

# Actual Wellpath Report

Statler 4H (AWP) Proj:15522'

Page 1 of 13



6101658

## REFERENCE WELLPATH IDENTIFICATION

|          |                               |          |                  |
|----------|-------------------------------|----------|------------------|
| Operator | NORTHEAST NATURAL ENERGY, LLC | Slot     | Slot #4          |
| Area     | Monongalia County, WV         | Well     | Statler 4H       |
| Field    | Monongalia                    | Wellbore | Statler 4H (AWB) |
| Facility | Statler                       |          |                  |

## REPORT SETUP INFORMATION

|                     |   |                      |                                  |
|---------------------|---|----------------------|----------------------------------|
| Projection System   | NAD83 / Lambert West Virginia SP, Northern Zone (4701), US feet | Software System      | WellArchitect® 4.0.1             |
| North Reference     | Grid  | User                 | Frisjesl                         |
| Scale               | 0.999942  | Report Generated     | 24/Oct/2013 at 13:21             |
| Convergence at slot | 0.43° West  | Database/Source file | WA_EasternUS/Statler_4H_AWB_.xml |

## WELLPATH LOCATION

|                       | Local coordinates |          | Grid coordinates |                 | Geographic coordinates |                |
|-----------------------|-------------------|----------|------------------|-----------------|------------------------|----------------|
|                       | North[ft]         | East[ft] | Easting[US ft]   | Northing[US ft] | Latitude               | Longitude      |
| Slot Location         | -45.09            | 21.70    | 1777707.41       | 440595.56       | 39°42'27.670"N         | 80°10'41.408"W |
| Facility Reference Pt |                   |          | 1777685.71       | 440640.65       | 39°42'28.114"N         | 80°10'41.690"W |
| Field Reference Pt    |                   |          | 600000.00        | 0.00            | 38°24'00.345"N         | 84°16'35.572"W |

## WELLPATH DATUM

|                          |                   |   |                   |
|--------------------------|-------------------|---|-------------------|
| Calculation method       | Minimum curvature | Pioneer 59 (RT) to Facility Vertical Datum    | 1080.00ft         |
| Horizontal Reference Pt  | Slot              | Pioneer 59 (RT) to Mean Sea Level             | 1080.00ft         |
| Vertical Reference Pt    | Pioneer 59 (RT)   | Pioneer 59 (RT) to Mud Line at Slot (Slot #4) | 1080.00ft         |
| MD Reference Pt          | Pioneer 59 (RT)   | Section Origin                                | N 0.00, E 0.00 ft |
| Field Vertical Reference | Mean Sea Level    | Section Azimuth                               | 137.82°           |

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DEC 10 2014

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Page 2 of 13



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| Area     | Monongalia County, WV         | Well     | Statler 4H       |
| Field    | Monongalia                    | Wellbore | Statler 4H (AWB) |
| Facility | Statler                       |          |                  |

## WELLPATH DATA (299 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] |
|---------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|----------------|----------------|-------------------|-----------------|---------------|
| 0.00†   | 0.000           | 146.100     | 0.00     | 0.00           | 0.00       | 0.00      | 1777707.41        | 440595.56          | 39°42'27.670"N | 80°10'41.408"W | 0.00              | 0.000           | 0.00          |
| 19.00   | 0.000           | 146.100     | 19.00    | 0.00           | 0.00       | 0.00      | 1777707.41        | 440595.56          | 39°42'27.670"N | 80°10'41.408"W | 0.00              | 0.000           | 0.00          |
| 1083.00 | 0.000           | 351.400     | 1083.00  | 0.00           | 0.00       | 0.00      | 1777707.41        | 440595.56          | 39°42'27.670"N | 80°10'41.408"W | 0.00              | 0.000           | 0.00          |
| 1113.00 | 0.100           | 146.100     | 1113.00  | 0.03           | -0.02      | 0.01      | 1777707.42        | 440595.54          | 39°42'27.670"N | 80°10'41.408"W | 0.03              | 146.100         | 0.33          |
| 1145.00 | 0.200           | 166.500     | 1145.00  | 0.10           | -0.10      | 0.04      | 1777707.45        | 440595.46          | 39°42'27.669"N | 80°10'41.407"W | 0.11              | 156.464         | 0.35          |
| 1176.00 | 0.200           | 198.500     | 1176.00  | 0.18           | -0.20      | 0.04      | 1777707.44        | 440595.36          | 39°42'27.668"N | 80°10'41.407"W | 0.21              | 169.220         | 0.36          |
| 1208.00 | 0.100           | 222.100     | 1208.00  | 0.21           | -0.28      | 0.00      | 1777707.41        | 440595.29          | 39°42'27.667"N | 80°10'41.408"W | 0.28              | 179.538         | 0.36          |
| 1239.00 | 0.300           | 115.200     | 1239.00  | 0.28           | -0.33      | 0.06      | 1777707.46        | 440595.23          | 39°42'27.667"N | 80°10'41.407"W | 0.34              | 170.153         | 1.11          |
| 1271.00 | 0.200           | 194.900     | 1271.00  | 0.39           | -0.42      | 0.12      | 1777707.53        | 440595.14          | 39°42'27.666"N | 80°10'41.406"W | 0.44              | 164.223         | 1.03          |
| 1303.00 | 0.200           | 241.800     | 1303.00  | 0.41           | -0.50      | 0.06      | 1777707.46        | 440595.06          | 39°42'27.665"N | 80°10'41.407"W | 0.50              | 173.697         | 0.50          |
| 1334.00 | 0.200           | 197.900     | 1334.00  | 0.42           | -0.58      | -0.01     | 1777707.40        | 440594.98          | 39°42'27.664"N | 80°10'41.408"W | 0.58              | 180.884         | 0.48          |
| 1366.00 | 0.100           | 223.500     | 1366.00  | 0.45           | -0.65      | -0.05     | 1777707.36        | 440594.91          | 39°42'27.664"N | 80°10'41.409"W | 0.65              | 183.976         | 0.37          |
| 1397.00 | 0.100           | 225.100     | 1397.00  | 0.46           | -0.69      | -0.08     | 1777707.32        | 440594.87          | 39°42'27.663"N | 80°10'41.409"W | 0.70              | 186.861         | 0.01          |
| 1429.00 | 0.100           | 245.000     | 1429.00  | 0.45           | -0.72      | -0.13     | 1777707.28        | 440594.84          | 39°42'27.663"N | 80°10'41.410"W | 0.73              | 190.065         | 0.11          |
| 1461.00 | 0.200           | 269.300     | 1461.00  | 0.40           | -0.73      | -0.21     | 1777707.20        | 440594.83          | 39°42'27.663"N | 80°10'41.411"W | 0.76              | 195.905         | 0.36          |
| 1493.00 | 0.200           | 257.400     | 1493.00  | 0.34           | -0.75      | -0.32     | 1777707.09        | 440594.81          | 39°42'27.663"N | 80°10'41.412"W | 0.81              | 203.156         | 0.13          |
| 1524.00 | 0.400           | 271.800     | 1524.00  | 0.24           | -0.76      | -0.48     | 1777706.93        | 440594.81          | 39°42'27.662"N | 80°10'41.414"W | 0.90              | 212.451         | 0.68          |
| 1556.00 | 0.100           | 284.900     | 1556.00  | 0.14           | -0.75      | -0.62     | 1777706.79        | 440594.82          | 39°42'27.663"N | 80°10'41.416"W | 0.97              | 219.727         | 0.95          |
| 1587.00 | 0.100           | 265.400     | 1587.00  | 0.10           | -0.74      | -0.67     | 1777706.73        | 440594.82          | 39°42'27.663"N | 80°10'41.417"W | 1.00              | 222.243         | 0.11          |
| 1619.00 | 0.200           | 254.400     | 1619.00  | 0.06           | -0.76      | -0.75     | 1777706.65        | 440594.80          | 39°42'27.662"N | 80°10'41.418"W | 1.07              | 224.861         | 0.32          |
| 1650.00 | 0.200           | 255.200     | 1650.00  | 0.01           | -0.79      | -0.86     | 1777706.55        | 440594.78          | 39°42'27.662"N | 80°10'41.419"W | 1.16              | 227.521         | 0.01          |
| 1682.00 | 0.300           | 262.500     | 1682.00  | -0.07          | -0.81      | -1.00     | 1777706.41        | 440594.75          | 39°42'27.662"N | 80°10'41.421"W | 1.28              | 230.823         | 0.33          |
| 1714.00 | 0.100           | 258.200     | 1714.00  | -0.13          | -0.83      | -1.11     | 1777706.30        | 440594.73          | 39°42'27.662"N | 80°10'41.422"W | 1.38              | 233.181         | 0.63          |
| 1746.00 | 0.200           | 273.000     | 1746.00  | -0.18          | -0.83      | -1.19     | 1777706.22        | 440594.73          | 39°42'27.662"N | 80°10'41.423"W | 1.45              | 235.060         | 0.33          |
| 1777.00 | 0.100           | 280.900     | 1777.00  | -0.24          | -0.82      | -1.27     | 1777706.14        | 440594.74          | 39°42'27.662"N | 80°10'41.424"W | 1.51              | 237.055         | 0.33          |
| 1808.00 | 0.200           | 232.900     | 1808.00  | -0.27          | -0.85      | -1.34     | 1777706.07        | 440594.71          | 39°42'27.661"N | 80°10'41.425"W | 1.59              | 237.591         | 0.49          |
| 1840.00 | 0.200           | 244.500     | 1840.00  | -0.29          | -0.91      | -1.43     | 1777705.97        | 440594.65          | 39°42'27.661"N | 80°10'41.426"W | 1.70              | 237.663         | 0.13          |
| 1870.00 | 0.200           | 274.900     | 1870.00  | -0.34          | -0.93      | -1.53     | 1777705.87        | 440594.64          | 39°42'27.661"N | 80°10'41.428"W | 1.79              | 238.876         | 0.35          |
| 1902.00 | 0.100           | 231.300     | 1902.00  | -0.39          | -0.94      | -1.61     | 1777705.80        | 440594.62          | 39°42'27.661"N | 80°10'41.429"W | 1.86              | 239.772         | 0.45          |
| 1934.00 | 0.100           | 256.400     | 1934.00  | -0.40          | -0.96      | -1.66     | 1777705.75        | 440594.60          | 39°42'27.660"N | 80°10'41.429"W | 1.92              | 239.888         | 0.14          |

61-01658

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Page 3 of 13



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| Area     | Monongalia County, WV         | Well     | Statler 4H       |
| Field    | Monongalia                    | Wellbore | Statler 4H (AWB) |
| Facility | Statler                       |          |                  |

