



# Actual Wellpath Report

Knob Creek S-6HM AWB Proj:15790'  
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| REFERENCE WELLPATH IDENTIFICATION |                               |          |                      |
|-----------------------------------|-------------------------------|----------|----------------------|
| Operator                          | EQT (TUG HILL OPERATING, LLC) | Well     | Knob Creek S-6HM     |
| Field                             | Marshall                      | API      | 47-051-02281-0000    |
| Facility                          | Knob Creek                    | Wellbore | Knob Creek S-6HM AWB |
| Slot                              | Slot 06                       |          |                      |

| REPORT SETUP INFORMATION |                                    |                  |                          |
|--------------------------|------------------------------------|------------------|--------------------------|
| Projection System        | NAD83 / UTM Zone 17 North, US feet | Software System  | WellArchitect® 6.0       |
| North Reference          | Grid                               | User             | Scurdan                  |
| Scale                    | 0.999608                           | Report Generated | 11/14/2023 at 8:03:51 AM |
| Convergence at slot      | 0.19° East                         | Database         | WA_MPL_EASTERNUS_Defn    |

| WELLPATH LOCATION     |                   |          |                  |                 |                        |                 |
|-----------------------|-------------------|----------|------------------|-----------------|------------------------|-----------------|
|                       | Local coordinates |          | Grid coordinates |                 | Geographic coordinates |                 |
|                       | North[ft]         | East[ft] | Easting[US ft]   | Northing[US ft] | Latitude               | Longitude       |
| Slot Location         | 28.14             | 22.46    | 1723165.98       | 14443140.40     | 39°46'12.2127"N        | 80°42'19.8222"W |
| Facility Reference Pt |                   |          | 1723143.53       | 14443112.27     | 39°46'11.9353"N        | 80°42'20.1110"W |
| Field Reference Pt    |                   |          | 1920470.12       | 14528304.49     | 40°00'0.0000"N         | 80°00'0.0000"W  |

| WELLPATH DATUM           |                     |                                                       |                   |
|--------------------------|---------------------|-------------------------------------------------------|-------------------|
| Calculation method       | Minimum curvature   | Patterson 294 (RKB) to Facility Vertical Datum        | 765.00ft          |
| Horizontal Reference Pt  | Slot                | Patterson 294 (RKB) to Mean Sea Level                 | 765.00ft          |
| Vertical Reference Pt    | Patterson 294 (RKB) | Patterson 294 (RKB) to Ground Level at Slot (Slot 06) | 28.00ft           |
| MD Reference Pt          | Patterson 294 (RKB) | Section Origin                                        | N 0.00, E 0.00 ft |
| Field Vertical Reference | Mean Sea Level      | Section Azimuth                                       | 159.06°           |

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| Operator | EQT (TUG HILL OPERATING, LLC) | Well     | Knob Creek S-6HM     |
| Field    | Marshall                      | API      | 47-051-02281-0000    |
| Facility | Knob Creek                    | Wellbore | Knob Creek S-6HM AWB |
| Slot     | Slot 06                       |          |                      |

## WELLPATH DATA (234 stations) † = interpolated, ‡ = extrapolated station

| MD [ft] | Inclination [°] | Azimuth [°] | TVD [ft] | Vert Sect [ft] | North [ft] | East [ft] | Grid East [US ft] | Grid North [US ft] | Latitude        | Longitude       | Closure Dist [ft] | Closure Dir [°] | DLS [°/100ft] | Build Rate [°/100ft] | Turn Rate [°/100ft] |
|---------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|-----------------|-----------------|-------------------|-----------------|---------------|----------------------|---------------------|
| 0.00†   | 0.000           | 217.460     | 0.00     | 0.00           | 0.00       | 0.00      | 1723165.98        | 14443140.40        | 39°46'12.2127"N | 80°42'19.8222"W | 0.00              | 0.000           | 0.00          | 0.00                 | 0.00                |
| 28.00   | 0.000           | 217.460     | 28.00    | 0.00           | 0.00       | 0.00      | 1723165.98        | 14443140.40        | 39°46'12.2127"N | 80°42'19.8222"W | 0.00              | 0.000           | 0.00          | 0.00                 | 0.00                |
| 204.00  | 0.340           | 217.460     | 204.00   | 0.27           | -0.41      | -0.32     | 1723165.66        | 14443139.99        | 39°46'12.2086"N | 80°42'19.8263"W | 0.52              | 217.460         | 0.19          | 0.19                 | 0.00                |
| 233.00  | 0.260           | 252.020     | 233.00   | 0.32           | -0.50      | -0.43     | 1723165.55        | 14443139.90        | 39°46'12.2077"N | 80°42'19.8277"W | 0.66              | 220.685         | 0.67          | -0.28                | 119.17              |
| 263.00  | 0.340           | 254.920     | 263.00   | 0.30           | -0.55      | -0.58     | 1723165.40        | 14443139.85        | 39°46'12.2073"N | 80°42'19.8297"W | 0.80              | 226.820         | 0.27          | 0.27                 | 9.67                |
| 293.00  | 0.390           | 271.710     | 293.00   | 0.25           | -0.57      | -0.77     | 1723165.21        | 14443139.83        | 39°46'12.2071"N | 80°42'19.8321"W | 0.96              | 233.657         | 0.39          | 0.17                 | 55.97               |
| 323.00  | 0.360           | 266.750     | 323.00   | 0.19           | -0.57      | -0.97     | 1723165.01        | 14443139.83        | 39°46'12.2071"N | 80°42'19.8346"W | 1.12              | 239.505         | 0.15          | -0.10                | -16.53              |
| 354.00  | 0.430           | 245.580     | 354.00   | 0.16           | -0.62      | -1.17     | 1723164.81        | 14443139.78        | 39°46'12.2066"N | 80°42'19.8372"W | 1.33              | 241.964         | 0.52          | 0.23                 | -68.29              |
| 430.00  | 0.210           | 306.810     | 430.00   | 0.06           | -0.66      | -1.54     | 1723164.44        | 14443139.74        | 39°46'12.2062"N | 80°42'19.8419"W | 1.68              | 246.895         | 0.50          | -0.29                | 80.57               |
| 448.00  | 0.280           | 322.570     | 447.99   | -0.01          | -0.60      | -1.59     | 1723164.39        | 14443139.80        | 39°46'12.2068"N | 80°42'19.8426"W | 1.71              | 249.286         | 0.54          | 0.39                 | 87.56               |
| 479.00  | 0.230           | 349.030     | 478.99   | -0.14          | -0.48      | -1.65     | 1723164.33        | 14443139.92        | 39°46'12.2080"N | 80°42'19.8434"W | 1.72              | 253.746         | 0.41          | -0.16                | 85.35               |
| 511.00  | 0.300           | 323.860     | 510.99   | -0.28          | -0.35      | -1.71     | 1723164.27        | 14443140.05        | 39°46'12.2093"N | 80°42'19.8441"W | 1.75              | 258.425         | 0.42          | 0.22                 | -78.66              |
| 575.00  | 0.170           | 280.070     | 574.99   | -0.50          | -0.20      | -1.91     | 1723164.07        | 14443140.20        | 39°46'12.2108"N | 80°42'19.8466"W | 1.92              | 264.035         | 0.33          | -0.20                | -68.42              |
| 606.00  | 0.420           | 287.580     | 605.99   | -0.59          | -0.16      | -2.06     | 1723163.92        | 14443140.24        | 39°46'12.2112"N | 80°42'19.8486"W | 2.07              | 265.646         | 0.81          | 0.81                 | 24.23               |
| 638.00  | 0.400           | 304.940     | 637.99   | -0.76          | -0.06      | -2.26     | 1723163.72        | 14443140.34        | 39°46'12.2122"N | 80°42'19.8512"W | 2.26              | 268.546         | 0.39          | -0.06                | 54.25               |
| 669.00  | 0.400           | 301.450     | 668.99   | -0.93          | 0.06       | -2.44     | 1723163.54        | 14443140.46        | 39°46'12.2134"N | 80°42'19.8535"W | 2.45              | 271.429         | 0.08          | 0.00                 | -11.26              |
| 700.00  | 0.320           | 270.260     | 699.99   | -1.05          | 0.12       | -2.62     | 1723163.36        | 14443140.52        | 39°46'12.2139"N | 80°42'19.8558"W | 2.63              | 272.571         | 0.67          | -0.26                | -100.61             |
| 732.00  | 0.520           | 275.080     | 731.99   | -1.14          | 0.13       | -2.86     | 1723163.12        | 14443140.53        | 39°46'12.2141"N | 80°42'19.8588"W | 2.86              | 272.627         | 0.63          | 0.63                 | 15.06               |
| 764.00  | 0.560           | 305.030     | 763.99   | -1.34          | 0.23       | -3.13     | 1723162.85        | 14443140.63        | 39°46'12.2151"N | 80°42'19.8622"W | 3.14              | 274.270         | 0.88          | 0.12                 | 93.59               |
| 796.00  | 0.620           | 305.710     | 795.99   | -1.61          | 0.42       | -3.40     | 1723162.58        | 14443140.82        | 39°46'12.2170"N | 80°42'19.8657"W | 3.43              | 277.120         | 0.19          | 0.19                 | 2.12                |
| 827.00  | 0.610           | 287.120     | 826.99   | -1.85          | 0.57       | -3.69     | 1723162.29        | 14443140.97        | 39°46'12.2184"N | 80°42'19.8694"W | 3.74              | 278.790         | 0.64          | -0.03                | -59.97              |
| 859.00  | 0.660           | 287.910     | 858.98   | -2.07          | 0.68       | -4.03     | 1723161.95        | 14443141.08        | 39°46'12.2195"N | 80°42'19.8738"W | 4.09              | 279.545         | 0.16          | 0.16                 | 2.47                |
| 890.00  | 0.770           | 291.580     | 889.98   | -2.33          | 0.81       | -4.39     | 1723161.59        | 14443141.21        | 39°46'12.2208"N | 80°42'19.8784"W | 4.47              | 280.435         | 0.38          | 0.35                 | 11.84               |
| 922.00  | 0.730           | 289.240     | 921.98   | -2.60          | 0.96       | -4.79     | 1723161.19        | 14443141.36        | 39°46'12.2223"N | 80°42'19.8834"W | 4.88              | 281.289         | 0.16          | -0.12                | -7.31               |
| 953.00  | 0.820           | 305.060     | 952.98   | -2.91          | 1.15       | -5.15     | 1723160.83        | 14443141.55        | 39°46'12.2242"N | 80°42'19.8881"W | 5.28              | 282.556         | 0.75          | 0.29                 | 51.03               |
| 985.00  | 0.750           | 297.160     | 984.97   | -3.26          | 1.38       | -5.53     | 1723160.45        | 14443141.77        | 39°46'12.2264"N | 80°42'19.8929"W | 5.70              | 283.968         | 0.40          | -0.22                | -24.69              |
| 1017.00 | 0.670           | 314.700     | 1016.97  | -3.59          | 1.60       | -5.85     | 1723160.13        | 14443142.00        | 39°46'12.2287"N | 80°42'19.8970"W | 6.06              | 285.324         | 0.72          | -0.25                | 54.81               |
| 1049.00 | 0.850           | 320.070     | 1048.97  | -3.98          | 1.92       | -6.13     | 1723159.85        | 14443142.32        | 39°46'12.2318"N | 80°42'19.9006"W | 6.43              | 287.349         | 0.60          | 0.56                 | 16.78               |
| 1081.00 | 0.850           | 318.220     | 1080.96  | -4.43          | 2.28       | -6.44     | 1723159.54        | 14443142.67        | 39°46'12.2354"N | 80°42'19.9046"W | 6.83              | 289.446         | 0.09          | 0.00                 | -5.78               |
| 1112.00 | 0.790           | 326.270     | 1111.96  | -4.85          | 2.62       | -6.72     | 1723159.27        | 14443143.02        | 39°46'12.2388"N | 80°42'19.9081"W | 7.21              | 291.344         | 0.42          | -0.19                | 25.97               |



