



Actual Wellpath Report

Statler 7H AWP Proj: 14761'

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REFERENCE WELLPATH IDENTIFICATION

| | | | |
|----------|-------------------------------|----------|----------------|
| Operator | NORTHEAST NATURAL ENERGY, LLC | Slot | Slot #07 |
| Area | Monongalia County, WV | Well | Statler 7H |
| Field | Monongalia | Wellbore | Statler 7H 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 | Edsaryar |
| Scale | 0.999942 | Report Generated | 11/Aug/2015 at 17:35 |
| Convergence at slot | 0.43° West | Database/Source file | WellArchitectEasternDB/Statler_7H_AWB.xml |

WELLPATH LOCATION

| | Local coordinates | | Grid coordinates | | Geographic coordinates | |
|-----------------------|-------------------|----------|------------------|-----------------|------------------------|----------------|
| | North[ft] | East[ft] | Easting[US ft] | Northing[US ft] | Latitude | Longitude |
| Slot Location | 11.25 | -13.51 | 1777672.20 | 440651.90 | 39°42'28.224"N | 80°10'41.864"W |
| Facility Reference Pt | | | 1777685.71 | 440640.65 | 39°42'28.114"N | 80°10'41.690"W |
| Field Reference Pt | | | 1777685.71 | 440640.65 | 39°42'28.114"N | 80°10'41.690"W |

WELLPATH DATUM

| | | | |
|--------------------------|---------------------|--|-------------------|
| Calculation method | Minimum curvature | Patterson 254 (RKB) to Facility Vertical Datum | 24.00ft |
| Horizontal Reference Pt | Slot | Patterson 254 (RKB) to Mean Sea Level | 1086.50ft |
| Vertical Reference Pt | Patterson 254 (RKB) | Patterson 254 (RKB) to Mud Line at Slot (Slot #07) | 24.00ft |
| MD Reference Pt | Patterson 254 (RKB) | Section Origin | N 0.00, E 0.00 ft |
| Field Vertical Reference | Mean Sea Level | Section Azimuth | 331.52° |

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| Area | Monongalia County, WV | Well | Statler 7H |
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WELLPATH DATA (160 stations) † = interpolated/extrapolated station

