43        | -6.59             | -1.01         | 34.31        | 1735884.19           | 374322.01             | 39°31'26.2367"N | 80°26'10.6782"W | 34.33                | 91.693             | 2.05             | 2.05                    | 0.30                   |            |
| 1924.00    | 9.210              | 77.140         | 1921.93     | 575.93        | -6.17             | 0.46          | 40.68        | 1735890.56           | 374323.48             | 39°31'26.2519"N | 80°26'10.5972"W | 40.68                | 89.358             | 2.19             | 2.19                    | 0.70                   |            |





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|          |                        |          |              |
|----------|------------------------|----------|--------------|
| Operator | EQT PRODUCTION COMPANY | Well     | Carnegie 17H |
| Field    | Marion                 | API      | 47-049-02528 |
| Facility | Carnegie Pad           | Wellbore | Carnegie 17H |
| Slot     | Slot 17                |          |              |

## WELLPATH DATA (268 stations)

| MD [ft] | Inclination [°] | Azimuth [°] | TVD [ft] | TVDSS [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 |
|---------|-----------------|-------------|----------|------------|----------------|------------|-----------|-------------------|--------------------|-----------------|-----------------|-------------------|-----------------|---------------|----------------------|---------------------|----------|
| 1966.00 | 9.580           | 76.520      | 1963.36  | 617.36     | -5.72          | 2.02       | 47.36     | 1735897.24        | 374325.04          | 39°31'26.2681"N | 80°26'10.5122"W | 47.40             | 87.559          | 0.91          | 0.88                 | -1.46               |          |
| 2008.00 | 9.890           | 76.520      | 2004.76  | 658.76     | -5.21          | 3.67       | 54.26     | 1735904.14        | 374326.69          | 39°31'26.2851"N | 80°26'10.4243"W | 54.39             | 86.126          | 0.74          | 0.74                 | 0.00                |          |
| 2050.00 | 10.300          | 75.700      | 2046.11  | 700.11     | -4.63          | 5.44       | 61.41     | 1735911.29        | 374328.46          | 39°31'26.3033"N | 80°26'10.3333"W | 61.65             | 84.935          | 1.03          | 0.98                 | -1.95               |          |
| 2093.00 | 10.930          | 75.280      | 2088.37  | 742.37     | -3.92          | 7.43       | 69.08     | 1735918.96        | 374330.45          | 39°31'26.3238"N | 80°26'10.2357"W | 69.47             | 83.862          | 1.48          | 1.47                 | -0.98               |          |
| 2180.00 | 10.010          | 72.820      | 2173.92  | 827.92     | -2.12          | 11.76      | 84.28     | 1735934.16        | 374334.78          | 39°31'26.3661"N | 80°26'10.0423"W | 85.09             | 82.058          | 1.18          | -1.06                | -2.83               |          |
| 2266.00 | 8.740           | 61.980      | 2258.78  | 912.78     | 0.98           | 17.03      | 97.19     | 1735947.07        | 374340.05          | 39°31'26.4216"N | 80°26'9.8783"W  | 98.67             | 80.058          | 2.52          | -1.48                | -12.60              |          |
| 2353.00 | 9.700           | 55.360      | 2344.66  | 998.66     | 6.23           | 24.31      | 109.05    | 1735958.93        | 374347.33          | 39°31'26.4947"N | 80°26'9.7278"W  | 111.73            | 77.435          | 1.64          | 1.10                 | -7.61               |          |
| 2438.00 | 10.470          | 58.080      | 2428.34  | 1082.34    | 12.25          | 32.46      | 121.50    | 1735971.38        | 374355.48          | 39°31'26.5766"N | 80°26'9.5701"W  | 125.76            | 75.042          | 1.06          | 0.91                 | 3.20                |          |
| 2525.00 | 9.680           | 64.280      | 2514.00  | 1168.00    | 17.34          | 39.82      | 134.80    | 1735984.68        | 374362.84          | 39°31'26.6506"N | 80°26'9.4013"W  | 140.56            | 73.544          | 1.54          | -0.91                | 7.10                |          |
| 2610.00 | 8.560           | 65.320      | 2597.93  | 1251.93    | 21.03          | 45.57      | 145.98    | 1735996.56        | 374368.59          | 39°31'26.7085"N | 80°26'9.2467"W  | 153.88            | 72.774          | 1.33          | -1.32                | 1.13                |          |
| 2659.00 | 8.140           | 65.250      | 2646.41  | 1300.41    | 22.92          | 48.55      | 153.44    | 1736003.32        | 374371.57          | 39°31'26.7389"N | 80°26'9.1646"W  | 160.94            | 72.441          | 0.86          | -0.86                | 0.06                |          |
| 2753.00 | 8.190           | 62.810      | 2739.45  | 1393.45    | 26.74          | 54.40      | 165.44    | 1736015.32        | 374377.42          | 39°31'26.7979"N | 80°26'9.0122"W  | 174.15            | 71.799          | 0.37          | 0.05                 | -2.60               |          |
| 2796.00 | 8.010           | 62.290      | 2782.03  | 1436.03    | 28.62          | 57.19      | 170.82    | 1736020.70        | 374380.21          | 39°31'26.8261"N | 80°26'8.9440"W  | 180.14            | 71.489          | 0.45          | -0.42                | -1.21               |          |
| 2839.00 | 8.630           | 61.780      | 2824.57  | 1478.57    | 30.60          | 60.11      | 176.31    | 1736026.19        | 374383.13          | 39°31'26.8555"N | 80°26'8.8743"W  | 186.28            | 71.174          | 1.45          | 1.44                 | -1.19               |          |
| 2883.00 | 10.250          | 62.020      | 2867.97  | 1521.97    | 32.92          | 63.51      | 182.68    | 1736032.56        | 374386.53          | 39°31'26.8897"N | 80°26'8.7934"W  | 193.41            | 70.830          | 3.71          | 3.70                 | 0.59                |          |
| 2926.00 | 11.790          | 61.680      | 2910.18  | 1564.18    | 35.57          | 67.39      | 189.93    | 1736039.81        | 374390.41          | 39°31'26.9289"N | 80°26'8.7014"W  | 201.53            | 70.464          | 3.56          | 3.56                 | -0.84               |          |
| 2969.00 | 13.320          | 61.210      | 2952.15  | 1606.15    | 38.65          | 71.86      | 198.14    | 1736048.02        | 374394.88          | 39°31'26.9739"N | 80°26'8.5973"W  | 210.77            | 70.065          | 3.57          | 3.56                 | -1.05               |          |
| 3012.00 | 14.860          | 61.420      | 2993.86  | 1647.86    | 42.11          | 76.69      | 207.32    | 1736057.20        | 374399.91          | 39°31'27.0245"N | 80°26'8.4808"W  | 221.12            | 69.652          | 3.58          | 3.58                 | 0.49                |          |
| 3056.00 | 16.300          | 61.220      | 3036.24  | 1690.24    | 46.02          | 82.56      | 217.69    | 1736067.57        | 374405.58          | 39°31'27.0816"N | 80°26'8.3492"W  | 232.82            | 69.231          | 3.27          | 3.27                 | -0.45               |          |
| 3099.00 | 17.650          | 62.840      | 3077.36  | 1731.36    | 50.01          | 88.44      | 228.78    | 1736076.66        | 374411.46          | 39°31'27.1409"N | 80°26'8.2085"W  | 245.28            | 68.865          | 3.33          | 3.14                 | 3.77                |          |
| 3142.00 | 19.110          | 66.090      | 3118.17  | 1772.17    | 53.77          | 94.27      | 241.01    | 1736090.89        | 374417.29          | 39°31'27.1997"N | 80°26'8.0531"W  | 258.79            | 68.638          | 4.15          | 3.40                 | 7.56                |          |
| 3185.00 | 20.800          | 69.780      | 3158.59  | 1812.59    | 56.98          | 99.76      | 254.61    | 1736104.49        | 374422.78          | 39°31'27.2554"N | 80°26'7.8803"W  | 273.48            | 68.604          | 4.90          | 3.93                 | 8.58                |          |
| 3229.00 | 22.790          | 70.830      | 3199.44  | 1853.44    | 59.90          | 105.26     | 270.00    | 1736119.88        | 374428.26          | 39°31'27.3114"N | 80°26'7.6847"W  | 289.79            | 68.701          | 4.61          | 4.52                 | 2.39                |          |
| 3272.00 | 25.020          | 71.130      | 3238.75  | 1892.75    | 62.82          | 110.94     | 286.47    | 1736136.35        | 374433.96          | 39°31'27.3692"N | 80°26'7.4753"W  | 307.20            | 68.831          | 5.19          | 5.19                 | 0.70                |          |
| 3315.00 | 26.150          | 71.780      | 3277.53  | 1931.53    | 65.78          | 116.64     | 304.07    | 1736153.95        | 374439.88          | 39°31'27.4293"N | 80°26'7.2514"W  | 325.75            | 68.980          | 2.70          | 2.63                 | 1.47                |          |
| 3359.00 | 27.280          | 71.870      | 3316.84  | 1970.84    | 68.81          | 123.02     | 322.87    | 1736172.75        | 374446.04          | 39°31'27.4923"N | 80°26'7.0124"W  | 345.51            | 69.143          | 2.57          | 2.57                 | 0.25                |          |
| 3402.00 | 28.550          | 71.980      | 3354.83  | 2008.83    | 71.86          | 129.26     | 342.00    | 1736191.88        | 374452.28          | 39°31'27.5560"N | 80°26'6.7690"W  | 365.62            | 69.296          | 2.96          | 2.95                 | 0.26                |          |
| 3445.00 | 29.870          | 72.460      | 3392.36  | 2046.36    | 74.92          | 135.67     | 361.99    | 1736211.86        | 374458.69          | 39°31'27.6214"N | 80°26'6.5149"W  | 386.57            | 69.455          | 3.12          | 3.07                 | 1.12                |          |
| 3488.00 | 31.080          | 73.050      | 3429.42  | 2083.42    | 77.91          | 142.13     | 382.81    | 1736232.69        | 374465.15          | 39°31'27.6874"N | 80°26'6.2500"W  | 408.35            | 69.631          | 2.90          | 2.81                 | 1.37                |          |
| 3531.00 | 32.610          | 73.060      | 3465.95  | 2119.95    | 80.90          | 148.74     | 404.52    | 1736254.39        | 374471.78          | 39°31'27.7550"N | 80°26'5.9739"W  | 431.00            | 69.811          | 3.56          | 3.56                 | 0.02                |          |





# Actual Wellpath Report

Carnegie 17H Proj: 22627'

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## REFERENCE WELLPATH IDENTIFICATION

|          |                        |          |              |
|----------|------------------------|----------|--------------|
| Operator | EQT PRODUCTION COMPANY | Well     | Carnegie 17H |
| Field    | Marion                 | API      | 47-049-02528 |
| Facility | Carnegie Pad           | Wellbore | Carnegie 17H |
| Slot     | Slot 17                |          |              |