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| Field    | Marshall                      | API      | 47-051-02281-0000    |
| Facility | Knob Creek                    | Wellbore | Knob Creek S-6HM AWB |
| Slot     | Slot 06                       |          |                      |

## WELLPATH DATA (234 stations)

| MD [ft] | Inclination [°] | Azimuth [°] | TVD [ft] | Vert Sect [ft] | North [ft] | East [ft] | Grid East [US ft] | Grid North [US ft] | Latitude        | Longitude       | Closure Dist [ft] | Closure Dir [°] | DLS [°/100ft] | Build Rate [°/100ft] | Turn Rate [°/100ft] |
|---------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|-----------------|-----------------|-------------------|-----------------|---------------|----------------------|---------------------|
| 1144.00 | 0.630           | 308.510     | 1143.96  | -5.22          | 2.92       | -6.98     | 1723159.01        | 14443143.32        | 39°46'12.2417"N | 80°42'19.9114"W | 7.56              | 292.694         | 0.84          | -0.50                | -55.50              |
| 1176.00 | 0.660           | 324.250     | 1175.96  | -5.55          | 3.18       | -7.22     | 1723158.76        | 14443143.58        | 39°46'12.2443"N | 80°42'19.9145"W | 7.89              | 293.743         | 0.56          | 0.09                 | 49.19               |
| 1208.00 | 0.590           | 311.270     | 1207.95  | -5.87          | 3.43       | -7.45     | 1723158.53        | 14443143.83        | 39°46'12.2469"N | 80°42'19.9175"W | 8.21              | 294.743         | 0.49          | -0.22                | -40.56              |
| 1239.00 | 0.570           | 333.450     | 1238.95  | -6.17          | 3.68       | -7.64     | 1723158.34        | 14443144.08        | 39°46'12.2493"N | 80°42'19.9199"W | 8.48              | 295.701         | 0.72          | -0.06                | 71.55               |
| 1270.00 | 0.380           | 333.660     | 1269.95  | -6.42          | 3.91       | -7.76     | 1723158.23        | 14443144.31        | 39°46'12.2516"N | 80°42'19.9213"W | 8.69              | 296.741         | 0.61          | -0.61                | 0.68                |
| 1301.00 | 0.420           | 325.770     | 1300.95  | -6.63          | 4.09       | -7.87     | 1723158.12        | 14443144.49        | 39°46'12.2534"N | 80°42'19.9227"W | 8.87              | 297.496         | 0.22          | 0.13                 | -25.45              |
| 1333.00 | 0.540           | 335.480     | 1332.95  | -6.90          | 4.33       | -7.99     | 1723157.99        | 14443144.73        | 39°46'12.2557"N | 80°42'19.9244"W | 9.09              | 298.431         | 0.45          | 0.37                 | 30.34               |
| 1364.00 | 0.560           | 335.480     | 1363.95  | -7.20          | 4.60       | -8.12     | 1723157.87        | 14443145.00        | 39°46'12.2584"N | 80°42'19.9259"W | 9.33              | 299.533         | 0.06          | 0.06                 | 0.00                |
| 1396.00 | 0.720           | 322.270     | 1395.95  | -7.54          | 4.90       | -8.31     | 1723157.68        | 14443145.30        | 39°46'12.2614"N | 80°42'19.9283"W | 9.64              | 300.540         | 0.68          | 0.50                 | -41.28              |
| 1428.00 | 1.370           | 314.120     | 1427.94  | -8.08          | 5.33       | -8.70     | 1723157.28        | 14443145.72        | 39°46'12.2656"N | 80°42'19.9334"W | 10.20             | 301.462         | 2.08          | 2.03                 | -25.47              |
| 1459.00 | 2.180           | 296.010     | 1458.93  | -8.85          | 5.84       | -9.50     | 1723156.48        | 14443146.24        | 39°46'12.2707"N | 80°42'19.9436"W | 11.15             | 301.592         | 3.15          | 2.61                 | -58.42              |
| 1491.00 | 3.010           | 297.620     | 1490.89  | -9.93          | 6.50       | -10.79    | 1723155.19        | 14443146.90        | 39°46'12.2773"N | 80°42'19.9601"W | 12.60             | 301.058         | 2.60          | 2.59                 | 5.03                |
| 1523.00 | 3.680           | 303.380     | 1522.84  | -11.39         | 7.45       | -12.39    | 1723153.59        | 14443147.85        | 39°46'12.2867"N | 80°42'19.9806"W | 14.46             | 301.023         | 2.34          | 2.09                 | 18.00               |
| 1555.00 | 4.270           | 302.330     | 1554.76  | -13.18         | 8.66       | -14.26    | 1723151.73        | 14443149.05        | 39°46'12.2987"N | 80°42'20.0044"W | 16.68             | 301.261         | 1.86          | 1.84                 | -3.28               |
| 1587.00 | 4.550           | 294.480     | 1586.67  | -15.04         | 9.82       | -16.42    | 1723149.57        | 14443150.21        | 39°46'12.3102"N | 80°42'20.0320"W | 19.13             | 300.879         | 2.08          | 0.87                 | -24.53              |
| 1619.00 | 4.880           | 290.830     | 1618.56  | -16.85         | 10.83      | -18.85    | 1723147.14        | 14443151.22        | 39°46'12.3203"N | 80°42'20.0631"W | 21.74             | 299.880         | 1.39          | 1.03                 | -11.41              |
| 1650.00 | 5.260           | 292.480     | 1649.44  | -18.70         | 11.84      | -21.39    | 1723144.60        | 14443152.24        | 39°46'12.3304"N | 80°42'20.0956"W | 24.45             | 298.965         | 1.31          | 1.23                 | 5.32                |
| 1682.00 | 5.510           | 288.460     | 1681.30  | -20.69         | 12.89      | -24.20    | 1723141.79        | 14443153.28        | 39°46'12.3408"N | 80°42'20.1316"W | 27.42             | 298.034         | 1.41          | 0.78                 | -12.56              |
| 1713.00 | 5.470           | 282.760     | 1712.15  | -22.45         | 13.69      | -27.06    | 1723138.93        | 14443154.08        | 39°46'12.3488"N | 80°42'20.1681"W | 30.32             | 296.830         | 1.76          | -0.13                | -18.39              |
| 1745.00 | 5.480           | 278.590     | 1744.01  | -24.05         | 14.25      | -30.06    | 1723135.94        | 14443154.64        | 39°46'12.3545"N | 80°42'20.2065"W | 33.26             | 295.368         | 1.24          | 0.03                 | -13.03              |
| 1776.00 | 5.510           | 274.750     | 1774.87  | -25.43         | 14.59      | -33.00    | 1723132.99        | 14443154.99        | 39°46'12.3580"N | 80°42'20.2442"W | 36.09             | 293.857         | 1.19          | 0.10                 | -12.39              |
| 1808.00 | 4.980           | 266.280     | 1806.73  | -26.50         | 14.63      | -35.92    | 1723130.08        | 14443155.03        | 39°46'12.3584"N | 80°42'20.2816"W | 38.78             | 292.164         | 2.93          | -1.66                | -26.47              |
| 1840.00 | 4.740           | 264.720     | 1838.62  | -27.27         | 14.42      | -38.62    | 1723127.37        | 14443154.81        | 39°46'12.3564"N | 80°42'20.3162"W | 41.23             | 290.474         | 0.86          | -0.75                | -4.88               |
| 1871.00 | 3.800           | 257.480     | 1869.53  | -27.77         | 14.08      | -40.90    | 1723125.10        | 14443154.47        | 39°46'12.3531"N | 80°42'20.3454"W | 43.26             | 288.996         | 3.49          | -3.03                | -23.35              |
| 1903.00 | 3.880           | 254.680     | 1901.46  | -28.03         | 13.56      | -42.98    | 1723123.02        | 14443153.96        | 39°46'12.3481"N | 80°42'20.3720"W | 45.07             | 287.515         | 0.64          | 0.25                 | -8.75               |
| 1935.00 | 3.810           | 254.860     | 1933.39  | -28.24         | 13.00      | -45.05    | 1723120.95        | 14443153.39        | 39°46'12.3426"N | 80°42'20.3986"W | 46.89             | 286.096         | 0.22          | -0.22                | 0.56                |
| 1966.00 | 3.370           | 263.430     | 1964.33  | -28.57         | 12.63      | -46.95    | 1723119.05        | 14443153.02        | 39°46'12.3390"N | 80°42'20.4229"W | 48.62             | 285.053         | 2.23          | -1.42                | 27.65               |
| 1998.00 | 3.480           | 269.430     | 1996.27  | -29.14         | 12.51      | -48.85    | 1723117.14        | 14443152.90        | 39°46'12.3379"N | 80°42'20.4473"W | 50.43             | 284.362         | 1.17          | 0.34                 | 18.75               |
| 2030.00 | 3.450           | 276.020     | 2028.21  | -29.92         | 12.60      | -50.78    | 1723115.22        | 14443153.00        | 39°46'12.3389"N | 80°42'20.4720"W | 52.32             | 283.935         | 1.25          | -0.09                | 20.59               |
| 2061.00 | 3.570           | 276.140     | 2059.15  | -30.78         | 12.80      | -52.67    | 1723113.33        | 14443153.20        | 39°46'12.3409"N | 80°42'20.4962"W | 54.20             | 283.661         | 0.39          | 0.39                 | 0.39                |



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| Operator | EQT (TUG HILL OPERATING, LLC) | Well     | Knob Creek S-6HM     |
| Field    | Marshall                      | API      | 47-051-02281-0000    |
| Facility | Knob Creek                    | Wellbore | Knob Creek S-6HM AWB |
| Slot     | Slot 06                       |          |                      |

