



# Actual Wellpath Report

Willett S-6HM AWB Proj:20534'

Page 1 of 11



## REFERENCE WELLPATH IDENTIFICATION

|          |                               |          |                   |
|----------|-------------------------------|----------|-------------------|
| Operator | EQT (TUG HILL OPERATING, LLC) | Well     | Willett S-6HM     |
| Field    | Marshall                      | API      | 47-051-02418-0000 |
| Facility | Willett                       | Wellbore | Willett 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               | 0.999611                           | Report Generated | 10/3/2023 at 9:57:52 AM |
| Convergence at slot | 0.22° 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         | 34.19             | -11.26   | 1736954.54       | 14462481.71     | 39°49'22.9443"N        | 80°39'22.2152"W |
| Facility Reference Pt |                   |          | 1736965.80       | 14462447.53     | 39°49'22.6060"N        | 80°39'22.0725"W |
| Field Reference Pt    |                   |          | 1920470.12       | 14528304.49     | 40°00'0.0000"N         | 80°00'0.0000"W  |

## WELLPATH DATUM

|                          |                   |                                                    |                   |
|--------------------------|-------------------|----------------------------------------------------|-------------------|
| Calculation method       | Minimum curvature | Nabors X14 (RKB) to Facility Vertical Datum        | 1342.50ft         |
| Horizontal Reference Pt  | Slot              | Nabors X14 (RKB) to Mean Sea Level                 | 1342.50ft         |
| Vertical Reference Pt    | Nabors X14 (RKB)  | Nabors X14 (RKB) to Ground Level at Slot (Slot 06) | 32.50ft           |
| MD Reference Pt          | Nabors X14 (RKB)  | Section Origin                                     | N 0.00, E 0.00 ft |
| Field Vertical Reference | Mean Sea Level    | Section Azimuth                                    | 139.12°           |

RECEIVED  
Office of Oil and Gas  
AUG 2 2024  
WV Department of  
Environmental Protection



# Actual Wellpath Report

Willett S-6HM AWB Proj:20534'

Page 2 of 11



## REFERENCE WELLPATH IDENTIFICATION

|          |                               |          |                   |
|----------|-------------------------------|----------|-------------------|
| Operator | EQT (TUG HILL OPERATING, LLC) | Well     | Willett S-6HM     |
| Field    | Marshall                      | API      | 47-051-02418-0000 |
| Facility | Willett                       | Wellbore | Willett S-6HM AWB |
| Slot     | Slot 06                       |          |                   |

## WELLPATH DATA (216 stations) † = interpolated, ‡ = extrapolated station

| MD<br>[ft] | Inclination<br>[°] | Azimuth<br>[°] | TVD<br>[ft] | Vert Sect<br>[ft] | North<br>[ft] | East<br>[ft] | Grid East<br>[US ft] | Grid North<br>[US ft] | Latitude        | Longitude       | Closure Dist<br>[ft] | Closure Dir<br>[°] | DLS<br>[°/100ft] | Build Rate<br>[°/100ft] | Turn Rate<br>[°/100ft] |
|------------|--------------------|----------------|-------------|-------------------|---------------|--------------|----------------------|-----------------------|-----------------|-----------------|----------------------|--------------------|------------------|-------------------------|------------------------|
| 0.00†      | 0.000              | 15.890         | 0.00        | 0.00              | 0.00          | 0.00         | 1736954.54           | 14462481.71           | 39°49'22.9443"N | 80°39'22.2152"W | 0.00                 | 0.000              | 0.00             | 0.00                    | 0.00                   |
| 32.50      | 0.000              | 15.890         | 32.50       | 0.00              | 0.00          | 0.00         | 1736954.54           | 14462481.71           | 39°49'22.9443"N | 80°39'22.2152"W | 0.00                 | 0.000              | 0.00             | 0.00                    | 0.00                   |
| 100.00     | 0.170              | 15.890         | 100.00      | -0.05             | 0.10          | 0.03         | 1736954.57           | 14462481.81           | 39°49'22.9453"N | 80°39'22.2148"W | 0.10                 | 15.890             | 0.25             | 0.25                    | 0.00                   |
| 200.00     | 0.200              | 30.190         | 200.00      | -0.19             | 0.39          | 0.16         | 1736954.70           | 14462482.10           | 39°49'22.9482"N | 80°39'22.2132"W | 0.42                 | 21.784             | 0.05             | 0.03                    | 14.30                  |
| 300.00     | 0.650              | 90.810         | 300.00      | 0.13              | 0.53          | 0.81         | 1736955.35           | 14462482.24           | 39°49'22.9495"N | 80°39'22.2048"W | 0.97                 | 56.693             | 0.58             | 0.45                    | 60.62                  |
| 400.00     | 0.620              | 74.930         | 399.99      | 0.74              | 0.67          | 1.90         | 1736956.44           | 14462482.38           | 39°49'22.9508"N | 80°39'22.1908"W | 2.01                 | 70.704             | 0.18             | -0.03                   | -15.88                 |
| 500.00     | 0.490              | 55.120         | 499.99      | 1.02              | 1.05          | 2.77         | 1736957.31           | 14462482.76           | 39°49'22.9546"N | 80°39'22.1796"W | 2.97                 | 69.255             | 0.23             | -0.13                   | -19.81                 |
| 600.00     | 0.440              | 39.150         | 599.98      | 1.00              | 1.59          | 3.37         | 1736957.91           | 14462483.30           | 39°49'22.9599"N | 80°39'22.1720"W | 3.72                 | 64.681             | 0.14             | -0.05                   | -15.97                 |
| 700.00     | 0.410              | 30.660         | 699.98      | 0.82              | 2.20          | 3.79         | 1736958.33           | 14462483.91           | 39°49'22.9659"N | 80°39'22.1665"W | 4.38                 | 59.895             | 0.07             | -0.03                   | -8.49                  |
| 800.00     | 0.320              | 1.890          | 799.98      | 0.50              | 2.79          | 3.98         | 1736958.52           | 14462484.49           | 39°49'22.9717"N | 80°39'22.1640"W | 4.86                 | 55.037             | 0.20             | -0.09                   | -28.77                 |
| 900.00     | 0.570              | 329.800        | 899.98      | -0.19             | 3.49          | 3.74         | 1736958.28           | 14462485.20           | 39°49'22.9787"N | 80°39'22.1670"W | 5.12                 | 46.963             | 0.34             | 0.25                    | -32.09                 |
| 1000.00    | 0.380              | 333.130        | 999.97      | -1.00             | 4.22          | 3.34         | 1736957.88           | 14462485.93           | 39°49'22.9859"N | 80°39'22.1721"W | 5.38                 | 38.379             | 0.19             | -0.19                   | 3.33                   |
| 1100.00    | 0.190              | 323.640        | 1099.97     | -1.49             | 4.65          | 3.09         | 1736957.63           | 14462486.36           | 39°49'22.9901"N | 80°39'22.1753"W | 5.58                 | 33.643             | 0.20             | -0.19                   | -9.49                  |
| 1200.00    | 0.360              | 304.120        | 1199.97     | -1.96             | 4.96          | 2.74         | 1736957.27           | 14462486.67           | 39°49'22.9932"N | 80°39'22.1799"W | 5.66                 | 28.883             | 0.19             | 0.17                    | -19.52                 |
| 1300.00    | 0.700              | 228.000        | 1299.97     | -2.25             | 4.73          | 2.02         | 1736956.56           | 14462486.43           | 39°49'22.9909"N | 80°39'22.1890"W | 5.14                 | 23.157             | 0.71             | 0.34                    | -76.12                 |
| 1400.00    | 0.610              | 208.090        | 1399.96     | -2.05             | 3.85          | 1.32         | 1736955.86           | 14462485.56           | 39°49'22.9823"N | 80°39'22.1981"W | 4.07                 | 18.893             | 0.24             | -0.09                   | -19.91                 |
| 1500.00    | 0.560              | 219.940        | 1499.95     | -1.78             | 3.00          | 0.75         | 1736955.29           | 14462484.71           | 39°49'22.9740"N | 80°39'22.2054"W | 3.10                 | 14.066             | 0.13             | -0.05                   | 11.85                  |
| 1600.00    | 0.480              | 216.670        | 1599.95     | -1.61             | 2.29          | 0.19         | 1736954.73           | 14462484.00           | 39°49'22.9670"N | 80°39'22.2127"W | 2.30                 | 4.706              | 0.09             | -0.08                   | -3.27                  |
| 1700.00    | 1.780              | 128.250        | 1699.93     | 0.01              | 1.00          | 1.16         | 1736955.70           | 14462482.71           | 39°49'22.9541"N | 80°39'22.2003"W | 1.53                 | 49.321             | 1.83             | 1.30                    | -88.42                 |
| 1800.00    | 5.430              | 111.720        | 1799.72     | 5.73              | -1.72         | 6.78         | 1736961.31           | 14462479.99           | 39°49'22.9271"N | 80°39'22.1284"W | 6.99                 | 104.227            | 3.76             | 3.65                    | -16.53                 |
| 1900.00    | 6.080              | 83.270         | 1899.24     | 12.91             | -2.85         | 16.43        | 1736970.97           | 14462478.86           | 39°49'22.9155"N | 80°39'22.0047"W | 16.68                | 99.834             | 2.89             | 0.65                    | -28.45                 |
| 2000.00    | 7.920              | 67.440         | 1998.49     | 18.05             | 0.42          | 28.06        | 1736982.59           | 14462482.13           | 39°49'22.9474"N | 80°39'21.8556"W | 28.06                | 89.151             | 2.65             | 1.84                    | -15.83                 |
| 2100.00    | 9.370              | 80.540         | 2097.37     | 24.46             | 4.40          | 42.45        | 1736996.97           | 14462486.11           | 39°49'22.9862"N | 80°39'21.6709"W | 42.68                | 84.086             | 2.44             | 1.45                    | 13.10                  |
| 2200.00    | 12.400             | 81.640         | 2195.56     | 34.48             | 7.30          | 61.11        | 1737015.62           | 14462489.00           | 39°49'23.0141"N | 80°39'21.4316"W | 61.54                | 83.190             | 3.04             | 3.03                    | 1.10                   |
| 2300.00    | 14.460             | 78.770         | 2292.82     | 46.43             | 11.29         | 83.98        | 1737038.49           | 14462493.00           | 39°49'23.0527"N | 80°39'21.1383"W | 84.73                | 82.343             | 2.16             | 2.06                    | -2.87                  |
| 2400.00    | 16.190             | 76.510         | 2389.26     | 59.02             | 16.97         | 109.78       | 1737064.28           | 14462498.68           | 39°49'23.1079"N | 80°39'20.8073"W | 111.09               | 81.211             | 1.83             | 1.73                    | -2.26                  |
| 2500.00    | 16.960             | 74.420         | 2485.10     | 71.66             | 24.14         | 137.39       | 1737091.88           | 14462505.84           | 39°49'23.1777"N | 80°39'20.4531"W | 139.50               | 80.033             | 0.97             | 0.77                    | -2.09                  |
| 2600.00    | 19.350             | 76.570         | 2580.12     | 85.54             | 31.91         | 167.56       | 1737122.03           | 14462513.61           | 39°49'23.2533"N | 80°39'20.0661"W | 170.57               | 79.217             | 2.48             | 2.39                    | 2.15                   |
| 2700.00    | 16.090             | 74.130         | 2675.36     | 99.04             | 39.55         | 197.01       | 1737151.47           | 14462521.24           | 39°49'23.3277"N | 80°39'19.6883"W | 200.94               | 78.649             | 3.34             | -3.26                   | -2.44                  |
| 2800.00    | 13.490             | 70.600         | 2772.04     | 109.17            | 47.21         | 221.34       | 1737175.80           | 14462528.91           | 39°49'23.4025"N | 80°39'19.3760"W | 226.32               | 77.959             | 2.75             | -2.60                   | -3.53                  |