## WELLPATH DATA (268 stations)

| MD<br>[ft] | Inclination<br>[°] | Azimuth<br>[°] | TVD<br>[ft] | TVDSS<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 |
|------------|--------------------|----------------|-------------|---------------|-------------------|---------------|--------------|----------------------|-----------------------|-----------------|-----------------|----------------------|--------------------|------------------|-------------------------|------------------------|----------|
| 3575.00    | 34.220             | 71.500         | 3502.67     | 2156.67       | 84.42             | 156.12        | 427.59       | 1736277.47           | 374479.14             | 39°31'27.8303"N | 80°26'5.6804"W  | 455.20               | 69.942             | 4.15             | 3.66                    | -3.55                  |          |
| 3616.00    | 35.390             | 69.080         | 3537.98     | 2191.98       | 88.84             | 164.41        | 450.69       | 1736300.57           | 374487.43             | 39°31'27.9145"N | 80°26'5.3867"W  | 479.74               | 69.959             | 4.21             | 2.72                    | -5.63                  |          |
| 3704.00    | 38.490             | 66.530         | 3606.72     | 2260.72       | 100.35            | 183.96        | 498.51       | 1736348.39           | 374506.98             | 39°31'28.1127"N | 80°26'4.7790"W  | 531.37               | 69.745             | 4.02             | 3.60                    | -2.97                  |          |
| 3790.00    | 39.330             | 65.340         | 3673.64     | 2327.64       | 114.05            | 205.99        | 547.83       | 1736397.71           | 374529.01             | 39°31'28.3355"N | 80°26'4.1526"W  | 585.28               | 69.393             | 1.31             | 0.98                    | -1.38                  |          |
| 3877.00    | 40.610             | 65.090         | 3740.31     | 2394.31       | 128.91            | 229.42        | 698.57       | 1736448.45           | 374552.44             | 39°31'28.5723"N | 80°26'3.5082"W  | 641.03               | 69.029             | 1.48             | 1.07                    | -0.29                  |          |
| 3963.00    | 41.460             | 65.750         | 3805.18     | 2459.18       | 143.72            | 252.91        | 849.91       | 1736499.79           | 374575.93             | 39°31'28.8097"N | 80°26'2.8561"W  | 697.39               | 68.737             | 1.11             | 0.99                    | 0.77                   |          |
| 4049.00    | 42.410             | 66.830         | 3869.16     | 2523.16       | 157.95            | 276.01        | 102.54       | 1736552.41           | 374599.03             | 39°31'29.0434"N | 80°26'2.1877"W  | 754.81               | 68.551             | 1.39             | 1.10                    | 1.26                   |          |
| 4136.00    | 43.200             | 67.430         | 3932.98     | 2586.98       | 171.75            | 298.96        | 1757.00      | 1736606.88           | 374622.00             | 39°31'29.2761"N | 80°26'1.4956"W  | 813.91               | 68.446             | 1.02             | 0.91                    | 0.69                   |          |
| 4222.00    | 42.910             | 68.140         | 3995.83     | 2649.83       | 184.80            | 321.18        | 811.36       | 1736661.24           | 374644.20             | 39°31'29.5010"N | 80°26'0.8049"W  | 872.62               | 68.404             | 0.66             | -0.34                   | 0.83                   |          |
| 4308.00    | 42.310             | 68.180         | 4059.25     | 2713.25       | 197.52            | 343.05        | 966.03       | 1736715.91           | 374666.11             | 39°31'29.7242"N | 80°26'0.1102"W  | 931.62               | 68.368             | 0.62             | -0.69                   | 0.05                   |          |
| 4395.00    | 41.190             | 68.410         | 4124.01     | 2778.01       | 209.75            | 364.27        | 919.23       | 1736769.11           | 374687.29             | 39°31'29.9380"N | 80°25'59.4340"W | 988.78               | 68.383             | 1.31             | -1.30                   | 0.27                   |          |
| 4481.00    | 38.600             | 68.590         | 4189.99     | 2843.99       | 221.34            | 384.49        | 970.55       | 1736820.43           | 374707.51             | 39°31'30.1431"N | 80°25'58.7818"W | 1043.93              | 68.389             | 3.01             | -3.01                   | 0.21                   |          |
| 4568.00    | 38.220             | 67.500         | 4258.16     | 2912.16       | 233.12            | 404.69        | 1020.68      | 1736870.56           | 374727.71             | 39°31'30.3479"N | 80°25'58.1448"W | 1097.98              | 68.372             | 0.89             | -0.44                   | -1.25                  |          |
| 4654.00    | 38.830             | 66.310         | 4325.44     | 2979.44       | 245.83            | 425.71        | 1069.95      | 1736919.83           | 374748.73             | 39°31'30.5607"N | 80°25'57.5188"W | 1151.53              | 68.303             | 1.12             | 0.71                    | -1.38                  |          |
| 4740.00    | 36.200             | 67.400         | 4393.65     | 3047.65       | 258.31            | 446.31        | 1118.09      | 1736967.97           | 374769.32             | 39°31'30.7662"N | 80°25'56.9072"W | 1203.86              | 68.240             | 3.15             | -3.06                   | 1.27                   |          |
| 4827.00    | 36.030             | 66.250         | 4463.94     | 3117.94       | 270.55            | 466.48        | 1165.23      | 1737015.11           | 374789.50             | 39°31'30.9734"N | 80°25'56.3083"W | 1255.14              | 68.182             | 0.60             | -0.20                   | -1.32                  |          |
| 4913.00    | 38.050             | 64.780         | 4532.58     | 3186.58       | 284.07            | 487.97        | 1212.37      | 1737062.24           | 374810.98             | 39°31'31.1906"N | 80°25'55.7096"W | 1306.88              | 68.076             | 2.98             | 2.35                    | -1.71                  |          |
| 5000.00    | 37.170             | 64.310         | 4601.50     | 3255.50       | 298.78            | 510.78        | 1260.31      | 1737110.18           | 374833.80             | 39°31'31.4210"N | 80°25'55.1008"W | 1359.88              | 67.938             | 1.06             | -1.01                   | -0.54                  |          |
| 5077.00    | 36.370             | 64.600         | 4663.18     | 3317.18       | 311.62            | 530.66        | 1301.89      | 1737151.77           | 374853.68             | 39°31'31.6217"N | 80°25'54.5728"W | 1405.89              | 67.824             | 1.06             | -1.04                   | 0.38                   |          |
| 5163.00    | 36.730             | 65.640         | 4732.27     | 3386.27       | 325.31            | 552.20        | 1348.35      | 1737198.23           | 374875.22             | 39°31'31.8394"N | 80°25'53.9827"W | 1457.05              | 67.729             | 0.93             | 0.42                    | 1.21                   |          |
| 5250.00    | 37.300             | 66.450         | 4801.74     | 3455.74       | 338.50            | 573.47        | 1396.22      | 1737246.10           | 374896.49             | 39°31'32.0545"N | 80°25'53.3747"W | 1509.40              | 67.671             | 0.86             | 0.66                    | 0.93                   |          |
| 5336.00    | 38.370             | 66.030         | 4869.86     | 3523.86       | 351.61            | 594.72        | 1444.50      | 1737294.37           | 374917.74             | 39°31'32.2695"N | 80°25'52.7614"W | 1562.14              | 67.622             | 1.28             | 1.24                    | -0.49                  |          |
| 5423.00    | 37.790             | 64.080         | 4938.14     | 3592.14       | 366.01            | 617.35        | 1493.15      | 1737343.02           | 374940.36             | 39°31'32.4981"N | 80°25'52.1436"W | 1615.74              | 67.537             | 1.53             | -0.67                   | -2.24                  |          |
| 5509.00    | 38.010             | 62.780         | 5006.00     | 3660.00       | 381.63            | 640.98        | 1540.39      | 1737390.27           | 374963.99             | 39°31'32.7365"N | 80°25'51.5438"W | 1668.43              | 67.407             | 0.96             | 0.26                    | -1.51                  |          |
| 5595.00    | 39.100             | 63.750         | 5073.25     | 3727.25       | 397.62            | 665.08        | 1588.28      | 1737438.14           | 374988.10             | 39°31'32.9786"N | 80°25'50.9360"W | 1721.69              | 67.279             | 1.45             | 1.27                    | 1.13                   |          |
| 5682.00    | 39.170             | 64.790         | 5140.74     | 3794.74       | 413.13            | 688.96        | 1637.71      | 1737487.59           | 375011.98             | 39°31'33.2207"N | 80°25'50.3082"W | 1776.73              | 67.184             | 0.69             | 0.08                    | 1.09                   |          |
| 5768.00    | 38.420             | 64.640         | 5207.77     | 3861.77       | 427.95            | 712.01        | 1686.41      | 1737536.29           | 375035.03             | 39°31'33.4535"N | 80°25'49.6897"W | 1830.56              | 67.110             | 0.87             | -0.87                   | -0.07                  |          |
| 5854.00    | 39.050             | 64.210         | 5274.85     | 3928.85       | 442.97            | 735.24        | 1734.95      | 1737584.83           | 375058.26             | 39°31'33.6881"N | 80°25'49.0734"W | 1884.31              | 67.034             | 0.80             | 0.73                    | -0.50                  |          |
| 5941.00    | 40.020             | 63.950         | 5341.95     | 3995.95       | 458.74            | 759.45        | 1784.76      | 1737634.63           | 375082.47             | 39°31'33.9324"N | 80°25'48.4410"W | 1939.62              | 66.949             | 1.13             | 1.11                    | -0.30                  |          |
| 6027.00    | 40.420             | 65.440         | 5407.61     | 4061.61       | 473.98            | 783.18        | 1834.98      | 1737684.84           | 375106.20             | 39°31'34.1721"N | 80°25'47.8034"W | 1995.11              | 66.887             | 1.21             | 0.47                    | 1.73                   |          |





# Actual Wellpath Report

Carnegie 17H Proj: 22627

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## REFERENCE WELLPATH IDENTIFICATION

|          |                        |          |              |
|----------|------------------------|----------|--------------|
| Operator | EQT PRODUCTION COMPANY | Well     | Carnegie 17H |
| Field    | Marion                 | API      | 47-049-02528 |
| Facility | Carnegie Pad           | Wellbore | Carnegie 17H |
| Slot     | Slot 17                |          |              |