### WELLPATH DATA (234 stations)

| MD [ft] | Inclination [°] | Azimuth [°] | TVD [ft] | Vert Sect [ft] | North [ft] | East [ft] | Grid East [US ft] | Grid North [US ft] | Latitude        | Longitude       | Closure Dist [ft] | Closure Dir [°] | DLS [°/100ft] | Build Rate [°/100ft] | Turn Rate [°/100ft] |
|---------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|-----------------|-----------------|-------------------|-----------------|---------------|----------------------|---------------------|
| 2092.00 | 3.810           | 273.650     | 2090.09  | -31.65         | 12.97      | -54.66    | 1723111.34        | 14443153.37        | 39°46'12.3426"N | 80°42'20.5216"W | 56.18             | 283.349         | 0.93          | 0.77                 | -8.03               |
| 2123.00 | 4.260           | 268.710     | 2121.01  | -32.46         | 13.01      | -56.84    | 1723109.17        | 14443153.40        | 39°46'12.3431"N | 80°42'20.5495"W | 58.31             | 282.893         | 1.83          | 1.45                 | -15.94              |
| 2154.00 | 4.690           | 274.650     | 2151.92  | -33.40         | 13.09      | -59.25    | 1723106.75        | 14443153.48        | 39°46'12.3439"N | 80°42'20.5804"W | 60.68             | 282.455         | 2.04          | 1.39                 | 19.16               |
| 2186.00 | 4.900           | 275.590     | 2183.81  | -34.57         | 13.33      | -61.92    | 1723104.09        | 14443153.72        | 39°46'12.3464"N | 80°42'20.6145"W | 63.33             | 282.147         | 0.70          | 0.66                 | 2.94                |
| 2217.00 | 5.170           | 277.990     | 2214.69  | -35.84         | 13.65      | -64.62    | 1723101.39        | 14443154.04        | 39°46'12.3497"N | 80°42'20.6491"W | 66.04             | 281.928         | 1.10          | 0.87                 | 7.74                |
| 2249.00 | 5.360           | 277.690     | 2246.55  | -37.25         | 14.05      | -67.53    | 1723098.48        | 14443154.44        | 39°46'12.3537"N | 80°42'20.6863"W | 68.97             | 281.754         | 0.60          | 0.59                 | -0.94               |
| 2281.00 | 5.470           | 279.530     | 2278.41  | -38.74         | 14.50      | -70.51    | 1723095.50        | 14443154.90        | 39°46'12.3583"N | 80°42'20.7246"W | 71.99             | 281.622         | 0.64          | 0.34                 | 5.75                |
| 2406.00 | 5.830           | 279.030     | 2402.80  | -44.94         | 16.48      | -82.66    | 1723083.36        | 14443156.88        | 39°46'12.3783"N | 80°42'20.8800"W | 84.28             | 281.279         | 0.29          | 0.29                 | -0.40               |
| 2438.00 | 5.790           | 278.750     | 2434.64  | -46.55         | 16.99      | -85.86    | 1723080.16        | 14443157.38        | 39°46'12.3833"N | 80°42'20.9210"W | 87.52             | 281.191         | 0.15          | -0.12                | -0.87               |
| 2470.00 | 5.710           | 277.150     | 2466.48  | -48.10         | 17.43      | -89.03    | 1723076.98        | 14443157.82        | 39°46'12.3878"N | 80°42'20.9616"W | 90.72             | 281.076         | 0.56          | -0.25                | -5.00               |
| 2501.00 | 5.620           | 283.000     | 2497.32  | -49.67         | 17.96      | -92.04    | 1723073.98        | 14443158.36        | 39°46'12.3932"N | 80°42'21.0001"W | 93.78             | 281.043         | 1.88          | -0.29                | 18.87               |
| 2533.00 | 5.460           | 289.500     | 2529.17  | -51.53         | 18.82      | -95.00    | 1723071.02        | 14443159.22        | 39°46'12.4018"N | 80°42'21.0380"W | 96.85             | 281.207         | 2.02          | -0.50                | 20.31               |
| 2565.00 | 5.430           | 289.400     | 2561.03  | -53.50         | 19.83      | -97.87    | 1723068.15        | 14443160.23        | 39°46'12.4119"N | 80°42'21.0747"W | 99.86             | 281.457         | 0.10          | -0.09                | -0.31               |
| 2597.00 | 5.330           | 286.580     | 2592.89  | -55.39         | 20.76      | -100.72   | 1723065.30        | 14443161.15        | 39°46'12.4211"N | 80°42'21.1112"W | 102.84            | 281.648         | 0.88          | -0.31                | -8.81               |
| 2628.00 | 5.230           | 285.880     | 2623.76  | -57.11         | 21.56      | -103.46   | 1723062.56        | 14443161.95        | 39°46'12.4291"N | 80°42'21.1462"W | 105.68            | 281.771         | 0.38          | -0.32                | -2.26               |
| 2660.00 | 5.100           | 284.850     | 2655.63  | -58.82         | 22.32      | -106.23   | 1723059.79        | 14443162.71        | 39°46'12.4367"N | 80°42'21.1817"W | 108.55            | 281.867         | 0.50          | -0.41                | -3.22               |
| 2692.00 | 4.970           | 284.070     | 2687.50  | -60.44         | 23.02      | -108.95   | 1723057.07        | 14443163.41        | 39°46'12.4438"N | 80°42'21.2165"W | 111.36            | 281.932         | 0.46          | -0.41                | -2.44               |
| 2724.00 | 4.790           | 290.540     | 2719.39  | -62.12         | 23.83      | -111.55   | 1723054.47        | 14443164.22        | 39°46'12.4518"N | 80°42'21.2497"W | 114.07            | 282.059         | 1.81          | -0.56                | 20.22               |
| 2756.00 | 4.650           | 297.950     | 2751.28  | -63.99         | 24.91      | -113.95   | 1723052.08        | 14443165.30        | 39°46'12.4625"N | 80°42'21.2804"W | 116.64            | 282.330         | 1.95          | -0.44                | 23.16               |
| 2787.00 | 4.570           | 299.340     | 2782.18  | -65.88         | 26.10      | -116.13   | 1723049.89        | 14443166.49        | 39°46'12.4744"N | 80°42'21.3084"W | 119.03            | 282.667         | 0.44          | -0.26                | 4.48                |
| 2818.00 | 4.510           | 299.060     | 2813.08  | -67.77         | 27.30      | -118.28   | 1723047.75        | 14443167.69        | 39°46'12.4863"N | 80°42'21.3357"W | 121.38            | 282.996         | 0.21          | -0.19                | -0.90               |
| 2848.00 | 4.260           | 298.560     | 2843.00  | -69.52         | 28.40      | -120.28   | 1723045.74        | 14443168.79        | 39°46'12.4973"N | 80°42'21.3614"W | 123.59            | 283.286         | 0.84          | -0.83                | -1.67               |
| 2880.00 | 4.080           | 297.010     | 2874.91  | -71.27         | 29.49      | -122.34   | 1723043.69        | 14443169.88        | 39°46'12.5081"N | 80°42'21.3877"W | 125.85            | 283.552         | 0.66          | -0.56                | -4.84               |
| 2912.00 | 3.970           | 293.630     | 2906.83  | -72.89         | 30.45      | -124.37   | 1723041.66        | 14443170.84        | 39°46'12.5176"N | 80°42'21.4137"W | 128.05            | 283.757         | 0.82          | -0.34                | -10.56              |
| 2942.00 | 4.220           | 294.560     | 2936.76  | -74.40         | 31.32      | -126.33   | 1723039.70        | 14443171.71        | 39°46'12.5264"N | 80°42'21.4387"W | 130.15            | 283.926         | 0.86          | 0.83                 | 3.10                |
| 2974.00 | 4.660           | 296.410     | 2968.66  | -76.20         | 32.39      | -128.56   | 1723037.47        | 14443172.78        | 39°46'12.5370"N | 80°42'21.4673"W | 132.58            | 284.142         | 1.45          | 1.38                 | 5.78                |
| 3006.00 | 4.530           | 296.970     | 3000.56  | -78.09         | 33.54      | -130.85   | 1723035.18        | 14443173.93        | 39°46'12.5484"N | 80°42'21.4966"W | 135.08            | 284.378         | 0.43          | -0.41                | 1.75                |
| 3037.00 | 5.050           | 297.660     | 3031.45  | -80.03         | 34.73      | -133.15   | 1723032.88        | 14443175.12        | 39°46'12.5602"N | 80°42'21.5260"W | 137.61            | 284.620         | 1.69          | 1.68                 | 2.23                |
| 3069.00 | 5.510           | 297.570     | 3063.31  | -82.23         | 36.10      | -135.76   | 1723030.27        | 14443176.48        | 39°46'12.5738"N | 80°42'21.5593"W | 140.48            | 284.890         | 1.44          | 1.44                 | -0.28               |
| 3101.00 | 5.430           | 297.570     | 3095.17  | -84.52         | 37.51      | -138.47   | 1723027.57        | 14443177.89        | 39°46'12.5879"N | 80°42'21.5939"W | 143.46            | 285.157         | 0.25          | -0.25                | 0.00                |



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# Actual Wellpath Report

Knob Creek S-6HM AWB Proj:15790'

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## REFERENCE WELLPATH IDENTIFICATION

|          |                               |          |                      |
|----------|-------------------------------|----------|----------------------|
| Operator | EQT (TUG HILL OPERATING, LLC) | Well     | Knob Creek S-6HM     |
| Field    | Marshall                      | API      | 47-051-02281-0000    |
| Facility | Knob Creek                    | Wellbore | Knob Creek S-6HM AWB |
| Slot     | Slot 06                       |          |                      |