## WELLPATH DATA (299 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] |
|---------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|----------------|----------------|-------------------|-----------------|---------------|
| 1966.00 | 0.100           | 249.500     | 1966.00  | -0.42          | -0.98      | -1.71     | 1777705.69        | 440594.58          | 39°42'27.660"N | 80°10'41.430"W | 1.97              | 240.254         | 0.04          |
| 1997.00 | 0.000           | 193.000     | 1997.00  | -0.43          | -0.99      | -1.74     | 1777705.67        | 440594.57          | 39°42'27.660"N | 80°10'41.430"W | 2.00              | 240.378         | 0.32          |
| 2027.00 | 0.000           | 258.600     | 2027.00  | -0.43          | -0.99      | -1.74     | 1777705.67        | 440594.57          | 39°42'27.660"N | 80°10'41.430"W | 2.00              | 240.378         | 0.00          |
| 2059.00 | 0.100           | 286.900     | 2059.00  | -0.46          | -0.98      | -1.77     | 1777705.64        | 440594.58          | 39°42'27.660"N | 80°10'41.430"W | 2.02              | 240.953         | 0.31          |
| 2091.00 | 0.100           | 209.600     | 2091.00  | -0.47          | -1.00      | -1.81     | 1777705.60        | 440594.57          | 39°42'27.660"N | 80°10'41.431"W | 2.06              | 241.107         | 0.39          |
| 2122.00 | 0.100           | 209.600     | 2122.00  | -0.46          | -1.04      | -1.83     | 1777705.57        | 440594.52          | 39°42'27.660"N | 80°10'41.431"W | 2.11              | 240.339         | 0.00          |
| 2153.00 | 0.200           | 242.700     | 2153.00  | -0.46          | -1.09      | -1.89     | 1777705.51        | 440594.47          | 39°42'27.659"N | 80°10'41.432"W | 2.19              | 240.035         | 0.41          |
| 2309.00 | 0.200           | 225.300     | 2308.99  | -0.52          | -1.41      | -2.33     | 1777705.08        | 440594.15          | 39°42'27.656"N | 80°10'41.438"W | 2.72              | 238.844         | 0.04          |
| 2348.00 | 0.200           | 209.900     | 2347.99  | -0.50          | -1.52      | -2.41     | 1777704.99        | 440594.05          | 39°42'27.655"N | 80°10'41.439"W | 2.85              | 237.860         | 0.14          |
| 2380.00 | 0.200           | 216.700     | 2379.99  | -0.47          | -1.61      | -2.47     | 1777704.93        | 440593.95          | 39°42'27.654"N | 80°10'41.439"W | 2.95              | 236.960         | 0.07          |
| 2411.00 | 0.500           | 97.700      | 2410.99  | -0.35          | -1.67      | -2.37     | 1777705.03        | 440593.89          | 39°42'27.653"N | 80°10'41.438"W | 2.90              | 234.846         | 2.01          |
| 2443.00 | 1.900           | 88.900      | 2442.99  | 0.10           | -1.68      | -1.70     | 1777705.70        | 440593.88          | 39°42'27.653"N | 80°10'41.430"W | 2.39              | 225.408         | 4.40          |
| 2475.00 | 2.300           | 86.900      | 2474.96  | 0.85           | -1.63      | -0.53     | 1777706.88        | 440593.93          | 39°42'27.654"N | 80°10'41.415"W | 1.72              | 198.009         | 1.27          |
| 2506.00 | 2.200           | 75.300      | 2505.94  | 1.52           | -1.45      | 0.67      | 1777708.07        | 440594.11          | 39°42'27.656"N | 80°10'41.399"W | 1.59              | 155.328         | 1.50          |
| 2538.00 | 2.900           | 78.100      | 2537.91  | 2.21           | -1.13      | 2.05      | 1777709.46        | 440594.44          | 39°42'27.659"N | 80°10'41.382"W | 2.34              | 118.762         | 2.22          |
| 2599.00 | 4.100           | 70.700      | 2598.79  | 3.84           | -0.09      | 5.62      | 1777713.03        | 440595.48          | 39°42'27.670"N | 80°10'41.336"W | 5.62              | 90.889          | 2.10          |
| 2630.00 | 4.700           | 57.200      | 2629.70  | 4.48           | 0.97       | 7.73      | 1777715.14        | 440596.53          | 39°42'27.680"N | 80°10'41.309"W | 7.79              | 82.872          | 3.85          |
| 2662.00 | 5.500           | 52.900      | 2661.58  | 4.83           | 2.60       | 10.06     | 1777717.46        | 440598.16          | 39°42'27.696"N | 80°10'41.280"W | 10.39             | 75.495          | 2.77          |
| 2693.00 | 6.600           | 57.700      | 2692.40  | 5.26           | 4.45       | 12.75     | 1777720.15        | 440600.01          | 39°42'27.715"N | 80°10'41.245"W | 13.50             | 70.757          | 3.90          |
| 2724.00 | 7.700           | 63.600      | 2723.16  | 6.13           | 6.33       | 16.12     | 1777723.52        | 440601.89          | 39°42'27.734"N | 80°10'41.202"W | 17.31             | 68.568          | 4.26          |
| 2755.00 | 7.800           | 67.100      | 2753.88  | 7.39           | 8.07       | 19.91     | 1777727.32        | 440603.63          | 39°42'27.751"N | 80°10'41.154"W | 21.49             | 67.945          | 1.56          |
| 2786.00 | 7.600           | 57.200      | 2784.60  | 8.42           | 10.00      | 23.57     | 1777730.98        | 440605.56          | 39°42'27.771"N | 80°10'41.107"W | 25.61             | 67.020          | 4.32          |
| 2818.00 | 7.600           | 55.200      | 2816.32  | 9.04           | 12.35      | 27.09     | 1777734.50        | 440607.91          | 39°42'27.794"N | 80°10'41.063"W | 29.77             | 65.491          | 0.83          |
| 2849.00 | 7.400           | 52.900      | 2847.06  | 9.48           | 14.73      | 30.37     | 1777737.77        | 440610.29          | 39°42'27.818"N | 80°10'41.021"W | 33.75             | 64.131          | 1.16          |
| 2880.00 | 7.300           | 45.600      | 2877.80  | 9.58           | 17.31      | 33.37     | 1777740.77        | 440612.87          | 39°42'27.844"N | 80°10'40.983"W | 37.59             | 62.584          | 3.03          |
| 2912.00 | 7.200           | 39.800      | 2909.55  | 9.22           | 20.27      | 36.10     | 1777743.51        | 440615.83          | 39°42'27.873"N | 80°10'40.948"W | 41.40             | 60.687          | 2.31          |
| 2975.00 | 6.800           | 38.100      | 2972.08  | 8.04           | 26.24      | 40.93     | 1777748.33        | 440621.80          | 39°42'27.932"N | 80°10'40.887"W | 48.62             | 57.338          | 0.71          |
| 3007.00 | 6.700           | 38.900      | 3003.85  | 7.43           | 29.18      | 43.27     | 1777750.68        | 440624.74          | 39°42'27.962"N | 80°10'40.857"W | 52.19             | 56.005          | 0.43          |
| 3038.00 | 7.200           | 39.000      | 3034.63  | 6.85           | 32.10      | 45.63     | 1777753.03        | 440627.66          | 39°42'27.991"N | 80°10'40.827"W | 55.79             | 54.875          | 1.61          |
| 3068.00 | 6.300           | 40.100      | 3064.42  | 6.34           | 34.82      | 47.87     | 1777755.28        | 440630.38          | 39°42'28.018"N | 80°10'40.799"W | 59.20             | 53.971          | 3.03          |

6101658

DEC 10 2014

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Page 4 of 13



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| Operator                          | NORTHEAST NATURAL ENERGY, LLC | Slot     | Slot #4          |
| Area                              | Monongalia County, WV         | Well     | Statler 4H       |
| Field                             | Monongalia                    | Wellbore | Statler 4H (AWB) |
| Facility                          | Statler                       |          |                  |

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| 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] |
|---------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|----------------|----------------|-------------------|-----------------|---------------|
| 3099.00 | 6.300           | 39.400      | 3095.23  | 5.87           | 37.44      | 50.05     | 1777757.45        | 440633.00          | 39°42'28.044"N | 80°10'40.771"W | 62.50             | 53.205          | 0.25          |
| 3130.00 | 6.000           | 38.900      | 3126.05  | 5.36           | 40.01      | 52.15     | 1777759.55        | 440635.57          | 39°42'28.069"N | 80°10'40.745"W | 65.73             | 52.502          | 0.98          |
| 3162.00 | 5.800           | 37.000      | 3157.88  | 4.80           | 42.60      | 54.17     | 1777761.57        | 440638.16          | 39°42'28.095"N | 80°10'40.719"W | 68.92             | 51.816          | 0.87          |
| 3193.00 | 6.000           | 32.700      | 3188.72  | 4.09           | 45.22      | 55.99     | 1777763.39        | 440640.78          | 39°42'28.121"N | 80°10'40.696"W | 71.97             | 51.074          | 1.56          |
| 3224.00 | 6.200           | 31.800      | 3219.54  | 3.20           | 48.00      | 57.74     | 1777765.15        | 440643.56          | 39°42'28.149"N | 80°10'40.674"W | 75.09             | 50.263          | 0.72          |
| 3255.00 | 6.100           | 29.600      | 3250.37  | 2.22           | 50.86      | 59.44     | 1777766.84        | 440646.42          | 39°42'28.177"N | 80°10'40.652"W | 78.23             | 49.449          | 0.83          |
| 3287.00 | 5.700           | 28.500      | 3282.20  | 1.17           | 53.73      | 61.04     | 1777768.44        | 440649.29          | 39°42'28.206"N | 80°10'40.632"W | 81.32             | 48.642          | 1.30          |
| 3318.00 | 5.600           | 29.500      | 3313.05  | 0.18           | 56.40      | 62.52     | 1777769.92        | 440651.96          | 39°42'28.232"N | 80°10'40.614"W | 84.20             | 47.944          | 0.45          |
| 3350.00 | 5.700           | 29.000      | 3344.89  | -0.82          | 59.15      | 64.06     | 1777771.46        | 440654.71          | 39°42'28.259"N | 80°10'40.594"W | 87.19             | 47.280          | 0.35          |
| 3381.00 | 5.600           | 32.000      | 3375.74  | -1.73          | 61.78      | 65.61     | 1777773.01        | 440657.34          | 39°42'28.285"N | 80°10'40.575"W | 90.12             | 46.720          | 1.01          |
| 3413.00 | 5.500           | 31.600      | 3407.59  | -2.58          | 64.41      | 67.24     | 1777774.64        | 440659.97          | 39°42'28.312"N | 80°10'40.554"W | 93.11             | 46.229          | 0.34          |
| 3444.00 | 5.200           | 29.800      | 3438.45  | -3.43          | 66.90      | 68.71     | 1777776.11        | 440662.45          | 39°42'28.336"N | 80°10'40.535"W | 95.90             | 45.768          | 1.11          |
| 3476.00 | 4.900           | 31.800      | 3470.33  | -4.26          | 69.32      | 70.15     | 1777777.56        | 440664.87          | 39°42'28.360"N | 80°10'40.517"W | 98.62             | 45.344          | 1.09          |
| 3508.00 | 4.800           | 39.700      | 3502.22  | -4.83          | 71.51      | 71.73     | 1777779.13        | 440667.06          | 39°42'28.382"N | 80°10'40.497"W | 101.28            | 45.089          | 2.11          |
| 3540.00 | 5.100           | 42.200      | 3534.10  | -5.15          | 73.59      | 73.54     | 1777780.94        | 440669.15          | 39°42'28.403"N | 80°10'40.474"W | 104.04            | 44.980          | 1.15          |
| 3571.00 | 4.900           | 46.100      | 3564.98  | -5.33          | 75.53      | 75.42     | 1777782.82        | 440671.09          | 39°42'28.422"N | 80°10'40.450"W | 106.74            | 44.958          | 1.27          |
| 3601.00 | 4.000           | 55.100      | 3594.89  | -5.24          | 77.02      | 77.20     | 1777784.60        | 440672.57          | 39°42'28.437"N | 80°10'40.428"W | 109.05            | 45.068          | 3.79          |
| 3633.00 | 3.900           | 62.100      | 3626.81  | -4.83          | 78.16      | 79.08     | 1777786.48        | 440673.72          | 39°42'28.448"N | 80°10'40.404"W | 111.19            | 45.333          | 1.54          |
| 3665.00 | 3.400           | 63.200      | 3658.75  | -4.31          | 79.10      | 80.89     | 1777788.29        | 440674.66          | 39°42'28.458"N | 80°10'40.381"W | 113.14            | 45.639          | 1.58          |
| 3696.00 | 3.600           | 64.400      | 3689.69  | -3.78          | 79.94      | 82.58     | 1777789.99        | 440675.49          | 39°42'28.466"N | 80°10'40.359"W | 114.93            | 45.933          | 0.69          |
| 3728.00 | 3.500           | 59.900      | 3721.63  | -3.29          | 80.86      | 84.34     | 1777791.74        | 440676.42          | 39°42'28.475"N | 80°10'40.337"W | 116.84            | 46.205          | 0.92          |
| 3760.00 | 3.200           | 61.900      | 3753.57  | -2.87          | 81.77      | 85.97     | 1777793.37        | 440677.33          | 39°42'28.485"N | 80°10'40.316"W | 118.65            | 46.433          | 1.01          |
| 3791.00 | 2.300           | 67.200      | 3784.54  | -2.45          | 82.42      | 87.31     | 1777794.71        | 440677.98          | 39°42'28.491"N | 80°10'40.299"W | 120.06            | 46.649          | 3.01          |
| 3823.00 | 1.500           | 73.500      | 3816.52  | -2.06          | 82.79      | 88.30     | 1777795.70        | 440678.34          | 39°42'28.495"N | 80°10'40.286"W | 121.04            | 46.845          | 2.58          |
| 3854.00 | 1.100           | 97.500      | 3847.51  | -1.66          | 82.86      | 88.98     | 1777796.38        | 440678.42          | 39°42'28.496"N | 80°10'40.277"W | 121.59            | 47.039          | 2.15          |
| 3887.00 | 1.200           | 89.100      | 3880.50  | -1.19          | 82.83      | 89.64     | 1777797.04        | 440678.39          | 39°42'28.495"N | 80°10'40.269"W | 122.05            | 47.263          | 0.59          |
| 3918.00 | 1.300           | 93.900      | 3911.50  | -0.72          | 82.81      | 90.32     | 1777797.72        | 440678.37          | 39°42'28.495"N | 80°10'40.260"W | 122.53            | 47.483          | 0.47          |
| 3950.00 | 1.100           | 98.600      | 3943.49  | -0.22          | 82.74      | 90.98     | 1777798.38        | 440678.30          | 39°42'28.494"N | 80°10'40.252"W | 122.98            | 47.717          | 0.70          |
| 3982.00 | 1.200           | 99.200      | 3975.48  | 0.28           | 82.64      | 91.62     | 1777799.02        | 440678.20          | 39°42'28.494"N | 80°10'40.244"W | 123.38            | 47.950          | 0.31          |
| 4013.00 | 1.000           | 107.800     | 4006.48  | 0.77           | 82.50      | 92.20     | 1777799.60        | 440678.06          | 39°42'28.492"N | 80°10'40.236"W | 123.72            | 48.175          | 0.83          |