## WELLPATH DATA (268 stations)

| MD [ft] | Inclination [°] | Azimuth [°] | TVD [ft] | TVDSS [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                                                       |
|---------|-----------------|-------------|----------|------------|----------------|------------|-----------|-------------------|--------------------|-----------------|-----------------|-------------------|-----------------|---------------|----------------------|---------------------|----------------------------------------------------------------|
| 6114.00 | 39.740          | 65.740      | 5474.18  | 4128.18    | 488.52         | 806.33     | 1885.97   | 1737735.84        | 375129.35          | 39°31'34.4061"N | 80°25'47.1556"W | 2051.11           | 66.851          | 0.81          | -0.78                | 0.34                |                                                                |
| 6201.00 | 41.200          | 66.640      | 5540.37  | 4194.37    | 502.60         | 829.12     | 1937.63   | 1737787.50        | 375152.14          | 39°31'34.6366"N | 80°25'46.4993"W | 2107.57           | 66.834          | 1.81          | 1.68                 | 1.03                |                                                                |
| 6287.00 | 41.460          | 67.930      | 5604.95  | 4258.95    | 515.70         | 851.05     | 1990.02   | 1737839.69        | 375174.07          | 39°31'34.8587"N | 80°25'45.8336"W | 2164.36           | 66.846          | 1.04          | 0.30                 | 1.50                |                                                                |
| 6373.00 | 40.010          | 69.680      | 5670.11  | 4324.11    | 527.21         | 871.35     | 2042.33   | 1737892.21        | 375194.37          | 39°31'35.0647"N | 80°25'45.1687"W | 2220.44           | 66.895          | 2.15          | -1.69                | 2.03                |                                                                |
| 6460.00 | 38.450          | 68.750      | 5737.50  | 4391.50    | 536.10         | 890.87     | 2093.77   | 1737943.65        | 375219.88          | 39°31'35.2628"N | 80°25'44.5148"W | 2275.42           | 66.951          | 1.92          | -1.79                | -1.07               |                                                                |
| 6546.00 | 38.290          | 66.760      | 5804.93  | 4458.93    | 549.99         | 911.07     | 2143.18   | 1737993.05        | 375234.09          | 39°31'35.4676"N | 80°25'43.8870"W | 2328.79           | 66.969          | 1.45          | -0.19                | -2.31               |                                                                |
| 6633.00 | 38.510          | 66.110      | 5873.11  | 4527.11    | 563.24         | 932.68     | 2192.71   | 1738042.58        | 375255.70          | 39°31'35.6862"N | 80°25'43.2577"W | 2382.82           | 66.957          | 0.53          | 0.25                 | -0.75               |                                                                |
| 6719.00 | 38.290          | 66.900      | 5940.51  | 4594.51    | 576.28         | 953.97     | 2241.70   | 1738091.57        | 375276.99          | 39°31'35.9017"N | 80°25'42.6354"W | 2436.24           | 66.947          | 0.63          | -0.26                | 0.92                |                                                                |
| 6805.00 | 37.390          | 67.440      | 6008.42  | 4662.42    | 588.56         | 974.45     | 2290.32   | 1738140.19        | 375297.46          | 39°31'36.1090"N | 80°25'42.0175"W | 2489.00           | 66.952          | 1.12          | -1.05                | 0.63                |                                                                |
| 6893.00 | 35.570          | 66.170      | 6135.48  | 4788.48    | 610.98         | 1011.42    | 2376.66   | 1738226.54        | 375334.44          | 39°31'36.4832"N | 80°25'40.8205"W | 2562.93           | 66.947          | 1.25          | -1.15                | -0.80               | 0.03 B-H Lucida+SuperiorQC IFR1+Sag+FDIR <8 1/2> 6963' - 22602 |
| 7059.00 | 39.250          | 66.560      | 6211.70  | 4865.70    | 625.34         | 1034.79    | 2430.09   | 1738279.96        | 375357.81          | 39°31'36.7196"N | 80°25'40.2418"W | 2641.23           | 66.935          | 3.84          | 3.83                 | 0.41                | Curve KOP                                                      |
| 7154.00 | 39.340          | 66.510      | 6285.22  | 4939.22    | 639.99         | 1058.75    | 2485.28   | 1738335.15        | 375381.76          | 39°31'36.9620"N | 80°25'39.5407"W | 2701.40           | 66.926          | 0.10          | 0.09                 | -0.05               |                                                                |
| 7248.00 | 39.650          | 66.520      | 6357.76  | 5011.76    | 654.57         | 1082.57    | 2540.11   | 1738389.98        | 375405.59          | 39°31'37.2031"N | 80°25'38.8440"W | 2761.18           | 66.917          | 0.33          | 0.33                 | 0.01                |                                                                |
| 7343.00 | 39.630          | 67.480      | 6430.92  | 5084.92    | 668.86         | 1106.25    | 2595.90   | 1738445.77        | 375429.27          | 39°31'37.4428"N | 80°25'38.1352"W | 2821.79           | 66.919          | 0.65          | -0.02                | 1.01                |                                                                |
| 7438.00 | 39.607          | 67.010      | 6504.10  | 5158.10    | 682.88         | 1129.68    | 2651.75   | 1738501.63        | 375452.70          | 39°31'37.6801"N | 80°25'37.4254"W | 2882.35           | 66.925          | 0.32          | -0.03                | -0.19               |                                                                |
| 7533.00 | 39.590          | 66.250      | 6577.31  | 5231.31    | 697.53         | 1153.70    | 2707.34   | 1738557.21        | 375476.72          | 39°31'37.9231"N | 80°25'36.7193"W | 2942.91           | 66.919          | 0.51          | -0.01                | -0.80               |                                                                |
| 7629.00 | 39.560          | 66.640      | 6651.30  | 5305.30    | 712.51         | 1178.14    | 2763.40   | 1738613.28        | 375501.16          | 39°31'38.1704"N | 80°25'36.0070"W | 3004.06           | 66.910          | 0.26          | -0.03                | 0.41                |                                                                |
| 7724.00 | 39.690          | 66.640      | 6724.48  | 5378.48    | 727.16         | 1202.16    | 2819.02   | 1738668.90        | 375525.18          | 39°31'38.4135"N | 80°25'35.3004"W | 3064.65           | 66.904          | 0.14          | 0.14                 | 0.00                |                                                                |
| 7819.00 | 39.690          | 65.850      | 6797.56  | 5451.56    | 742.23         | 1226.60    | 2874.55   | 1738724.43        | 375549.62          | 39°31'38.6607"N | 80°25'34.5949"W | 3125.32           | 66.892          | 0.53          | 0.00                 | -0.83               |                                                                |
| 7914.00 | 39.880          | 66.020      | 6870.70  | 5524.70    | 757.62         | 1251.33    | 2929.93   | 1738779.80        | 375574.35          | 39°31'38.9108"N | 80°25'33.8914"W | 3185.96           | 66.873          | 0.12          | -0.03                | 0.18                |                                                                |
| 8009.00 | 39.600          | 66.650      | 6943.87  | 5597.87    | 772.58         | 1275.66    | 2985.43   | 1738835.30        | 375598.67          | 39°31'39.1568"N | 80°25'33.1864"W | 3246.55           | 66.863          | 0.43          | -0.06                | 0.66                |                                                                |
| 8104.00 | 39.740          | 67.050      | 7016.99  | 5670.99    | 787.02         | 1299.50    | 3041.19   | 1738891.06        | 375622.51          | 39°31'39.3961"N | 80°25'32.4779"W | 3307.19           | 66.863          | 0.31          | 0.15                 | 0.42                |                                                                |
| 8199.00 | 39.680          | 65.680      | 7090.07  | 5744.07    | 801.98         | 1323.83    | 3096.79   | 1738946.66        | 375646.85          | 39°31'39.6443"N | 80°25'31.7715"W | 3367.88           | 66.854          | 0.92          | -0.06                | -1.44               |                                                                |
| 8294.00 | 39.600          | 65.430      | 7163.23  | 5817.23    | 817.74         | 1348.91    | 3151.96   | 1739001.84        | 375671.93          | 39°31'39.8978"N | 80°25'31.0707"W | 3428.47           | 66.831          | 0.19          | -0.08                | -0.26               |                                                                |
| 8389.00 | 41.880          | 54.140      | 7235.30  | 5889.30    | 839.86         | 1380.12    | 3205.28   | 1739055.15        | 375703.14          | 39°31'40.2117"N | 80°25'30.3944"W | 3489.78           | 66.704          | 8.11          | 2.40                 | -11.88              |                                                                |
| 8484.00 | 44.630          | 35.750      | 7304.77  | 5958.77    | 877.71         | 1425.97    | 3250.67   | 1739100.54        | 375748.99          | 39°31'40.6695"N | 80°25'29.8212"W | 3549.68           | 66.314          | 13.54         | 2.89                 | -19.36              |                                                                |
| 8580.00 | 45.040          | 33.050      | 7372.85  | 6026.85    | 926.58         | 1481.81    | 3288.90   | 1739138.77        | 375804.83          | 39°31'41.2253"N | 80°25'29.3407"W | 3607.30           | 65.746          | 2.03          | 0.43                 | -2.81               |                                                                |
| 8675.00 | 47.800          | 28.050      | 7438.36  | 6092.36    | 979.37         | 1541.07    | 3323.79   | 1739173.66        | 375864.09          | 39°31'41.8145"N | 80°25'28.9031"W | 3663.67           | 65.125          | 4.79          | 2.91                 | -5.26               |                                                                |
| 8770.00 | 53.190          | 16.000      | 7498.90  | 6152.90    | 1041.86        | 1608.88    | 3350.90   | 1739200.77        | 375931.90          | 39°31'42.4874"N | 80°25'28.5661"W | 3717.13           | 64.353          | 11.30         | 5.67                 | -12.68              |                                                                |
| 8864.00 | 53.540          | 5.540       | 7551.04  | 6205.04    | 1115.22        | 1685.80    | 3365.23   | 1739215.10        | 376008.62          | 39°31'43.2472"N | 80°25'28.3533"W | 3763.78           | 63.394          | 11.45         | 6.76                 | -11.13              |                                                                |





# Actual Wellpath Report

Carnegie 17H Proj: 22627'

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## REFERENCE WELLPATH IDENTIFICATION

|          |                        |          |              |
|----------|------------------------|----------|--------------|
| Operator | EQT PRODUCTION COMPANY | Well     | Carnegie 17H |
| Field    | Marion                 | API      | 47-049-02528 |
| Facility | Carnegie Pad           | Wellbore | Carnegie 17H |
| Slot     | Slot 17                |          |              |