## WELLPATH DATA (234 stations)

| MD [ft] | Inclination [°] | Azimuth [°] | TVD [ft] | Vert Sect [ft] | North [ft] | East [ft] | Grid East [US ft] | Grid North [US ft] | Latitude        | Longitude       | Closure Dist [ft] | Closure Dir [°] | DLS [°/100ft] | Build Rate [°/100ft] | Turn Rate [°/100ft] |
|---------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|-----------------|-----------------|-------------------|-----------------|---------------|----------------------|---------------------|
| 3132.00 | 5.250           | 296.550     | 3126.03  | -86.66         | 38.82      | -141.03   | 1723025.00        | 14443179.21        | 39°46'12.6009"N | 80°42'21.6267"W | 146.28            | 285.390         | 0.66          | -0.58                | -3.29               |
| 3164.00 | 5.150           | 295.850     | 3157.90  | -88.79         | 40.10      | -143.64   | 1723022.40        | 14443180.49        | 39°46'12.6137"N | 80°42'21.6600"W | 149.13            | 285.599         | 0.37          | -0.31                | -2.19               |
| 3196.00 | 4.960           | 294.200     | 3189.78  | -90.82         | 41.30      | -146.19   | 1723019.85        | 14443181.68        | 39°46'12.6255"N | 80°42'21.6927"W | 151.91            | 285.774         | 0.75          | -0.59                | -5.16               |
| 3227.00 | 5.400           | 292.600     | 3220.65  | -92.77         | 42.41      | -148.76   | 1723017.28        | 14443182.79        | 39°46'12.6366"N | 80°42'21.7255"W | 154.69            | 285.911         | 1.49          | 1.42                 | -5.16               |
| 3259.00 | 6.540           | 290.940     | 3252.47  | -95.02         | 43.64      | -151.85   | 1723014.19        | 14443184.02        | 39°46'12.6488"N | 80°42'21.7651"W | 158.00            | 286.032         | 3.60          | 3.56                 | -5.19               |
| 3290.00 | 7.670           | 290.440     | 3283.24  | -97.57         | 44.99      | -155.44   | 1723010.60        | 14443185.37        | 39°46'12.6623"N | 80°42'21.8109"W | 161.82            | 286.142         | 3.65          | 3.65                 | -1.61               |
| 3322.00 | 8.640           | 289.870     | 3314.91  | -100.55        | 46.55      | -159.70   | 1723006.34        | 14443186.93        | 39°46'12.6779"N | 80°42'21.8655"W | 166.35            | 286.251         | 3.04          | 3.03                 | -1.78               |
| 3354.00 | 9.590           | 289.400     | 3346.51  | -103.85        | 48.25      | -164.48   | 1723001.57        | 14443188.63        | 39°46'12.6949"N | 80°42'21.9265"W | 171.41            | 286.351         | 2.98          | 2.97                 | -1.47               |
| 3387.00 | 10.620          | 288.210     | 3379.00  | -107.55        | 50.12      | -169.96   | 1722996.09        | 14443190.50        | 39°46'12.7135"N | 80°42'21.9967"W | 177.19            | 286.430         | 3.18          | 3.12                 | -3.61               |
| 3417.00 | 11.510          | 288.310     | 3408.44  | -111.19        | 51.92      | -175.43   | 1722990.62        | 14443192.30        | 39°46'12.7315"N | 80°42'22.0666"W | 182.95            | 286.487         | 2.97          | 2.97                 | 0.33                |
| 3449.00 | 12.250          | 288.220     | 3439.75  | -115.35        | 53.99      | -181.68   | 1722984.37        | 14443194.36        | 39°46'12.7521"N | 80°42'22.1466"W | 189.53            | 286.549         | 2.31          | 2.31                 | -0.28               |
| 3481.00 | 12.730          | 288.380     | 3470.99  | -119.73        | 56.16      | -188.25   | 1722977.80        | 14443196.54        | 39°46'12.7738"N | 80°42'22.2307"W | 196.45            | 286.611         | 1.50          | 1.50                 | 0.50                |
| 3513.00 | 13.390          | 289.680     | 3502.17  | -124.38        | 58.52      | -195.09   | 1722970.97        | 14443198.90        | 39°46'12.7973"N | 80°42'22.3181"W | 203.67            | 286.697         | 2.26          | 2.06                 | 4.06                |
| 3544.00 | 14.230          | 289.640     | 3532.27  | -129.19        | 61.01      | -202.05   | 1722964.00        | 14443201.38        | 39°46'12.8222"N | 80°42'22.4073"W | 211.06            | 286.801         | 2.71          | 2.71                 | -0.13               |
| 3576.00 | 15.400          | 290.060     | 3563.21  | -134.54        | 63.79      | -209.75   | 1722956.31        | 14443204.16        | 39°46'12.8499"N | 80°42'22.5057"W | 219.24            | 286.915         | 3.67          | 3.66                 | 1.31                |
| 3607.00 | 16.400          | 289.700     | 3593.02  | -140.09        | 66.67      | -217.74   | 1722948.33        | 14443207.05        | 39°46'12.8787"N | 80°42'22.6079"W | 227.72            | 287.025         | 3.24          | 3.23                 | -1.16               |
| 3639.00 | 17.140          | 288.840     | 3623.66  | -146.05        | 69.72      | -226.45   | 1722939.62        | 14443210.09        | 39°46'12.9090"N | 80°42'22.7194"W | 236.94            | 287.113         | 2.44          | 2.31                 | -2.69               |
| 3656.00 | 17.710          | 289.030     | 3639.88  | -149.31        | 71.37      | -231.27   | 1722934.80        | 14443211.74        | 39°46'12.9255"N | 80°42'22.7810"W | 242.03            | 287.151         | 3.37          | 3.35                 | 1.12                |
| 3737.00 | 19.280          | 286.500     | 3716.69  | -165.36        | 79.19      | -255.74   | 1722910.34        | 14443219.56        | 39°46'13.0036"N | 80°42'23.0940"W | 267.72            | 287.205         | 2.18          | 1.94                 | -3.12               |
| 3832.00 | 20.040          | 285.550     | 3806.16  | -184.57        | 88.01      | -286.46   | 1722879.63        | 14443228.37        | 39°46'13.0917"N | 80°42'23.4871"W | 299.67            | 287.078         | 0.87          | 0.80                 | -1.00               |
| 3927.00 | 21.620          | 286.040     | 3894.94  | -204.78        | 97.21      | -318.96   | 1722847.14        | 14443237.57        | 39°46'13.1837"N | 80°42'23.9029"W | 333.45            | 286.949         | 1.67          | 1.66                 | 0.52                |
| 4022.00 | 24.090          | 286.240     | 3982.48  | -227.03        | 107.47     | -354.40   | 1722811.72        | 14443247.82        | 39°46'13.2862"N | 80°42'24.3564"W | 370.34            | 286.869         | 2.60          | 2.60                 | 0.21                |
| 4117.00 | 26.270          | 285.920     | 4068.45  | -251.36        | 118.66     | -393.24   | 1722772.90        | 14443259.01        | 39°46'13.3981"N | 80°42'24.8533"W | 410.75            | 286.791         | 2.30          | 2.29                 | -0.34               |
| 4307.00 | 30.050          | 284.530     | 4235.93  | -304.21        | 142.13     | -479.76   | 1722686.41        | 14443282.48        | 39°46'13.6329"N | 80°42'25.9603"W | 500.37            | 286.503         | 2.02          | 1.99                 | -0.73               |
| 4402.00 | 31.680          | 284.670     | 4317.47  | -332.54        | 154.42     | -526.92   | 1722639.27        | 14443294.76        | 39°46'13.7558"N | 80°42'26.5638"W | 549.08            | 286.334         | 1.72          | 1.72                 | 0.15                |
| 4497.00 | 31.410          | 285.430     | 4398.43  | -361.74        | 167.32     | -574.91   | 1722591.29        | 14443307.66        | 39°46'13.8849"N | 80°42'27.1779"W | 598.77            | 286.227         | 0.51          | -0.28                | 0.80                |
| 4592.00 | 32.090          | 287.060     | 4479.22  | -391.96        | 181.31     | -622.90   | 1722543.33        | 14443321.64        | 39°46'14.0247"N | 80°42'27.7919"W | 648.75            | 286.229         | 1.15          | 0.72                 | 1.72                |
| 4688.00 | 37.290          | 282.960     | 4558.14  | -423.90        | 195.33     | -675.66   | 1722490.58        | 14443335.65        | 39°46'14.1649"N | 80°42'28.4670"W | 703.33            | 286.124         | 5.93          | 5.42                 | -4.27               |
| 4783.00 | 38.390          | 287.610     | 4633.17  | -458.34        | 210.71     | -731.84   | 1722434.43        | 14443351.03        | 39°46'14.3187"N | 80°42'29.1858"W | 761.57            | 286.062         | 3.22          | 1.16                 | 4.89                |
| 4877.00 | 38.730          | 290.340     | 4706.68  | -495.94        | 229.76     | -787.23   | 1722379.06        | 14443370.07        | 39°46'14.5088"N | 80°42'29.8944"W | 820.08            | 286.270         | 1.85          | 0.36                 | 2.90                |



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# Actual Wellpath Report

Knob Creek S-6HM AWB Proj:15790'

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## REFERENCE WELLPATH IDENTIFICATION

|          |                               |          |                      |
|----------|-------------------------------|----------|----------------------|
| Operator | EQT (TUG HILL OPERATING, LLC) | Well     | Knob Creek S-6HM     |
| Field    | Marshall                      | API      | 47-051-02281-0000    |
| Facility | Knob Creek                    | Wellbore | Knob Creek S-6HM AWB |
| Slot     | Slot 06                       |          |                      |