RECEIVED  
Department of Oil and Gas  
AUG 2 2024  
Environmental Protection



# Actual Wellpath Report

Willett S-6HM AWB Proj:20534'

Page 3 of 11



## REFERENCE WELLPATH IDENTIFICATION

|          |                               |          |                   |
|----------|-------------------------------|----------|-------------------|
| Operator | EQT (TUG HILL OPERATING, LLC) | Well     | Willett S-6HM     |
| Field    | Marshall                      | API      | 47-051-02418-0000 |
| Facility | Willett                       | Wellbore | Willett S-6HM AWB |
| Slot     | Slot 06                       |          |                   |

## WELLPATH DATA (216 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] |
|------------|--------------------|----------------|-------------|-------------------|---------------|--------------|----------------------|-----------------------|-----------------|-----------------|----------------------|--------------------|------------------|-------------------------|------------------------|
| 2856.20    | 12.970             | 71.280         | 2826.75     | 113.95            | 51.42         | 233.50       | 1737187.95           | 14462533.11           | 39°49'23.4436"N | 80°39'19.2200"W | 239.09               | 77.582             | 0.97             | -0.93                   | 1.21                   |
| 2910.00    | 11.700             | 71.590         | 2879.31     | 118.31            | 55.08         | 244.40       | 1737198.84           | 14462536.77           | 39°49'23.4793"N | 80°39'19.0802"W | 250.52               | 77.300             | 2.36             | -2.36                   | 0.58                   |
| 3005.00    | 9.930              | 64.990         | 2972.62     | 124.23            | 61.58         | 260.96       | 1737215.40           | 14462543.27           | 39°49'23.5430"N | 80°39'18.8675"W | 268.13               | 76.722             | 2.27             | -1.86                   | -6.95                  |
| 3100.00    | 12.460             | 62.190         | 3065.81     | 128.79            | 69.83         | 277.45       | 1737231.88           | 14462551.51           | 39°49'23.6238"N | 80°39'18.6558"W | 286.10               | 75.873             | 2.72             | 2.66                    | -2.95                  |
| 3193.00    | 16.050             | 69.370         | 3155.94     | 135.51            | 79.04         | 298.36       | 1737252.79           | 14462560.72           | 39°49'23.7141"N | 80°39'18.3873"W | 308.66               | 75.162             | 4.30             | 3.86                    | 7.72                   |
| 3287.00    | 14.370             | 79.750         | 3246.66     | 145.95            | 85.70         | 322.01       | 1737276.42           | 14462567.37           | 39°49'23.7790"N | 80°39'18.0839"W | 333.22               | 75.097             | 3.40             | -1.79                   | 11.04                  |
| 3382.00    | 12.430             | 75.050         | 3339.07     | 156.43            | 90.43         | 343.49       | 1737297.90           | 14462572.11           | 39°49'23.8250"N | 80°39'17.8083"W | 355.20               | 75.250             | 2.34             | -2.04                   | -4.95                  |
| 3477.00    | 11.670             | 67.080         | 3431.98     | 163.87            | 96.81         | 362.22       | 1737316.62           | 14462578.49           | 39°49'23.8873"N | 80°39'17.5680"W | 374.94               | 75.036             | 1.92             | -0.80                   | -8.39                  |
| 3571.00    | 12.150             | 67.490         | 3523.96     | 169.91            | 104.30        | 380.12       | 1737334.51           | 14462585.97           | 39°49'23.9606"N | 80°39'17.3383"W | 394.17               | 74.656             | 0.52             | 0.51                    | 0.44                   |
| 3666.00    | 13.420             | 72.850         | 3616.60     | 177.50            | 111.38        | 399.89       | 1737354.27           | 14462593.05           | 39°49'24.0298"N | 80°39'17.0845"W | 415.11               | 74.436             | 1.83             | 1.34                    | 5.64                   |
| 3760.00    | 14.380             | 77.200         | 3707.85     | 187.39            | 117.19        | 421.69       | 1737376.07           | 14462598.85           | 39°49'24.0863"N | 80°39'16.8047"W | 437.67               | 74.470             | 1.51             | 1.02                    | 4.63                   |
| 3854.00    | 13.400             | 74.050         | 3799.10     | 197.47            | 122.76        | 443.55       | 1737397.92           | 14462604.43           | 39°49'24.1407"N | 80°39'16.5243"W | 460.23               | 74.529             | 1.32             | -1.04                   | -3.35                  |
| 3948.00    | 14.110             | 70.170         | 3890.41     | 206.18            | 129.64        | 464.80       | 1737419.16           | 14462611.30           | 39°49'24.2078"N | 80°39'16.2516"W | 482.54               | 74.415             | 1.24             | 0.76                    | -4.13                  |
| 4042.00    | 15.930             | 68.920         | 3981.19     | 214.67            | 138.17        | 487.62       | 1737441.97           | 14462619.83           | 39°49'24.2912"N | 80°39'15.9588"W | 506.82               | 74.179             | 1.97             | 1.94                    | -1.33                  |
| 4137.00    | 16.750             | 69.010         | 4072.36     | 223.74            | 147.76        | 512.56       | 1737466.90           | 14462629.42           | 39°49'24.3851"N | 80°39'15.6386"W | 533.44               | 73.918             | 0.86             | 0.86                    | 0.09                   |
| 4231.00    | 17.920             | 72.070         | 4162.09     | 233.99            | 157.07        | 538.97       | 1737493.30           | 14462638.72           | 39°49'24.4760"N | 80°39'15.2997"W | 561.39               | 73.753             | 1.58             | 1.24                    | 3.26                   |
| 4326.00    | 19.590             | 73.850         | 4252.04     | 246.35            | 166.00        | 568.18       | 1737522.49           | 14462647.64           | 39°49'24.5632"N | 80°39'14.9249"W | 591.93               | 73.714             | 1.86             | 1.76                    | 1.87                   |
| 4419.00    | 21.060             | 69.120         | 4339.25     | 258.59            | 176.29        | 598.77       | 1737553.07           | 14462657.93           | 39°49'24.6637"N | 80°39'14.5323"W | 624.18               | 73.594             | 2.37             | 1.58                    | -5.09                  |
| 4513.00    | 24.310             | 69.440         | 4425.97     | 271.09            | 189.11        | 632.67       | 1737586.97           | 14462670.75           | 39°49'24.7891"N | 80°39'14.0971"W | 660.33               | 73.358             | 3.46             | 3.46                    | 0.34                   |
| 4608.00    | 28.500             | 81.040         | 4511.10     | 289.88            | 199.52        | 673.42       | 1737627.69           | 14462681.15           | 39°49'24.8904"N | 80°39'13.5744"W | 702.35               | 73.497             | 6.98             | 4.41                    | 12.21                  |
| 4702.00    | 33.260             | 83.810         | 4591.75     | 316.43            | 205.80        | 721.23       | 1737675.48           | 14462687.43           | 39°49'24.9506"N | 80°39'12.9614"W | 750.01               | 74.074             | 5.28             | 5.06                    | 2.95                   |
| 4797.00    | 34.760             | 80.330         | 4670.51     | 345.29            | 213.15        | 773.83       | 1737728.07           | 14462694.78           | 39°49'25.0213"N | 80°39'12.2868"W | 802.65               | 74.600             | 2.59             | 1.58                    | -3.66                  |
| 4892.00    | 36.400             | 79.550         | 4747.77     | 373.60            | 222.82        | 828.25       | 1737782.47           | 14462704.44           | 39°49'25.1147"N | 80°39'11.5888"W | 857.70               | 74.943             | 1.79             | 1.73                    | -0.82                  |
| 4987.00    | 39.480             | 78.270         | 4822.68     | 402.60            | 234.07        | 885.56       | 1737839.75           | 14462715.69           | 39°49'25.2238"N | 80°39'10.8538"W | 915.97               | 75.194             | 3.35             | 3.24                    | -1.35                  |
| 5082.00    | 40.510             | 77.370         | 4895.46     | 431.91            | 246.96        | 945.24       | 1737899.41           | 14462728.57           | 39°49'25.3488"N | 80°39'10.0883"W | 976.96               | 75.358             | 1.24             | 1.08                    | -0.95                  |
| 5177.00    | 40.890             | 77.430         | 4967.49     | 461.26            | 260.47        | 1005.69      | 1737959.84           | 14462742.08           | 39°49'25.4800"N | 80°39'9.3127"W  | 1038.88              | 75.480             | 0.40             | 0.40                    | 0.06                   |
| 5272.00    | 40.850             | 77.500         | 5039.32     | 490.78            | 273.96        | 1066.37      | 1738020.50           | 14462755.57           | 39°49'25.6111"N | 80°39'8.5343"W  | 1101.00              | 75.592             | 0.06             | -0.04                   | 0.07                   |
| 5367.00    | 39.180             | 78.610         | 5112.08     | 520.32            | 286.62        | 1126.13      | 1738080.23           | 14462768.21           | 39°49'25.7338"N | 80°39'7.7678"W  | 1162.03              | 75.721             | 1.91             | -1.76                   | 1.17                   |
| 5462.00    | 38.420             | 78.710         | 5186.12     | 549.67            | 298.32        | 1184.49      | 1738138.57           | 14462779.91           | 39°49'25.8472"N | 80°39'7.0192"W  | 1221.48              | 75.864             | 0.80             | -0.80                   | 0.11                   |
| 5565.00    | 37.220             | 78.450         | 5267.48     | 580.73            | 310.82        | 1246.40      | 1738200.45           | 14462792.41           | 39°49'25.9684"N | 80°39'6.2252"W  | 1284.57              | 75.997             | 1.18             | -1.17                   | -0.25                  |

RECEIVED  
Office of Oil and Gas  
AUG 2 2024  
WV Department of  
Environmental Protection



# Actual Wellpath Report

Willett S-6HM AWB Proj:20534'

Page 4 of 11



## REFERENCE WELLPATH IDENTIFICATION

|          |                               |          |                   |
|----------|-------------------------------|----------|-------------------|
| Operator | EQT (TUG HILL OPERATING, LLC) | Well     | Willett S-6HM     |
| Field    | Marshall                      | API      | 47-051-02418-0000 |
| Facility | Willett                       | Wellbore | Willett S-6HM AWB |
| Slot     | Slot 06                       |          |                   |