## WELLPATH DATA (268 stations) † = Interpolated, ‡ = extrapolated station

| MD<br>[ft] | Inclination<br>[°] | Azimuth<br>[°] | TVD<br>[ft] | TVDSS<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      |
|------------|--------------------|----------------|-------------|---------------|-------------------|---------------|--------------|----------------------|-----------------------|-----------------|-----------------|----------------------|--------------------|------------------|-------------------------|------------------------|---------------|
| 8960.00    | 61.100             | 355.010        | 7598.67     | 6252.67       | 1197.29           | 1768.83       | 3365.57      | 1739215.44           | 376091.85             | 39°31'44.0698"N | 80°25'28.3999"W | 3802.08              | 62.275             | 9.66             | 1.62                    | -10.97                 |               |
| 9055.00    | 67.880             | 351.110        | 7639.59     | 6293.59       | 1282.87           | 1853.85       | 3365.13      | 1739205.01           | 376176.87             | 39°31'44.9090"N | 80°25'28.5442"W | 3833.23              | 61.077             | 8.02             | 7.12                    | -4.11                  |               |
| 9150.00    | 73.240             | 347.280        | 7671.22     | 6325.22       | 1372.37           | 1941.78       | 3338.30      | 1739188.17           | 376264.80             | 39°31'45.7763"N | 80°25'28.7706"W | 3861.96              | 59.815             | 6.82             | 5.66                    | -4.03                  |               |
| 9178.40†   | 75.641             | 346.303        | 7678.84     | 6332.84       | 1399.66           | 1968.41       | 3332.05      | 1739181.92           | 376291.43             | 39°31'46.0389"N | 80°25'28.8539"W | 3870.04              | 59.427             | 9.08             | 8.45                    | -3.44                  | Marcellus     |
| 9244.00    | 81.200             | 344.120        | 7692.01     | 6348.01       | 1463.61           | 2030.52       | 3315.64      | 1739165.51           | 376353.53             | 39°31'46.5510"N | 80°25'29.0714"W | 3887.99              | 58.516             | 9.08             | 8.47                    | -3.33                  |               |
| 9340.00    | 88.800             | 340.740        | 7700.37     | 6354.37       | 1558.18           | 2121.61       | 3286.78      | 1739136.66           | 376444.62             | 39°31'47.5463"N | 80°25'29.4517"W | 3912.05              | 57.158             | 8.66             | 7.92                    | -3.52                  | Landing Point |
| 9435.00    | 87.690             | 336.730        | 7703.28     | 6357.28       | 1651.08           | 2210.08       | 3252.35      | 1739102.23           | 376533.09             | 39°31'48.4192"N | 80°25'29.9027"W | 3932.21              | 55.803             | 4.38             | -1.17                   | -4.22                  |               |
| 9530.00    | 91.260             | 339.390        | 7704.15     | 6358.15       | 1743.77           | 2298.17       | 3216.87      | 1739066.74           | 376621.19             | 39°31'49.2863"N | 80°25'30.3672"W | 3953.46              | 54.457             | 4.69             | 3.76                    | 2.80                   |               |
| 9625.00    | 86.860             | 335.490        | 7705.71     | 6359.71       | 1836.21           | 2385.85       | 3180.44      | 1739030.32           | 376708.87             | 39°31'50.1492"N | 80°25'30.8436"W | 3975.87              | 53.124             | 6.19             | -4.63                   | -4.11                  |               |
| 9719.00    | 86.490             | 334.380        | 7711.16     | 6365.16       | 1926.56           | 2470.66       | 3140.69      | 1738990.56           | 376793.87             | 39°31'50.9852"N | 80°25'31.3621"W | 3996.13              | 51.807             | 1.24             | -0.39                   | -1.15                  |               |
| 9815.00    | 88.190             | 334.860        | 7715.62     | 6369.62       | 2018.73           | 2557.49       | 3099.59      | 1738949.46           | 376880.51             | 39°31'51.8373"N | 80°25'31.8981"W | 4018.48              | 50.474             | 1.84             | 1.77                    | 0.50                   |               |
| 9910.00    | 89.110             | 334.600        | 7717.85     | 6371.85       | 2110.07           | 2643.38       | 3059.04      | 1738908.92           | 376966.39             | 39°31'52.6820"N | 80°25'32.4268"W | 4042.92              | 49.189             | 1.01             | 0.97                    | -0.27                  |               |
| 10005.00   | 89.480             | 333.770        | 7719.02     | 6373.02       | 2201.17           | 2728.89       | 3017.68      | 1738867.55           | 377051.90             | 39°31'53.5229"N | 80°25'32.9659"W | 4068.57              | 47.877             | 0.96             | 0.39                    | -0.87                  |               |
| 10100.00   | 90.680             | 335.400        | 7718.89     | 6372.89       | 2292.47           | 2814.69       | 2976.91      | 1738826.76           | 377137.71             | 39°31'54.3668"N | 80°25'33.4976"W | 4096.89              | 46.604             | 2.13             | 1.26                    | 1.72                   |               |
| 10195.00   | 91.750             | 332.710        | 7718.53     | 6372.53       | 2385.51           | 2900.11       | 2935.35      | 1738785.23           | 377223.12             | 39°31'55.2266"N | 80°25'34.0392"W | 4126.37              | 45.346             | 3.00             | -0.98                   | -2.83                  |               |
| 10290.00   | 89.680             | 334.250        | 7719.02     | 6373.02       | 2474.28           | 2985.11       | 2892.94      | 1738742.82           | 377308.13             | 39°31'56.0426"N | 80°25'34.5916"W | 4156.92              | 44.102             | 1.63             | -0.09                   | 1.63                   |               |
| 10386.00   | 90.150             | 334.510        | 7719.18     | 6373.18       | 2566.45           | 3071.68       | 2851.44      | 1738701.31           | 377394.69             | 39°31'56.8939"N | 80°25'35.1327"W | 4191.17              | 42.871             | 0.57             | 0.51                    | 0.26                   |               |
| 10481.00   | 90.400             | 334.470        | 7718.73     | 6372.73       | 2657.71           | 3157.41       | 2810.53      | 1738660.40           | 377480.43             | 39°31'57.7371"N | 80°25'35.6662"W | 4227.09              | 41.673             | 0.27             | 0.26                    | -0.04                  |               |
| 10576.00   | 91.170             | 334.360        | 7717.43     | 6371.43       | 2748.92           | 3243.09       | 2769.50      | 1738619.38           | 377566.10             | 39°31'58.5797"N | 80°25'36.2010"W | 4264.71              | 40.496             | 0.82             | 0.81                    | -0.12                  |               |
| 10672.00   | 89.880             | 333.790        | 7716.55     | 6370.55       | 2840.93           | 3329.42       | 2727.54      | 1738577.41           | 377652.44             | 39°31'59.4287"N | 80°25'36.7480"W | 4304.01              | 39.325             | 1.47             | -1.34                   | -0.59                  |               |
| 10768.00   | 89.290             | 333.190        | 7717.23     | 6371.23       | 2930.75           | 3413.54       | 2685.58      | 1738535.46           | 377736.55             | 39°32'0.2557"N  | 80°25'37.2945"W | 4343.34              | 38.194             | 0.90             | -0.63                   | -0.64                  |               |
| 10861.00   | 90.220             | 335.430        | 7717.63     | 6371.63       | 3021.92           | 3499.14       | 2644.40      | 1738494.28           | 377822.15             | 39°32'1.0975"N  | 80°25'37.8314"W | 4385.98              | 37.079             | 2.55             | 0.98                    | 2.36                   |               |
| 10956.00   | 89.940             | 334.360        | 7717.50     | 6371.50       | 3113.36           | 3585.16       | 2604.10      | 1738453.97           | 377908.18             | 39°32'1.9436"N  | 80°25'38.3571"W | 4431.11              | 35.993             | 1.16             | -0.29                   | -1.13                  |               |
| 11051.00   | 90.000             | 335.870        | 7717.55     | 6371.55       | 3204.89           | 3671.34       | 2564.12      | 1738414.00           | 377994.35             | 39°32'2.7913"N  | 80°25'38.8787"W | 4478.11              | 34.931             | 1.59             | 0.06                    | 1.59                   |               |
| 11147.00   | 91.020             | 334.590        | 7716.70     | 6370.70       | 3297.44           | 3758.50       | 2523.90      | 1738373.78           | 378081.51             | 39°32'3.6486"N  | 80°25'39.4055"W | 4527.30              | 33.882             | 1.70             | 1.06                    | -1.33                  |               |
| 11242.00   | 90.400             | 334.890        | 7715.52     | 6369.52       | 3388.80           | 3844.41       | 2483.37      | 1738333.24           | 378167.42             | 39°32'4.4935"N  | 80°25'39.9322"W | 4576.75              | 32.861             | 0.73             | -0.65                   | 0.32                   |               |
| 11337.00   | 89.760             | 334.700        | 7715.39     | 6369.39       | 3480.20           | 3930.37       | 2442.91      | 1738292.79           | 378253.38             | 39°32'5.3389"N  | 80°25'40.4599"W | 4627.70              | 31.863             | 0.70             | -0.67                   | -0.20                  |               |
| 11432.00   | 90.120             | 333.560        | 7715.48     | 6369.48       | 3571.28           | 4015.84       | 2401.46      | 1738251.34           | 378338.86             | 39°32'6.1795"N  | 80°25'41.0002"W | 4679.10              | 30.879             | 1.26             | 0.38                    | -1.20                  |               |
| 11527.00   | 89.660             | 334.010        | 7715.67     | 6369.67       | 3662.20           | 4101.07       | 2359.50      | 1738209.37           | 378424.08             | 39°32'7.0176"N  | 80°25'41.5470"W | 4731.38              | 29.913             | 0.68             | -0.48                   | 0.47                   |               |
| 11622.00   | 90.340             | 334.760        | 7715.67     | 6369.67       | 3753.41           | 4186.73       | 2318.43      | 1738168.30           | 378509.74             | 39°32'7.8600"N  | 80°25'42.0825"W | 4785.79              | 28.976             | 1.07             | 0.72                    | 0.79                   |               |





# Actual Wellpath Report

Carnegie 17H Proj: 22627'

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## REFERENCE WELLPATH IDENTIFICATION

|          |                        |          |              |
|----------|------------------------|----------|--------------|
| Operator | EQT PRODUCTION COMPANY | Well     | Carnegie 17H |
| Field    | Marion                 | API      | 47-049-02528 |
| Facility | Carnegie Pad           | Wellbore | Carnegie 17H |
| Slot     | Slot 17                |          |              |