## WELLPATH DATA (234 stations)

| MD<br>[ft] | Inclination<br>[°] | Azimuth<br>[°] | TVD<br>[ft] | Vert Sect<br>[ft] | North<br>[ft] | East<br>[ft] | Grid East<br>[US ft] | Grid North<br>[US ft] | Latitude        | Longitude       | Closure Dist<br>[ft] | Closure Dir<br>[°] | DLS<br>[°/100ft] | Build Rate<br>[°/100ft] | Turn Rate<br>[°/100ft] |
|------------|--------------------|----------------|-------------|-------------------|---------------|--------------|----------------------|-----------------------|-----------------|-----------------|----------------------|--------------------|------------------|-------------------------|------------------------|
| 4973.00    | 33.580             | 289.070        | 4781.65     | -534.99           | 249.98        | -843.68      | 1722322.63           | 14443390.28           | 39°46'14.7104"N | 80°42'30.6165"W | 879.94               | 286.504            | 0.84             | -0.16                   | -1.32                  |
| 5067.00    | 33.480             | 289.050        | 4855.19     | -572.63           | 269.10        | -899.03      | 1722267.31           | 14443409.40           | 39°46'14.9012"N | 80°42'31.3245"W | 938.44               | 286.664            | 0.11             | -0.11                   | -0.02                  |
| 5163.00    | 33.290             | 288.060        | 4929.92     | -610.96           | 288.27        | -956.16      | 1722210.20           | 14443428.56           | 39°46'15.0925"N | 80°42'32.0554"W | 998.67               | 286.778            | 1.06             | 0.84                    | -1.03                  |
| 5258.00    | 39.270             | 287.780        | 5003.45     | -648.69           | 306.78        | -1013.39     | 1722152.99           | 14443447.06           | 39°46'15.2772"N | 80°42'32.7875"W | 1058.80              | 286.843            | 0.19             | -0.02                   | -0.29                  |
| 5353.00    | 39.220             | 287.580        | 5077.02     | -686.21           | 325.03        | -1070.65     | 1722095.75           | 14443465.31           | 39°46'15.4594"N | 80°42'33.5201"W | 1118.90              | 286.888            | 0.14             | -0.05                   | -0.21                  |
| 5448.00    | 38.800             | 287.210        | 5150.84     | -723.30           | 342.91        | -1127.71     | 1722038.71           | 14443483.18           | 39°46'15.6379"N | 80°42'34.2502"W | 1178.69              | 286.913            | 0.51             | -0.44                   | -0.39                  |
| 5543.00    | 39.270             | 287.400        | 5224.63     | -760.33           | 360.71        | -1184.83     | 1721981.61           | 14443500.97           | 39°46'15.8157"N | 80°42'34.9810"W | 1238.52              | 286.932            | 0.51             | 0.49                    | 0.20                   |
| 5638.00    | 38.580             | 286.250        | 5298.54     | -796.89           | 377.99        | -1241.96     | 1721924.51           | 14443518.24           | 39°46'15.9883"N | 80°42'35.7119"W | 1298.21              | 286.928            | 1.05             | -0.73                   | -1.21                  |
| 5732.00    | 38.760             | 286.500        | 5371.93     | -832.49           | 394.55        | -1298.31     | 1721868.18           | 14443534.79           | 39°46'16.1537"N | 80°42'36.4330"W | 1356.94              | 286.904            | 0.25             | 0.19                    | 0.27                   |
| 5828.00    | 38.550             | 287.140        | 5446.90     | -869.21           | 411.90        | -1355.71     | 1721810.80           | 14443552.14           | 39°46'16.3270"N | 80°42'37.1673"W | 1416.90              | 286.900            | 0.47             | -0.22                   | 0.67                   |
| 5923.00    | 34.500             | 271.840        | 5523.39     | -897.96           | 421.51        | -1411.03     | 1721755.51           | 14443561.74           | 39°46'16.4238"N | 80°42'37.8754"W | 1472.64              | 286.632            | 10.46            | -4.26                   | -16.11                 |
| 6017.00    | 32.210             | 256.340        | 5602.04     | -911.47           | 416.44        | -1462.08     | 1721704.48           | 14443556.67           | 39°46'16.3753"N | 80°42'38.5294"W | 1520.23              | 285.898            | 9.36             | -2.44                   | -16.49                 |
| 6112.00    | 28.170             | 237.200        | 5684.33     | -910.06           | 398.26        | -1505.65     | 1721660.92           | 14443538.51           | 39°46'16.1971"N | 80°42'39.0882"W | 1557.43              | 284.816            | 10.94            | -4.25                   | -20.15                 |
| 6206.00    | 28.950             | 219.850        | 5767.04     | -894.37           | 368.73        | -1538.94     | 1721627.65           | 14443508.98           | 39°46'15.9062"N | 80°42'39.5157"W | 1582.49              | 283.474            | 8.84             | 0.83                    | -18.46                 |
| 6301.00    | 31.560             | 210.890        | 5849.13     | -867.77           | 329.71        | -1566.45     | 1721600.14           | 14443469.98           | 39°46'15.5215"N | 80°42'39.8697"W | 1600.78              | 281.886            | 5.48             | 2.75                    | -9.43                  |
| 6396.00    | 37.250             | 198.890        | 5927.57     | -830.25           | 281.08        | -1588.57     | 1721578.04           | 14443421.37           | 39°46'15.0416"N | 80°42'40.1549"W | 1613.24              | 280.034            | 9.29             | 5.99                    | -12.63                 |
| 6491.00    | 44.410             | 184.630        | 5999.56     | -778.01           | 220.53        | -1600.60     | 1721566.01           | 14443360.85           | 39°46'14.4436"N | 80°42'40.3115"W | 1615.72              | 277.845            | 12.34            | 7.54                    | -15.01                 |
| 6586.00    | 51.930             | 175.790        | 6062.95     | -712.04           | 149.93        | -1600.54     | 1721566.07           | 14443290.27           | 39°46'13.7459"N | 80°42'40.3136"W | 1607.55              | 275.351            | 10.51            | 7.92                    | -9.31                  |
| 6681.00    | 59.660             | 169.570        | 6116.35     | -635.76           | 72.15         | -1590.35     | 1721576.26           | 14443212.52           | 39°46'12.9769"N | 80°42'40.1864"W | 1591.99              | 272.597            | 9.77             | 8.14                    | -6.55                  |
| 6775.00    | 66.870             | 161.900        | 6158.66     | -552.50           | -9.03         | -1569.53     | 1721597.07           | 14443131.37           | 39°46'12.1739"N | 80°42'39.9230"W | 1569.55              | 269.670            | 10.57            | 7.67                    | -8.16                  |
| 6871.00    | 74.090             | 155.850        | 6190.74     | -462.13           | -93.29        | -1536.86     | 1721629.73           | 14443047.15           | 39°46'11.3402"N | 80°42'39.5081"W | 1539.69              | 266.526            | 9.58             | 7.52                    | -6.30                  |
| 6965.00    | 81.210             | 152.320        | 6210.84     | -370.73           | -175.80       | -1496.73     | 1721669.84           | 14442964.67           | 39°46'10.5235"N | 80°42'38.9976"W | 1507.01              | 263.301            | 8.41             | 7.57                    | -3.76                  |
| 7060.00    | 86.290             | 151.550        | 6221.18     | -277.05           | -259.10       | -1452.31     | 1721714.24           | 14442881.40           | 39°46'9.6989"N  | 80°42'38.4322"W | 1475.24              | 259.885            | 5.41             | 5.35                    | -0.81                  |
| 7156.00    | 88.970             | 149.300        | 6225.15     | -182.24           | -342.51       | -1404.97     | 1721761.56           | 14442798.03           | 39°46'8.8731"N  | 80°42'37.8294"W | 1446.12              | 256.300            | 3.64             | 2.79                    | -2.34                  |
| 7250.00    | 89.460             | 149.260        | 6226.43     | -89.61            | -423.31       | -1356.96     | 1721809.56           | 14442717.26           | 39°46'8.0730"N  | 80°42'37.2179"W | 1421.45              | 252.674            | 0.52             | 0.52                    | -0.04                  |
| 7345.00    | 89.370             | 148.780        | 6227.40     | 3.93              | -504.75       | -1308.06     | 1721858.44           | 14442635.85           | 39°46'7.2665"N  | 80°42'36.5950"W | 1402.07              | 248.899            | 0.51             | -0.09                   | -0.51                  |
| 7440.00    | 89.220             | 148.970        | 6228.57     | 97.42             | -586.07       | -1258.96     | 1721907.52           | 14442554.56           | 39°46'6.4613"N  | 80°42'35.9696"W | 1388.69              | 245.037            | 0.25             | -0.16                   | 0.20                   |
| 7535.00    | 89.560             | 149.310        | 6229.58     | 191.00            | -667.62       | -1210.23     | 1721956.23           | 14442473.05           | 39°46'5.6539"N  | 80°42'35.3490"W | 1382.16              | 241.117            | 0.51             | 0.36                    | 0.36                   |
| 7630.00    | 89.030             | 149.310        | 6230.75     | 284.62            | -749.30       | -1161.75     | 1722004.69           | 14442391.39           | 39°46'4.8450"N  | 80°42'34.7315"W | 1382.43              | 237.179            | 0.56             | -0.56                   | 0.00                   |
| 7724.00    | 89.590             | 149.770        | 6231.89     | 377.32            | -830.32       | -1114.10     | 1722052.32           | 14442310.40           | 39°46'4.0428"N  | 80°42'34.1246"W | 1389.48              | 233.303            | 0.77             | 0.60                    | 0.49                   |



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# Actual Wellpath Report

## Knob Creek S-6HM AWB Proj:15790'

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### REFERENCE WELLPATH IDENTIFICATION

|          |                               |          |                      |
|----------|-------------------------------|----------|----------------------|
| Operator | EQT (TUG HILL OPERATING, LLC) | Well     | Knob Creek S-6HM     |
| Field    | Marshall                      | API      | 47-051-02281-0000    |
| Facility | Knob Creek                    | Wellbore | Knob Creek S-6HM AWB |
| Slot     | Slot 06                       |          |                      |

### WELLPATH DATA (234 stations)

| MD [ft]  | Inclination [°] | Azimuth [°] | TVD [ft] | Vert Sect [ft] | North [ft] | East [ft] | Grid East [US ft] | Grid North [US ft] | Latitude        | Longitude       | Closure Dist [ft] | Closure Dir [°] | DLS [°/100ft] | Build Rate [°/100ft] | Turn Rate [°/100ft] |
|----------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|-----------------|-----------------|-------------------|-----------------|---------------|----------------------|---------------------|
| 7819.00  | 89.430          | 147.030     | 6232.70  | 470.66         | -911.23    | -1064.33  | 1722102.07        | 14442229.53        | 39°46'3.2417"N  | 80°42'33.4906"W | 1401.12           | 229.431         | 2.89          | -0.17                | -2.88               |
| 7914.00  | 89.400          | 148.150     | 6233.67  | 563.76         | -991.42    | -1013.41  | 1722152.97        | 14442149.37        | 39°46'2.4475"N  | 80°42'32.8419"W | 1417.72           | 225.628         | 1.18          | -0.03                | 1.18                |
| 8009.00  | 89.990          | 149.310     | 6234.17  | 657.22         | -1072.62   | -964.10   | 1722202.26        | 14442068.20        | 39°46'1.6435"N  | 80°42'32.2138"W | 1442.22           | 221.950         | 1.37          | 0.62                 | 1.22                |
| 8104.00  | 89.590          | 149.450     | 6234.52  | 750.86         | -1154.37   | -915.72   | 1722250.62        | 14441986.48        | 39°46'0.8340"N  | 80°42'31.5976"W | 1473.47           | 218.424         | 0.45          | -0.42                | 0.15                |
| 8199.00  | 89.130          | 147.900     | 6235.58  | 844.30         | -1235.52   | -866.33   | 1722299.99        | 14441905.37        | 39°46'0.0305"N  | 80°42'30.9685"W | 1508.98           | 215.038         | 1.70          | -0.48                | -1.63               |
| 8294.00  | 89.680          | 148.920     | 6236.57  | 937.66         | -1316.43   | -816.57   | 1722349.73        | 14441824.48        | 39°45'59.2292"N | 80°42'30.3346"W | 1549.12           | 211.811         | 1.22          | 0.58                 | 1.07                |
| 8389.00  | 89.430          | 148.260     | 6237.31  | 1031.07        | -1397.51   | -767.06   | 1722399.22        | 14441743.44        | 39°45'58.4264"N | 80°42'29.7040"W | 1594.18           | 208.761         | 0.74          | -0.26                | -0.69               |
| 8483.00  | 89.460          | 149.630     | 6238.22  | 1123.60        | -1478.03   | -718.57   | 1722447.69        | 14441662.95        | 39°45'57.6290"N | 80°42'29.0864"W | 1643.45           | 205.928         | 1.46          | 0.03                 | 1.46                |
| 8578.00  | 89.500          | 149.700     | 6239.08  | 1217.33        | -1560.02   | -670.60   | 1722495.65        | 14441580.99        | 39°45'56.8172"N | 80°42'28.4755"W | 1698.05           | 203.261         | 0.08          | 0.04                 | 0.07                |
| 8674.00  | 89.960          | 150.470     | 6239.53  | 1312.15        | -1643.23   | -622.72   | 1722543.50        | 14441497.82        | 39°45'55.9933"N | 80°42'27.8658"W | 1757.27           | 200.755         | 0.93          | 0.48                 | 0.80                |
| 8769.00  | 89.800          | 149.690     | 6239.73  | 1405.98        | -1725.57   | -575.34   | 1722590.87        | 14441415.51        | 39°45'55.1781"N | 80°42'27.2625"W | 1818.95           | 198.439         | 0.84          | -0.17                | -0.82               |
| 8863.00  | 89.990          | 150.700     | 6239.90  | 1498.86        | -1807.13   | -528.61   | 1722637.57        | 14441333.98        | 39°45'54.3705"N | 80°42'26.6676"W | 1882.86           | 196.305         | 1.09          | 0.20                 | 1.07                |
| 8958.00  | 88.480          | 149.490     | 6241.17  | 1592.69        | -1889.47   | -481.26   | 1722684.91        | 14441251.67        | 39°45'53.5553"N | 80°42'26.0646"W | 1949.80           | 194.290         | 2.04          | -1.59                | -1.27               |
| 9053.00  | 89.070          | 149.600     | 6243.20  | 1686.36        | -1971.35   | -433.12   | 1722733.03        | 14441169.83        | 39°45'52.7446"N | 80°42'25.4515"W | 2018.36           | 192.391         | 0.63          | 0.62                 | 0.12                |
| 9148.00  | 89.560          | 150.240     | 6244.34  | 1780.14        | -2053.54   | -385.51   | 1722780.63        | 14441087.66        | 39°45'51.9307"N | 80°42'24.8453"W | 2089.42           | 190.632         | 0.85          | 0.52                 | 0.67                |
| 9243.00  | 89.250          | 149.570     | 6245.33  | 1873.93        | -2135.73   | -337.87   | 1722828.24        | 14441005.51        | 39°45'51.1169"N | 80°42'24.2388"W | 2162.29           | 188.990         | 0.78          | -0.33                | -0.71               |
| 9338.00  | 89.620          | 150.280     | 6246.26  | 1967.72        | -2217.94   | -290.27   | 1722875.83        | 14440923.34        | 39°45'50.3029"N | 80°42'23.6326"W | 2236.85           | 187.456         | 0.84          | 0.39                 | 0.75                |
| 9433.00  | 87.770          | 149.470     | 6248.43  | 2061.47        | -2300.08   | -242.60   | 1722923.47        | 14440841.22        | 39°45'49.4896"N | 80°42'23.0257"W | 2312.84           | 186.021         | 2.13          | -1.95                | -0.85               |
| 9528.00  | 88.940          | 149.440     | 6251.15  | 2155.10        | -2381.86   | -194.34   | 1722971.71        | 14440759.48        | 39°45'48.6798"N | 80°42'22.4111"W | 2389.78           | 184.665         | 1.23          | 1.23                 | -0.03               |
| 9623.00  | 89.010          | 150.220     | 6252.85  | 2248.85        | -2463.98   | -146.61   | 1723019.43        | 14440677.39        | 39°45'47.8667"N | 80°42'21.8033"W | 2468.34           | 183.405         | 0.82          | 0.07                 | 0.82                |
| 9717.00  | 88.020          | 147.160     | 6255.29  | 2341.27        | -2544.25   | -97.78    | 1723068.24        | 14440597.15        | 39°45'47.0718"N | 80°42'21.1814"W | 2546.13           | 182.201         | 3.42          | -1.05                | -3.26               |
| 9812.00  | 89.310          | 150.370     | 6257.50  | 2434.70        | -2625.45   | -48.54    | 1723117.46        | 14440515.99        | 39°45'46.2678"N | 80°42'20.5543"W | 2625.90           | 181.059         | 3.64          | 1.36                 | 3.38                |
| 9907.00  | 88.910          | 150.120     | 6258.98  | 2528.57        | -2707.91   | -1.40     | 1723164.58        | 14440433.55        | 39°45'45.4513"N | 80°42'19.9541"W | 2707.91           | 180.030         | 0.50          | -0.42                | -0.26               |
| 10002.00 | 88.910          | 149.930     | 6260.79  | 2622.37        | -2790.19   | 46.06     | 1723212.02        | 14440351.31        | 39°45'44.6366"N | 80°42'19.3499"W | 2790.57           | 179.054         | 0.20          | 0.00                 | -0.20               |
| 10097.00 | 87.130          | 149.950     | 6264.07  | 2716.11        | -2872.36   | 93.61     | 1723259.55        | 14440269.17        | 39°45'43.8230"N | 80°42'18.7444"W | 2873.89           | 178.133         | 1.87          | -1.87                | 0.02                |
| 10193.00 | 89.040          | 150.220     | 6267.28  | 2810.88        | -2955.52   | 141.46    | 1723307.38        | 14440186.04        | 39°45'42.9996"N | 80°42'18.1352"W | 2958.91           | 177.260         | 2.01          | 1.99                 | 0.28                |
| 10288.00 | 88.700          | 148.680     | 6269.15  | 2904.53        | -3037.32   | 189.74    | 1723355.64        | 14440104.28        | 39°45'42.1897"N | 80°42'17.5204"W | 3043.24           | 176.425         | 1.66          | -0.36                | -1.62               |
| 10383.00 | 88.670          | 149.030     | 6271.33  | 2998.00        | -3118.60   | 238.86    | 1723404.74        | 14440023.03        | 39°45'41.3848"N | 80°42'16.8949"W | 3127.74           | 175.620         | 0.37          | -0.03                | 0.37                |
| 10478.00 | 89.840          | 149.890     | 6272.56  | 3091.66        | -3200.41   | 287.13    | 1723452.99        | 14439941.25        | 39°45'40.5747"N | 80°42'16.2802"W | 3213.27           | 174.873         | 1.53          | 1.23                 | 0.91                |
| 10574.00 | 88.730          | 149.140     | 6273.76  | 3186.32        | -3283.13   | 335.82    | 1723501.67        | 14439858.56        | 39°45'39.7556"N | 80°42'15.6602"W | 3300.26           | 174.160         | 1.40          | -1.16                | -0.78               |