8591017

DEC 10 2014

# Actual Wellpath Report

Statler 4H (AWP) Proj:15522'

Page 5 of 13



## REFERENCE WELLPATH IDENTIFICATION

|          |                               |          |                  |
|----------|-------------------------------|----------|------------------|
| Operator | NORTHEAST NATURAL ENERGY, LLC | Slot     | Slot #4          |
| Area     | Monongalia County, WV         | Well     | Statler 4H       |
| Field    | Monongalia                    | Wellbore | Statler 4H (AWB) |
| Facility | Statler                       |          |                  |

## WELLPATH DATA (299 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] |
|---------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|----------------|----------------|-------------------|-----------------|---------------|
| 4043.00 | 1.100           | 110.300     | 4036.47  | 1.25           | 82.32      | 92.72     | 1777800.12        | 440677.88          | 39°42'28.490"N | 80°10'40.230"W | 123.99            | 48.397          | 0.37          |
| 4075.00 | 1.000           | 94.500      | 4068.47  | 1.72           | 82.20      | 93.28     | 1777800.68        | 440677.75          | 39°42'28.489"N | 80°10'40.222"W | 124.33            | 48.615          | 0.95          |
| 4107.00 | 1.000           | 93.100      | 4100.46  | 2.13           | 82.16      | 93.84     | 1777801.24        | 440677.72          | 39°42'28.489"N | 80°10'40.215"W | 124.72            | 48.797          | 0.08          |
| 4139.00 | 1.200           | 90.300      | 4132.46  | 2.55           | 82.14      | 94.45     | 1777801.85        | 440677.70          | 39°42'28.489"N | 80°10'40.207"W | 125.17            | 48.988          | 0.65          |
| 4171.00 | 0.800           | 82.000      | 4164.45  | 2.90           | 82.17      | 95.01     | 1777802.41        | 440677.73          | 39°42'28.489"N | 80°10'40.200"W | 125.61            | 49.144          | 1.33          |
| 4202.00 | 0.700           | 53.300      | 4195.45  | 3.04           | 82.31      | 95.38     | 1777802.78        | 440677.87          | 39°42'28.491"N | 80°10'40.196"W | 125.98            | 49.204          | 1.24          |
| 4265.00 | 0.500           | 82.500      | 4258.45  | 3.24           | 82.58      | 95.96     | 1777803.36        | 440678.14          | 39°42'28.493"N | 80°10'40.188"W | 126.60            | 49.285          | 0.57          |
| 4329.00 | 0.600           | 92.900      | 4322.44  | 3.63           | 82.60      | 96.57     | 1777803.97        | 440678.16          | 39°42'28.494"N | 80°10'40.180"W | 127.08            | 49.458          | 0.22          |
| 4392.00 | 0.100           | 115.100     | 4385.44  | 3.92           | 82.56      | 96.95     | 1777804.35        | 440678.12          | 39°42'28.493"N | 80°10'40.176"W | 127.34            | 49.582          | 0.81          |
| 4456.00 | 0.200           | 18.200      | 4449.44  | 3.91           | 82.64      | 97.03     | 1777804.43        | 440678.20          | 39°42'28.494"N | 80°10'40.174"W | 127.46            | 49.579          | 0.37          |
| 4519.00 | 0.400           | 342.600     | 4512.44  | 3.66           | 82.96      | 97.00     | 1777804.40        | 440678.51          | 39°42'28.497"N | 80°10'40.175"W | 127.64            | 49.463          | 0.42          |
| 4583.00 | 0.700           | 328.800     | 4576.44  | 3.07           | 83.50      | 96.73     | 1777804.13        | 440679.06          | 39°42'28.502"N | 80°10'40.178"W | 127.79            | 49.197          | 0.51          |
| 4646.00 | 1.300           | 315.400     | 4639.43  | 1.98           | 84.34      | 96.03     | 1777803.43        | 440679.90          | 39°42'28.511"N | 80°10'40.187"W | 127.81            | 48.708          | 1.02          |
| 4709.00 | 1.800           | 305.900     | 4702.41  | 0.30           | 85.43      | 94.73     | 1777802.13        | 440680.99          | 39°42'28.521"N | 80°10'40.204"W | 127.56            | 47.954          | 0.89          |
| 4777.00 | 2.000           | 301.000     | 4770.37  | -1.88          | 86.67      | 92.85     | 1777800.25        | 440682.23          | 39°42'28.533"N | 80°10'40.228"W | 127.01            | 46.971          | 0.38          |
| 4807.00 | 2.200           | 303.100     | 4800.35  | -2.94          | 87.25      | 91.91     | 1777799.31        | 440682.81          | 39°42'28.539"N | 80°10'40.240"W | 126.73            | 46.490          | 0.71          |
| 4839.00 | 2.300           | 306.400     | 4832.32  | -4.16          | 87.97      | 90.88     | 1777798.28        | 440683.53          | 39°42'28.546"N | 80°10'40.254"W | 126.48            | 45.933          | 0.51          |
| 4871.00 | 1.900           | 309.200     | 4864.30  | -5.32          | 88.69      | 89.96     | 1777797.36        | 440684.24          | 39°42'28.553"N | 80°10'40.266"W | 126.32            | 45.407          | 1.29          |
| 4901.00 | 1.800           | 311.300     | 4894.29  | -6.28          | 89.31      | 89.22     | 1777796.62        | 440684.87          | 39°42'28.559"N | 80°10'40.275"W | 126.24            | 44.969          | 0.40          |
| 4933.00 | 1.800           | 315.500     | 4926.27  | -7.28          | 90.00      | 88.49     | 1777795.89        | 440685.56          | 39°42'28.566"N | 80°10'40.285"W | 126.21            | 44.514          | 0.41          |
| 4997.00 | 1.500           | 326.000     | 4990.24  | -9.11          | 91.41      | 87.31     | 1777794.71        | 440686.97          | 39°42'28.580"N | 80°10'40.300"W | 126.41            | 43.686          | 0.66          |
| 5029.00 | 1.200           | 331.900     | 5022.23  | -9.85          | 92.06      | 86.92     | 1777794.32        | 440687.61          | 39°42'28.586"N | 80°10'40.305"W | 126.61            | 43.357          | 1.03          |
| 5060.00 | 1.000           | 342.900     | 5053.23  | -10.41         | 92.60      | 86.69     | 1777794.09        | 440688.16          | 39°42'28.592"N | 80°10'40.308"W | 126.85            | 43.111          | 0.94          |
| 5186.00 | 0.400           | 16.400      | 5179.22  | -11.64         | 94.07      | 86.49     | 1777793.89        | 440689.63          | 39°42'28.606"N | 80°10'40.310"W | 127.79            | 42.595          | 0.56          |
| 5218.00 | 0.600           | 13.000      | 5211.22  | -11.79         | 94.34      | 86.56     | 1777793.96        | 440689.90          | 39°42'28.609"N | 80°10'40.310"W | 128.04            | 42.536          | 0.63          |
| 5310.00 | 0.600           | 9.400       | 5303.21  | -12.37         | 95.29      | 86.75     | 1777794.15        | 440690.84          | 39°42'28.618"N | 80°10'40.307"W | 128.86            | 42.313          | 0.04          |
| 5374.00 | 0.500           | 354.400     | 5367.21  | -12.80         | 95.90      | 86.77     | 1777794.17        | 440691.45          | 39°42'28.624"N | 80°10'40.307"W | 129.33            | 42.141          | 0.27          |
| 5498.00 | 0.500           | 344.500     | 5491.21  | -13.72         | 96.96      | 86.58     | 1777793.98        | 440692.51          | 39°42'28.635"N | 80°10'40.310"W | 129.98            | 41.763          | 0.07          |
| 5592.00 | 0.700           | 340.400     | 5585.20  | -14.61         | 97.89      | 86.27     | 1777793.67        | 440693.45          | 39°42'28.644"N | 80°10'40.314"W | 130.48            | 41.390          | 0.22          |
| 5622.00 | 0.800           | 337.300     | 5615.20  | -14.98         | 98.26      | 86.13     | 1777793.53        | 440693.81          | 39°42'28.647"N | 80°10'40.315"W | 130.66            | 41.237          | 0.36          |