| MD [ft] | Inclination [°] | Azimuth [°] | TVD [ft] | Vert Sect [ft] | North [ft] | East [ft] | Grid East [US ft] | Grid North [US ft] | Latitude | Longitude | Closure Dist [ft] | Closure Dir [°] | DLS [°/100ft] | Build Rate [°/100ft] | Turn Rate [°/100ft] |
|---------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|----------------|----------------|-------------------|-----------------|---------------|----------------------|---------------------|
| 0.00† | 0.000 | 119.400 | 0.00 | 0.00 | 0.00 | 0.00 | 1777672.20 | 440651.90 | 39°42'28.224"N | 80°10'41.864"W | 0.00 | 0.000 | 0.00 | 0.00 | 0.00 |
| 24.00 | 0.000 | 119.400 | 24.00 | 0.00 | 0.00 | 0.00 | 1777672.20 | 440651.90 | 39°42'28.224"N | 80°10'41.864"W | 0.00 | 0.000 | 0.00 | 0.00 | 0.00 |
| 144.00 | 0.300 | 119.400 | 144.00 | -0.27 | -0.15 | 0.27 | 1777672.47 | 440651.75 | 39°42'28.223"N | 80°10'41.860"W | 0.31 | 119.400 | 0.25 | 0.25 | 0.00 |
| 237.00 | 0.300 | 122.000 | 237.00 | -0.68 | -0.40 | 0.69 | 1777672.89 | 440651.50 | 39°42'28.220"N | 80°10'41.855"W | 0.80 | 120.190 | 0.01 | 0.00 | 2.80 |
| 333.00 | 0.400 | 104.400 | 333.00 | -1.13 | -0.62 | 1.23 | 1777673.43 | 440651.28 | 39°42'28.218"N | 80°10'41.848"W | 1.38 | 116.724 | 0.15 | 0.10 | -18.33 |
| 428.00 | 0.500 | 118.000 | 427.99 | -1.70 | -0.90 | 1.92 | 1777674.12 | 440651.00 | 39°42'28.215"N | 80°10'41.839"W | 2.12 | 115.058 | 0.15 | 0.11 | 14.32 |
| 524.00 | 0.400 | 133.000 | 523.99 | -2.37 | -1.32 | 2.53 | 1777674.73 | 440650.58 | 39°42'28.211"N | 80°10'41.831"W | 2.86 | 117.561 | 0.16 | -0.10 | 15.62 |
| 618.00 | 0.400 | 118.000 | 617.99 | -2.95 | -1.70 | 3.06 | 1777675.26 | 440650.20 | 39°42'28.208"N | 80°10'41.825"W | 3.50 | 119.031 | 0.11 | 0.00 | -15.96 |
| 714.00 | 0.600 | 105.500 | 713.98 | -3.58 | -1.99 | 3.84 | 1777676.04 | 440649.91 | 39°42'28.205"N | 80°10'41.815"W | 4.33 | 117.394 | 0.24 | 0.21 | -13.02 |
| 808.00 | 0.400 | 118.300 | 807.98 | -4.20 | -2.28 | 4.61 | 1777676.80 | 440649.62 | 39°42'28.202"N | 80°10'41.805"W | 5.14 | 116.321 | 0.24 | -0.21 | 13.62 |
| 903.00 | 0.300 | 125.300 | 902.98 | -4.70 | -2.58 | 5.10 | 1777677.30 | 440649.32 | 39°42'28.199"N | 80°10'41.798"W | 5.72 | 116.825 | 0.11 | -0.11 | 7.37 |
| 966.00 | 0.200 | 102.500 | 965.98 | -4.92 | -2.70 | 5.34 | 1777677.54 | 440649.20 | 39°42'28.198"N | 80°10'41.795"W | 5.98 | 116.797 | 0.22 | -0.16 | -36.19 |
| 1059.00 | 0.300 | 110.900 | 1058.98 | -5.21 | -2.82 | 5.73 | 1777677.93 | 440649.08 | 39°42'28.197"N | 80°10'41.790"W | 6.38 | 116.213 | 0.11 | 0.11 | 9.03 |
| 1155.00 | 0.300 | 111.200 | 1154.98 | -5.59 | -3.00 | 6.20 | 1777678.40 | 440648.90 | 39°42'28.195"N | 80°10'41.784"W | 6.89 | 115.836 | 0.00 | 0.00 | 0.31 |