## WELLPATH DATA (268 stations)

| MD [ft]  | Inclination [°] | Azimuth [°] | TVD [ft] | TVDSS [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 |
|----------|-----------------|-------------|----------|------------|----------------|------------|-----------|-------------------|--------------------|-----------------|-----------------|-------------------|-----------------|---------------|----------------------|---------------------|----------|
| 11718.00 | 89.170          | 334.420     | 7716.08  | 6370.08    | 3845.67        | 4273.44    | 2277.23   | 1738127.11        | 378596.46          | 39°32'8.7128"N  | 80°25'42.6197"W | 4842.33           | 28.052          | 1.27          | -1.22                | -0.35               |          |
| 11813.00 | 91.360          | 334.130     | 7715.64  | 6369.64    | 3936.82        | 4359.02    | 2236.00   | 1738085.88        | 378682.03          | 39°32'9.5544"N  | 80°25'43.1572"W | 4899.06           | 27.156          | 2.33          | 2.31                 | -0.31               |          |
| 11907.00 | 89.570          | 335.050     | 7714.88  | 6368.88    | 4027.15        | 4443.92    | 2195.67   | 1738045.55        | 378766.93          | 39°32'10.3893"N | 80°25'43.6832"W | 4956.75           | 26.293          | 2.14          | -1.90                | 0.98                |          |
| 12002.00 | 89.630          | 334.840     | 7715.54  | 6369.54    | 4118.61        | 4529.98    | 2155.44   | 1738005.32        | 378852.99          | 39°32'11.2358"N | 80°25'44.2080"W | 5016.64           | 25.446          | 0.23          | 0.06                 | -0.22               |          |
| 12097.00 | 89.790          | 335.190     | 7716.02  | 6370.02    | 4210.11        | 4616.09    | 2115.31   | 1737965.19        | 378939.10          | 39°32'12.0827"N | 80°25'44.7315"W | 5077.68           | 24.620          | 0.41          | 0.17                 | 0.37                |          |
| 12193.00 | 90.090          | 335.960     | 7716.12  | 6370.12    | 4302.81        | 4703.50    | 2075.62   | 1737925.49        | 379026.51          | 39°32'12.9425"N | 80°25'45.2497"W | 5141.12           | 23.812          | 0.86          | 0.31                 | 0.80                |          |
| 12287.00 | 89.540          | 334.960     | 7716.42  | 6370.42    | 4393.53        | 4789.00    | 2036.58   | 1737886.45        | 379112.01          | 39°32'13.7836"N | 80°25'45.7593"W | 5204.06           | 23.038          | 1.21          | -0.59                | -1.06               |          |
| 12382.00 | 90.310          | 336.610     | 7716.55  | 6370.55    | 4485.36        | 4875.64    | 1997.61   | 1737847.49        | 379198.65          | 39°32'14.6359"N | 80°25'46.2681"W | 5269.00           | 22.280          | 1.92          | 0.81                 | 1.74                |          |
| 12477.00 | 89.390          | 334.790     | 7716.80  | 6370.80    | 4577.15        | 4982.22    | 1958.52   | 1737808.40        | 379285.23          | 39°32'15.4876"N | 80°25'46.7785"W | 5334.74           | 21.539          | 2.15          | -0.97                | -1.92               |          |
| 12572.00 | 89.020          | 334.490     | 7716.11  | 6372.11    | 4668.46        | 5048.06    | 1917.84   | 1737767.71        | 379371.07          | 39°32'16.3318"N | 80°25'47.3031"W | 5401.09           | 20.603          | 0.50          | -0.39                | -0.32               |          |
| 12667.00 | 91.230          | 335.720     | 7717.91  | 6371.91    | 4759.99        | 5134.22    | 1877.85   | 1737727.73        | 379457.23          | 39°32'17.1793"N | 80°25'47.8309"W | 5466.86           | 20.090          | 2.66          | 2.33                 | 1.29                |          |
| 12762.00 | 88.960          | 334.220     | 7717.75  | 6371.75    | 4851.45        | 5220.29    | 1837.66   | 1737687.54        | 379543.30          | 39°32'18.0259"N | 80°25'48.3552"W | 5534.30           | 19.393          | 2.86          | -2.39                | -1.58               |          |
| 12856.00 | 90.990          | 334.850     | 7717.79  | 6371.79    | 4941.76        | 5305.15    | 1797.25   | 1737647.12        | 379628.16          | 39°32'18.8605"N | 80°25'48.8823"W | 5601.32           | 18.715          | 2.26          | 2.16                 | 0.67                |          |
| 12951.00 | 89.360          | 335.320     | 7717.50  | 6371.50    | 5033.28        | 5391.31    | 1757.23   | 1737607.10        | 379714.32          | 39°32'19.7079"N | 80°25'49.4045"W | 5670.46           | 18.053          | 1.79          | -1.72                | 0.49                |          |
| 13047.00 | 88.890          | 334.790     | 7718.97  | 6372.97    | 5125.75        | 5478.34    | 1716.74   | 1737566.82        | 379801.35          | 39°32'20.5639"N | 80°25'49.9327"W | 5741.03           | 17.399          | 0.74          | -0.48                | -0.55               |          |
| 13142.00 | 89.080          | 334.960     | 7720.85  | 6374.85    | 5217.16        | 5564.34    | 1676.41   | 1737526.29        | 379887.35          | 39°32'21.4097"N | 80°25'50.4588"W | 5811.39           | 16.766          | 0.27          | 0.20                 | 0.18                |          |
| 13236.00 | 88.680          | 333.890     | 7722.49  | 6376.49    | 5307.41        | 5649.11    | 1635.84   | 1737485.72        | 379972.12          | 39°32'22.2434"N | 80°25'50.9879"W | 5881.20           | 16.150          | 1.22          | -0.43                | -1.14               |          |
| 13331.00 | 90.160          | 334.100     | 7723.45  | 6377.45    | 5398.43        | 5734.49    | 1594.19   | 1737444.07        | 380057.50          | 39°32'23.0829"N | 80°25'51.5308"W | 5951.96           | 15.536          | 1.57          | 1.56                 | 0.22                |          |
| 13426.00 | 89.690          | 335.250     | 7723.57  | 6377.57    | 5489.76        | 5820.36    | 1553.56   | 1737403.44        | 380143.37          | 39°32'23.9274"N | 80°25'52.0608"W | 6024.13           | 14.945          | 1.31          | -0.49                | 1.21                |          |
| 13521.00 | 90.030          | 333.640     | 7723.81  | 6377.81    | 5581.00        | 5906.06    | 1512.58   | 1737362.48        | 380229.07          | 39°32'24.7703"N | 80°25'52.5952"W | 6095.67           | 14.365          | 1.73          | 0.38                 | -1.63               |          |
| 13616.00 | 90.090          | 336.110     | 7723.71  | 6377.71    | 5672.42        | 5992.06    | 1472.25   | 1737322.12        | 380315.07          | 39°32'25.6181"N | 80°25'53.1214"W | 6170.28           | 13.804          | 2.60          | 0.06                 | 2.60                |          |
| 13711.00 | 89.290          | 333.130     | 7724.22  | 6378.22    | 5763.72        | 6077.88    | 1431.53   | 1737281.41        | 380400.89          | 39°32'26.4601"N | 80°25'53.6525"W | 6244.19           | 13.253          | 3.25          | -0.84                | -3.14               |          |
| 13806.00 | 90.220          | 334.720     | 7724.63  | 6378.63    | 5854.71        | 6163.21    | 1389.78   | 1737239.66        | 380486.22          | 39°32'27.2992"N | 80°25'54.1967"W | 6317.96           | 12.707          | 1.94          | 0.98                 | 1.67                |          |
| 13901.00 | 89.540          | 334.870     | 7724.83  | 6378.83    | 5945.10        | 6249.16    | 1349.32   | 1737199.20        | 380572.17          | 39°32'28.1445"N | 80°25'54.7245"W | 6393.18           | 12.184          | 0.73          | -0.72                | 0.16                |          |
| 13995.00 | 89.600          | 334.440     | 7725.54  | 6379.54    | 6037.43        | 6335.02    | 1308.66   | 1737158.53        | 380658.03          | 39°32'28.9889"N | 80°25'55.2549"W | 6468.77           | 11.672          | 0.46          | 0.05                 | -0.45               |          |
| 14091.00 | 88.400          | 334.880     | 7727.20  | 6381.20    | 6128.75        | 6420.86    | 1268.00   | 1737117.88        | 380743.87          | 39°32'29.8332"N | 80°25'55.7852"W | 6544.87           | 11.171          | 1.35          | -1.26                | 0.46                |          |
| 14186.00 | 90.000          | 334.310     | 7728.52  | 6382.52    | 6220.04        | 6506.66    | 1227.25   | 1737077.13        | 380829.67          | 39°32'30.6770"N | 80°25'56.3167"W | 6621.39           | 10.681          | 1.79          | 1.68                 | -0.60               |          |
| 14281.00 | 89.350          | 335.270     | 7729.06  | 6383.06    | 6311.43        | 6592.61    | 1186.79   | 1737036.67        | 380915.62          | 39°32'31.5223"N | 80°25'56.8446"W | 6698.58           | 10.205          | 1.22          | -0.68                | 1.01                |          |
| 14376.00 | 89.320          | 335.030     | 7730.16  | 6384.16    | 6402.98        | 6678.81    | 1146.87   | 1736996.75        | 381001.82          | 39°32'32.3701"N | 80°25'57.3656"W | 6776.56           | 9.744           | 0.25          | -0.03                | -0.25               |          |
| 14471.00 | 88.890          | 334.310     | 7731.65  | 6385.65    | 6494.30        | 6764.67    | 1106.23   | 1736956.11        | 381087.67          | 39°32'33.2145"N | 80°25'57.8957"W | 6854.52           | 9.287           | 0.88          | -0.45                | -0.76               |          |





# Actual Wellpath Report

Carnegie 17H Proj: 22627'

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## REFERENCE WELLPATH IDENTIFICATION

|          |                        |          |              |
|----------|------------------------|----------|--------------|
| Operator | EQT PRODUCTION COMPANY | Well     | Carnegie 17H |
| Field    | Marion                 | API      | 47-049-02528 |
| Facility | Carnegie Pad           | Wellbore | Carnegie 17H |
| Slot     | Slot 17                |          |              |

## WELLPATH DATA (268 stations) † = interpolated, ‡ = extrapolated station

| MD<br>[ft] | Inclination<br>[°] | Azimuth<br>[°] | TVD<br>[ft] | TVDSS<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 |
|------------|--------------------|----------------|-------------|---------------|-------------------|---------------|--------------|----------------------|-----------------------|-----------------|-----------------|----------------------|--------------------|------------------|-------------------------|------------------------|----------|
| 14566.00   | 88.890             | 334.890        | 7733.49     | 6387.49       | 6585.59           | 6850.47       | 1065.49      | 1736915.37           | 381173.47             | 39°32'34.0583"N | 80°25'58.4271"W | 6932.83              | 8.841              | 0.61             | 0.00                    | 0.61                   |          |
| 14661.00   | 90.340             | 334.840        | 7734.13     | 6388.13       | 6677.02           | 6936.47       | 1025.14      | 1736875.02           | 381259.47             | 39°32'34.9041"N | 80°25'58.9536"W | 7011.81              | 8.407              | 1.53             | 1.53                    | -0.05                  |          |
| 14756.00   | 89.420             | 333.840        | 7734.33     | 6388.33       | 6768.20           | 7022.10       | 984.00       | 1736833.88           | 381345.10             | 39°32'35.7462"N | 80°25'59.4900"W | 7090.71              | 7.977              | 1.43             | -0.97                   | -1.05                  |          |
| 14851.00   | 90.800             | 334.670        | 7734.14     | 6388.14       | 6859.34           | 7107.66       | 942.74       | 1736792.62           | 381430.67             | 39°32'36.5877"N | 80°26'0.0281"W  | 7169.91              | 7.555              | 1.70             | 1.45                    | 0.87                   |          |
| 14945.00   | 89.170             | 332.780        | 7734.17     | 6388.17       | 6949.27           | 7191.84       | 901.12       | 1736751.00           | 381514.94             | 39°32'37.4163"N | 80°26'0.5706"W  | 7248.17              | 7.142              | 2.67             | -1.73                   | -2.03                  |          |
| 15040.00   | 89.850             | 336.580        | 7734.98     | 6388.98       | 7040.59           | 7277.78       | 860.48       | 1736710.36           | 381600.79             | 39°32'38.2606"N | 80°26'1.1007"W  | 7328.48              | 6.743              | 4.08             | 0.72                    | 4.02                   |          |
| 15134.00   | 90.460             | 335.180        | 7734.73     | 6388.73       | 7131.48           | 7363.57       | 822.07       | 1736671.95           | 381686.58             | 39°32'39.1045"N | 80°26'1.6024"W  | 7409.32              | 6.370              | 1.62             | 0.65                    | -1.49                  |          |
| 15229.00   | 89.110             | 334.860        | 7735.08     | 6389.08       | 7222.98           | 7449.68       | 781.85       | 1736631.83           | 381772.69             | 39°32'39.9514"N | 80°26'2.1259"W  | 7490.61              | 5.992              | 1.46             | -1.42                   | -0.34                  |          |
| 15324.00   | 89.600             | 335.920        | 7736.15     | 6390.15       | 7314.63           | 7536.05       | 742.40       | 1736592.27           | 381859.05             | 39°32'40.8009"N | 80°26'2.8423"W  | 7572.53              | 5.626              | 1.23             | 0.52                    | 1.12                   |          |
| 15419.00   | 90.050             | 335.990        | 7736.43     | 6390.43       | 7406.52           | 7622.79       | 703.67       | 1736553.54           | 381945.80             | 39°32'41.5543"N | 80°26'3.1482"W  | 7655.20              | 5.274              | 0.49             | 0.48                    | 0.04                   |          |
| 15513.00   | 89.380             | 334.960        | 7736.89     | 6390.89       | 7497.25           | 7708.30       | 664.63       | 1736514.50           | 382031.31             | 39°32'42.4954"N | 80°26'3.6579"W  | 7736.90              | 4.928              | 1.29             | -0.72                   | -1.06                  |          |
| 15607.00   | 90.280             | 334.720        | 7737.17     | 6391.17       | 7587.70           | 7793.38       | 624.66       | 1736474.54           | 382116.39             | 39°32'43.3321"N | 80°26'4.1794"W  | 7818.38              | 4.583              | 0.99             | 0.96                    | -0.26                  |          |
| 15702.00   | 89.510             | 334.980        | 7737.35     | 6391.35       | 7679.12           | 7879.37       | 584.29       | 1736434.17           | 382202.38             | 39°32'44.1779"N | 80°26'4.7061"W  | 7901.01              | 4.241              | 0.86             | -0.81                   | 0.27                   |          |
| 15797.00   | 90.710             | 335.830        | 7737.16     | 6391.16       | 7770.78           | 7965.75       | 544.75       | 1736394.63           | 382288.76             | 39°32'45.0275"N | 80°26'5.2223"W  | 7984.36              | 3.912              | 1.55             | 1.26                    | 0.89                   |          |
| 15892.00   | 89.420             | 335.280        | 7737.06     | 6391.06       | 7862.51           | 8052.23       | 505.44       | 1736355.32           | 382375.24             | 39°32'45.8782"N | 80°26'5.7356"W  | 8068.06              | 3.592              | 1.48             | -1.38                   | -0.68                  |          |
| 15987.00   | 89.510             | 336.280        | 7737.94     | 6391.94       | 7954.33           | 8138.87       | 466.47       | 1736316.35           | 382461.87             | 39°32'46.7304"N | 80°26'6.2446"W  | 8152.22              | 3.280              | 1.06             | 0.03                    | 1.05                   |          |
| 15993.85†  | 89.543             | 336.157        | 7738.00     | 6392.00       | 7960.96           | 8145.14       | 463.71       | 1736313.59           | 382468.14             | 39°32'46.7921"N | 80°26'6.2807"W  | 8158.32              | 3.258              | 1.85             | 0.48                    | -1.79                  | Onondaga |
| 16082.00   | 89.970             | 334.580        | 7738.37     | 6392.37       | 8046.00           | 8225.26       | 426.97       | 1736276.85           | 382548.26             | 39°32'47.5802"N | 80°26'6.7603"W  | 8236.34              | 2.972              | 1.85             | 0.48                    | -1.79                  |          |
| 16177.00   | 89.110             | 334.760        | 7739.14     | 6393.14       | 8137.34           | 8311.12       | 386.33       | 1736236.21           | 382634.13             | 39°32'48.4246"N | 80°26'7.2905"W  | 8320.10              | 2.661              | 0.92             | -0.91                   | 0.19                   |          |
| 16272.00   | 90.490             | 335.890        | 7739.47     | 6393.47       | 8226.86           | 8397.45       | 346.67       | 1736196.55           | 382720.45             | 39°32'49.2737"N | 80°26'7.8083"W  | 8404.80              | 2.364              | 1.58             | 1.45                    | 1.19                   |          |
| 16366.00   | 88.340             | 332.300        | 7740.43     | 6394.43       | 8319.05           | 8481.98       | 305.61       | 1736155.49           | 382804.98             | 39°32'50.1049"N | 80°26'8.3436"W  | 8487.48              | 2.064              | 4.45             | -2.29                   | -3.62                  |          |
| 16461.00   | 89.020             | 335.140        | 7742.62     | 6396.62       | 8409.91           | 8567.13       | 263.57       | 1736113.45           | 382890.13             | 39°32'50.9422"N | 80°26'8.8917"W  | 8571.18              | 1.762              | 3.07             | 0.72                    | 2.89                   |          |
| 16556.00   | 90.800             | 335.690        | 7742.77     | 6396.77       | 8501.57           | 8653.51       | 224.05       | 1736073.92           | 382976.51             | 39°32'51.7919"N | 80°26'9.4077"W  | 8656.41              | 1.483              | 1.96             | 1.87                    | 0.58                   |          |
| 16650.00   | 90.680             | 335.710        | 7741.55     | 6395.55       | 8592.39           | 8739.18       | 185.37       | 1736035.25           | 383062.18             | 39°32'52.6345"N | 80°26'9.9128"W  | 8741.14              | 1.215              | 0.13             | -0.13                   | 0.02                   |          |
| 16745.00   | 90.220             | 335.610        | 7740.81     | 6394.81       | 8684.17           | 8825.73       | 148.21       | 1735996.06           | 383148.73             | 39°32'53.4859"N | 80°26'10.4241"W | 8828.94              | 0.949              | 0.50             | -0.48                   | -0.11                  |          |
| 16839.00   | 90.150             | 334.940        | 7740.50     | 6394.50       | 8774.81           | 8911.11       | 106.90       | 1735958.78           | 383234.11             | 39°32'54.3257"N | 80°26'10.9374"W | 8911.75              | 0.687              | 0.72             | -0.07                   | -0.71                  |          |
| 16934.00   | 89.200             | 334.460        | 7741.04     | 6395.04       | 8866.16           | 8997.00       | 66.30        | 1735916.18           | 383320.00             | 39°32'55.1704"N | 80°26'11.4671"W | 8997.24              | 0.422              | 1.12             | -1.00                   | -0.51                  |          |
| 17029.00   | 90.490             | 336.440        | 7741.30     | 6395.30       | 8957.84           | 9083.40       | 26.83        | 1735876.71           | 383406.40             | 39°32'56.0203"N | 80°26'11.9824"W | 9083.44              | 0.169              | 2.49             | 1.36                    | 2.08                   |          |
| 17123.00   | 89.020             | 332.570        | 7741.70     | 6395.70       | 9048.12           | 9168.23       | -13.62       | 1735836.26           | 383491.23             | 39°32'56.8545"N | 80°26'12.5101"W | 9168.24              | 359.915            | 4.40             | -1.56                   | -4.12                  |          |
| 17217.00   | 89.830             | 335.540        | 7742.81     | 6396.81       | 9138.20           | 9252.74       | -54.74       | 1735795.14           | 383575.74             | 39°32'57.6855"N | 80°26'13.0463"W | 9252.90              | 359.661            | 3.23             | 0.65                    | 3.16                   |          |