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# Actual Wellpath Report

Knob Creek S-6HM AWB Proj:15790'

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## REFERENCE WELLPATH IDENTIFICATION

|          |                               |          |                      |
|----------|-------------------------------|----------|----------------------|
| Operator | EQT (TUG HILL OPERATING, LLC) | Well     | Knob Creek S-6HM     |
| Field    | Marshall                      | API      | 47-051-02281-0000    |
| Facility | Knob Creek                    | Wellbore | Knob Creek S-6HM AWB |
| Slot     | Slot 06                       |          |                      |

## WELLPATH DATA (234 stations)

| MD [ft]  | Inclination [°] | Azimuth [°] | TVD [ft] | Vert Sect [ft] | North [ft] | East [ft] | Grid East [US ft] | Grid North [US ft] | Latitude        | Longitude       | Closure Dist [ft] | Closure Dir [°] | DLS [°/100ft] | Build Rate [°/100ft] | Turn Rate [°/100ft] |
|----------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|-----------------|-----------------|-------------------|-----------------|---------------|----------------------|---------------------|
| 10669.00 | 89.530          | 149.900     | 6275.20  | 3279.99        | -3365.00   | 384.00    | 1723549.83        | 14439776.73        | 39°45'38.9450"N | 80°42'15.0467"W | 3386.84           | 173.490         | 1.16          | 0.84                 | 0.80                |
| 10764.00 | 89.220          | 149.940     | 6276.24  | 3373.78        | -3447.20   | 431.62    | 1723597.43        | 14439694.56        | 39°45'38.1311"N | 80°42'14.4405"W | 3474.11           | 172.863         | 0.33          | -0.33                | 0.04                |
| 10858.00 | 88.940          | 150.380     | 6277.75  | 3466.64        | -3528.72   | 478.38    | 1723644.17        | 14439613.07        | 39°45'37.3239"N | 80°42'13.8451"W | 3561.00           | 172.280         | 0.55          | -0.30                | 0.47                |
| 10953.00 | 88.820          | 149.570     | 6279.61  | 3560.43        | -3610.96   | 525.91    | 1723691.68        | 14439530.87        | 39°45'36.5096"N | 80°42'13.2400"W | 3649.05           | 171.714         | 0.86          | -0.13                | -0.85               |
| 11048.00 | 89.250          | 150.690     | 6281.21  | 3654.26        | -3693.32   | 573.21    | 1723738.97        | 14439448.53        | 39°45'35.6941"N | 80°42'12.6377"W | 3737.54           | 171.178         | 1.26          | 0.45                 | 1.18                |
| 11142.00 | 88.790          | 148.700     | 6282.82  | 3746.99        | -3774.46   | 620.64    | 1723786.37        | 14439367.42        | 39°45'34.8907"N | 80°42'12.0339"W | 3825.15           | 170.662         | 2.17          | -0.49                | -2.12               |
| 11237.00 | 88.880          | 149.700     | 6284.75  | 3840.57        | -3856.05   | 669.27    | 1723834.99        | 14439285.87        | 39°45'34.0828"N | 80°42'11.4147"W | 3913.70           | 170.154         | 1.06          | 0.09                 | 1.05                |
| 11332.00 | 88.820          | 149.960     | 6286.65  | 3934.32        | -3938.16   | 717.00    | 1723882.70        | 14439203.79        | 39°45'33.2697"N | 80°42'10.8069"W | 4002.90           | 169.681         | 0.28          | -0.06                | 0.27                |
| 11523.00 | 89.830          | 150.130     | 6288.90  | 4122.94        | -4103.63   | 812.37    | 1723978.03        | 14439038.38        | 39°45'31.6313"N | 80°42'9.5929"W  | 4183.27           | 168.802         | 0.54          | 0.53                 | 0.09                |
| 11618.00 | 88.880          | 149.360     | 6289.97  | 4216.68        | -4185.69   | 860.23    | 1724025.87        | 14438956.36        | 39°45'30.8188"N | 80°42'8.9835"W  | 4273.17           | 168.386         | 1.29          | -1.00                | -0.81               |
| 11713.00 | 89.400          | 151.310     | 6291.40  | 4310.57        | -4268.22   | 907.24    | 1724072.86        | 14438873.86        | 39°45'30.0016"N | 80°42'8.3851"W  | 4363.58           | 168.000         | 2.12          | 0.55                 | 2.05                |
| 11807.00 | 88.760          | 149.000     | 6292.91  | 4403.41        | -4349.74   | 954.01    | 1724119.61        | 14438792.38        | 39°45'29.1945"N | 80°42'7.7897"W  | 4453.13           | 167.629         | 2.55          | -0.68                | -2.46               |
| 11902.00 | 88.880          | 149.560     | 6294.86  | 4497.01        | -4431.39   | 1002.53   | 1724168.11        | 14438710.76        | 39°45'28.3859"N | 80°42'7.1719"W  | 4543.38           | 167.252         | 0.60          | 0.13                 | 0.59                |
| 11997.00 | 89.000          | 150.100     | 6296.62  | 4590.77        | -4513.51   | 1050.26   | 1724215.83        | 14438628.67        | 39°45'27.5728"N | 80°42'6.5642"W  | 4634.09           | 166.901         | 0.58          | 0.13                 | 0.57                |
| 12092.00 | 89.620          | 150.450     | 6297.77  | 4684.65        | -4596.00   | 1097.36   | 1724262.91        | 14438546.21        | 39°45'26.7560"N | 80°42'5.9646"W  | 4725.19           | 166.571         | 0.75          | 0.65                 | 0.37                |
| 12187.00 | 88.880          | 149.800     | 6299.01  | 4778.48        | -4678.37   | 1144.68   | 1724310.21        | 14438463.88        | 39°45'25.9405"N | 80°42'5.3622"W  | 4816.37           | 166.251         | 1.04          | -0.78                | -0.68               |
| 12282.00 | 89.000          | 149.620     | 6300.77  | 4872.21        | -4760.38   | 1192.59   | 1724358.10        | 14438381.89        | 39°45'25.1283"N | 80°42'4.7523"W  | 4907.50           | 165.936         | 0.23          | 0.13                 | -0.19               |
| 12377.00 | 88.910          | 149.930     | 6302.50  | 4965.94        | -4842.46   | 1240.40   | 1724405.89        | 14438299.85        | 39°45'24.3157"N | 80°42'4.1436"W  | 4998.80           | 165.633         | 0.34          | -0.09                | 0.33                |
| 12472.00 | 88.910          | 149.940     | 6304.31  | 5059.73        | -4924.66   | 1287.99   | 1724453.46        | 14438217.68        | 39°45'23.5017"N | 80°42'3.5378"W  | 5090.30           | 165.343         | 0.01          | 0.00                 | 0.01                |
| 12567.00 | 89.250          | 150.260     | 6305.83  | 5153.55        | -5007.00   | 1335.34   | 1724500.79        | 14438135.37        | 39°45'22.6864"N | 80°42'2.9351"W  | 5182.01           | 165.067         | 0.49          | 0.36                 | 0.34                |
| 12662.00 | 89.490          | 150.490     | 6306.88  | 5247.46        | -5089.58   | 1382.30   | 1724547.73        | 14438052.83        | 39°45'21.8687"N | 80°42'2.3373"W  | 5273.95           | 164.805         | 0.35          | 0.25                 | 0.24                |
| 12758.00 | 88.200          | 149.800     | 6308.81  | 5342.28        | -5172.82   | 1430.07   | 1724595.49        | 14437969.62        | 39°45'21.0445"N | 80°42'1.7291"W  | 5366.86           | 164.546         | 1.52          | -1.34                | -0.72               |
| 12853.00 | 87.950          | 149.090     | 6312.00  | 5435.89        | -5254.58   | 1478.34   | 1724643.74        | 14437887.89        | 39°45'20.2349"N | 80°42'1.1146"W  | 5458.58           | 164.286         | 0.79          | -0.26                | -0.75               |
| 12948.00 | 88.420          | 149.940     | 6315.01  | 5529.53        | -5336.41   | 1526.51   | 1724691.89        | 14437806.09        | 39°45'19.4247"N | 80°42'0.5014"W  | 5550.45           | 164.037         | 1.02          | 0.49                 | 0.89                |
| 13043.00 | 88.450          | 149.310     | 6317.61  | 5623.21        | -5418.34   | 1574.53   | 1724739.89        | 14437724.20        | 39°45'18.6134"N | 80°41'59.8900"W | 5642.47           | 163.797         | 0.66          | 0.03                 | -0.66               |
| 13138.00 | 89.460          | 150.900     | 6319.34  | 5717.03        | -5500.68   | 1621.87   | 1724787.21        | 14437641.89        | 39°45'17.7981"N | 80°41'59.2874"W | 5734.80           | 163.572         | 1.98          | 1.06                 | 1.67                |
| 13233.00 | 88.570          | 149.910     | 6320.97  | 5810.93        | -5583.27   | 1668.78   | 1724834.10        | 14437559.33        | 39°45'16.9803"N | 80°41'58.6904"W | 5827.33           | 163.359         | 1.40          | -0.94                | -1.04               |
| 13328.00 | 88.820          | 148.570     | 6323.14  | 5904.51        | -5664.88   | 1717.35   | 1724882.65        | 14437477.75        | 39°45'16.1721"N | 80°41'58.0719"W | 5919.48           | 163.135         | 1.43          | 0.26                 | -1.41               |
| 13423.00 | 88.940          | 149.580     | 6324.99  | 5998.05        | -5746.36   | 1766.16   | 1724931.45        | 14437396.30        | 39°45'15.3653"N | 80°41'57.4505"W | 6011.66           | 162.915         | 1.07          | 0.13                 | 1.06                |
| 13518.00 | 88.700          | 149.720     | 6326.95  | 6091.76        | -5828.32   | 1814.15   | 1724979.42        | 14437314.37        | 39°45'14.5537"N | 80°41'56.8395"W | 6104.14           | 162.710         | 0.29          | -0.25                | 0.15                |