61-01658

DEC 10 2014

# Actual Wellpath Report

Statler 4H (AWP) Proj:15522'

Page 6 of 13



61-01658

## REFERENCE WELLPATH IDENTIFICATION

|          |                               |          |                  |
|----------|-------------------------------|----------|------------------|
| Operator | NORTHEAST NATURAL ENERGY, LLC | Slot     | Slot #4          |
| Area     | Monongalia County, WV         | Well     | Statler 4H       |
| Field    | Monongalia                    | Wellbore | Statler 4H (AWB) |
| Facility | Statler                       |          |                  |

## WELLPATH DATA (299 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] |
|---------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|----------------|----------------|-------------------|-----------------|---------------|
| 5687.00 | 1.000           | 337.300     | 5680.19  | -15.94         | 99.20      | 85.74     | 1777793.14        | 440694.76          | 39°42'28.657"N | 80°10'40.321"W | 131.12            | 40.836          | 0.31          |
| 5750.00 | 1.000           | 323.300     | 5743.18  | -17.01         | 100.15     | 85.20     | 1777792.60        | 440695.70          | 39°42'28.666"N | 80°10'40.328"W | 131.48            | 40.388          | 0.39          |
| 6106.00 | 3.120           | 312.180     | 6098.93  | -29.74         | 109.15     | 76.16     | 1777783.56        | 440704.70          | 39°42'28.754"N | 80°10'40.444"W | 133.09            | 34.907          | 0.60          |
| 6137.00 | 6.140           | 297.800     | 6129.83  | -32.14         | 110.49     | 74.07     | 1777781.47        | 440706.04          | 39°42'28.767"N | 80°10'40.471"W | 133.01            | 33.837          | 10.36         |
| 6169.00 | 9.010           | 291.090     | 6161.55  | -35.99         | 112.19     | 70.21     | 1777777.62        | 440707.74          | 39°42'28.784"N | 80°10'40.520"W | 132.35            | 32.042          | 9.37          |
| 6200.00 | 11.310          | 283.330     | 6192.06  | -40.66         | 113.76     | 64.99     | 1777772.39        | 440709.32          | 39°42'28.799"N | 80°10'40.587"W | 131.02            | 29.739          | 8.62          |
| 6231.00 | 13.340          | 274.880     | 6222.34  | -45.79         | 114.77     | 58.47     | 1777765.87        | 440710.32          | 39°42'28.809"N | 80°10'40.671"W | 128.80            | 26.997          | 8.74          |
| 6262.00 | 15.650          | 271.250     | 6252.36  | -51.28         | 115.16     | 50.72     | 1777758.13        | 440710.72          | 39°42'28.812"N | 80°10'40.770"W | 125.84            | 23.772          | 8.00          |
| 6294.00 | 17.220          | 269.350     | 6283.05  | -57.39         | 115.20     | 41.67     | 1777749.08        | 440710.76          | 39°42'28.812"N | 80°10'40.886"W | 122.51            | 19.887          | 5.19          |
| 6357.00 | 18.600          | 269.590     | 6342.99  | -70.26         | 115.02     | 22.30     | 1777729.70        | 440710.58          | 39°42'28.808"N | 80°10'41.134"W | 117.17            | 10.972          | 2.19          |
| 6420.00 | 17.930          | 270.730     | 6402.82  | -83.56         | 115.08     | 2.56      | 1777709.96        | 440710.63          | 39°42'28.807"N | 80°10'41.386"W | 115.10            | 1.272           | 1.21          |
| 6483.00 | 17.680          | 270.670     | 6462.80  | -96.67         | 115.31     | -16.71    | 1777690.70        | 440710.87          | 39°42'28.808"N | 80°10'41.633"W | 116.51            | 351.756         | 0.40          |
| 6546.00 | 18.160          | 270.250     | 6522.75  | -109.80        | 115.47     | -36.09    | 1777671.32        | 440711.02          | 39°42'28.808"N | 80°10'41.881"W | 120.97            | 342.642         | 0.79          |
| 6608.00 | 19.130          | 271.540     | 6581.49  | -123.34        | 115.78     | -55.91    | 1777651.50        | 440711.34          | 39°42'28.810"N | 80°10'42.135"W | 128.57            | 334.225         | 1.70          |
| 6671.00 | 19.540          | 273.430     | 6640.94  | -138.00        | 116.69     | -76.74    | 1777630.67        | 440712.24          | 39°42'28.817"N | 80°10'42.401"W | 139.66            | 326.667         | 1.19          |
| 6735.00 | 18.770          | 274.690     | 6701.40  | -153.16        | 118.17     | -97.69    | 1777609.72        | 440713.73          | 39°42'28.831"N | 80°10'42.669"W | 153.32            | 320.420         | 1.37          |
| 6798.00 | 18.450          | 272.250     | 6761.10  | -167.54        | 119.39     | -117.75   | 1777589.66        | 440714.95          | 39°42'28.841"N | 80°10'42.926"W | 167.69            | 315.395         | 1.34          |
| 6862.00 | 17.990          | 272.230     | 6821.89  | -181.55        | 120.17     | -137.75   | 1777569.66        | 440715.73          | 39°42'28.847"N | 80°10'43.182"W | 182.80            | 311.101         | 0.72          |
| 6925.00 | 18.590          | 273.870     | 6881.71  | -195.58        | 121.23     | -157.49   | 1777549.92        | 440716.78          | 39°42'28.856"N | 80°10'43.435"W | 198.75            | 307.587         | 1.25          |
| 6988.00 | 19.230          | 274.830     | 6941.31  | -210.40        | 122.78     | -177.85   | 1777529.57        | 440718.34          | 39°42'28.870"N | 80°10'43.695"W | 216.11            | 304.620         | 1.13          |
| 7019.00 | 19.310          | 275.950     | 6970.57  | -217.95        | 123.74     | -188.03   | 1777519.38        | 440719.30          | 39°42'28.879"N | 80°10'43.826"W | 225.10            | 303.348         | 1.22          |
| 7051.00 | 20.200          | 275.990     | 7000.69  | -226.01        | 124.87     | -198.79   | 1777508.63        | 440720.42          | 39°42'28.889"N | 80°10'43.964"W | 234.75            | 302.134         | 2.78          |
| 7083.00 | 22.480          | 275.560     | 7030.49  | -234.66        | 126.04     | -210.38   | 1777497.04        | 440721.59          | 39°42'28.900"N | 80°10'44.112"W | 245.24            | 300.926         | 7.14          |
| 7114.00 | 25.380          | 276.520     | 7058.83  | -244.04        | 127.37     | -222.88   | 1777484.54        | 440722.92          | 39°42'28.912"N | 80°10'44.272"W | 256.70            | 299.746         | 9.44          |
| 7145.00 | 28.380          | 276.860     | 7086.47  | -254.59        | 129.00     | -236.80   | 1777470.62        | 440724.55          | 39°42'28.927"N | 80°10'44.450"W | 269.65            | 298.580         | 9.69          |
| 7177.00 | 30.040          | 274.950     | 7114.40  | -266.21        | 130.60     | -252.33   | 1777455.09        | 440726.15          | 39°42'28.942"N | 80°10'44.649"W | 284.12            | 297.365         | 5.95          |
| 7209.00 | 28.800          | 271.670     | 7142.28  | -277.42        | 131.52     | -268.01   | 1777439.41        | 440727.07          | 39°42'28.950"N | 80°10'44.850"W | 298.54            | 296.137         | 6.35          |
| 7241.00 | 26.770          | 267.240     | 7170.59  | -287.34        | 131.39     | -282.92   | 1777424.50        | 440726.95          | 39°42'28.947"N | 80°10'45.041"W | 311.94            | 294.911         | 9.05          |
| 7272.00 | 25.060          | 260.650     | 7198.48  | -295.33        | 129.99     | -296.38   | 1777411.05        | 440725.54          | 39°42'28.933"N | 80°10'45.213"W | 323.63            | 293.682         | 10.80         |
| 7303.00 | 22.970          | 252.750     | 7226.80  | -301.44        | 127.13     | -308.63   | 1777398.79        | 440722.68          | 39°42'28.903"N | 80°10'45.369"W | 333.79            | 292.387         | 12.36         |

Received  
Office of Oil & Gas  
DEC 10 2014

# Actual Wellpath Report

Statler 4H (AWP) Proj:15522'  
Page 7 of 13



## REFERENCE WELLPATH IDENTIFICATION

|          |                               |          |                  |
|----------|-------------------------------|----------|------------------|
| Operator | NORTHEAST NATURAL ENERGY, LLC | Slot     | Slot #4          |
| Area     | Monongalia County, WV         | Well     | Statler 4H       |
| Field    | Monongalia                    | Wellbore | Statler 4H (AWB) |
| Facility | Statler                       |          |                  |