| 1249.00 | 0.200 | 124.700 | 1248.98 | -5.93 | -3.18 | 6.56 | 1777678.76 | 440648.72 | 39°42'28.193"N | 80°10'41.780"W | 7.29 | 115.879 | 0.12 | -0.11 | 14.36 |
| 1344.00 | 0.300 | 152.700 | 1343.97 | -6.32 | -3.50 | 6.81 | 1777679.01 | 440648.40 | 39°42'28.190"N | 80°10'41.776"W | 7.66 | 117.184 | 0.16 | 0.11 | 29.47 |
| 1439.00 | 0.300 | 149.900 | 1438.97 | -6.82 | -3.93 | 7.05 | 1777679.25 | 440647.97 | 39°42'28.186"N | 80°10'41.773"W | 8.07 | 119.164 | 0.02 | 0.00 | -2.95 |
| 1531.00 | 0.300 | 188.200 | 1530.97 | -7.25 | -4.38 | 7.14 | 1777679.34 | 440647.52 | 39°42'28.181"N | 80°10'41.772"W | 8.37 | 121.545 | 0.21 | 0.00 | 41.63 |
| 1625.00 | 0.600 | 224.000 | 1624.97 | -7.60 | -4.98 | 6.76 | 1777678.96 | 440646.92 | 39°42'28.175"N | 80°10'41.777"W | 8.40 | 126.373 | 0.42 | 0.32 | 38.09 |
| 1720.00 | 1.100 | 238.800 | 1719.96 | -7.79 | -5.81 | 5.63 | 1777677.83 | 440646.09 | 39°42'28.167"N | 80°10'41.791"W | 8.09 | 135.874 | 0.57 | 0.53 | 15.58 |
| 1815.00 | 1.200 | 242.600 | 1814.94 | -7.82 | -6.74 | 3.97 | 1777676.17 | 440645.16 | 39°42'28.158"N | 80°10'41.812"W | 7.82 | 149.490 | 0.13 | 0.11 | 4.00 |
| 1910.00 | 1.200 | 233.600 | 1909.92 | -7.94 | -7.79 | 2.29 | 1777674.49 | 440644.11 | 39°42'28.147"N | 80°10'41.834"W | 8.12 | 163.630 | 0.20 | 0.00 | -9.47 |
| 2004.00 | 1.400 | 231.300 | 2003.89 | -8.28 | -9.09 | 0.60 | 1777672.80 | 440642.81 | 39°42'28.134"N | 80°10'41.855"W | 9.11 | 176.229 | 0.22 | 0.21 | -2.45 |
| 2099.00 | 1.600 | 229.000 | 2098.86 | -8.77 | -10.69 | -1.31 | 1777670.89 | 440641.22 | 39°42'28.118"N | 80°10'41.880"W | 10.76 | 186.976 | 0.22 | 0.21 | -2.42 |
| 2210.00 | 1.700 | 213.600 | 2209.82 | -9.88 | -13.07 | -3.39 | 1777668.81 | 440638.83 | 39°42'28.095"N | 80°10'41.906"W | 13.51 | 194.530 | 0.41 | 0.09 | -13.87 |
| 2257.00 | 1.900 | 205.300 | 2256.79 | -10.66 | -14.36 | -4.11 | 1777668.09 | 440637.54 | 39°42'28.082"N | 80°10'41.915"W | 14.93 | 195.962 | 0.70 | 0.43 | -17.66 |
| 2352.00 | 4.200 | 217.100 | 2351.65 | -13.03 | -18.56 | -6.88 | 1777665.32 | 440633.34 | 39°42'28.040"N | 80°10'41.950"W | 19.79 | 200.339 | 2.50 | 2.42 | 12.42 |
| 2447.00 | 9.100 | 225.500 | 2445.99 | -16.55 | -26.60 | -14.34 | 1777657.86 | 440625.30 | 39°42'27.960"N | 80°10'42.045"W | 30.22 | 208.327 | 5.24 | 5.16 | 8.84 |
| 2542.00 | 12.200 | 228.700 | 2539.34 | -20.85 | -38.50 | -27.24 | 1777644.96 | 440613.41 | 39°42'27.842"N | 80°10'42.209"W | 47.16 | 215.286 | 3.32 | 3.26 | 3.37 |
| 2637.00 | 14.100 | 225.900 | 2631.85 | -26.19 | -53.18 | -43.10 | 1777629.11 | 440598.73 | 39°42'27.695"N | 80°10'42.410"W | 68.45 | 219.023 | 2.11 | 2.00 | -2.95 |