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# Actual Wellpath Report

Knob Creek S-6HM AWB Proj:15790'

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## REFERENCE WELLPATH IDENTIFICATION

|          |                               |          |                      |
|----------|-------------------------------|----------|----------------------|
| Operator | EQT (TUG HILL OPERATING, LLC) | Well     | Knob Creek S-6HM     |
| Field    | Marshall                      | API      | 47-051-02281-0000    |
| Facility | Knob Creek                    | Wellbore | Knob Creek S-6HM AWB |
| Slot     | Slot 06                       |          |                      |

## WELLPATH DATA (234 stations) † = interpolated, ‡ = extrapolated station

| MD [ft]   | Inclination [°] | Azimuth [°] | TVD [ft] | Vert Sect [ft] | North [ft] | East [ft] | Grid East [US ft] | Grid North [US ft] | Latitude        | Longitude       | Closure Dist [ft] | Closure Dir [°] | DLS [°/100ft] | Build Rate [°/100ft] | Turn Rate [°/100ft] |
|-----------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|-----------------|-----------------|-------------------|-----------------|---------------|----------------------|---------------------|
| 13708.00  | 88.570          | 149.920     | 6331.48  | 6279.24        | -5992.52   | 1909.64   | 1725074.87        | 14437150.24        | 39°45'12.9278"N | 80°41'55.6240"W | 6289.44           | 162.324         | 0.13          | -0.07                | 0.11                |
| 13803.00  | 88.790          | 150.060     | 6333.66  | 6373.02        | -6074.77   | 1957.15   | 1725122.35        | 14437068.03        | 39°45'12.1134"N | 80°41'55.0193"W | 6382.26           | 162.142         | 0.27          | 0.23                 | 0.15                |
| 13898.00  | 89.620          | 149.800     | 6334.98  | 6466.81        | -6156.97   | 2004.74   | 1725169.93        | 14436985.86        | 39°45'11.2994"N | 80°41'54.4135"W | 6475.13           | 161.964         | 0.92          | 0.87                 | -0.27               |
| 13993.00  | 87.860          | 149.140     | 6337.07  | 6560.46        | -6238.78   | 2052.99   | 1725218.16        | 14436904.08        | 39°45'10.4894"N | 80°41'53.7993"W | 6567.88           | 161.785         | 1.98          | -1.85                | -0.69               |
| 14088.00  | 88.260          | 150.050     | 6340.29  | 6654.11        | -6320.66   | 2101.04   | 1725266.19        | 14436822.23        | 39°45'9.6785"N  | 80°41'53.1876"W | 6660.72           | 161.613         | 1.05          | 0.42                 | 0.96                |
| 14183.00  | 88.570          | 150.070     | 6342.91  | 6747.90        | -6402.95   | 2148.43   | 1725313.57        | 14436739.97        | 39°45'8.8637"N  | 80°41'52.5843"W | 6753.78           | 161.451         | 0.33          | 0.33                 | 0.02                |
| 14278.00  | 88.360          | 148.980     | 6345.46  | 6841.55        | -6484.80   | 2196.60   | 1725361.71        | 14436658.16        | 39°45'8.0532"N  | 80°41'51.9712"W | 6846.73           | 161.287         | 1.17          | -0.22                | -1.15               |
| 14373.00  | 88.200          | 148.970     | 6348.31  | 6935.04        | -6566.17   | 2245.54   | 1725410.63        | 14436576.82        | 39°45'7.2474"N  | 80°41'51.3481"W | 6939.53           | 161.120         | 0.17          | -0.17                | -0.01               |
| 14468.00  | 87.800          | 147.970     | 6351.63  | 7028.37        | -6647.10   | 2295.19   | 1725460.26        | 14436495.92        | 39°45'6.4460"N  | 80°41'50.7159"W | 7032.20           | 160.951         | 1.13          | -0.42                | -1.05               |
| 14563.00  | 88.230          | 149.480     | 6354.92  | 7121.77        | -6728.24   | 2344.47   | 1725509.53        | 14436414.81        | 39°45'5.6424"N  | 80°41'50.0884"W | 7125.01           | 160.789         | 1.65          | 0.45                 | 1.59                |
| 14658.00  | 87.960          | 147.880     | 6358.08  | 7215.16        | -6809.35   | 2393.83   | 1725558.86        | 14436333.73        | 39°45'4.8392"N  | 80°41'49.4600"W | 7217.87           | 160.631         | 1.71          | -0.28                | -1.68               |
| 14753.00  | 89.220          | 149.260     | 6360.41  | 7308.54        | -6890.38   | 2443.35   | 1725608.37        | 14436252.73        | 39°45'4.0367"N  | 80°41'48.8295"W | 7310.77           | 160.475         | 1.97          | 1.33                 | 1.45                |
| 14848.00  | 88.570          | 148.980     | 6362.25  | 7402.09        | -6971.90   | 2492.10   | 1725657.10        | 14436171.25        | 39°45'3.2295"N  | 80°41'48.2089"W | 7403.91           | 160.331         | 0.74          | -0.68                | -0.29               |
| 14942.00  | 88.660          | 148.850     | 6364.52  | 7494.60        | -7052.38   | 2540.62   | 1725705.60        | 14436090.80        | 39°45'2.4325"N  | 80°41'47.5912"W | 7496.05           | 160.188         | 0.17          | 0.10                 | -0.14               |
| 15037.00  | 88.390          | 149.130     | 6366.96  | 7588.10        | -7133.77   | 2589.54   | 1725754.50        | 14436009.44        | 39°45'1.6265"N  | 80°41'46.9683"W | 7589.23           | 160.049         | 0.41          | -0.28                | 0.29                |
| 15132.00  | 87.800          | 148.250     | 6370.12  | 7681.50        | -7214.89   | 2638.88   | 1725803.82        | 14435928.35        | 39°45'0.8231"N  | 80°41'46.3401"W | 7682.34           | 159.910         | 1.11          | -0.62                | -0.93               |
| 15228.00  | 88.450          | 148.710     | 6373.26  | 7775.81        | -7296.68   | 2689.04   | 1725853.96        | 14435846.59        | 39°45'0.0131"N  | 80°41'45.7014"W | 7776.41           | 159.770         | 0.83          | 0.68                 | 0.48                |
| 15323.00  | 88.420          | 148.880     | 6375.86  | 7869.26        | -7377.91   | 2738.25   | 1725903.15        | 14435765.40        | 39°44'59.2088"N | 80°41'45.0750"W | 7869.66           | 159.638         | 0.18          | -0.03                | 0.18                |
| 15418.00  | 88.080          | 148.300     | 6378.76  | 7962.63        | -7458.95   | 2787.73   | 1725952.61        | 14435684.39        | 39°44'58.4062"N | 80°41'44.4450"W | 7962.88           | 159.507         | 0.71          | -0.36                | -0.61               |
| 15513.00  | 87.960          | 149.280     | 6382.04  | 8056.05        | -7540.15   | 2836.93   | 1726001.79        | 14435603.22        | 39°44'57.6021"N | 80°41'43.8187"W | 8056.18           | 159.382         | 1.04          | -0.13                | 1.03                |
| 15608.00  | 88.570          | 148.940     | 6384.92  | 8149.58        | -7621.64   | 2885.68   | 1726050.52        | 14435521.77        | 39°44'56.7951"N | 80°41'43.1981"W | 8149.63           | 159.263         | 0.74          | 0.64                 | -0.36               |
| 15703.00  | 88.460          | 148.920     | 6387.36  | 8243.07        | -7702.98   | 2934.69   | 1726099.51        | 14435440.45        | 39°44'55.9896"N | 80°41'42.5741"W | 8243.08           | 159.144         | 0.10          | -0.09                | -0.02               |
| 15765.00  | 89.060          | 148.690     | 6388.69  | 8304.07        | -7756.01   | 2966.80   | 1726131.61        | 14435387.45        | 39°44'55.4645"N | 80°41'42.1654"W | 8304.07           | 159.067         | 1.01          | 0.94                 | -0.37               |
| 15790.00‡ | 89.060          | 148.690     | 6389.10  | 8328.65        | -7777.36   | 2979.79   | 1726144.59        | 14435366.10        | 39°44'55.2530"N | 80°41'42.0000"W | 8328.65           | 159.036         | 0.00          | 0.00                 | 0.00                |

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# Actual Wellpath Report

Knob Creek S-6HM AWB Proj:15790'

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## REFERENCE WELLPATH IDENTIFICATION

|          |                               |          |                      |
|----------|-------------------------------|----------|----------------------|
| Operator | EQT (TUG HILL OPERATING, LLC) | Well     | Knob Creek S-6HM     |
| Field    | Marshall                      | API      | 47-051-02281-0000    |
| Facility | Knob Creek                    | Wellbore | Knob Creek S-6HM AWB |
| Slot     | Slot 06                       |          |                      |