6101658

## WELLPATH DATA (299 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] |
|---------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|----------------|----------------|-------------------|-----------------|---------------|
| 7335.00 | 21.220          | 243.930     | 7256.46  | -305.68        | 122.73     | -319.80   | 1777387.62        | 440718.28          | 39°42'28.859"N | 80°10'45.512"W | 342.55            | 290.995         | 11.71         |
| 7366.00 | 20.470          | 236.750     | 7285.43  | -308.08        | 117.29     | -329.38   | 1777378.05        | 440712.85          | 39°42'28.805"N | 80°10'45.634"W | 349.64            | 289.601         | 8.58          |
| 7398.00 | 19.620          | 233.050     | 7315.50  | -309.44        | 110.99     | -338.35   | 1777369.07        | 440706.55          | 39°42'28.742"N | 80°10'45.748"W | 356.09            | 288.162         | 4.77          |
| 7430.00 | 19.110          | 230.260     | 7345.69  | -310.15        | 104.42     | -346.67   | 1777360.75        | 440699.97          | 39°42'28.676"N | 80°10'45.854"W | 362.06            | 286.762         | 3.30          |
| 7462.00 | 19.300          | 222.580     | 7375.91  | -309.89        | 97.17      | -354.28   | 1777353.15        | 440692.73          | 39°42'28.604"N | 80°10'45.950"W | 367.36            | 285.338         | 7.91          |
| 7493.00 | 19.740          | 214.950     | 7405.13  | -308.26        | 89.11      | -360.75   | 1777346.68        | 440684.66          | 39°42'28.524"N | 80°10'46.032"W | 371.59            | 283.875         | 8.34          |
| 7525.00 | 20.940          | 210.340     | 7435.14  | -305.34        | 79.74      | -366.73   | 1777340.70        | 440675.30          | 39°42'28.431"N | 80°10'46.108"W | 375.30            | 282.267         | 6.25          |
| 7556.00 | 22.680          | 206.140     | 7463.92  | -301.47        | 69.59      | -372.16   | 1777335.26        | 440665.15          | 39°42'28.330"N | 80°10'46.177"W | 378.61            | 280.592         | 7.54          |
| 7588.00 | 23.370          | 196.430     | 7493.38  | -295.88        | 57.96      | -376.68   | 1777330.75        | 440653.52          | 39°42'28.215"N | 80°10'46.233"W | 381.11            | 278.748         | 12.05         |
| 7619.00 | 23.920          | 190.060     | 7521.78  | -288.83        | 45.88      | -379.52   | 1777327.91        | 440641.44          | 39°42'28.095"N | 80°10'46.268"W | 382.28            | 276.892         | 8.43          |
| 7650.00 | 25.700          | 186.010     | 7549.92  | -280.50        | 33.00      | -381.32   | 1777326.11        | 440628.56          | 39°42'27.968"N | 80°10'46.290"W | 382.74            | 274.946         | 7.94          |
| 7681.00 | 27.920          | 183.190     | 7577.59  | -270.91        | 19.07      | -382.43   | 1777325.00        | 440614.63          | 39°42'27.830"N | 80°10'46.303"W | 382.90            | 272.854         | 8.25          |
| 7713.00 | 31.000          | 179.110     | 7605.45  | -259.46        | 3.34       | -382.71   | 1777324.71        | 440598.90          | 39°42'27.674"N | 80°10'46.305"W | 382.73            | 270.500         | 11.48         |
| 7743.00 | 33.930          | 174.610     | 7630.77  | -246.94        | -12.72     | -381.81   | 1777325.62        | 440582.84          | 39°42'27.516"N | 80°10'46.292"W | 382.02            | 268.091         | 12.65         |
| 7775.00 | 36.720          | 171.070     | 7656.87  | -231.78        | -31.07     | -379.48   | 1777327.95        | 440564.49          | 39°42'27.335"N | 80°10'46.260"W | 380.75            | 265.319         | 10.81         |
| 7807.00 | 39.720          | 169.170     | 7682.01  | -215.05        | -50.57     | -376.08   | 1777331.35        | 440545.00          | 39°42'27.142"N | 80°10'46.215"W | 379.46            | 262.342         | 10.07         |
| 7839.00 | 42.920          | 167.430     | 7706.04  | -196.84        | -71.25     | -371.78   | 1777335.65        | 440524.31          | 39°42'26.938"N | 80°10'46.158"W | 378.55            | 259.151         | 10.62         |
| 7870.00 | 45.960          | 166.380     | 7728.17  | -177.87        | -92.39     | -366.86   | 1777340.57        | 440503.18          | 39°42'26.730"N | 80°10'46.093"W | 378.31            | 255.865         | 10.09         |
| 7902.00 | 49.500          | 165.280     | 7749.70  | -156.96        | -115.34    | -361.06   | 1777346.37        | 440480.23          | 39°42'26.503"N | 80°10'46.017"W | 379.03            | 252.284         | 11.35         |
| 7934.00 | 52.210          | 163.110     | 7769.90  | -134.73        | -139.21    | -354.29   | 1777353.14        | 440456.36          | 39°42'26.268"N | 80°10'45.928"W | 380.66            | 248.548         | 9.97          |
| 7965.00 | 55.380          | 159.810     | 7788.21  | -111.82        | -162.92    | -346.33   | 1777361.10        | 440432.66          | 39°42'26.034"N | 80°10'45.823"W | 382.73            | 244.807         | 13.35         |
| 7997.00 | 58.100          | 155.780     | 7805.76  | -86.68         | -187.67    | -336.21   | 1777371.22        | 440407.90          | 39°42'25.790"N | 80°10'45.692"W | 385.04            | 240.829         | 13.53         |
| 8029.00 | 61.360          | 152.220     | 7821.89  | -60.14         | -212.50    | -324.08   | 1777383.34        | 440383.08          | 39°42'25.546"N | 80°10'45.534"W | 387.54            | 236.747         | 14.00         |
| 8061.00 | 64.890          | 150.360     | 7836.36  | -32.38         | -237.52    | -310.37   | 1777397.06        | 440358.05          | 39°42'25.299"N | 80°10'45.356"W | 390.83            | 232.573         | 12.19         |
| 8093.00 | 69.280          | 149.490     | 7848.81  | -3.57          | -263.02    | -295.60   | 1777411.83        | 440332.56          | 39°42'25.049"N | 80°10'45.165"W | 395.67            | 228.337         | 13.95         |
| 8125.00 | 69.710          | 148.330     | 7860.02  | 25.84          | -288.69    | -280.12   | 1777427.30        | 440306.89          | 39°42'24.796"N | 80°10'44.964"W | 402.25            | 224.137         | 3.65          |
| 8157.00 | 71.480          | 146.020     | 7870.66  | 55.62          | -314.05    | -263.76   | 1777443.66        | 440281.53          | 39°42'24.547"N | 80°10'44.752"W | 410.11            | 220.026         | 8.77          |
| 8189.00 | 75.100          | 144.480     | 7879.86  | 86.00          | -339.22    | -246.29   | 1777461.13        | 440256.36          | 39°42'24.299"N | 80°10'44.526"W | 419.20            | 215.981         | 12.22         |
| 8221.00 | 79.160          | 142.870     | 7886.98  | 117.03         | -364.35    | -227.81   | 1777479.61        | 440231.24          | 39°42'24.052"N | 80°10'44.288"W | 429.71            | 212.016         | 13.60         |
| 8252.00 | 79.920          | 142.510     | 7892.61  | 147.40         | -388.59    | -209.33   | 1777498.09        | 440206.99          | 39°42'23.814"N | 80°10'44.049"W | 441.39            | 208.311         | 2.70          |

# Actual Wellpath Report

Statler 4H (AWP) Proj:15522'

Page 8 of 13



## REFERENCE WELLPATH IDENTIFICATION

|          |                               |          |                  |
|----------|-------------------------------|----------|------------------|
| Operator | NORTHEAST NATURAL ENERGY, LLC | Slot     | Slot #4          |
| Area     | Monongalia County, WV         | Well     | Statler 4H       |
| Field    | Monongalia                    | Wellbore | Statler 4H (AWB) |
| Facility | Statler                       |          |                  |

61-01658

## WELLPATH DATA (299 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] |
|---------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|----------------|----------------|-------------------|-----------------|---------------|
| 8284.00 | 80.670          | 142.160     | 7898.01  | 178.85         | -413.56    | -190.06   | 1777517.36        | 440182.02          | 39°42'23.569"N | 80°10'43.800"W | 455.14            | 204.682         | 2.58          |
| 8316.00 | 82.690          | 141.250     | 7902.64  | 210.44         | -438.41    | -170.44   | 1777536.98        | 440157.18          | 39°42'23.325"N | 80°10'43.546"W | 470.38            | 201.244         | 6.91          |
| 8347.00 | 86.150          | 141.000     | 7905.65  | 241.23         | -462.43    | -151.08   | 1777556.34        | 440133.16          | 39°42'23.089"N | 80°10'43.296"W | 486.48            | 198.092         | 11.19         |
| 8379.00 | 88.710          | 139.700     | 7907.08  | 273.17         | -487.04    | -130.68   | 1777576.73        | 440108.55          | 39°42'22.847"N | 80°10'43.033"W | 504.26            | 195.020         | 8.97          |
| 8410.00 | 90.400          | 138.980     | 7907.33  | 304.15         | -510.55    | -110.48   | 1777596.93        | 440085.04          | 39°42'22.616"N | 80°10'42.772"W | 522.37            | 192.210         | 5.93          |
| 8442.00 | 90.620          | 138.790     | 7907.04  | 336.15         | -534.66    | -89.44    | 1777617.97        | 440060.94          | 39°42'22.380"N | 80°10'42.501"W | 542.09            | 189.497         | 0.91          |
| 8505.00 | 90.680          | 135.890     | 7906.33  | 399.13         | -580.98    | -46.76    | 1777660.65        | 440014.62          | 39°42'21.925"N | 80°10'41.950"W | 582.86            | 184.601         | 4.60          |
| 8568.00 | 90.740          | 133.370     | 7905.54  | 462.03         | -625.23    | -1.93     | 1777705.48        | 439970.37          | 39°42'21.491"N | 80°10'41.372"W | 625.24            | 180.177         | 4.00          |
| 8631.00 | 90.150          | 131.810     | 7905.06  | 524.76         | -667.87    | 44.45     | 1777751.85        | 439927.74          | 39°42'21.073"N | 80°10'40.775"W | 669.34            | 176.192         | 2.65          |
| 8694.00 | 91.290          | 133.610     | 7904.26  | 587.50         | -710.59    | 90.73     | 1777798.14        | 439885.01          | 39°42'20.654"N | 80°10'40.178"W | 716.36            | 172.723         | 3.38          |
| 8756.00 | 90.520          | 134.510     | 7903.28  | 649.36         | -753.70    | 135.28    | 1777842.68        | 439841.91          | 39°42'20.232"N | 80°10'39.604"W | 765.75            | 169.824         | 1.91          |
| 8820.00 | 90.650          | 134.640     | 7902.63  | 713.25         | -798.62    | 180.87    | 1777888.26        | 439796.99          | 39°42'19.791"N | 80°10'39.017"W | 818.84            | 167.239         | 0.29          |
| 8883.00 | 90.620          | 137.600     | 7901.93  | 776.21         | -844.02    | 224.53    | 1777931.92        | 439751.59          | 39°42'19.346"N | 80°10'38.454"W | 873.37            | 165.103         | 4.70          |
| 8946.00 | 90.680          | 137.180     | 7901.22  | 839.21         | -890.38    | 267.18    | 1777974.57        | 439705.23          | 39°42'18.891"N | 80°10'37.904"W | 929.60            | 163.297         | 0.67          |
| 9010.00 | 90.180          | 136.160     | 7900.74  | 903.19         | -936.93    | 311.09    | 1778018.48        | 439658.68          | 39°42'18.434"N | 80°10'37.337"W | 987.23            | 161.632         | 1.77          |
| 9073.00 | 90.400          | 135.960     | 7900.42  | 966.16         | -982.30    | 354.81    | 1778062.19        | 439613.32          | 39°42'17.989"N | 80°10'36.774"W | 1044.41           | 160.140         | 0.47          |
| 9136.00 | 90.370          | 135.220     | 7900.00  | 1029.11        | -1027.30   | 398.89    | 1778106.28        | 439568.32          | 39°42'17.547"N | 80°10'36.205"W | 1102.03           | 158.779         | 1.18          |
| 9199.00 | 90.370          | 135.250     | 7899.59  | 1092.05        | -1072.03   | 443.26    | 1778150.64        | 439523.60          | 39°42'17.109"N | 80°10'35.633"W | 1160.05           | 157.536         | 0.05          |
| 9263.00 | 90.060          | 135.080     | 7899.35  | 1155.98        | -1117.41   | 488.38    | 1778195.76        | 439478.21          | 39°42'16.663"N | 80°10'35.052"W | 1219.48           | 156.392         | 0.55          |
| 9327.00 | 90.120          | 136.890     | 7899.25  | 1219.94        | -1163.44   | 532.85    | 1778240.22        | 439432.19          | 39°42'16.212"N | 80°10'34.478"W | 1279.66           | 155.392         | 2.83          |
| 9391.00 | 89.420          | 137.730     | 7899.50  | 1283.94        | -1210.48   | 576.24    | 1778283.61        | 439385.16          | 39°42'15.750"N | 80°10'33.918"W | 1340.64           | 154.543         | 1.71          |
| 9454.00 | 89.570          | 136.960     | 7900.06  | 1346.93        | -1256.81   | 618.93    | 1778326.30        | 439338.83          | 39°42'15.296"N | 80°10'33.368"W | 1400.94           | 153.782         | 1.25          |
| 9518.00 | 89.320          | 136.860     | 7900.68  | 1410.92        | -1303.55   | 662.65    | 1778370.01        | 439292.09          | 39°42'14.837"N | 80°10'32.804"W | 1462.31           | 153.054         | 0.42          |
| 9581.00 | 88.950          | 137.010     | 7901.63  | 1473.91        | -1349.57   | 705.66    | 1778413.02        | 439246.08          | 39°42'14.385"N | 80°10'32.249"W | 1522.92           | 152.396         | 0.63          |
| 9644.00 | 88.830          | 134.850     | 7902.85  | 1536.86        | -1394.82   | 749.47    | 1778456.83        | 439200.82          | 39°42'13.941"N | 80°10'31.684"W | 1583.42           | 151.750         | 3.43          |
| 9708.00 | 88.860          | 134.410     | 7904.14  | 1600.74        | -1439.77   | 795.01    | 1778502.36        | 439155.88          | 39°42'13.501"N | 80°10'31.098"W | 1644.68           | 151.094         | 0.69          |
| 9772.00 | 88.920          | 133.720     | 7905.38  | 1664.60        | -1484.28   | 840.98    | 1778548.34        | 439111.38          | 39°42'13.064"N | 80°10'30.505"W | 1705.97           | 150.464         | 1.08          |
| 9835.00 | 88.920          | 134.990     | 7906.57  | 1727.47        | -1528.31   | 886.02    | 1778593.37        | 439067.34          | 39°42'12.632"N | 80°10'29.925"W | 1766.57           | 149.897         | 2.02          |
| 9898.00 | 88.920          | 135.200     | 7907.76  | 1790.39        | -1572.92   | 930.49    | 1778637.84        | 439022.73          | 39°42'12.195"N | 80°10'29.351"W | 1827.54           | 149.393         | 0.33          |
| 9961.00 | 88.460          | 134.290     | 7909.20  | 1853.28        | -1617.26   | 975.22    | 1778682.57        | 438978.40          | 39°42'11.760"N | 80°10'28.775"W | 1888.54           | 148.910         | 1.62          |