## WELLPATH DATA (216 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] |
|------------|--------------------|----------------|-------------|-------------------|---------------|--------------|----------------------|-----------------------|-----------------|-----------------|----------------------|--------------------|------------------|-------------------------|------------------------|
| 5659.00    | 39.260             | 78.720         | 5341.31     | 609.35            | 322.34        | 1303.43      | 1738257.46           | 14462803.92           | 39°49'26.0800"N | 80°39'5.4937"W  | 1342.69              | 76.110             | 2.18             | 2.17                    | 0.29                   |
| 5753.00    | 39.480             | 78.760         | 5413.97     | 638.82            | 333.98        | 1361.91      | 1738315.92           | 14462815.56           | 39°49'26.1928"N | 80°39'4.7436"W  | 1402.26              | 76.221             | 0.24             | 0.23                    | 0.04                   |
| 5848.00    | 39.410             | 78.650         | 5487.34     | 668.62            | 345.80        | 1421.10      | 1738375.08           | 14462827.38           | 39°49'26.3073"N | 80°39'3.9844"W  | 1462.56              | 76.324             | 0.10             | -0.07                   | -0.12                  |
| 5942.00    | 39.460             | 78.730         | 5559.94     | 698.09            | 357.51        | 1479.65      | 1738433.61           | 14462839.08           | 39°49'26.4208"N | 80°39'3.2334"W  | 1522.22              | 76.417             | 0.08             | 0.05                    | 0.09                   |
| 6037.00    | 38.970             | 78.560         | 5633.54     | 727.69            | 369.34        | 1538.53      | 1738492.47           | 14462850.90           | 39°49'26.5354"N | 80°39'2.4781"W  | 1582.24              | 76.501             | 0.53             | -0.52                   | -0.18                  |
| 6131.00    | 38.860             | 78.500         | 5706.68     | 756.68            | 381.08        | 1596.40      | 1738550.32           | 14462862.64           | 39°49'26.6492"N | 80°39'1.7358"W  | 1641.25              | 76.574             | 0.12             | -0.12                   | -0.06                  |
| 6225.00    | 38.480             | 78.560         | 5780.07     | 785.52            | 392.76        | 1653.96      | 1738607.85           | 14462874.31           | 39°49'26.7624"N | 80°39'0.9975"W  | 1699.96              | 76.642             | 0.41             | -0.40                   | 0.06                   |
| 6320.00    | 39.750             | 78.820         | 5853.78     | 815.10            | 404.51        | 1712.73      | 1738666.60           | 14462886.06           | 39°49'26.8763"N | 80°39'0.2437"W  | 1759.85              | 76.712             | 1.35             | 1.34                    | 0.27                   |
| 6415.00    | 40.490             | 78.790         | 5926.42     | 845.42            | 416.39        | 1772.78      | 1738726.63           | 14462897.94           | 39°49'26.9914"N | 80°38'59.4734"W | 1821.03              | 76.782             | 0.78             | 0.78                    | -0.03                  |
| 6510.00    | 40.000             | 78.810         | 5998.94     | 875.81            | 428.32        | 1832.99      | 1738786.81           | 14462909.86           | 39°49'27.1069"N | 80°38'58.7012"W | 1882.37              | 76.848             | 0.52             | -0.52                   | 0.02                   |
| 6605.00    | 40.450             | 78.900         | 6071.47     | 906.24            | 440.17        | 1893.18      | 1738846.98           | 14462921.71           | 39°49'27.2217"N | 80°38'57.9291"W | 1943.68              | 76.911             | 0.48             | 0.47                    | 0.09                   |
| 6700.00    | 40.380             | 78.910         | 6143.80     | 936.83            | 452.03        | 1953.62      | 1738907.40           | 14462933.56           | 39°49'27.3365"N | 80°38'57.1539"W | 2005.23              | 76.972             | 0.07             | -0.07                   | 0.01                   |
| 6794.00    | 40.240             | 79.010         | 6215.48     | 967.09            | 463.67        | 2013.31      | 1738967.06           | 14462945.20           | 39°49'27.4493"N | 80°38'56.3883"W | 2066.01              | 77.031             | 0.16             | -0.15                   | 0.11                   |
| 6889.00    | 40.570             | 78.820         | 6287.82     | 997.69            | 475.51        | 2073.73      | 1739027.46           | 14462957.03           | 39°49'27.5640"N | 80°38'55.6132"W | 2127.55              | 77.085             | 0.37             | 0.35                    | -0.20                  |
| 6985.00    | 40.630             | 78.720         | 6360.71     | 1028.59           | 487.68        | 2135.01      | 1739088.72           | 14462969.20           | 39°49'27.6818"N | 80°38'54.8272"W | 2190.00              | 77.133             | 0.09             | 0.06                    | -0.10                  |
| 7079.00    | 40.600             | 78.860         | 6432.07     | 1058.88           | 499.57        | 2195.04      | 1739148.72           | 14462981.09           | 39°49'27.7970"N | 80°38'54.0573"W | 2251.17              | 77.178             | 0.10             | -0.03                   | 0.15                   |
| 7174.00    | 40.650             | 81.930         | 6504.18     | 1090.99           | 509.89        | 2256.01      | 1739209.67           | 14462991.40           | 39°49'27.8966"N | 80°38'53.2753"W | 2312.91              | 77.264             | 2.10             | 0.05                    | 3.23                   |
| 7268.00    | 43.550             | 90.390         | 6573.97     | 1128.98           | 513.97        | 2318.77      | 1739272.40           | 14462995.48           | 39°49'27.9345"N | 80°38'52.4707"W | 2375.05              | 77.502             | 6.77             | 3.09                    | 9.00                   |
| 7363.00    | 46.240             | 99.680         | 6641.34     | 1177.12           | 507.97        | 2385.40      | 1739339.01           | 14462989.48           | 39°49'27.8727"N | 80°38'51.6171"W | 2438.89              | 77.978             | 7.45             | 2.83                    | 9.78                   |
| 7458.00    | 51.580             | 108.580        | 6703.82     | 1235.78           | 490.31        | 2454.62      | 1739408.20           | 14462971.83           | 39°49'27.6954"N | 80°38'50.7307"W | 2503.11              | 78.704             | 9.02             | 5.62                    | 9.37                   |
| 7552.00    | 56.230             | 117.460        | 6759.26     | 1303.93           | 460.51        | 2524.32      | 1739477.87           | 14462942.04           | 39°49'27.3982"N | 80°38'49.8389"W | 2565.98              | 79.661             | 9.09             | 4.95                    | 9.45                   |
| 7647.00    | 60.070             | 125.690        | 6809.44     | 1380.79           | 418.22        | 2592.90      | 1739546.43           | 14462899.76           | 39°49'26.9776"N | 80°38'48.9621"W | 2626.42              | 80.837             | 8.39             | 4.04                    | 8.66                   |
| 7742.00    | 67.360             | 131.560        | 6851.51     | 1464.46           | 365.01        | 2659.28      | 1739612.78           | 14462846.58           | 39°49'26.4491"N | 80°38'48.1141"W | 2684.21              | 82.184             | 9.46             | 7.67                    | 6.18                   |
| 7835.00    | 72.400             | 134.600        | 6883.50     | 1551.26           | 305.37        | 2723.00      | 1739676.48           | 14462786.96           | 39°49'25.8572"N | 80°38'47.3003"W | 2740.07              | 83.601             | 6.23             | 5.42                    | 3.27                   |
| 7929.00    | 77.630             | 141.060        | 6907.82     | 1641.96           | 238.09        | 2783.86      | 1739737.31           | 14462719.70           | 39°49'25.1900"N | 80°38'46.5238"W | 2794.02              | 85.112             | 8.66             | 5.56                    | 6.87                   |
| 8024.00    | 82.510             | 145.750        | 6924.21     | 1735.22           | 162.99        | 2839.59      | 1739793.02           | 14462644.63           | 39°49'24.4456"N | 80°38'45.8133"W | 2844.26              | 86.715             | 7.07             | 5.14                    | 4.94                   |
| 8118.00    | 86.560             | 148.700        | 6933.16     | 1827.82           | 84.33         | 2890.22      | 1739843.63           | 14462566.01           | 39°49'23.6663"N | 80°38'45.1684"W | 2891.45              | 88.329             | 5.32             | 4.31                    | 3.14                   |
| 8212.00    | 86.310             | 148.770        | 6939.01     | 1920.32           | 4.14          | 2938.91      | 1739892.30           | 14462485.85           | 39°49'22.8719"N | 80°38'44.5484"W | 2938.92              | 89.919             | 0.28             | -0.27                   | 0.07                   |
| 8307.00    | 88.000             | 148.440        | 6943.72     | 2013.90           | -76.85        | 2988.34      | 1739941.71           | 14462404.89           | 39°49'22.0696"N | 80°38'43.9190"W | 2989.33              | 91.473             | 1.81             | 1.78                    | -0.35                  |
| 8402.00    | 88.710             | 148.570        | 6946.45     | 2107.59           | -157.82       | 3037.95      | 1739991.30           | 14462323.95           | 39°49'21.2674"N | 80°38'43.2873"W | 3042.04              | 92.974             | 0.76             | 0.75                    | 0.14                   |

RECEIVED  
Office of Oil and  
AUG 20  
WV Department  
Environmental Prot



# Actual Wellpath Report

Willett S-6HM AWB Proj:20534'