# Actual Wellpath Report

Carnegie 17H Proj: 22627'

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## REFERENCE WELLPATH IDENTIFICATION

|          |                        |          |              |
|----------|------------------------|----------|--------------|
| Operator | EQT PRODUCTION COMPANY | Well     | Carnegie 17H |
| Field    | Marion                 | API      | 47-049-02528 |
| Facility | Carnegie Pad           | Wellbore | Carnegie 17H |
| Slot     | Slot 17                |          |              |

## WELLPATH DATA (268 stations)

| MD<br>(ft) | Inclination<br>(°) | Azimuth<br>(°) | TVD<br>(ft) | TVDSS<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 |
|------------|--------------------|----------------|-------------|---------------|-------------------|---------------|--------------|----------------------|-----------------------|-----------------|-----------------|----------------------|--------------------|------------------|-------------------------|------------------------|----------|
| 17312.00   | 89.230             | 335.210        | 7743.75     | 6397.75       | 9229.84           | 9339.09       | -94.32       | 1735755.56           | 383662.10             | 39°32'58.5349"N | 80°26'13.5631"W | 9339.57              | 359.421            | 0.55             | -0.42                   | -0.35                  |          |
| 17407.00   | 90.000             | 335.620        | 7744.39     | 6398.39       | 9321.51           | 9425.48       | -133.84      | 1735716.04           | 383748.48             | 39°32'59.3846"N | 80°26'14.0791"W | 9426.43              | 359.186            | 0.92             | 0.81                    | 0.43                   |          |
| 17502.00   | 89.510             | 335.250        | 7744.80     | 6398.80       | 9413.19           | 9511.88       | -173.34      | 1735676.54           | 383834.88             | 39°33'0.2344"N  | 80°26'14.5948"W | 9513.46              | 358.956            | 0.65             | -0.52                   | -0.38                  |          |
| 17596.00   | 90.340             | 336.150        | 7744.92     | 6398.92       | 9504.01           | 9597.55       | -212.02      | 1735637.86           | 383920.55             | 39°33'1.0772"N  | 80°26'15.1000"W | 9599.89              | 358.734            | 1.30             | 0.88                    | 0.96                   |          |
| 17691.00   | 90.220             | 336.580        | 7744.45     | 6398.45       | 9596.08           | 9684.57       | -250.12      | 1735599.76           | 384007.57             | 39°33'1.9332"N  | 80°26'15.5980"W | 9687.80              | 358.521            | 0.45             | -0.13                   | 0.43                   |          |
| 17786.00   | 89.020             | 335.340        | 7745.09     | 6399.09       | 9687.97           | 9771.32       | -288.83      | 1735561.05           | 384094.32             | 39°33'2.7867"N  | 80°26'16.1038"W | 9775.59              | 358.307            | 1.80             | -1.26                   | -1.28                  |          |
| 17881.00   | 89.690             | 335.120        | 7746.16     | 6400.16       | 9779.55           | 9857.57       | -328.63      | 1735521.25           | 384180.57             | 39°33'3.8350"N  | 80°26'16.6234"W | 9863.05              | 358.091            | 0.74             | 0.71                    | -0.23                  |          |
| 17976.00   | 90.150             | 335.200        | 7746.29     | 6400.29       | 9871.11           | 9943.79       | -368.54      | 1735481.34           | 384266.79             | 39°33'4.4830"N  | 80°26'17.1443"W | 9950.61              | 357.877            | 0.49             | 0.48                    | 0.08                   |          |
| 18070.00   | 90.280             | 335.440        | 7745.94     | 6399.94       | 9961.78           | 10029.20      | -407.79      | 1735442.09           | 384352.20             | 39°33'5.3231"N  | 80°26'17.6568"W | 10037.49             | 357.672            | 0.29             | 0.14                    | 0.26                   |          |
| 18166.00   | 89.603             | 336.500        | 7746.04     | 6400.04       | 10054.66          | 10116.90      | -446.84      | 1735403.04           | 384438.90             | 39°33'6.1656"N  | 80°26'18.1610"W | 10126.76             | 357.471            | 1.36             | -0.71                   | 1.17                   |          |
| 18261.00   | 89.380             | 334.410        | 7746.88     | 6400.88       | 10146.35          | 10203.32      | -486.25      | 1735363.63           | 384526.32             | 39°33'7.0359"N  | 80°26'18.6817"W | 10214.90             | 357.272            | 2.27             | -0.23                   | -2.26                  |          |
| 18356.00   | 89.630             | 335.710        | 7747.70     | 6401.70       | 10237.86          | 10289.46      | -526.31      | 1735323.57           | 384612.46             | 39°33'7.8831"N  | 80°26'19.2045"W | 10302.91             | 357.072            | 1.39             | 0.26                    | 1.37                   |          |
| 18451.00   | 90.460             | 336.450        | 7747.83     | 6401.83       | 10329.81          | 10376.30      | -564.82      | 1735285.06           | 384699.30             | 39°33'8.7374"N  | 80°26'19.7078"W | 10391.66             | 356.884            | 1.17             | 0.87                    | 0.78                   |          |
| 18546.00   | 89.480             | 336.320        | 7747.68     | 6401.68       | 10421.89          | 10463.34      | -602.88      | 1735247.00           | 384786.34             | 39°33'9.5937"N  | 80°26'20.2053"W | 10480.70             | 356.702            | 1.04             | -1.03                   | -0.14                  |          |
| 18640.00   | 89.830             | 335.630        | 7749.07     | 6403.07       | 10512.82          | 10549.19      | -641.15      | 1735208.73           | 384872.19             | 39°33'10.4382"N | 80°26'20.7053"W | 10568.65             | 356.522            | 1.01             | -0.68                   | -0.73                  |          |
| 18736.00   | 89.780             | 335.650        | 7750.22     | 6404.22       | 10605.55          | 10636.64      | -680.74      | 1735169.14           | 384959.63             | 39°33'11.2984"N | 80°26'21.2224"W | 10658.40             | 356.338            | 1.00             | 1.00                    | 0.02                   |          |
| 18831.00   | 89.110             | 336.080        | 7751.13     | 6405.13       | 10697.41          | 10723.33      | -719.58      | 1735130.30           | 385046.32             | 39°33'12.1511"N | 80°26'21.7299"W | 10747.44             | 356.161            | 0.85             | -0.72                   | 0.45                   |          |
| 18926.00   | 89.170             | 336.180        | 7752.56     | 6406.56       | 10789.37          | 10810.19      | -758.02      | 1735091.86           | 385133.19             | 39°33'13.0057"N | 80°26'22.2322"W | 10836.73             | 355.989            | 0.12             | 0.06                    | 0.11                   |          |
| 19021.00   | 89.820             | 335.670        | 7753.40     | 6407.40       | 10881.25          | 10896.92      | -796.77      | 1735053.11           | 385219.92             | 39°33'13.8589"N | 80°26'22.7385"W | 10926.01             | 355.818            | 0.87             | 0.68                    | -0.54                  |          |
| 19116.00   | 90.430             | 335.790        | 7753.19     | 6407.19       | 10973.06          | 10983.53      | -835.82      | 1735014.06           | 385306.52             | 39°33'14.7108"N | 80°26'23.2486"W | 11015.28             | 355.648            | 0.65             | 0.64                    | 0.13                   |          |
| 19211.00   | 89.020             | 333.930        | 7753.65     | 6407.65       | 11064.47          | 11069.52      | -876.18      | 1734973.71           | 385392.52             | 39°33'15.5565"N | 80°26'23.7753"W | 11104.14             | 355.474            | 2.46             | -1.48                   | -1.96                  |          |
| 19306.00   | 90.190             | 335.160        | 7754.30     | 6408.30       | 11155.75          | 11155.29      | -917.01      | 1734932.88           | 385478.29             | 39°33'16.4000"N | 80°26'24.3080"W | 11192.92             | 355.301            | 1.79             | 1.23                    | 1.29                   |          |
| 19401.00   | 88.860             | 335.240        | 7755.09     | 6409.09       | 11247.32          | 11241.53      | -956.85      | 1734893.03           | 385564.52             | 39°33'17.2481"N | 80°26'24.8282"W | 11282.17             | 355.135            | 1.40             | -1.40                   | 0.08                   |          |
| 19496.00   | 89.260             | 333.860        | 7756.65     | 6410.65       | 11338.59          | 11327.29      | -997.67      | 1734852.21           | 385650.29             | 39°33'18.0916"N | 80°26'25.3608"W | 11371.14             | 354.967            | 1.51             | 0.42                    | -1.45                  |          |
| 19590.00   | 89.570             | 335.000        | 7757.61     | 6411.61       | 11428.85          | 11412.08      | -1036.24     | 1734811.66           | 385735.08             | 39°33'18.8254"N | 80°26'25.8900"W | 11459.21             | 354.802            | 1.26             | 0.33                    | 1.21                   |          |
| 19686.00   | 89.140             | 334.830        | 7758.69     | 6412.69       | 11521.26          | 11499.02      | -1078.93     | 1734770.95           | 385822.02             | 39°33'19.7804"N | 80°26'26.4212"W | 11549.53             | 354.640            | 0.48             | -0.45                   | -0.18                  |          |
| 19780.00   | 90.990             | 333.270        | 7758.58     | 6412.58       | 11611.34          | 11583.54      | -1120.06     | 1734729.82           | 385906.53             | 39°33'20.6115"N | 80°26'26.9577"W | 11637.56             | 354.477            | 2.57             | 1.97                    | -1.66                  |          |
| 19874.00   | 88.950             | 334.500        | 7758.63     | 6412.63       | 11701.35          | 11667.93      | -1161.44     | 1734688.44           | 385990.93             | 39°33'21.4413"N | 80°26'27.4972"W | 11725.60             | 354.315            | 2.53             | -2.17                   | 1.31                   |          |
| 19969.00   | 89.050             | 334.890        | 7760.29     | 6414.29       | 11792.68          | 11753.81      | -1202.04     | 1734647.84           | 386076.80             | 39°33'22.2858"N | 80°26'28.0270"W | 11815.11             | 354.161            | 0.42             | 0.11                    | 0.41                   |          |
| 20064.00   | 90.310             | 334.130        | 7760.82     | 6414.82       | 11883.94          | 11839.55      | -1242.92     | 1734606.96           | 386162.55             | 39°33'23.1290"N | 80°26'28.5604"W | 11904.62             | 354.007            | 1.55             | 1.33                    | -0.80                  |          |