# Actual Wellpath Report

Statler 4H (AWP) Proj:15522'

Page 9 of 13



## REFERENCE WELLPATH IDENTIFICATION

|          |                               |          |                  |
|----------|-------------------------------|----------|------------------|
| Operator | NORTHEAST NATURAL ENERGY, LLC | Slot     | Slot #4          |
| Area     | Monongalia County, WV         | Well     | Statler 4H       |
| Field    | Monongalia                    | Wellbore | Statler 4H (AWB) |
| Facility | Statler                       |          |                  |

61-01658

## WELLPATH DATA (299 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] |
|----------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|----------------|----------------|-------------------|-----------------|---------------|
| 10025.00 | 88.340          | 134.230     | 7910.98  | 1917.13        | -1661.91   | 1021.04   | 1778728.38        | 438933.75          | 39°42'11.322"N | 80°10'28.184"W | 1950.50           | 148.434         | 0.21          |
| 10088.00 | 88.430          | 135.890     | 7912.76  | 1980.03        | -1706.49   | 1065.52   | 1778772.86        | 438889.18          | 39°42'10.885"N | 80°10'27.611"W | 2011.82           | 148.020         | 2.64          |
| 10150.00 | 88.520          | 138.900     | 7914.41  | 2042.00        | -1752.10   | 1107.47   | 1778814.81        | 438843.57          | 39°42'10.437"N | 80°10'27.070"W | 2072.76           | 147.704         | 4.86          |
| 10213.00 | 88.120          | 139.130     | 7916.26  | 2104.96        | -1799.63   | 1148.77   | 1778856.11        | 438796.04          | 39°42'09.970"N | 80°10'26.537"W | 2135.03           | 147.448         | 0.73          |
| 10277.00 | 87.910          | 139.770     | 7918.47  | 2168.89        | -1848.24   | 1190.35   | 1778897.69        | 438747.44          | 39°42'09.493"N | 80°10'26.000"W | 2198.39           | 147.216         | 1.05          |
| 10340.00 | 87.480          | 139.010     | 7921.01  | 2231.82        | -1896.02   | 1231.33   | 1778938.66        | 438699.65          | 39°42'09.024"N | 80°10'25.471"W | 2260.77           | 146.999         | 1.39          |
| 10402.00 | 87.880          | 137.270     | 7923.52  | 2293.76        | -1942.16   | 1272.67   | 1778980.00        | 438653.52          | 39°42'08.571"N | 80°10'24.938"W | 2322.00           | 146.764         | 2.88          |
| 10466.00 | 88.620          | 136.870     | 7925.47  | 2357.73        | -1989.00   | 1316.24   | 1779023.56        | 438606.69          | 39°42'08.111"N | 80°10'24.376"W | 2385.08           | 146.505         | 1.31          |
| 10529.00 | 88.830          | 136.760     | 7926.87  | 2420.70        | -2034.92   | 1359.34   | 1779066.66        | 438560.76          | 39°42'07.661"N | 80°10'23.820"W | 2447.18           | 146.257         | 0.38          |
| 10592.00 | 88.740          | 137.600     | 7928.21  | 2483.68        | -2081.12   | 1402.15   | 1779109.47        | 438514.57          | 39°42'07.207"N | 80°10'23.268"W | 2509.40           | 146.030         | 1.34          |
| 10656.00 | 88.280          | 136.360     | 7929.87  | 2547.65        | -2127.90   | 1445.80   | 1779153.12        | 438467.79          | 39°42'06.748"N | 80°10'22.705"W | 2572.60           | 145.806         | 2.07          |
| 10719.00 | 88.150          | 138.700     | 7931.84  | 2610.62        | -2174.34   | 1488.31   | 1779195.63        | 438421.35          | 39°42'06.293"N | 80°10'22.157"W | 2634.93           | 145.609         | 3.72          |
| 10782.00 | 87.850          | 140.590     | 7934.04  | 2673.54        | -2222.32   | 1529.08   | 1779236.39        | 438373.38          | 39°42'05.821"N | 80°10'21.631"W | 2697.55           | 145.470         | 3.04          |
| 10844.00 | 89.170          | 142.650     | 7935.65  | 2735.38        | -2270.90   | 1567.56   | 1779274.87        | 438324.80          | 39°42'05.344"N | 80°10'21.134"W | 2759.39           | 145.383         | 3.95          |
| 10907.00 | 88.160          | 142.210     | 7937.12  | 2798.16        | -2320.82   | 1605.96   | 1779313.27        | 438274.88          | 39°42'04.854"N | 80°10'20.638"W | 2822.29           | 145.318         | 1.75          |
| 10971.00 | 87.230          | 142.060     | 7939.69  | 2861.93        | -2371.30   | 1645.21   | 1779352.52        | 438224.40          | 39°42'04.358"N | 80°10'20.131"W | 2886.14           | 145.247         | 1.47          |
| 11034.00 | 88.680          | 142.090     | 7941.94  | 2924.71        | -2420.97   | 1683.91   | 1779391.21        | 438174.74          | 39°42'03.870"N | 80°10'19.631"W | 2949.00           | 145.179         | 2.30          |
| 11097.00 | 88.520          | 141.470     | 7943.48  | 2987.54        | -2470.45   | 1722.87   | 1779430.17        | 438125.26          | 39°42'03.384"N | 80°10'19.128"W | 3011.88           | 145.108         | 1.02          |
| 11161.00 | 88.620          | 140.950     | 7945.07  | 3051.41        | -2520.32   | 1762.95   | 1779470.25        | 438075.40          | 39°42'02.894"N | 80°10'18.610"W | 3075.71           | 145.027         | 0.83          |
| 11224.00 | 88.460          | 139.620     | 7946.68  | 3114.33        | -2568.76   | 1803.19   | 1779510.49        | 438026.96          | 39°42'02.418"N | 80°10'18.091"W | 3138.48           | 144.932         | 2.13          |
| 11287.00 | 85.780          | 139.020     | 7949.84  | 3177.22        | -2616.47   | 1844.20   | 1779551.50        | 437979.25          | 39°42'01.949"N | 80°10'17.561"W | 3201.10           | 144.822         | 4.36          |
| 11350.00 | 87.110          | 135.680     | 7953.75  | 3240.09        | -2662.71   | 1886.80   | 1779594.09        | 437933.01          | 39°42'01.496"N | 80°10'17.012"W | 3263.44           | 144.679         | 5.70          |
| 11413.00 | 87.200          | 136.220     | 7956.88  | 3302.98        | -2707.94   | 1930.55   | 1779637.84        | 437887.79          | 39°42'01.052"N | 80°10'16.448"W | 3325.65           | 144.514         | 0.87          |
| 11477.00 | 88.340          | 137.470     | 7959.37  | 3366.92        | -2754.59   | 1974.29   | 1779681.58        | 437841.14          | 39°42'00.594"N | 80°10'15.884"W | 3389.04           | 144.370         | 2.64          |
| 11540.00 | 88.370          | 139.220     | 7961.18  | 3429.89        | -2801.64   | 2016.14   | 1779723.43        | 437794.09          | 39°42'00.132"N | 80°10'15.344"W | 3451.67           | 144.260         | 2.78          |
| 11603.00 | 88.490          | 138.530     | 7962.90  | 3492.85        | -2849.08   | 2057.56   | 1779764.84        | 437746.66          | 39°41'59.667"N | 80°10'14.810"W | 3514.37           | 144.164         | 1.11          |
| 11667.00 | 88.340          | 134.170     | 7964.68  | 3556.79        | -2895.36   | 2101.71   | 1779808.99        | 437700.38          | 39°41'59.212"N | 80°10'14.240"W | 3577.75           | 144.024         | 6.81          |
| 11729.00 | 89.570          | 134.310     | 7965.81  | 3618.66        | -2938.60   | 2146.12   | 1779853.40        | 437657.14          | 39°41'58.788"N | 80°10'13.668"W | 3638.85           | 143.859         | 2.00          |
| 11792.00 | 89.260          | 137.080     | 7966.45  | 3681.60        | -2983.68   | 2190.12   | 1779897.39        | 437612.06          | 39°41'58.346"N | 80°10'13.101"W | 3701.21           | 143.720         | 4.42          |
| 11855.00 | 90.150          | 135.910     | 7966.77  | 3744.59        | -3029.37   | 2233.49   | 1779940.76        | 437566.37          | 39°41'57.898"N | 80°10'12.542"W | 3763.72           | 143.600         | 2.33          |

# Actual Wellpath Report

Statler 4H (AWP) Proj:15522'  
Page 10 of 13



## REFERENCE WELLPATH IDENTIFICATION

|          |                               |          |                  |
|----------|-------------------------------|----------|------------------|
| Operator | NORTHEAST NATURAL ENERGY, LLC | Slot     | Slot #4          |
| Area     | Monongalia County, WV         | Well     | Statler 4H       |
| Field    | Monongalia                    | Wellbore | Statler 4H (AWB) |
| Facility | Statler                       |          |                  |