Page 5 of 11



| REFERENCE WELLPATH IDENTIFICATION |                               |          |                   |
|-----------------------------------|-------------------------------|----------|-------------------|
| Operator                          | EQT (TUG HILL OPERATING, LLC) | Well     | Willett S-6HM     |
| Field                             | Marshall                      | API      | 47-051-02418-0000 |
| Facility                          | Willett                       | Wellbore | Willett S-6HM AWB |
| Slot                              | Slot 06                       |          |                   |

| WELLPATH DATA (216 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] |
| 8496.00                      | 88.530          | 148.620     | 6948.71  | 2200.28        | -238.03    | 3086.92   | 1740040.25        | 14462243.77        | 39°49'20.4729"N | 80°38'42.6638"W | 3096.08           | 94.409          | 0.20          | -0.19                | 0.05                |
| 8591.00                      | 89.050          | 148.680     | 6950.72  | 2293.95        | -319.14    | 3136.33   | 1740089.64        | 14462162.69        | 39°49'19.6693"N | 80°38'42.0346"W | 3152.53           | 95.810          | 0.55          | 0.55                 | 0.06                |
| 8685.00                      | 88.710          | 148.120     | 6952.56  | 2386.70        | -399.19    | 3185.57   | 1740138.87        | 14462082.68        | 39°49'18.8763"N | 80°38'41.4076"W | 3210.49           | 97.143          | 0.70          | -0.36                | -0.60               |
| 8779.00                      | 88.650          | 148.330     | 6954.72  | 2479.49        | -479.08    | 3235.06   | 1740188.33        | 14462002.82        | 39°49'18.0849"N | 80°38'40.7774"W | 3270.34           | 98.424          | 0.23          | -0.06                | 0.22                |
| 8874.00                      | 88.900          | 148.890     | 6956.75  | 2573.17        | -560.15    | 3284.53   | 1740237.79        | 14461921.77        | 39°49'17.2817"N | 80°38'40.1475"W | 3331.95           | 99.678          | 0.65          | 0.26                 | 0.59                |
| 8968.00                      | 88.340          | 147.620     | 6959.02  | 2665.95        | -640.07    | 3333.97   | 1740287.21        | 14461841.89        | 39°49'16.4900"N | 80°38'39.5179"W | 3394.86           | 100.868         | 1.48          | -0.60                | -1.35               |
| 9062.00                      | 88.770          | 147.530     | 6961.39  | 2758.90        | -719.39    | 3384.36   | 1740337.57        | 14461762.60        | 39°49'15.7041"N | 80°38'38.8762"W | 3459.97           | 102.000         | 0.47          | 0.46                 | -0.10               |
| 9156.00                      | 88.680          | 148.350     | 6963.48  | 2851.76        | -799.03    | 3434.24   | 1740387.44        | 14461682.99        | 39°49'14.9151"N | 80°38'38.2410"W | 3525.97           | 103.098         | 0.88          | -0.10                | 0.87                |
| 9251.00                      | 88.800          | 148.740     | 6965.57  | 2945.46        | -880.05    | 3483.80   | 1740436.98        | 14461602.00        | 39°49'14.1125"N | 80°38'37.6099"W | 3593.24           | 104.177         | 0.43          | 0.13                 | 0.41                |
| 9343.00                      | 88.710          | 149.560     | 6967.57  | 3036.03        | -959.01    | 3530.97   | 1740484.13        | 14461523.07        | 39°49'13.3302"N | 80°38'37.0095"W | 3658.89           | 105.195         | 0.90          | -0.10                | 0.89                |
| 9436.00                      | 88.860          | 148.100     | 6969.54  | 3127.68        | -1038.57   | 3579.09   | 1740532.23        | 14461443.55        | 39°49'12.5422"N | 80°38'36.3968"W | 3726.73           | 106.181         | 1.58          | 0.16                 | -1.57               |
| 9530.00                      | 88.740          | 146.160     | 6971.51  | 3220.73        | -1117.50   | 3630.09   | 1740583.21        | 14461364.65        | 39°49'11.7601"N | 80°38'35.7472"W | 3798.21           | 107.111         | 2.07          | -0.13                | -2.06               |
| 9624.00                      | 88.890          | 150.050     | 6973.45  | 3313.54        | -1197.27   | 3679.74   | 1740632.84        | 14461284.90        | 39°49'10.9698"N | 80°38'35.1150"W | 3869.62           | 108.023         | 4.14          | 0.16                 | 4.14                |
| 9719.00                      | 88.620          | 148.850     | 6975.52  | 3406.98        | -1279.07   | 3728.02   | 1740681.10        | 14461203.15        | 39°49'10.1596"N | 80°38'34.5005"W | 3941.33           | 108.937         | 1.29          | -0.28                | -1.26               |
| 9814.00                      | 88.680          | 150.290     | 6977.75  | 3500.37        | -1360.95   | 3776.12   | 1740729.18        | 14461121.29        | 39°49'9.3484"N  | 80°38'33.8882"W | 4013.88           | 109.820         | 1.52          | 0.06                 | 1.52                |
| 9909.00                      | 89.110          | 150.630     | 6979.59  | 3593.50        | -1443.59   | 3822.95   | 1740775.99        | 14461038.69        | 39°49'8.5299"N  | 80°38'33.2923"W | 4086.42           | 110.687         | 0.58          | 0.45                 | 0.36                |
| 10002.00                     | 89.730          | 149.950     | 6980.53  | 3684.73        | -1524.36   | 3869.04   | 1740822.06        | 14460957.95        | 39°49'7.7299"N  | 80°38'32.7058"W | 4158.50           | 111.504         | 0.99          | 0.67                 | -0.73               |
| 10097.00                     | 89.820          | 150.710     | 6980.90  | 3777.92        | -1606.90   | 3916.06   | 1740869.07        | 14460875.44        | 39°49'6.9123"N  | 80°38'32.1073"W | 4232.93           | 112.310         | 0.81          | 0.09                 | 0.80                |
| 10192.00                     | 89.910          | 150.820     | 6981.12  | 3870.97        | -1689.80   | 3962.46   | 1740915.45        | 14460792.57        | 39°49'6.0912"N  | 80°38'31.5170"W | 4307.72           | 113.096         | 0.15          | 0.09                 | 0.12                |
| 10286.00                     | 90.920          | 150.580     | 6980.44  | 3963.05        | -1771.77   | 4008.46   | 1740961.43        | 14460710.63        | 39°49'5.2793"N  | 80°38'30.9317"W | 4382.57           | 113.846         | 1.10          | 1.07                 | -0.26               |
| 10382.00                     | 90.060          | 150.510     | 6979.62  | 4057.14        | -1855.36   | 4055.66   | 1741008.61        | 14460627.08        | 39°49'4.4514"N  | 80°38'30.3310"W | 4459.91           | 114.583         | 0.90          | -0.90                | -0.07               |
| 10477.00                     | 89.820          | 150.830     | 6979.72  | 4150.22        | -1938.18   | 4102.20   | 1741055.13        | 14460544.29        | 39°49'3.6310"N  | 80°38'29.7389"W | 4537.02           | 115.290         | 0.42          | -0.25                | 0.34                |
| 10572.00                     | 89.350          | 150.610     | 6980.41  | 4243.27        | -2021.04   | 4148.66   | 1741101.57        | 14460461.46        | 39°49'2.8103"N  | 80°38'29.1477"W | 4614.76           | 115.973         | 0.55          | -0.49                | -0.23               |
| 10666.00                     | 89.570          | 150.690     | 6981.30  | 4335.37        | -2102.97   | 4194.73   | 1741147.63        | 14460379.56        | 39°49'1.9988"N  | 80°38'28.5615"W | 4692.36           | 116.626         | 0.25          | 0.23                 | 0.09                |
| 10761.00                     | 86.860          | 150.690     | 6984.25  | 4428.39        | -2185.76   | 4241.21   | 1741194.09        | 14460296.80        | 39°49'1.1788"N  | 80°38'27.9701"W | 4771.31           | 117.265         | 2.85          | -2.85                | 0.00                |
| 10856.00                     | 87.010          | 150.880     | 6989.33  | 4521.29        | -2268.56   | 4287.51   | 1741240.37        | 14460214.04        | 39°49'0.3587"N  | 80°38'27.3810"W | 4850.68           | 117.884         | 0.25          | 0.16                 | 0.20                |
| 10951.00                     | 86.490          | 150.670     | 6994.72  | 4614.19        | -2351.33   | 4333.82   | 1741286.66        | 14460131.30        | 39°48'59.5389"N | 80°38'26.7918"W | 4930.59           | 118.482         | 0.59          | -0.55                | -0.22               |
| 11045.00                     | 86.550          | 150.710     | 7000.43  | 4706.11        | -2433.15   | 4379.75   | 1741332.58        | 14460049.51        | 39°48'58.7285"N | 80°38'26.2074"W | 5010.23           | 119.054         | 0.08          | 0.06                 | 0.04                |
| 11140.00                     | 88.310          | 150.870     | 7004.69  | 4799.04        | -2515.98   | 4426.06   | 1741378.87        | 14459966.71        | 39°48'57.9081"N | 80°38'25.6181"W | 5091.19           | 119.616         | 1.86          | 1.85                 | 0.17                |
| 11235.00                     | 89.510          | 150.400     | 7006.49  | 4892.11        | -2598.76   | 4472.64   | 1741425.43        | 14459883.97        | 39°48'57.0882"N | 80°38'25.0255"W | 5172.82           | 120.158         | 1.36          | 1.26                 | -0.49               |

Environmental Protection Department

AUG 2 2022

Office of Oil and Gas

RECEIVED



# Actual Wellpath Report

Willett S-6HM AWB Proj:20534'

Page 6 of 11



## REFERENCE WELLPATH IDENTIFICATION

|          |                               |          |                   |
|----------|-------------------------------|----------|-------------------|
| Operator | EQT (TUG HILL OPERATING, LLC) | Well     | Willett S-6HM     |
| Field    | Marshall                      | API      | 47-051-02418-0000 |
| Facility | Willett                       | Wellbore | Willett S-6HM AWB |
| Slot     | Slot 06                       |          |                   |