# Actual Wellpath Report

Carnegie 17H Proj: 22627'

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## REFERENCE WELLPATH IDENTIFICATION

|          |                        |          |              |
|----------|------------------------|----------|--------------|
| Operator | EQT PRODUCTION COMPANY | Well     | Carnegie 17H |
| Field    | Marion                 | API      | 47-049-02528 |
| Facility | Carnegie Pad           | Wellbore | Carnegie 17H |
| Slot     | Slot 17                |          |              |

## WELLPATH DATA (268 stations) † = interpolated, ‡ = extrapolated station

| MD<br>[ft] | Inclination<br>[°] | Azimuth<br>[°] | TVD<br>[ft] | TVDSS<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                                 |
|------------|--------------------|----------------|-------------|---------------|-------------------|---------------|--------------|----------------------|-----------------------|-----------------|-----------------|----------------------|--------------------|------------------|-------------------------|------------------------|------------------------------------------|
| 20159.00   | 88.800             | 335.630        | 7781.56     | 6415.56       | 11975.37          | 11925.56      | -1283.25     | 1734566.64           | 386248.56             | 39°33'23.9749"N | 80°26'29.0867"W | 11994.40             | 353.858            | 2.24             | -1.59                   | 1.58                   |                                          |
| 20255.00   | 90.060             | 334.060        | 7762.51     | 6416.51       | 12067.74          | 12012.45      | -1324.05     | 1734525.83           | 386335.44             | 39°33'24.8294"N | 80°26'29.6193"W | 12085.20             | 353.710            | 2.10             | 1.31                    | -1.64                  |                                          |
| 20349.00   | 88.830             | 335.410        | 7763.42     | 6417.42       | 12158.14          | 12097.45      | -1364.16     | 1734485.72           | 386420.44             | 39°33'25.6653"N | 80°26'30.1429"W | 12174.12             | 353.566            | 1.94             | -1.31                   | 1.44                   |                                          |
| 20444.00   | 90.060             | 335.000        | 7764.34     | 6418.34       | 12249.71          | 12183.69      | -1404.00     | 1734445.88           | 386506.68             | 39°33'26.5135"N | 80°26'30.6630"W | 12264.31             | 353.426            | 1.36             | 1.29                    | -0.43                  |                                          |
| 20539.00   | 88.580             | 334.420        | 7765.47     | 6419.47       | 12341.06          | 12268.57      | -1444.56     | 1734405.30           | 386592.57             | 39°33'27.3581"N | 80°26'31.1926"W | 12354.32             | 353.285            | 1.67             | -1.58                   | -0.61                  |                                          |
| 20634.00   | 90.980             | 334.450        | 7765.83     | 6419.83       | 12432.28          | 12355.26      | -1485.57     | 1734364.31           | 386678.26             | 39°33'28.2008"N | 80°26'31.7274"W | 12444.25             | 353.144            | 2.53             | 2.53                    | 0.03                   |                                          |
| 20729.00   | 89.780             | 334.660        | 7765.20     | 6419.20       | 12523.56          | 12441.05      | -1526.39     | 1734323.49           | 386764.04             | 39°33'29.0444"N | 80°26'32.2600"W | 12534.33             | 353.005            | 1.28             | -1.26                   | 0.22                   |                                          |
| 20824.00   | 89.540             | 334.790        | 7765.77     | 6419.77       | 12614.92          | 12526.95      | -1566.95     | 1734282.93           | 386849.94             | 39°33'29.8892"N | 80°26'32.7894"W | 12624.57             | 352.870            | 0.29             | -0.25                   | 0.14                   |                                          |
| 20919.00   | 89.820             | 334.720        | 7766.30     | 6420.30       | 12706.30          | 12612.87      | -1607.47     | 1734242.42           | 386935.87             | 39°33'30.7342"N | 80°26'33.3182"W | 12714.89             | 352.737            | 0.30             | 0.29                    | -0.07                  |                                          |
| 21015.00   | 89.720             | 335.090        | 7766.68     | 6420.68       | 12796.70          | 12699.61      | -1648.18     | 1734201.70           | 387022.61             | 39°33'31.6882"N | 80°26'33.8497"W | 12806.32             | 352.605            | 0.40             | -0.10                   | 0.39                   |                                          |
| 21109.00   | 89.750             | 334.600        | 7767.12     | 6421.12       | 12889.16          | 12794.90      | -1688.14     | 1734161.75           | 387107.89             | 39°33'32.4260"N | 80°26'34.3712"W | 12895.87             | 352.478            | 0.52             | 0.03                    | -0.52                  |                                          |
| 21204.00   | 90.120             | 335.070        | 7767.23     | 6421.23       | 12980.57          | 12870.88      | -1728.53     | 1734121.35           | 387193.87             | 39°33'33.2716"N | 80°26'34.8985"W | 12986.43             | 352.351            | 0.63             | 0.39                    | 0.49                   |                                          |
| 21300.00   | 89.630             | 334.650        | 7767.44     | 6421.44       | 13072.96          | 12957.78      | -1769.32     | 1734080.57           | 387280.78             | 39°33'34.1283"N | 80°26'35.4309"W | 13078.02             | 352.225            | 0.67             | -0.51                   | -0.44                  |                                          |
| 21395.00   | 89.750             | 334.070        | 7767.95     | 6421.95       | 13164.15          | 13043.43      | -1810.42     | 1734039.46           | 387366.42             | 39°33'34.9684"N | 80°26'35.9672"W | 13168.47             | 352.098            | 0.62             | 0.13                    | -0.61                  |                                          |
| 21489.00   | 89.570             | 334.620        | 7768.51     | 6422.51       | 13254.38          | 13128.16      | -1851.12     | 1733998.76           | 387451.15             | 39°33'35.8016"N | 80°26'36.4981"W | 13258.02             | 351.974            | 0.62             | -0.19                   | 0.58                   |                                          |
| 21584.00   | 89.690             | 334.500        | 7769.12     | 6423.12       | 13345.66          | 13213.95      | -1891.93     | 1733957.96           | 387536.94             | 39°33'36.6453"N | 80°26'37.0307"W | 13348.70             | 351.852            | 0.18             | 0.13                    | -0.13                  |                                          |
| 21679.00   | 89.480             | 334.400        | 7769.81     | 6423.81       | 13436.90          | 13299.65      | -1932.90     | 1733916.98           | 387622.65             | 39°33'37.4881"N | 80°26'37.5653"W | 13439.38             | 351.731            | 0.24             | -0.22                   | -0.11                  |                                          |
| 21774.00   | 89.480             | 334.570        | 7770.67     | 6424.67       | 13528.15          | 13385.38      | -1973.82     | 1733876.06           | 387708.38             | 39°33'38.3311"N | 80°26'38.0992"W | 13530.13             | 351.612            | 0.18             | 0.00                    | 0.18                   |                                          |
| 21869.00   | 89.570             | 334.360        | 7771.46     | 6425.46       | 13619.39          | 13471.10      | -2014.77     | 1733835.11           | 387794.10             | 39°33'39.1741"N | 80°26'38.6336"W | 13620.94             | 351.494            | 0.24             | 0.09                    | -0.22                  |                                          |
| 21964.00   | 89.750             | 335.150        | 7772.02     | 6426.02       | 13710.76          | 13557.03      | -2055.28     | 1733794.60           | 387880.02             | 39°33'40.0191"N | 80°26'39.1624"W | 13711.94             | 351.379            | 0.65             | 0.19                    | 0.33                   |                                          |
| 22059.00   | 89.600             | 334.820        | 7772.56     | 6426.56       | 13802.24          | 13643.11      | -2095.46     | 1733754.43           | 387966.11             | 39°33'40.8657"N | 80°26'39.6869"W | 13803.10             | 351.268            | 0.38             | -0.16                   | -0.35                  |                                          |
| 22154.00   | 89.720             | 334.520        | 7773.12     | 6427.12       | 13893.58          | 13728.98      | -2136.10     | 1733713.79           | 388051.97             | 39°33'41.7101"N | 80°26'40.2173"W | 13894.16             | 351.156            | 0.34             | 0.13                    | -0.32                  |                                          |
| 22249.00   | 89.320             | 334.550        | 7773.92     | 6427.92       | 13984.85          | 13814.75      | -2176.94     | 1733672.94           | 388137.74             | 39°33'42.5635"N | 80°26'40.7504"W | 13985.22             | 351.045            | 0.42             | -0.42                   | 0.03                   |                                          |
| 22344.00   | 90.120             | 335.210        | 7774.38     | 6428.38       | 14076.26          | 13900.76      | -2217.27     | 1733632.61           | 388223.75             | 39°33'43.3994"N | 80°26'41.2768"W | 14076.48             | 350.937            | 1.09             | 0.84                    | 0.69                   |                                          |
| 22439.00   | 89.750             | 335.120        | 7774.49     | 6428.49       | 14167.88          | 13987.00      | -2257.12     | 1733592.77           | 388309.99             | 39°33'44.2478"N | 80°26'41.7972"W | 14167.95             | 350.833            | 0.39             | -0.39                   | -0.02                  |                                          |
| 22534.00   | 89.790             | 334.360        | 7774.87     | 6428.87       | 14259.24          | 14072.94      | -2297.60     | 1733552.28           | 388395.93             | 39°33'45.0928"N | 80°26'42.3257"W | 14259.26             | 350.727            | 0.67             | 0.04                    | -0.87                  |                                          |
| 22602.00   | 89.600             | 335.110        | 7775.24     | 6429.24       | 14324.64          | 14134.43      | -2326.63     | 1733523.26           | 388457.42             | 39°33'45.6975"N | 80°26'42.7045"W | 14324.64             | 350.653            | 1.14             | -0.28                   | 1.10                   | Final Survey                             |
| 22627.00   | 89.600             | 335.110        | 7775.41     | 6429.41       | 14348.73          | 14157.11      | -2337.15     | 1733512.74           | 388480.10             | 39°33'45.9205"N | 80°26'42.8419"W | 14348.73             | 350.626            | 0.00             | 0.00                    | 0.00                   | Deepest Point of Well / Projection to TD |