6101658

## WELLPATH DATA (299 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] |
|----------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|----------------|----------------|-------------------|-----------------|---------------|
| 11917.00 | 89.780          | 135.970     | 7966.81  | 3806.55        | -3073.93   | 2276.60   | 1779983.87        | 437521.82          | 39°41'57.461"N | 80°10'11.986"W | 3825.17           | 143.476         | 0.60          |
| 11980.00 | 90.310          | 136.420     | 7966.76  | 3869.53        | -3119.39   | 2320.21   | 1780027.48        | 437476.36          | 39°41'57.014"N | 80°10'11.424"W | 3887.67           | 143.358         | 1.10          |
| 12043.00 | 90.430          | 138.100     | 7966.36  | 3932.52        | -3165.66   | 2362.96   | 1780070.23        | 437430.09          | 39°41'56.560"N | 80°10'10.872"W | 3950.32           | 143.261         | 2.67          |
| 12107.00 | 90.580          | 137.620     | 7965.79  | 3996.52        | -3213.12   | 2405.90   | 1780113.16        | 437382.64          | 39°41'56.095"N | 80°10'10.318"W | 4014.04           | 143.175         | 0.79          |
| 12170.00 | 90.400          | 134.900     | 7965.25  | 4059.49        | -3258.63   | 2449.45   | 1780156.71        | 437337.13          | 39°41'55.648"N | 80°10'09.757"W | 4076.58           | 143.068         | 4.33          |
| 12233.00 | 90.280          | 131.740     | 7964.88  | 4122.28        | -3301.84   | 2495.28   | 1780202.54        | 437293.92          | 39°41'55.224"N | 80°10'09.166"W | 4138.67           | 142.921         | 5.02          |
| 12296.00 | 90.620          | 136.950     | 7964.38  | 4185.14        | -3345.86   | 2540.32   | 1780247.57        | 437249.90          | 39°41'54.793"N | 80°10'08.586"W | 4200.95           | 142.793         | 8.29          |
| 12359.00 | 89.600          | 135.960     | 7964.26  | 4248.12        | -3391.53   | 2583.72   | 1780290.97        | 437204.24          | 39°41'54.345"N | 80°10'08.026"W | 4263.57           | 142.699         | 2.26          |
| 12423.00 | 89.140          | 135.060     | 7964.97  | 4312.07        | -3437.18   | 2628.57   | 1780335.81        | 437158.59          | 39°41'53.897"N | 80°10'07.448"W | 4327.07           | 142.593         | 1.58          |
| 12486.00 | 88.950          | 134.800     | 7966.02  | 4374.98        | -3481.67   | 2673.16   | 1780380.41        | 437114.11          | 39°41'53.460"N | 80°10'06.874"W | 4389.51           | 142.484         | 0.51          |
| 12549.00 | 89.110          | 135.480     | 7967.08  | 4437.90        | -3526.31   | 2717.60   | 1780424.84        | 437069.46          | 39°41'53.022"N | 80°10'06.301"W | 4451.99           | 142.380         | 1.11          |
| 12613.00 | 89.050          | 135.860     | 7968.11  | 4501.85        | -3572.09   | 2762.31   | 1780469.55        | 437023.69          | 39°41'52.573"N | 80°10'05.725"W | 4515.55           | 142.285         | 0.60          |
| 12675.00 | 89.200          | 137.320     | 7969.06  | 4563.82        | -3617.12   | 2804.91   | 1780512.15        | 436978.66          | 39°41'52.131"N | 80°10'05.175"W | 4577.24           | 142.208         | 2.37          |
| 12739.00 | 89.260          | 137.930     | 7969.92  | 4627.82        | -3664.40   | 2848.04   | 1780555.28        | 436931.38          | 39°41'51.667"N | 80°10'04.619"W | 4641.03           | 142.145         | 0.96          |
| 12802.00 | 89.350          | 137.580     | 7970.68  | 4690.81        | -3711.03   | 2890.40   | 1780597.63        | 436884.75          | 39°41'51.210"N | 80°10'04.073"W | 4703.84           | 142.086         | 0.57          |
| 12864.00 | 89.260          | 136.350     | 7971.43  | 4752.80        | -3756.35   | 2932.70   | 1780639.93        | 436839.44          | 39°41'50.765"N | 80°10'03.527"W | 4765.59           | 142.020         | 1.99          |
| 12926.00 | 88.830          | 135.250     | 7972.47  | 4814.75        | -3800.79   | 2975.92   | 1780683.15        | 436795.00          | 39°41'50.329"N | 80°10'02.970"W | 4827.22           | 141.940         | 1.90          |
| 12990.00 | 89.290          | 136.690     | 7973.52  | 4878.71        | -3846.80   | 3020.40   | 1780727.62        | 436749.00          | 39°41'49.877"N | 80°10'02.397"W | 4890.87           | 141.862         | 2.36          |
| 13052.00 | 90.250          | 140.440     | 7973.77  | 4940.69        | -3893.27   | 3061.42   | 1780768.64        | 436702.53          | 39°41'49.421"N | 80°10'01.868"W | 4952.76           | 141.821         | 6.24          |
| 13114.00 | 89.510          | 140.250     | 7973.90  | 5002.63        | -3941.00   | 3100.98   | 1780808.20        | 436654.80          | 39°41'48.952"N | 80°10'01.357"W | 5014.74           | 141.803         | 1.23          |
| 13176.00 | 90.030          | 139.910     | 7974.14  | 5064.58        | -3988.55   | 3140.77   | 1780847.99        | 436607.25          | 39°41'48.485"N | 80°10'00.843"W | 5076.71           | 141.781         | 1.00          |
| 13239.00 | 89.450          | 137.660     | 7974.43  | 5127.56        | -4035.94   | 3182.28   | 1780889.49        | 436559.87          | 39°41'48.020"N | 80°10'00.308"W | 5139.62           | 141.745         | 3.69          |
| 13302.00 | 89.720          | 135.450     | 7974.89  | 5190.54        | -4081.67   | 3225.59   | 1780932.81        | 436514.13          | 39°41'47.571"N | 80°09'59.749"W | 5202.36           | 141.682         | 3.53          |
| 13365.00 | 90.370          | 136.490     | 7974.84  | 5253.51        | -4126.97   | 3269.38   | 1780976.59        | 436468.84          | 39°41'47.127"N | 80°09'59.185"W | 5265.05           | 141.614         | 1.95          |
| 13428.00 | 90.400          | 135.430     | 7974.41  | 5316.47        | -4172.26   | 3313.17   | 1781020.38        | 436423.56          | 39°41'46.682"N | 80°09'58.620"W | 5327.74           | 141.547         | 1.68          |
| 13492.00 | 90.220          | 131.750     | 7974.07  | 5380.29        | -4216.37   | 3359.52   | 1781066.72        | 436379.44          | 39°41'46.250"N | 80°09'58.023"W | 5391.12           | 141.453         | 5.76          |
| 13555.00 | 90.280          | 129.660     | 7973.79  | 5442.80        | -4257.46   | 3407.28   | 1781114.48        | 436338.36          | 39°41'45.847"N | 80°09'57.408"W | 5453.02           | 141.329         | 3.32          |
| 13618.00 | 90.460          | 130.990     | 7973.39  | 5505.26        | -4298.23   | 3455.30   | 1781162.50        | 436297.60          | 39°41'45.448"N | 80°09'56.790"W | 5514.88           | 141.205         | 2.13          |
| 13680.00 | 89.600          | 133.100     | 7973.35  | 5566.94        | -4339.74   | 3501.34   | 1781208.54        | 436256.08          | 39°41'45.041"N | 80°09'56.197"W | 5576.09           | 141.103         | 3.68          |
| 13743.00 | 89.940          | 135.340     | 7973.61  | 5629.81        | -4383.68   | 3546.49   | 1781253.68        | 436212.15          | 39°41'44.610"N | 80°09'55.616"W | 5638.64           | 141.026         | 3.60          |

# Actual Wellpath Report

Statler 4H (AWP) Proj:15522'  
Page 11 of 13



## REFERENCE WELLPATH IDENTIFICATION

|          |                               |          |                  |
|----------|-------------------------------|----------|------------------|
| Operator | NORTHEAST NATURAL ENERGY, LLC | Slot     | Slot #4          |
| Area     | Monongalia County, WV         | Well     | Statler 4H       |
| Field    | Monongalia                    | Wellbore | Statler 4H (AWB) |
| Facility | Statler                       |          |                  |