## WELLPATH DATA (216 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] |
|----------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|-----------------|-----------------|-------------------|-----------------|---------------|----------------------|---------------------|
| 11330.00 | 89.200          | 150.320     | 7007.56  | 4985.29        | -2681.32   | 4519.62   | 1741472.39        | 14459801.44        | 39°48'56.2703"N | 80°38'24.4277"W | 5255.13           | 120.679         | 0.34          | -0.33                | -0.08               |
| 11424.00 | 88.950          | 150.440     | 7009.08  | 5077.46        | -2763.03   | 4566.07   | 1741518.82        | 14459719.76        | 39°48'55.4610"N | 80°38'23.8366"W | 5336.98           | 121.179         | 0.30          | -0.27                | 0.13                |
| 11517.00 | 88.830          | 150.800     | 7010.88  | 5168.58        | -2844.05   | 4611.69   | 1741564.42        | 14459638.77        | 39°48'54.6585"N | 80°38'23.2562"W | 5418.14           | 121.662         | 0.41          | -0.13                | 0.39                |
| 11612.00 | 88.950          | 151.190     | 7012.72  | 5261.53        | -2927.12   | 4657.74   | 1741610.46        | 14459555.73        | 39°48'53.8357"N | 80°38'22.6703"W | 5501.15           | 122.147         | 0.43          | 0.13                 | 0.41                |
| 11707.00 | 88.950          | 150.220     | 7014.46  | 5354.58        | -3009.96   | 4704.22   | 1741656.92        | 14459472.93        | 39°48'53.0153"N | 80°38'22.0790"W | 5584.76           | 122.613         | 1.02          | 0.00                 | -1.02               |
| 11801.00 | 89.600          | 149.670     | 7015.65  | 5446.90        | -3091.31   | 4751.29   | 1741703.97        | 14459391.61        | 39°48'52.2094"N | 80°38'21.4800"W | 5668.42           | 123.049         | 0.91          | 0.69                 | -0.59               |
| 11895.00 | 89.540          | 149.440     | 7016.36  | 5539.34        | -3172.35   | 4798.92   | 1741751.58        | 14459310.60        | 39°48'51.4067"N | 80°38'20.8738"W | 5752.69           | 123.467         | 0.25          | -0.06                | -0.24               |
| 11990.00 | 89.510          | 149.690     | 7017.14  | 5632.76        | -3254.25   | 4847.04   | 1741799.69        | 14459228.73        | 39°48'50.5953"N | 80°38'20.2613"W | 5838.15           | 123.877         | 0.27          | -0.03                | 0.26                |
| 12084.00 | 89.540          | 150.000     | 7017.92  | 5725.12        | -3335.53   | 4894.26   | 1741846.89        | 14459147.48        | 39°48'49.7902"N | 80°38'19.6605"W | 5922.80           | 124.275         | 0.33          | 0.03                 | 0.33                |
| 12178.00 | 89.540          | 149.990     | 7018.68  | 5817.42        | -3416.93   | 4941.27   | 1741893.87        | 14459066.12        | 39°48'48.9839"N | 80°38'19.0623"W | 6007.62           | 124.664         | 0.01          | 0.00                 | -0.01               |
| 12272.00 | 89.820          | 149.890     | 7019.20  | 5909.75        | -3498.29   | 4988.35   | 1741940.94        | 14458984.79        | 39°48'48.1780"N | 80°38'18.4631"W | 6092.75           | 125.042         | 0.32          | 0.30                 | -0.11               |
| 12460.00 | 89.660          | 149.520     | 7020.06  | 6094.55        | -3660.61   | 5083.19   | 1742035.74        | 14458822.53        | 39°48'46.5700"N | 80°38'17.2563"W | 6264.09           | 125.759         | 0.21          | -0.09                | -0.20               |
| 12553.00 | 89.040          | 149.160     | 7021.11  | 6186.07        | -3740.60   | 5130.61   | 1742083.14        | 14458742.57        | 39°48'45.7776"N | 80°38'16.6527"W | 6349.43           | 126.095         | 0.77          | -0.67                | -0.39               |
| 12648.00 | 89.810          | 148.590     | 7022.07  | 6279.69        | -3821.92   | 5179.71   | 1742132.22        | 14458661.28        | 39°48'44.9720"N | 80°38'16.0277"W | 6437.12           | 126.422         | 1.01          | 0.81                 | -0.60               |
| 12743.00 | 89.290          | 149.090     | 7022.81  | 6373.32        | -3903.21   | 5228.87   | 1742181.36        | 14458580.02        | 39°48'44.1667"N | 80°38'15.4020"W | 6525.04           | 126.740         | 0.76          | -0.55                | 0.53                |
| 12837.00 | 88.890          | 149.610     | 7024.30  | 6465.82        | -3984.07   | 5276.78   | 1742229.25        | 14458499.20        | 39°48'43.3657"N | 80°38'14.7922"W | 6611.90           | 127.054         | 0.70          | -0.43                | 0.55                |
| 12932.00 | 89.850          | 149.390     | 7025.35  | 6559.25        | -4065.92   | 5324.99   | 1742277.45        | 14458417.38        | 39°48'42.5549"N | 80°38'14.1787"W | 6699.79           | 127.364         | 1.04          | 1.01                 | -0.23               |
| 13028.00 | 89.110          | 149.620     | 7026.22  | 6653.68        | -4148.64   | 5373.71   | 1742326.14        | 14458334.70        | 39°48'41.7355"N | 80°38'13.5587"W | 6788.81           | 127.669         | 0.81          | -0.77                | 0.24                |
| 13123.00 | 89.720          | 149.490     | 7027.19  | 6747.10        | -4230.53   | 5421.84   | 1742374.26        | 14458252.83        | 39°48'40.9242"N | 80°38'12.9462"W | 6877.05           | 127.964         | 0.66          | 0.64                 | -0.14               |
| 13217.00 | 88.950          | 149.860     | 7028.28  | 6839.50        | -4311.67   | 5469.30   | 1742421.70        | 14458171.73        | 39°48'40.1205"N | 80°38'12.3423"W | 6964.46           | 128.250         | 0.91          | -0.82                | 0.39                |
| 13312.00 | 88.670          | 149.080     | 7030.25  | 6932.94        | -4393.48   | 5517.55   | 1742469.93        | 14458089.95        | 39°48'39.3101"N | 80°38'11.7282"W | 7053.08           | 128.529         | 0.87          | -0.29                | -0.82               |
| 13407.00 | 89.750          | 148.300     | 7031.56  | 7026.60        | -4474.63   | 5566.91   | 1742519.27        | 14458008.83        | 39°48'38.5060"N | 80°38'11.0999"W | 7142.33           | 128.792         | 1.40          | 1.14                 | -0.82               |
| 13597.00 | 89.810          | 144.290     | 7032.29  | 7215.07        | -4632.66   | 5672.32   | 1742624.64        | 14457850.86        | 39°48'36.9401"N | 80°38'9.7574"W  | 7323.71           | 129.239         | 2.11          | 0.03                 | -2.11               |
| 13691.00 | 90.580          | 149.380     | 7031.97  | 7308.19        | -4711.32   | 5723.73   | 1742676.03        | 14457772.23        | 39°48'36.1607"N | 80°38'8.1028"W  | 7413.34           | 129.459         | 5.48          | 0.82                 | 5.41                |
| 13786.00 | 90.370          | 149.010     | 7031.19  | 7401.72        | -4792.91   | 5772.38   | 1742724.66        | 14457690.67        | 39°48'35.3523"N | 80°38'8.4836"W  | 7502.82           | 129.703         | 0.45          | -0.22                | -0.39               |
| 13880.00 | 89.870          | 150.000     | 7030.99  | 7494.18        | -4873.91   | 5820.08   | 1742772.34        | 14457609.71        | 39°48'34.5500"N | 80°38'7.8766"W  | 7591.33           | 129.944         | 1.18          | -0.53                | 1.05                |
| 13975.00 | 89.780          | 150.250     | 7031.28  | 7587.43        | -4956.29   | 5867.40   | 1742819.64        | 14457527.36        | 39°48'33.7340"N | 80°38'7.2746"W  | 7680.57           | 130.188         | 0.28          | -0.09                | 0.26                |
| 14070.00 | 89.600          | 150.570     | 7031.79  | 7680.59        | -5038.89   | 5914.31   | 1742866.53        | 14457444.79        | 39°48'32.9157"N | 80°38'6.6778"W  | 7769.78           | 130.430         | 0.39          | -0.19                | 0.34                |
| 14164.00 | 89.570          | 150.550     | 7032.47  | 7772.72        | -5120.75   | 5960.51   | 1742912.71        | 14457362.96        | 39°48'32.1049"N | 80°38'6.0901"W  | 7858.10           | 130.666         | 0.04          | -0.03                | -0.02               |
| 14258.00 | 89.570          | 150.700     | 7033.18  | 7864.83        | -5202.67   | 6006.62   | 1742958.80        | 14457281.08        | 39°48'31.2935"N | 80°38'5.5035"W  | 7946.52           | 130.898         | 0.16          | 0.00                 | 0.16                |

Environmental Protection  
Department of  
Oil and Gas  
2024



# Actual Wellpath Report

Willett S-6HM AWB Proj:20534'

Page 7 of 11



## REFERENCE WELLPATH IDENTIFICATION

|          |                               |          |                   |
|----------|-------------------------------|----------|-------------------|
| Operator | EQT (TUG HILL OPERATING, LLC) | Well     | Willett S-6HM     |
| Field    | Marshall                      | API      | 47-051-02418-0000 |
| Facility | Willett                       | Wellbore | Willett S-6HM AWB |
| Slot     | Slot 06                       |          |                   |