## HOLE & CASING SECTIONS - Ref Wellbore: Knob Creek S-6HM AWB Ref Wellpath: Knob Creek S-6HM AWB Proj:15790'

| String/Diameter             | Start MD [ft] | End MD [ft] | Interval [ft] | Start TVD [ft] | End TVD [ft] | Start N/S [ft] | Start E/W [ft] | End N/S [ft] | End E/W [ft] |
|-----------------------------|---------------|-------------|---------------|----------------|--------------|----------------|----------------|--------------|--------------|
| 30in Conductor              | 28.00         | 135.00      | 107.00        | 28.00          | 135.00       | 0.00           | 0.00           | -0.15        | -0.12        |
| 17.5in Open Hole            | 135.00        | 523.00      | 388.00        | 135.00         | 522.99       | -0.15          | -0.12          | -0.30        | -1.75        |
| 13.375in Casing Surface     | 28.00         | 523.00      | 495.00        | 28.00          | 522.99       | 0.00           | 0.00           | -0.30        | -1.75        |
| 12.25in Open Hole           | 523.00        | 2324.00     | 1801.00       | 522.99         | 2321.21      | -0.30          | -1.75          | 15.18        | -74.60       |
| 9.625in Casing Intermediate | 28.00         | 2324.00     | 2296.00       | 28.00          | 2321.21      | 0.00           | 0.00           | 15.18        | -74.60       |
| 8.5in Open Hole             | 2324.00       | 15790.00    | 13466.00      | 2321.21        | 6389.10      | 15.18          | -74.60         | -7777.36     | 2979.79      |
| 5.5in Casing Production     | 28.00         | 15790.00    | 15762.00      | 28.00          | 6389.10      | 0.00           | 0.00           | -7777.36     | 2979.79      |

## TARGETS

| Name                       | TVD [ft] | North [ft] | East [ft] | Grid East [US ft] | Grid North [US ft] | Latitude        | Longitude       | Shape |
|----------------------------|----------|------------|-----------|-------------------|--------------------|-----------------|-----------------|-------|
| Knob Creek S-6HM LP Rev-1  | 6220.00  | -261.65    | -1451.10  | 1721715.45        | 14442878.85        | 39°46'9.6736"N  | 80°42'38.4168"W | point |
| Knob Creek S-6HM BHL Rev-1 | 6372.25  | -7780.07   | 2977.77   | 1726142.58        | 14435363.40        | 39°44'55.2263"N | 80°41'42.0259"W | point |

## WELLPATH COMPOSITION - Ref Wellbore: Knob Creek S-6HM AWB Ref Wellpath: Knob Creek S-6HM AWB Proj:15790'

| Start MD [ft] | End MD [ft] | Positional Uncertainty Model                          | Log Name/Comment                                              | Wellbore             | Survey Date |
|---------------|-------------|-------------------------------------------------------|---------------------------------------------------------------|----------------------|-------------|
| 28.00         | 511.00      | OWSG MWD rev2 - Standard                              | 01 MWD<17-1/2">(204'-511')                                    | Knob Creek S-6HM AWB | 10/3/2023   |
| 511.00        | 2281.00     | OWSG MWD rev2 - Standard                              | 02 MWD<12-1/4">(575'-2281')                                   | Knob Creek S-6HM AWB | 10/3/2023   |
| 2281.00       | 3656.00     | OWSG MWD rev2 - Standard                              | 03 MWD<8-3/4">(2281')(2406'-3656')                            | Knob Creek S-6HM AWB | 10/3/2023   |
| 3656.00       | 15790.00    | OWSG MWD rev2 + IFR1 + Sag + Multi-Station Correction | 04 BH ATCurve +SQC IFR1+SAG+FDIR<8-1/2">(3656')(3737'-15765') | Knob Creek S-6HM AWB | 11/7/2023   |

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# Actual Wellpath Report

Knob Creek S-6HM AWB Proj:15790'  
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## REFERENCE WELLPATH IDENTIFICATION

|          |                               |          |                      |
|----------|-------------------------------|----------|----------------------|
| Operator | EQT (TUG HILL OPERATING, LLC) | Well     | Knob Creek S-6HM     |
| Field    | Marshall                      | API      | 47-051-02281-0000    |
| Facility | Knob Creek                    | Wellbore | Knob Creek S-6HM AWB |
| Slot     | Slot 06                       |          |                      |

## COMMENTS

### Wellpath general comments

API: 47-051-02281-0000

BH Job #: 111995203

Rig: Patterson 294

Duration:11/10/2023-11/12/2023

01\_MWD<17-1/2">(204'-511')

02\_MWD<12-1/4">(575'-2281')

03\_MWD<8-3/4">(2281')(2406'-3656')

04\_BH ATCurve +SQC IFR1+SAG+FDIR<8-1/2">(3656')(3737'-15765')

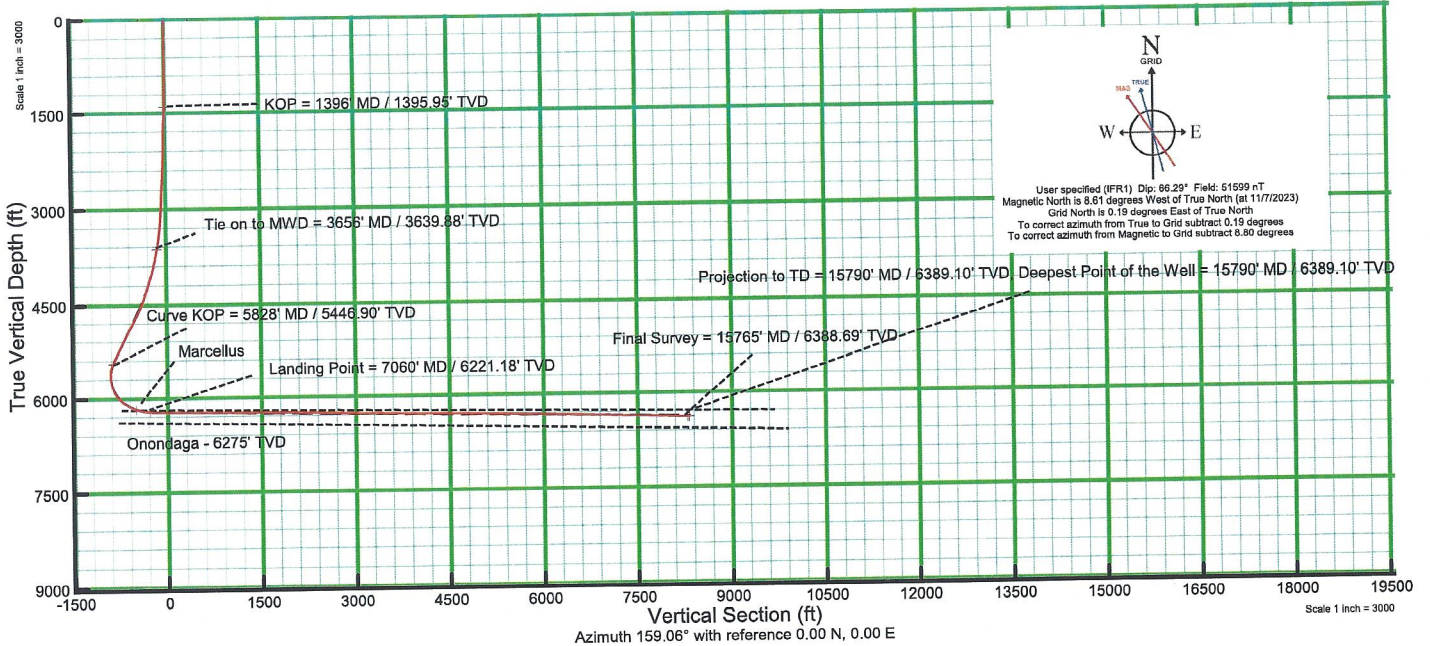
Landing Pt. @ 7060' MD

Final Survey @ 15765' MD

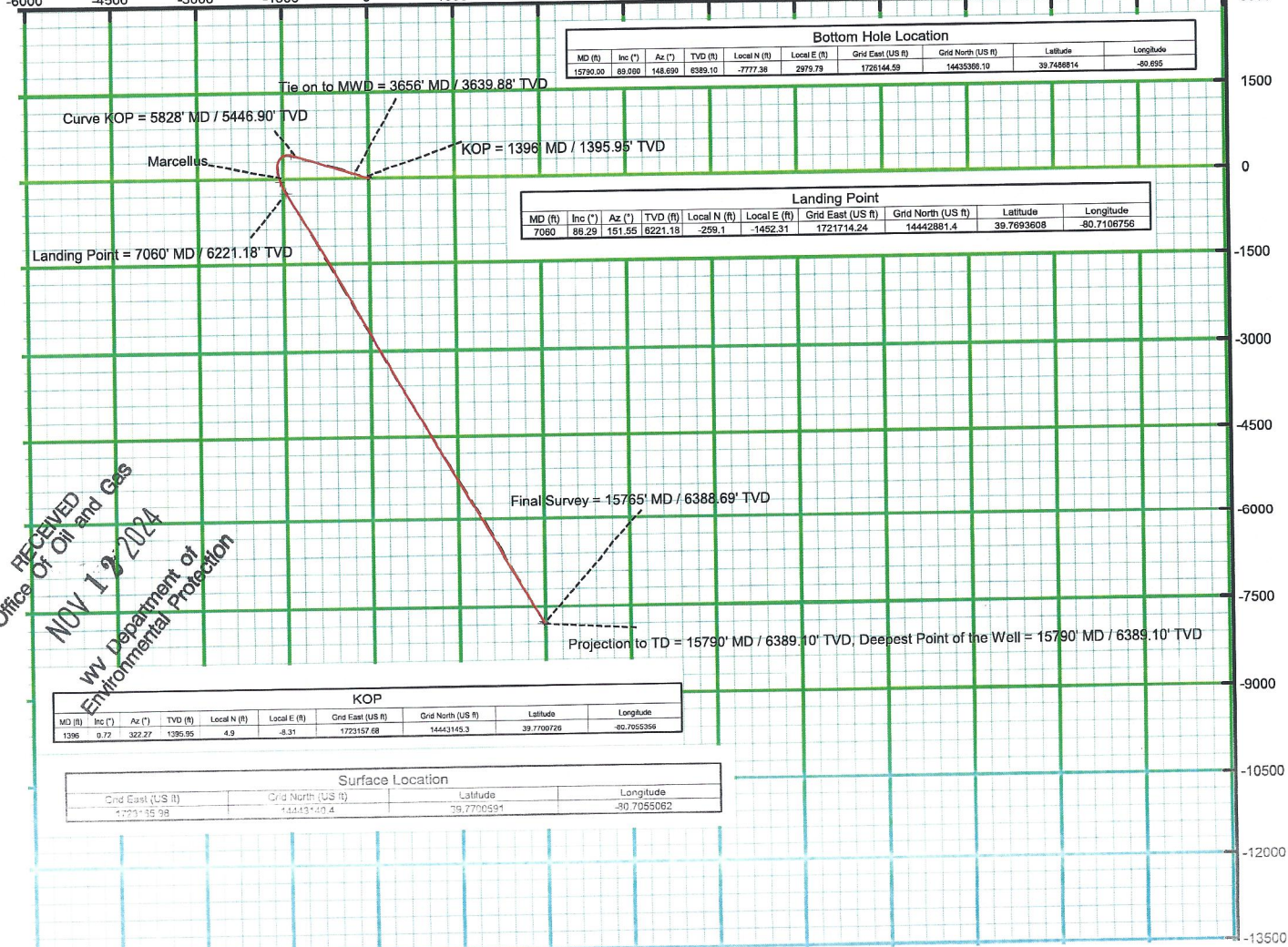
Projected MD at TD: 15790'



KB Elevation=765 FT  
 Ground Elevation=737 FT  
 All Survey Measurements were taken from KB Elevation



Scale 1 inch = 3000  
 Azimuth 159.06° with reference 0.00 N, 0.00 E



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