61-01658

## WELLPATH DATA (299 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] |
|----------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|----------------|----------------|-------------------|-----------------|---------------|
| 13806.00 | 89.940          | 134.790     | 7973.67  | 5692.74        | -4428.28   | 3590.99   | 1781298.18        | 436167.55          | 39°41'44.173"N | 80°09'55.042"W | 5701.30           | 140.961         | 0.87          |
| 13869.00 | 89.820          | 135.220     | 7973.80  | 5755.66        | -4472.83   | 3635.53   | 1781342.72        | 436123.00          | 39°41'43.736"N | 80°09'54.468"W | 5763.96           | 140.896         | 0.71          |
| 13933.00 | 90.090          | 137.810     | 7973.85  | 5819.64        | -4519.26   | 3679.57   | 1781386.75        | 436076.57          | 39°41'43.280"N | 80°09'53.900"W | 5827.77           | 140.848         | 4.07          |
| 13996.00 | 91.720          | 136.730     | 7972.86  | 5882.62        | -4565.53   | 3722.31   | 1781429.49        | 436030.31          | 39°41'42.826"N | 80°09'53.349"W | 5890.64           | 140.809         | 3.10          |
| 14060.00 | 90.520          | 133.960     | 7971.61  | 5946.55        | -4611.04   | 3767.28   | 1781474.46        | 435984.80          | 39°41'42.379"N | 80°09'52.770"W | 5954.33           | 140.751         | 4.72          |
| 14123.00 | 90.340          | 133.230     | 7971.14  | 6009.37        | -4654.48   | 3812.90   | 1781520.08        | 435941.36          | 39°41'41.953"N | 80°09'52.182"W | 6016.85           | 140.676         | 1.19          |
| 14186.00 | 90.280          | 134.510     | 7970.79  | 6072.22        | -4698.14   | 3858.32   | 1781565.49        | 435897.70          | 39°41'41.525"N | 80°09'51.597"W | 6079.40           | 140.606         | 2.03          |
| 14250.00 | 90.370          | 135.130     | 7970.43  | 6136.13        | -4743.25   | 3903.71   | 1781610.89        | 435852.60          | 39°41'41.083"N | 80°09'51.012"W | 6143.08           | 140.545         | 0.98          |
| 14313.00 | 91.110          | 137.660     | 7969.62  | 6199.10        | -4788.86   | 3947.16   | 1781654.33        | 435806.99          | 39°41'40.635"N | 80°09'50.452"W | 6205.91           | 140.503         | 4.18          |
| 14376.00 | 91.420          | 141.020     | 7968.23  | 6262.05        | -4836.64   | 3988.19   | 1781695.36        | 435759.22          | 39°41'40.166"N | 80°09'49.922"W | 6268.87           | 140.492         | 5.35          |
| 14440.00 | 90.920          | 141.960     | 7966.92  | 6325.91        | -4886.70   | 4028.03   | 1781735.19        | 435709.15          | 39°41'39.674"N | 80°09'49.408"W | 6332.84           | 140.502         | 1.66          |
| 14503.00 | 90.220          | 139.910     | 7966.29  | 6388.81        | -4935.61   | 4067.73   | 1781774.89        | 435660.24          | 39°41'39.194"N | 80°09'48.895"W | 6395.84           | 140.506         | 3.44          |
| 14566.00 | 91.320          | 137.150     | 7965.45  | 6451.79        | -4982.81   | 4109.44   | 1781816.60        | 435613.05          | 39°41'38.730"N | 80°09'48.357"W | 6458.79           | 140.487         | 4.72          |
| 14630.00 | 92.030          | 131.850     | 7963.57  | 6515.63        | -5027.63   | 4155.05   | 1781862.21        | 435568.23          | 39°41'38.291"N | 80°09'47.770"W | 6522.39           | 140.428         | 8.35          |
| 14693.00 | 91.940          | 131.500     | 7961.39  | 6578.23        | -5069.50   | 4202.08   | 1781909.23        | 435526.37          | 39°41'37.880"N | 80°09'47.164"W | 6584.63           | 140.345         | 0.57          |
| 14757.00 | 92.830          | 130.740     | 7958.73  | 6641.74        | -5111.55   | 4250.25   | 1781957.40        | 435484.32          | 39°41'37.468"N | 80°09'46.544"W | 6647.75           | 140.256         | 1.83          |
| 14819.00 | 91.480          | 133.490     | 7956.40  | 6703.38        | -5153.09   | 4296.20   | 1782003.35        | 435442.78          | 39°41'37.061"N | 80°09'45.952"W | 6709.08           | 140.182         | 4.94          |
| 14883.00 | 92.770          | 136.550     | 7954.02  | 6767.25        | -5198.33   | 4341.41   | 1782048.55        | 435397.55          | 39°41'36.617"N | 80°09'45.370"W | 6772.77           | 140.133         | 5.19          |
| 14946.00 | 92.950          | 136.300     | 7950.88  | 6830.16        | -5243.91   | 4384.78   | 1782091.92        | 435351.97          | 39°41'36.170"N | 80°09'44.810"W | 6835.56           | 140.099         | 0.49          |
| 15009.00 | 93.050          | 134.440     | 7947.58  | 6893.01        | -5288.68   | 4428.98   | 1782136.11        | 435307.20          | 39°41'35.731"N | 80°09'44.241"W | 6898.26           | 140.056         | 2.95          |
| 15072.00 | 93.020          | 132.610     | 7944.25  | 6955.74        | -5332.01   | 4474.59   | 1782181.73        | 435263.88          | 39°41'35.306"N | 80°09'43.653"W | 6960.76           | 139.997         | 2.90          |
| 15135.00 | 93.420          | 131.910     | 7940.71  | 7018.35        | -5374.31   | 4521.14   | 1782228.28        | 435221.58          | 39°41'34.891"N | 80°09'43.054"W | 7023.10           | 139.928         | 1.28          |
| 15199.00 | 93.260          | 133.060     | 7936.98  | 7081.96        | -5417.46   | 4568.26   | 1782275.39        | 435178.43          | 39°41'34.468"N | 80°09'42.447"W | 7086.45           | 139.861         | 1.81          |
| 15262.00 | 93.360          | 136.270     | 7933.34  | 7144.75        | -5461.66   | 4612.98   | 1782320.11        | 435134.23          | 39°41'34.035"N | 80°09'41.871"W | 7149.08           | 139.815         | 5.09          |
| 15325.00 | 93.480          | 136.180     | 7929.58  | 7207.61        | -5507.07   | 4656.49   | 1782363.62        | 435088.82          | 39°41'33.589"N | 80°09'41.310"W | 7211.85           | 139.784         | 0.24          |
| 15388.00 | 93.420          | 134.730     | 7925.79  | 7270.44        | -5551.89   | 4700.60   | 1782407.73        | 435044.01          | 39°41'33.149"N | 80°09'40.741"W | 7274.56           | 139.747         | 2.30          |
| 15450.00 | 93.300          | 135.970     | 7922.16  | 7332.28        | -5595.92   | 4744.10   | 1782451.22        | 434999.98          | 39°41'32.717"N | 80°09'40.181"W | 7336.27           | 139.709         | 2.01          |
| 15498.00 | 93.290          | 135.650     | 7919.40  | 7380.17        | -5630.28   | 4777.50   | 1782484.62        | 434965.62          | 39°41'32.380"N | 80°09'39.750"W | 7384.08           | 139.684         | 0.67          |
| 15522.00 | 93.290          | 135.650     | 7918.02  | 7404.11        | -5647.42   | 4794.25   | 1782501.37        | 434948.49          | 39°41'32.212"N | 80°09'39.534"W | 7407.98           | 139.671         | 0.00          |

# Actual Wellpath Report

Statler 4H (AWP) Proj:15522'  
Page 12 of 13



## REFERENCE WELLPATH IDENTIFICATION

|          |                               |          |                  |
|----------|-------------------------------|----------|------------------|
| Operator | NORTHEAST NATURAL ENERGY, LLC | Slot     | Slot #4          |
| Area     | Monongalia County, WV         | Well     | Statler 4H       |
| Field    | Monongalia                    | Wellbore | Statler 4H (AWB) |
| Facility | Statler                       |          |                  |

61-01658

## TARGETS

| Name                 | MD [ft] | TVD [ft] | North [ft] | East [ft] | Grid East [US ft] | Grid North [US ft] | Latitude       | Longitude      | Shape |
|----------------------|---------|----------|------------|-----------|-------------------|--------------------|----------------|----------------|-------|
| Statler 4H BHL:Rev-2 |         | 7902.00  | -5395.01   | 5074.83   | 1782781.93        | 435200.88          | 39°41'34.727"N | 80°09'35.969"W | point |
| Statler 4H LP:Rev-2  |         | 7902.00  | -486.86    | -102.76   | 1777604.65        | 440108.73          | 39°42'22.851"N | 80°10'42.676"W | point |
| Statler 4H BHL Rev-3 |         | 7941.70  | -5674.11   | 4803.00   | 1782510.12        | 434921.79          | 39°41'31.949"N | 80°09'39.420"W | point |

## WELLPATH COMPOSITION - Ref Wellbore: Statler 4H (AWB) Ref Wellpath: Statler 4H (AWP) Proj:15522'

| Start MD [ft] | End MD [ft] | Positional Uncertainty Model  | Log Name/Comment                  | Wellbore         |
|---------------|-------------|-------------------------------|-----------------------------------|------------------|
| 19.00         | 5750.00     | ISCWSA MWD, Rev. 2 (Standard) | Phoenix (1074'-5741')Proj: 6072   | Statler 4H (AWB) |
| 5750.00       | 15498.00    | NaviTrak (MagCorr)            | BHI ATCurve (5750')(6106'-15498') | Statler 4H (AWB) |
| 15498.00      | 15522.00    | Blind Drilling (std)          | Projection to bit                 | Statler 4H (AWB) |

# Actual Wellpath Report

Statler 4H (AWP) Proj:15522'

Page 13 of 13



| REFERENCE WELLPATH IDENTIFICATION |                               |          |                  |
|-----------------------------------|-------------------------------|----------|------------------|
| Operator                          | NORTHEAST NATURAL ENERGY, LLC | Slot     | Slot #4          |
| Area                              | Monongalia County, WV         | Well     | Statler 4H       |
| Field                             | Monongalia                    | Wellbore | Statler 4H (AWB) |
| Facility                          | Statler                       |          |                  |

6101658

## COMMENTS

### Wellpath general comments

Phoenix Surveys: (1083-5750')Proj: 6081'

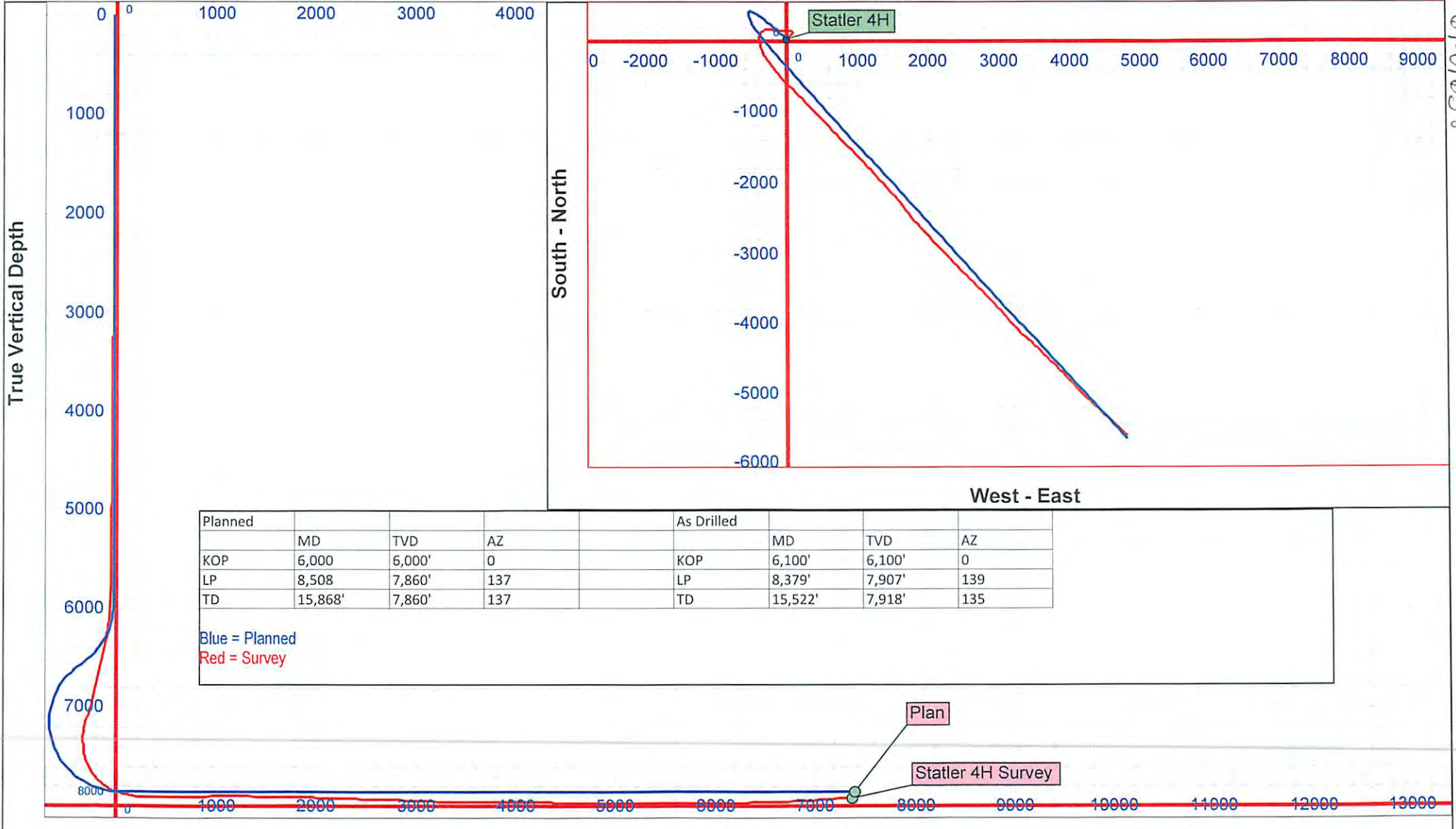
BHI ATCurve Surveys: (5750')(6106'-15498')

TD Projected to MD: 15522'



Job Number:  
 Company: Northeast Natural Energy  
 Lease/Well: Statler 4H  
 Location: Statler  
 Rig Name: Pioneer 59  
 State/County: WV/ Mon  
 Country: US  
 API Number:

Elevation (To MSL): 1160.00 ft  
 RKB: 18.00 ft  
 Projection System: US State Plane 1983  
 Projection Group: West Virginia Northern Zone  
 Projection Datum: GRS80  
 Magnetic Declination: -8.89  
 Grid Convergence: -0.43255 W  
 Date: Tuesday, May 27, 2014



Vertical Section (1000 Ft/Div) VSP: 142.00°

6101658