## WELLPATH DATA (216 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] |
|------------|--------------------|----------------|-------------|-------------------|---------------|--------------|----------------------|-----------------------|-----------------|-----------------|----------------------|--------------------|------------------|-------------------------|------------------------|
| 14353.00   | 89.660             | 150.580        | 7033.82     | 7957.92           | -5285.46      | 6053.19      | 1743005.36           | 14457198.32           | 39°48'30.4734"N | 80°38'4.9110"W  | 8036.00              | 131.126            | 0.16             | 0.09                    | -0.13                  |
| 14448.00   | 89.660             | 151.050        | 7034.38     | 8050.94           | -5368.40      | 6099.52      | 1743051.67           | 14457115.41           | 39°48'29.6519"N | 80°38'4.3218"W  | 8125.50              | 131.352            | 0.49             | 0.00                    | 0.49                   |
| 14543.00   | 89.690             | 151.100        | 7034.92     | 8143.88           | -5451.55      | 6145.46      | 1743097.60           | 14457032.30           | 39°48'28.8283"N | 80°38'3.7374"W  | 8214.99              | 131.576            | 0.06             | 0.03                    | 0.05                   |
| 14638.00   | 89.690             | 150.640        | 7035.43     | 8236.89           | -5534.53      | 6191.71      | 1743143.83           | 14456949.34           | 39°48'28.0064"N | 80°38'3.1491"W  | 8304.71              | 131.792            | 0.48             | 0.00                    | -0.48                  |
| 14732.00   | 90.060             | 150.680        | 7035.64     | 8328.99           | -5616.47      | 6237.77      | 1743189.87           | 14456867.43           | 39°48'27.1947"N | 80°38'2.5633"W  | 8393.72              | 132.000            | 0.40             | 0.39                    | 0.04                   |
| 14826.00   | 89.840             | 150.090        | 7035.72     | 8421.18           | -5698.19      | 6284.22      | 1743236.30           | 14456785.75           | 39°48'26.3852"N | 80°38'1.9723"W  | 8482.97              | 132.200            | 0.67             | -0.23                   | -0.63                  |
| 14920.00   | 89.970             | 150.470        | 7035.88     | 8513.40           | -5779.83      | 6330.82      | 1743282.88           | 14456704.14           | 39°48'25.5766"N | 80°38'1.3795"W  | 8572.38              | 132.395            | 0.43             | 0.14                    | 0.40                   |
| 15015.00   | 89.970             | 150.990        | 7035.93     | 8606.46           | -5862.70      | 6377.27      | 1743329.31           | 14456621.31           | 39°48'24.7557"N | 80°38'0.7887"W  | 8662.61              | 132.593            | 0.55             | 0.00                    | 0.55                   |
| 15109.00   | 90.370             | 150.370        | 7035.65     | 8698.55           | -5944.66      | 6423.30      | 1743375.32           | 14456539.38           | 39°48'23.9439"N | 80°38'0.2032"W  | 8752.01              | 132.784            | 0.78             | 0.43                    | -0.66                  |
| 15204.00   | 90.090             | 150.650        | 7035.27     | 8791.68           | -6027.35      | 6470.06      | 1743422.07           | 14456456.72           | 39°48'23.1248"N | 80°37'59.6083"W | 8842.55              | 132.971            | 0.42             | -0.29                   | 0.29                   |
| 15299.00   | 90.000             | 150.750        | 7035.19     | 8884.74           | -6110.19      | 6516.55      | 1743468.54           | 14456373.91           | 39°48'22.3042"N | 80°37'59.0169"W | 8933.08              | 133.157            | 0.14             | -0.09                   | 0.11                   |
| 15392.00   | 89.840             | 151.320        | 7035.32     | 8975.74           | -6191.56      | 6561.59      | 1743513.56           | 14456292.57           | 39°48'21.4983"N | 80°37'58.4441"W | 9021.64              | 133.338            | 0.64             | -0.17                   | 0.61                   |
| 15487.00   | 89.780             | 150.540        | 7035.64     | 9068.73           | -6274.59      | 6607.75      | 1743559.70           | 14456209.57           | 39°48'20.6758"N | 80°37'57.8570"W | 9112.24              | 133.519            | 0.82             | -0.06                   | -0.82                  |
| 15581.00   | 89.750             | 150.830        | 7036.02     | 9160.82           | -6356.55      | 6653.77      | 1743605.71           | 14456127.64           | 39°48'19.8640"N | 80°37'57.2717"W | 9202.09              | 133.691            | 0.31             | -0.03                   | 0.31                   |
| 15676.00   | 89.940             | 150.590        | 7036.28     | 9253.88           | -6439.41      | 6700.25      | 1743652.17           | 14456044.82           | 39°48'19.0433"N | 80°37'56.6805"W | 9292.97              | 133.863            | 0.32             | 0.20                    | -0.25                  |
| 15771.00   | 89.840             | 150.920        | 7036.46     | 9346.93           | -6522.30      | 6746.66      | 1743698.56           | 14455961.96           | 39°48'18.2222"N | 80°37'56.0902"W | 9383.91              | 134.031            | 0.36             | -0.11                   | 0.35                   |
| 15865.00   | 89.630             | 150.720        | 7036.90     | 9438.97           | -6604.37      | 6792.49      | 1743744.37           | 14455879.93           | 39°48'17.4093"N | 80°37'55.5073"W | 9473.94              | 134.195            | 0.31             | -0.22                   | -0.21                  |
| 15959.00   | 89.630             | 149.740        | 7037.50     | 9531.21           | -6685.96      | 6839.16      | 1743791.03           | 14455798.37           | 39°48'16.6011"N | 80°37'54.9136"W | 9564.32              | 134.351            | 1.04             | 0.00                    | -1.04                  |
| 16054.00   | 89.500             | 149.500        | 7038.23     | 9624.61           | -6767.91      | 6887.21      | 1743839.05           | 14455716.45           | 39°48'15.7892"N | 80°37'54.3023"W | 9656.00              | 134.499            | 0.29             | -0.14                   | -0.25                  |
| 16148.00   | 89.350             | 149.470        | 7039.17     | 9717.08           | -6848.89      | 6934.93      | 1743886.76           | 14455635.50           | 39°48'14.9870"N | 80°37'53.6951"W | 9746.82              | 134.642            | 0.16             | -0.16                   | -0.03                  |
| 16242.00   | 89.320             | 148.770        | 7040.26     | 9809.64           | -6929.56      | 6983.17      | 1743934.98           | 14455554.86           | 39°48'14.1878"N | 80°37'53.0812"W | 9837.86              | 134.779            | 0.75             | -0.03                   | -0.74                  |
| 16336.00   | 89.470             | 148.740        | 7041.25     | 9902.31           | -7009.92      | 7031.93      | 1743983.72           | 14455474.53           | 39°48'13.3917"N | 80°37'52.4608"W | 9929.10              | 134.910            | 0.16             | 0.16                    | -0.03                  |
| 16526.00   | 89.470             | 148.160        | 7043.01     | 10089.79          | -7171.83      | 7131.34      | 1744083.09           | 14455312.69           | 39°48'11.7876"N | 80°37'51.1956"W | 10113.91             | 135.162            | 0.31             | 0.00                    | -0.31                  |
| 16620.00   | 89.410             | 148.240        | 7043.93     | 10182.60          | -7251.71      | 7180.87      | 1744132.60           | 14455232.83           | 39°48'10.9961"N | 80°37'50.5651"W | 10205.50             | 135.281            | 0.11             | -0.06                   | 0.09                   |
| 16715.00   | 89.440             | 148.520        | 7044.88     | 10276.36          | -7332.61      | 7230.68      | 1744182.39           | 14455151.97           | 39°48'10.1946"N | 80°37'49.9313"W | 10298.05             | 135.401            | 0.30             | 0.03                    | 0.29                   |
| 16809.00   | 89.810             | 148.730        | 7045.50     | 10369.07          | -7412.86      | 7279.61      | 1744231.31           | 14455071.75           | 39°48'9.3995"N  | 80°37'49.3085"W | 10389.58             | 135.520            | 0.45             | 0.39                    | 0.22                   |
| 16904.00   | 89.910             | 149.090        | 7045.73     | 10462.69          | -7494.21      | 7328.67      | 1744280.34           | 14454990.43           | 39°48'8.5935"N  | 80°37'48.6843"W | 10482.02             | 135.640            | 0.39             | 0.11                    | 0.38                   |
| 16998.00   | 90.060             | 148.970        | 7045.75     | 10555.28          | -7574.81      | 7377.04      | 1744328.70           | 14454909.86           | 39°48'7.7950"N  | 80°37'48.0688"W | 10573.48             | 135.758            | 0.20             | 0.16                    | -0.13                  |
| 17093.00   | 90.120             | 148.460        | 7045.60     | 10648.95          | -7656.00      | 7426.38      | 1744378.01           | 14454828.71           | 39°48'6.9907"N  | 80°37'47.4410"W | 10666.08             | 135.872            | 0.54             | 0.06                    | -0.54                  |
| 17188.00   | 89.810             | 148.410        | 7045.66     | 10742.70          | -7736.94      | 7476.10      | 1744427.72           | 14454747.80           | 39°48'6.1887"N  | 80°37'46.8081"W | 10758.83             | 135.982            | 0.33             | -0.33                   | -0.05                  |

RECEIVED  
Office of Oil and Gas  
AUG 2 2022  
WV Department of Environmental Protection



# Actual Wellpath Report

Willett S-6HM AWB Proj:20534'

Page 8 of 11



## REFERENCE WELLPATH IDENTIFICATION

|          |                               |          |                   |
|----------|-------------------------------|----------|-------------------|
| Operator | EQT (TUG HILL OPERATING, LLC) | Well     | Willett S-6HM     |
| Field    | Marshall                      | API      | 47-051-02418-0000 |
| Facility | Willett                       | Wellbore | Willett S-6HM AWB |
| Slot     | Slot 06                       |          |                   |

## WELLPATH DATA (216 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] |
|----------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|-----------------|-----------------|-------------------|-----------------|---------------|----------------------|---------------------|
| 17282.00 | 89.840          | 148.650     | 7045.95  | 10835.44       | -7817.12   | 7525.18   | 1744476.77        | 14454667.65        | 39°48'5.3944"N  | 80°37'46.1836"W | 10850.60          | 136.090         | 0.26          | 0.03                 | 0.26                |
| 17377.00 | 90.060          | 148.840     | 7046.03  | 10929.10       | -7898.33   | 7574.47   | 1744526.04        | 14454586.47        | 39°48'4.5898"N  | 80°37'45.5564"W | 10943.31          | 136.199         | 0.31          | 0.23                 | 0.20                |
| 17472.00 | 89.750          | 148.340     | 7046.19  | 11022.80       | -7979.41   | 7623.98   | 1744575.53        | 14454505.43        | 39°48'3.7865"N  | 80°37'44.9264"W | 11036.12          | 136.305         | 0.62          | -0.33                | -0.53               |
| 17567.00 | 90.180          | 148.540     | 7046.25  | 11116.55       | -8060.35   | 7673.70   | 1744625.24        | 14454424.51        | 39°48'2.9845"N  | 80°37'44.2936"W | 11129.02          | 136.408         | 0.50          | 0.45                 | 0.21                |
| 17662.00 | 90.370          | 148.800     | 7045.79  | 11210.23       | -8141.50   | 7723.10   | 1744674.61        | 14454343.39        | 39°48'2.1805"N  | 80°37'43.6650"W | 11221.86          | 136.511         | 0.34          | 0.20                 | 0.27                |
| 17755.00 | 90.310          | 148.740     | 7045.24  | 11301.91       | -8221.02   | 7771.31   | 1744722.81        | 14454263.90        | 39°48'1.3927"N  | 80°37'43.0515"W | 11312.76          | 136.611         | 0.09          | -0.06                | -0.06               |
| 17850.00 | 90.370          | 149.660     | 7044.68  | 11395.44       | -8302.62   | 7819.96   | 1744771.44        | 14454182.34        | 39°48'0.5843"N  | 80°37'42.4326"W | 11405.49          | 136.715         | 0.97          | 0.06                 | 0.97                |
| 17945.00 | 90.400          | 149.570     | 7044.04  | 11488.85       | -8384.57   | 7868.01   | 1744819.47        | 14454100.42        | 39°47'59.7724"N | 80°37'41.8213"W | 11498.11          | 136.820         | 0.10          | 0.03                 | -0.09               |
| 18040.00 | 90.370          | 149.410     | 7043.40  | 11582.30       | -8466.42   | 7916.24   | 1744867.68        | 14454018.61        | 39°47'58.9616"N | 80°37'41.2078"W | 11590.82          | 136.923         | 0.17          | -0.03                | -0.17               |
| 18135.00 | 90.580          | 149.620     | 7042.61  | 11675.74       | -8548.28   | 7964.43   | 1744915.85        | 14453936.77        | 39°47'58.1506"N | 80°37'40.5947"W | 11683.55          | 137.025         | 0.31          | 0.22                 | 0.22                |
| 18229.00 | 89.840          | 149.530     | 7042.27  | 11768.17       | -8629.34   | 8012.03   | 1744963.43        | 14453855.75        | 39°47'57.3476"N | 80°37'39.9891"W | 11775.32          | 137.124         | 0.79          | -0.79                | -0.10               |
| 18324.00 | 89.900          | 149.420     | 7042.48  | 11861.63       | -8711.17   | 8060.28   | 1745011.67        | 14453773.95        | 39°47'56.5369"N | 80°37'39.3753"W | 11868.13          | 137.222         | 0.13          | 0.06                 | -0.12               |
| 18419.00 | 90.030          | 149.680     | 7042.54  | 11955.06       | -8793.07   | 8108.43   | 1745059.79        | 14453692.09        | 39°47'55.7256"N | 80°37'38.7628"W | 11960.96          | 137.320         | 0.31          | 0.14                 | 0.27                |
| 18513.00 | 90.680          | 149.390     | 7041.96  | 12047.51       | -8874.09   | 8156.08   | 1745107.43        | 14453611.10        | 39°47'54.9229"N | 80°37'38.1565"W | 12052.85          | 137.414         | 0.76          | 0.69                 | -0.31               |
| 18607.00 | 90.710          | 149.520     | 7040.82  | 12139.97       | -8955.04   | 8203.85   | 1745155.18        | 14453530.18        | 39°47'54.1210"N | 80°37'37.5488"W | 12144.79          | 137.507         | 0.14          | 0.03                 | 0.14                |
| 18701.00 | 89.600          | 149.620     | 7040.56  | 12232.41       | -9036.09   | 8251.46   | 1745202.77        | 14453449.16        | 39°47'53.3180"N | 80°37'36.9432"W | 12236.73          | 137.599         | 1.19          | -1.18                | 0.11                |
| 18795.00 | 89.380          | 149.650     | 7041.40  | 12324.83       | -9117.19   | 8298.98   | 1745250.27        | 14453368.09        | 39°47'52.5146"N | 80°37'36.3388"W | 12328.67          | 137.690         | 0.24          | -0.23                | 0.03                |
| 18890.00 | 89.230          | 149.810     | 7042.55  | 12418.20       | -9199.23   | 8346.86   | 1745298.13        | 14453286.08        | 39°47'51.7018"N | 80°37'35.7297"W | 12421.59          | 137.781         | 0.23          | -0.16                | 0.17                |
| 18985.00 | 88.610          | 149.760     | 7044.34  | 12511.54       | -9281.31   | 8394.66   | 1745345.92        | 14453204.03        | 39°47'50.8887"N | 80°37'35.1217"W | 12514.51          | 137.872         | 0.65          | -0.65                | -0.05               |
| 19079.00 | 88.550          | 149.420     | 7046.67  | 12603.95       | -9362.35   | 8442.23   | 1745393.46        | 14453123.02        | 39°47'50.0858"N | 80°37'34.5166"W | 12606.54          | 137.958         | 0.37          | -0.06                | -0.36               |
| 19173.00 | 88.670          | 149.890     | 7048.95  | 12696.34       | -9443.45   | 8489.70   | 1745440.92        | 14453041.96        | 39°47'49.2824"N | 80°37'33.9127"W | 12698.57          | 138.044         | 0.52          | 0.13                 | 0.50                |
| 19267.00 | 88.490          | 149.640     | 7051.28  | 12788.69       | -9524.64   | 8537.02   | 1745488.22        | 14452960.80        | 39°47'48.4781"N | 80°37'33.3108"W | 12790.60          | 138.130         | 0.33          | -0.19                | -0.27               |
| 19361.00 | 88.400          | 149.720     | 7053.83  | 12881.06       | -9605.75   | 8584.46   | 1745535.64        | 14452879.72        | 39°47'47.6746"N | 80°37'32.7074"W | 12882.68          | 138.214         | 0.13          | -0.10                | 0.09                |
| 19455.00 | 88.490          | 149.930     | 7056.38  | 12973.39       | -9686.98   | 8631.69   | 1745582.85        | 14452798.52        | 39°47'46.8698"N | 80°37'32.1067"W | 12974.73          | 138.297         | 0.24          | 0.10                 | 0.22                |
| 19549.00 | 88.580          | 149.690     | 7058.79  | 13065.73       | -9768.20   | 8678.94   | 1745630.09        | 14452717.33        | 39°47'46.0652"N | 80°37'31.5056"W | 13066.82          | 138.379         | 0.27          | 0.10                 | -0.26               |
| 19644.00 | 88.360          | 149.750     | 7061.32  | 13159.08       | -9850.21   | 8726.83   | 1745677.95        | 14452635.35        | 39°47'45.2527"N | 80°37'30.8966"W | 13159.95          | 138.461         | 0.24          | -0.23                | 0.06                |
| 19738.00 | 88.240          | 149.650     | 7064.11  | 13251.44       | -9931.34   | 8774.23   | 1745725.34        | 14452554.26        | 39°47'44.4491"N | 80°37'30.2936"W | 13252.12          | 138.540         | 0.17          | -0.13                | -0.11               |
| 19832.00 | 88.640          | 149.950     | 7066.67  | 13343.78       | -10012.55  | 8821.50   | 1745772.59        | 14452473.08        | 39°47'43.6445"N | 80°37'29.6924"W | 13344.29          | 138.619         | 0.53          | 0.43                 | 0.32                |
| 19926.00 | 88.610          | 149.490     | 7068.93  | 13436.14       | -10093.70  | 8868.88   | 1745819.95        | 14452391.96        | 39°47'42.8406"N | 80°37'29.0897"W | 13436.51          | 138.696         | 0.49          | -0.03                | -0.49               |
| 20020.00 | 88.800          | 149.940     | 7071.05  | 13528.52       | -10174.85  | 8916.27   | 1745867.32        | 14452310.84        | 39°47'42.0366"N | 80°37'28.4869"W | 13528.77          | 138.772         | 0.52          | 0.20                 | 0.48                |