## Actual Wellpath Report

Carnegie 17H Proj: 22627'

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### REFERENCE WELLPATH IDENTIFICATION

|          |                        |          |              |
|----------|------------------------|----------|--------------|
| Operator | EQT PRODUCTION COMPANY | Well     | Carnegie 17H |
| Field    | Marion                 | API      | 47-049-02528 |
| Facility | Carnegie Pad           | Wellbore | Carnegie 17H |
| Slot     | Slot 17                |          |              |

### TARGETS

| Name               | TVD<br>[ft] | North<br>[ft] | East<br>[ft] | Grid East<br>[US ft] | Grid North<br>[US ft] | Latitude        | Longitude       | Shape |
|--------------------|-------------|---------------|--------------|----------------------|-----------------------|-----------------|-----------------|-------|
| Carnegie 17H - LP  | 7695.00     | 2109.29       | 3282.66      | 1739132.53           | 376432.31             | 39°31'47.4262"N | 80°25'29.5027"W | point |
| Carnegie 17H - BHL | 7811.00     | 14157.21      | -2335.81     | 1733514.07           | 388480.20             | 39°33'45.9217"N | 80°26'42.8248"W | point |

### WELLPATH COMPOSITION - Ref Wellbore: Carnegie 17H Ref Wellpath: Carnegie 17H Proj: 22627'

| Start MD<br>[ft] | End MD<br>[ft] | Positional Uncertainty Model                          | Log Name/Comment                                                | Wellbore     | Survey Date |
|------------------|----------------|-------------------------------------------------------|-----------------------------------------------------------------|--------------|-------------|
| 28.00            | 992.00         | BH Generic gyro - northseeking (Standard)             | 01 Gyro                                                         | Carnegie 17H | 4/24/2024   |
| 992.00           | 6805.00        | OWSG MWD rev2 - Standard                              | 02 SDI MWD                                                      | Carnegie 17H | 4/24/2024   |
| 6805.00          | 22627.00       | OWSG MWD rev2 + IFR2 + Sag + Multi-Station Correction | 03 BH Lucida+SuperiorQC IFR1+Sag+FDIR <8 1/2"> (6963' - 22602') | Carnegie 17H | 6/26/2024   |





# EQT PRODUCTION COMPANY

Location: Marion County, WV  
Field: Marion  
Facility: Carnegie Pad

Slot: Slot 17  
Well: Carnegie 17H  
Wellbore: Carnegie 17H



KB Elevation = 1346'  
Ground Elevation = 1318'  
All survey measurements taken from KB elevation

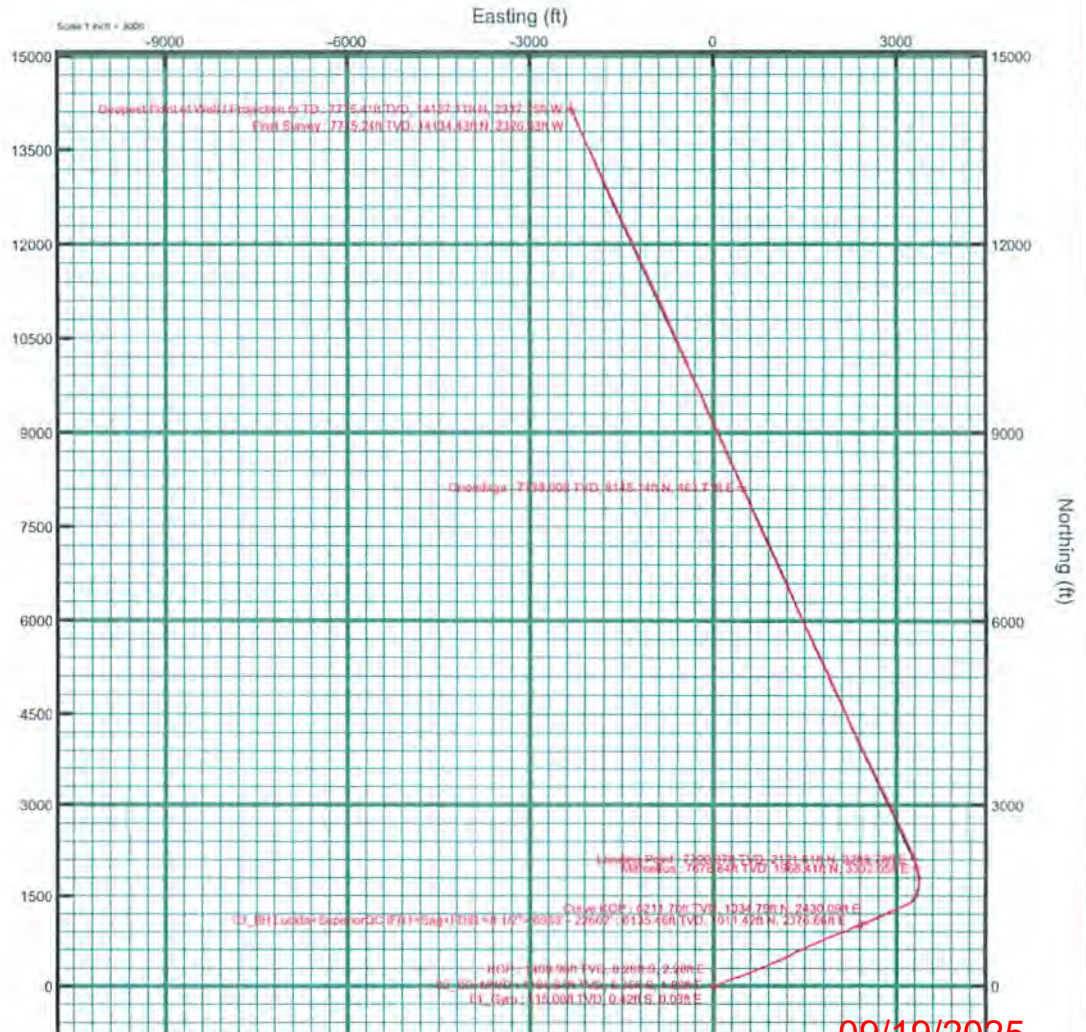
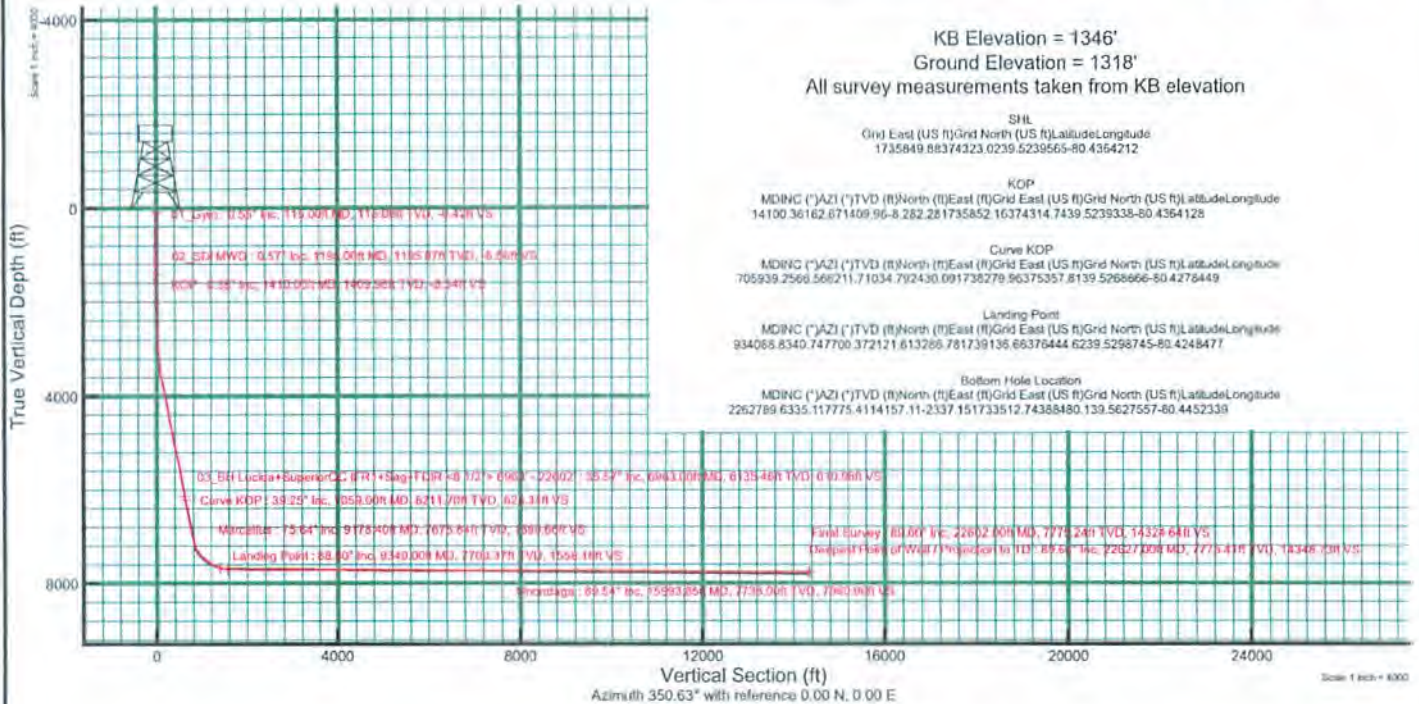
SHL  
Grid East (US ft) Grid North (US ft) Latitude Longitude  
1735849.88374323 0239.5239565-80.4364128

KOP  
MDINC ("JAZI") TVD (ft) North (ft) East (ft) Grid East (US ft) Grid North (US ft) Latitude Longitude  
14100.36162.671409.96-8.282.281735852.16374314.7439.5239338-80.4364128

Curve KOP  
MDINC ("JAZI") TVD (ft) North (ft) East (ft) Grid East (US ft) Grid North (US ft) Latitude Longitude  
705939.2566.566211.71034.792430.091738279.96375357.8139.5268666-80.4278449

Landing Point  
MDINC ("JAZI") TVD (ft) North (ft) East (ft) Grid East (US ft) Grid North (US ft) Latitude Longitude  
934068.8340.747700.372121.613266.781739136.66376444.6239.5298745-80.4248477

Bottom Hole Location  
MDINC ("JAZI") TVD (ft) North (ft) East (ft) Grid East (US ft) Grid North (US ft) Latitude Longitude  
2262789.6335.117775.4114157.11-2337.151733512.74388480.139.5627557-80.4452339



North  
W E  
User specified Dip: 86.24° Field: 51585.6 nT  
Magnetic North is 9.00 degrees West of True North (at 7/4/2024)  
Grid North is 0.60 degrees West of True North  
To convert azimuth from True to Grid add 0.60 degrees  
To convert azimuth from Magnetic to Grid subtract 8.40 degrees

09/19/2025