RECEIVED  
Office of Oil and Gas  
Environmental Protection  
AUG 2 2024



# Actual Wellpath Report

Willett S-6HM AWB Proj:20534'

Page 9 of 11



## REFERENCE WELLPATH IDENTIFICATION

|          |                               |          |                   |
|----------|-------------------------------|----------|-------------------|
| Operator | EQT (TUG HILL OPERATING, LLC) | Well     | Willett S-6HM     |
| Field    | Marshall                      | API      | 47-051-02418-0000 |
| Facility | Willett                       | Wellbore | Willett S-6HM AWB |
| Slot     | Slot 06                       |          |                   |

## WELLPATH DATA (216 stations) † = interpolated, ‡ = extrapolated station

| MD<br>[ft] | Inclination<br>[°] | Azimuth<br>[°] | TVD<br>[ft] | Vert Sect<br>[ft] | North<br>[ft] | East<br>[ft] | Grid East<br>[US ft] | Grid North<br>[US ft] | Latitude        | Longitude       | Closure Dist<br>[ft] | Closure Dir<br>[°] | DLS<br>[°/100ft] | Build Rate<br>[°/100ft] | Turn Rate<br>[°/100ft] |
|------------|--------------------|----------------|-------------|-------------------|---------------|--------------|----------------------|-----------------------|-----------------|-----------------|----------------------|--------------------|------------------|-------------------------|------------------------|
| 20115.00   | 88.980             | 149.920        | 7072.89     | 13621.81          | -10257.05     | 8963.87      | 1745914.90           | 14452228.67           | 39°47'41.2223"N | 80°37'27.8816"W | 13621.97             | 138.849            | 0.19             | 0.19                    | -0.02                  |
| 20209.00   | 88.920             | 149.400        | 7074.62     | 13714.21          | -10338.16     | 9011.34      | 1745962.35           | 14452147.59           | 39°47'40.4188"N | 80°37'27.2778"W | 13714.29             | 138.923            | 0.56             | -0.06                   | -0.55                  |
| 20303.00   | 89.200             | 149.760        | 7076.16     | 13806.64          | -10419.21     | 9058.93      | 1746009.92           | 14452066.58           | 39°47'39.6158"N | 80°37'26.6725"W | 13806.67             | 138.995            | 0.49             | 0.30                    | 0.38                   |
| 20397.00   | 89.130             | 149.790        | 7077.53     | 13899.01          | -10500.42     | 9106.24      | 1746057.22           | 14451985.39           | 39°47'38.8113"N | 80°37'26.0707"W | 13899.01             | 139.067            | 0.08             | -0.07                   | 0.03                   |
| 20492.00   | 89.230             | 149.570        | 7078.89     | 13992.39          | -10582.42     | 9154.20      | 1746105.15           | 14451903.43           | 39°47'37.9989"N | 80°37'25.4608"W | 13992.39             | 139.139            | 0.25             | 0.11                    | -0.23                  |
| 20534.00†  | 89.230             | 149.570        | 7079.45     | 14033.69          | -10618.63     | 9175.47      | 1746126.42           | 14451867.23           | 39°47'37.6402"N | 80°37'25.1902"W | 14033.69             | 139.170            | 0.00             | 0.00                    | 0.00                   |

## HOLE & CASING SECTIONS - Ref Wellbore: Willett S-6HM AWB Ref Wellpath: Willett S-6HM AWB Proj:20534'

| String/Diameter             | Start MD<br>[ft] | End MD<br>[ft] | Interval<br>[ft] | Start TVD<br>[ft] | End TVD<br>[ft] | Start N/S<br>[ft] | Start E/W<br>[ft] | End N/S<br>[ft] | End E/W<br>[ft] |
|-----------------------------|------------------|----------------|------------------|-------------------|-----------------|-------------------|-------------------|-----------------|-----------------|
| 30in Conductor              | 32.50            | 153.00         | 120.50           | 32.50             | 153.00          | 0.00              | 0.00              | 0.25            | 0.08            |
| 17.5in Open Hole            | 153.00           | 1122.00        | 969.00           | 153.00            | 1121.97         | 0.25              | 0.08              | 4.71            | 3.04            |
| 13.375in Casing Surface     | 32.50            | 1122.00        | 1089.50          | 32.50             | 1121.97         | 0.00              | 0.00              | 4.71            | 3.04            |
| 12.25in Open Hole           | 1122.00          | 2932.00        | 1810.00          | 1121.97           | 2900.87         | 4.71              | 3.04              | 56.51           | 248.54          |
| 9.625in Casing Intermediate | 32.50            | 2932.00        | 2899.50          | 32.50             | 2900.87         | 0.00              | 0.00              | 56.51           | 248.54          |
| 8.75in Open Hole            | 2932.00          | 5530.00        | 2598.00          | 2900.87           | 5239.68         | 56.51             | 248.54            | 306.58          | 1225.56         |
| 8.5in Open Hole             | 5530.00          | 20534.00       | 15004.00         | 5239.68           | 7079.45         | 306.58            | 1225.56           | -10618.63       | 9175.47         |
| 5.5in Casing Production     | 32.50            | 20534.00       | 20501.50         | 32.50             | 7079.45         | 0.00              | 0.00              | -10618.63       | 9175.47         |

RECEIVED  
Office of Oil and Gas  
AUG 2 2024  
Environmental Protection  
Department of



# Actual Wellpath Report

Willett S-6HM AWB Proj:20534'

Page 10 of 11



## REFERENCE WELLPATH IDENTIFICATION

|          |                               |          |                   |
|----------|-------------------------------|----------|-------------------|
| Operator | EQT (TUG HILL OPERATING, LLC) | Well     | Willett S-6HM     |
| Field    | Marshall                      | API      | 47-051-02418-0000 |
| Facility | Willett                       | Wellbore | Willett S-6HM AWB |
| Slot     | Slot 06                       |          |                   |

## TARGETS

| Name                     | TVD<br>[ft] | North<br>[ft] | East<br>[ft] | Grid East<br>[US ft] | Grid North<br>[US ft] | Latitude        | Longitude       | Shape     |
|--------------------------|-------------|---------------|--------------|----------------------|-----------------------|-----------------|-----------------|-----------|
| Willett S-6 HM LP Rev-1  | 6929.00     | 73.98         | 2886.56      | 1739839.97           | 14462555.66           | 39°49'23.5641"N | 80°38'45.2158"W | point     |
| 606H                     | 7056.55     | -10836.14     | 9935.36      | 1746886.01           | 14451649.81           | 39°47'35.4590"N | 80°37'15.4670"W | rectangle |
| 2D Rectangle 2400 x 600. |             |               |              |                      |                       |                 |                 |           |
| 206H                     | 7062.20     | -10590.96     | 11477.13     | 1748427.18           | 14451894.89           | 39°47'37.8170"N | 80°36'55.7020"W | point     |
| 406H                     | 7094.89     | -10367.12     | 10465.24     | 1747415.68           | 14452118.65           | 39°47'40.0719"N | 80°37'8.6532"W  | point     |
| Willett S-6 HM BHL Rev-1 | 7145.40     | -10610.56     | 9185.26      | 1746136.20           | 14451875.31           | 39°47'37.7196"N | 80°37'25.0644"W | point     |

## WELLPATH COMPOSITION - Ref Wellbore: Willett S-6HM AWB Ref Wellpath: Willett S-6HM AWB Proj:20534'

| Start MD<br>[ft] | End MD<br>[ft] | Positional Uncertainty Model                          | Log Name/Comment                                             | Wellbore          | Survey Date |
|------------------|----------------|-------------------------------------------------------|--------------------------------------------------------------|-------------------|-------------|
| 32.50            | 2910.00        | Gyrodatta 2015 - CT+WIR+DPIPE                         | 03 Gyrodatta Cont Gyro <12-1/4">(100'-2910')                 | Willett S-6HM AWB | 9/27/2023   |
| 2910.00          | 5462.00        | OWSG MWD rev2 - Standard                              | 04 SDI MWD <8-3/4">(2910')(3005'-5462')                      | Willett S-6HM AWB | 9/27/2023   |
| 5462.00          | 20534.00       | OWSG MWD rev2 + IFR1 + Sag + Multi-Station Correction | 05 BH Lucida+SQC IFR1+SAG+FDIR <8-1/2">(5462')(5565'-20492') | Willett S-6HM AWB | 9/27/2023   |

RECEIVED  
Office of Oil and Gas  
AUG 2 2024  
WV Department of  
Environmental Protection



# Actual Wellpath Report

Willett S-6HM AWB Proj:20534'

Page 11 of 11



## REFERENCE WELLPATH IDENTIFICATION

|          |                               |          |                   |
|----------|-------------------------------|----------|-------------------|
| Operator | EQT (TUG HILL OPERATING, LLC) | Well     | Willett S-6HM     |
| Field    | Marshall                      | API      | 47-051-02418-0000 |
| Facility | Willett                       | Wellbore | Willett S-6HM AWB |
| Slot     | Slot 06                       |          |                   |

## COMMENTS

### Wellpath general comments

API: 47-051-02418-0000

BH Job #: 111947748

Rig: Nabors X14

Duration: 9/28/2023-10/1/2023

01\_Gyrodata Cont Gyro <12-1/4">(100'-2910')

02\_SDI MWD <8-3/4">(2910')(3005'-5462')

03\_BH Lucida+SQC IFR1+SAG+FDIR <8-1/2">(5462')(5565'-20492')

Landing Pt. @ 8118' MD

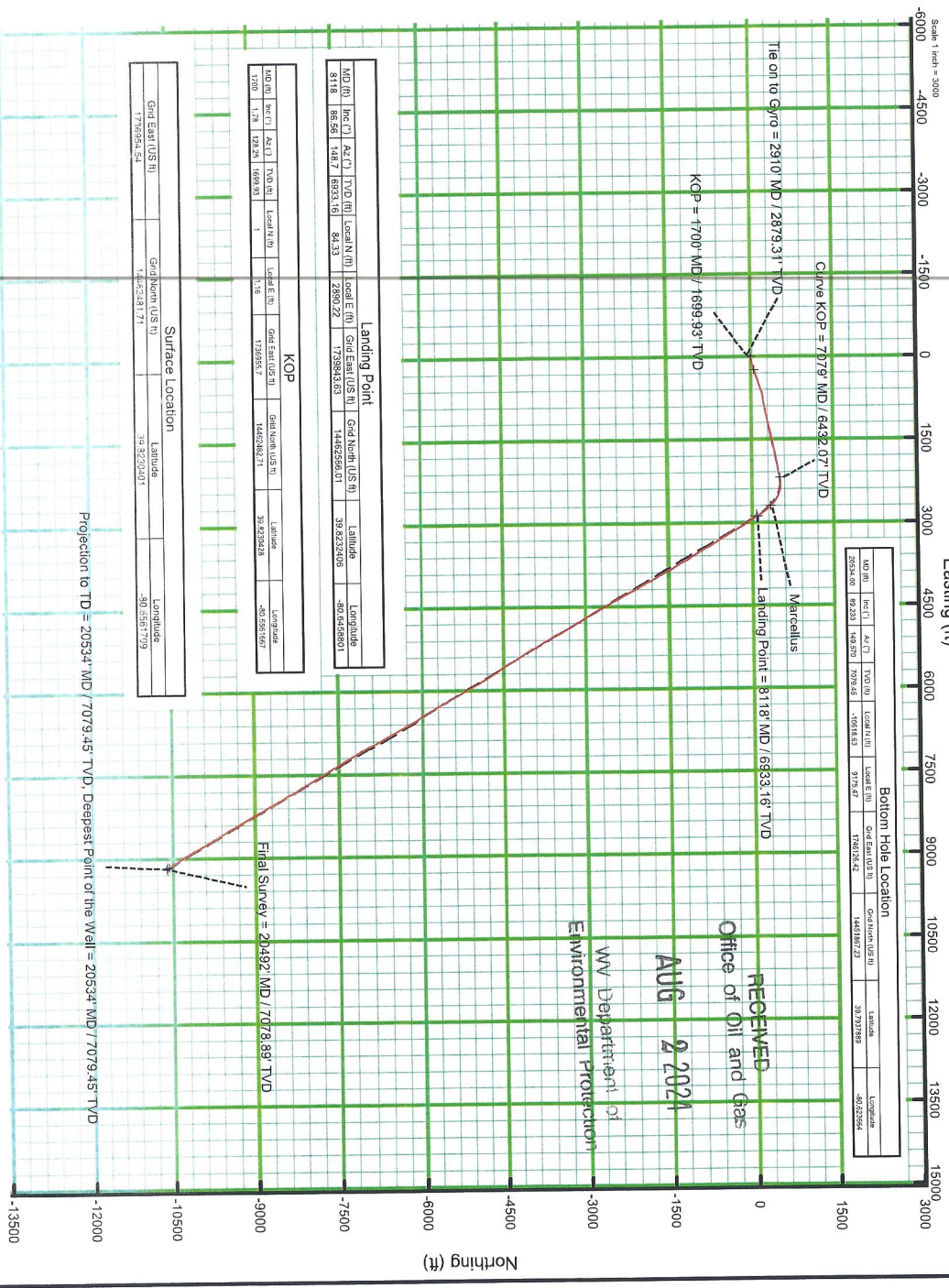
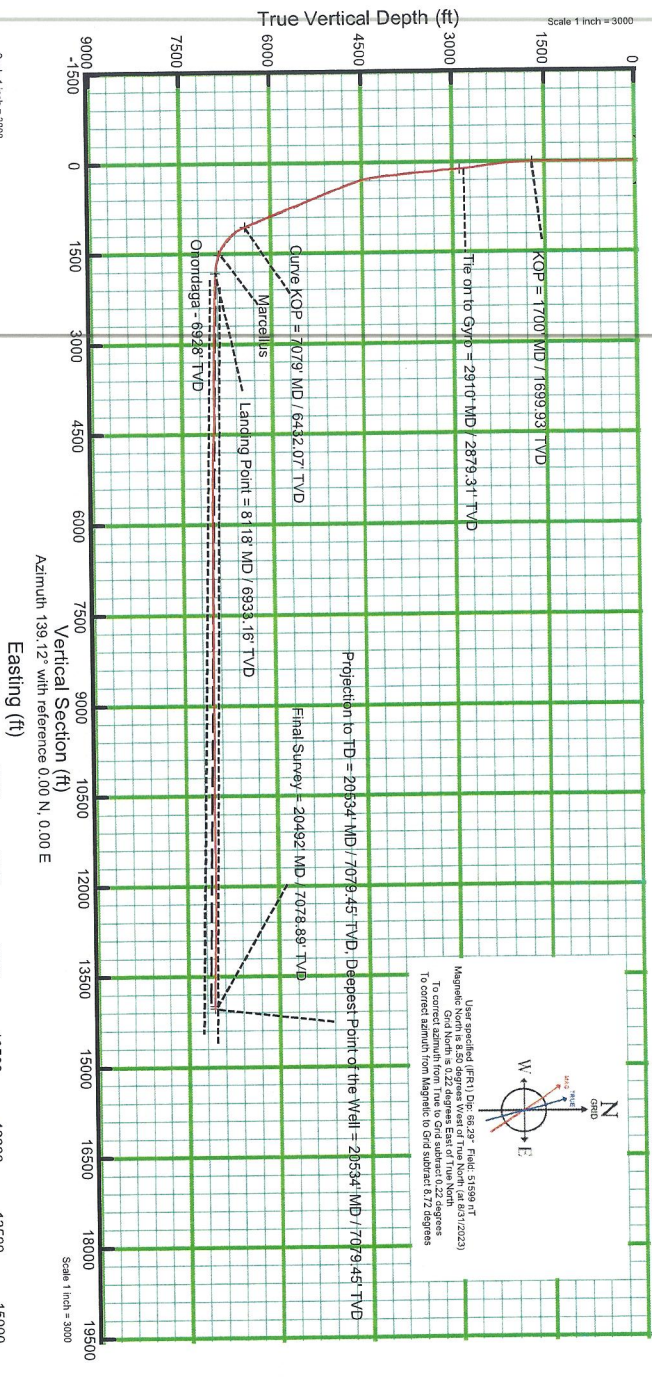
Final Survey @ 20492' MD

Projected MD at TD: 20534'

RECEIVED  
Office of Oil and Gas  
AUG 2 2024  
WV Department of  
Environmental Protection



KB Elevation=1342.50 FT  
Ground Elevation=1310 FT  
All Survey Measurements were taken from KB Elevation



| Landing Point |              |                   |             |
|---------------|--------------|-------------------|-------------|
| MD (ft)       | Inc (")      | AS (")            | TVD (ft)    |
| Local N (ft)  | Local E (ft) | Grid East (US ft) | Latitude    |
| 8118          | 86.56        | 148.7             | 8933.16     |
|               |              | 84.33             | 2360.22     |
|               |              | 1739843.83        | 14462556.01 |
|               |              |                   | 39.8232405  |
|               |              |                   | -80.6456901 |

| KOP          |              |                   |             |
|--------------|--------------|-------------------|-------------|
| MD (ft)      | Inc (")      | AS (")            | TVD (ft)    |
| Local N (ft) | Local E (ft) | Grid East (US ft) | Latitude    |
| 1700         | 17.8         | 102.5             | 1699.93     |
|              |              | 1.36              | 113956.5    |
|              |              | 1446268.21        | 39.8232405  |
|              |              |                   | -80.6456901 |

| Surface Location  |                    |            |             |
|-------------------|--------------------|------------|-------------|
| Grid East (US ft) | Grid North (US ft) | Latitude   | Longitude   |
| 1739843.84        | 14462556.11        | 39.8232405 | -80.6456901 |