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WELLPATH DATA (160 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] |
|---------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|----------------|----------------|-------------------|-----------------|---------------|----------------------|---------------------|
| 2732.00 | 17.400 | 223.600 | 2723.27 | -33.68 | -71.52 | -61.21 | 1777611.00 | 440580.38 | 39°42'27.513"N | 80°10'42.640"W | 94.14 | 220.557 | 3.53 | 3.47 | -2.42 |
| 2827.00 | 16.500 | 215.100 | 2814.15 | -44.05 | -92.85 | -78.76 | 1777593.44 | 440559.06 | 39°42'27.301"N | 80°10'42.863"W | 121.76 | 220.308 | 2.77 | -0.95 | -8.95 |
| 2922.00 | 15.700 | 214.600 | 2905.43 | -55.88 | -114.47 | -93.82 | 1777578.39 | 440537.44 | 39°42'27.086"N | 80°10'43.053"W | 148.00 | 219.339 | 0.85 | -0.84 | -0.53 |
| 3017.00 | 15.900 | 214.100 | 2996.84 | -67.69 | -135.82 | -108.41 | 1777563.79 | 440516.09 | 39°42'26.874"N | 80°10'43.238"W | 173.78 | 218.597 | 0.25 | 0.21 | -0.53 |
| 3112.00 | 15.700 | 214.000 | 3088.25 | -79.62 | -157.25 | -122.90 | 1777549.31 | 440494.66 | 39°42'26.661"N | 80°10'43.421"W | 199.58 | 218.008 | 0.21 | -0.21 | -0.11 |
| 3207.00 | 16.700 | 216.200 | 3179.48 | -91.40 | -178.93 | -138.15 | 1777534.06 | 440472.99 | 39°42'26.446"N | 80°10'43.614"W | 226.05 | 217.671 | 1.23 | 1.05 | 2.32 |
| 3301.00 | 13.800 | 219.300 | 3270.16 | -101.42 | -198.50 | -153.23 | 1777518.98 | 440453.41 | 39°42'26.251"N | 80°10'43.805"W | 250.76 | 217.665 | 3.20 | -3.09 | 3.30 |
| 3396.00 | 11.300 | 222.900 | 3362.88 | -108.67 | -214.09 | -166.74 | 1777505.47 | 440437.82 | 39°42'26.096"N | 80°10'43.977"W | 271.36 | 217.913 | 2.76 | -2.63 | 3.79 |
| 3491.00 | 11.700 | 221.000 | 3455.98 | -115.02 | -228.18 | -179.40 | 1777492.81 | 440423.73 | 39°42'25.956"N | 80°10'44.137"W | 290.26 | 218.175 | 0.58 | 0.42 | -2.00 |
| 3586.00 | 11.900 | 211.100 | 3548.98 | -123.36 | -243.84 | -190.78 | 1777481.43 | 440408.08 | 39°42'25.800"N | 80°10'44.281"W | 309.60 | 218.039 | 2.14 | 0.21 | -10.42 |
| 3680.00 | 11.800 | 221.300 | 3640.98 | -131.59 | -259.36 | -202.13 | 1777470.08 | 440392.56 | 39°42'25.646"N | 80°10'44.425"W | 328.82 | 217.930 | 2.23 | -0.11 | 10.85 |
| 3775.00 | 11.800 | 219.800 | 3733.98 | -138.54 | -274.12 | -214.76 | 1777457.46 | 440377.80 | 39°42'25.499"N | 80°10'44.585"W | 348.23 | 218.077 | 0.32 | 0.00 | -1.58 |
| 3870.00 | 11.800 | 218.600 | 3826.97 | -145.92 | -289.17 | -227.03 | 1777445.18 | 440362.74 | 39°42'25.349"N | 80°10'44.741"W | 367.65 | 218.136 | 0.26 | 0.00 | -1.26 |
| 3965.00 | 13.300 | 220.100 | 3919.70 | -153.69 | -305.12 | -240.13 | 1777432.08 | 440346.79 | 39°42'25.191"N | 80°10'44.907"W | 388.29 | 218.203 | 1.62 | 1.58 | 1.58 |
| 4060.00 | 13.500 | 220.700 | 4012.11 | -161.62 | -321.89 | -254.40 | 1777417.81 | 440330.03 | 39°42'25.024"N | 80°10'45.088"W | 410.29 | 218.321 | 0.26 | 0.21 | 0.63 |
| 4154.00 | 13.200 | 220.400 | 4103.57 | -169.39 | -338.38 | -268.51 | 1777403.70 | 440313.54 | 39°42'24.860"N | 80°10'45.267"W | 431.97 | 218.433 | 0.33 | -0.32 | -0.32 |
| 4249.00 | 14.500 | 222.000 | 4195.81 | -177.27 | -355.48 | -283.50 | 1777388.71 | 440296.44 | 39°42'24.690"N | 80°10'45.457"W | 454.69 | 218.573 | 1.43 | 1.37 | 1.68 |
| 4344.00 | 14.700 | 223.000 | 4287.74 | -185.08 | -373.13 | -299.68 | 1777372.54 | 440278.79 | 39°42'24.514"N | 80°10'45.662"W | 478.58 | 218.770 | 0.34 | 0.21 | 1.05 |
| 4438.00 | 15.000 | 220.000 | 4378.60 | -193.33 | -391.18 | -315.63 | 1777356.58 | 440260.75 | 39°42'24.335"N | 80°10'45.865"W | 502.64 | 218.900 | 0.88 | 0.32 | -3.19 |
| 4532.00 | 15.000 | 219.700 | 4469.40 | -202.31 | -409.85 | -331.22 | 1777341.00 | 440242.07 | 39°42'24.149"N | 80°10'46.062"W | 526.96 | 218.943 | 0.08 | 0.00 | -0.32 |
| 4627.00 | 16.700 | 221.700 | 4560.78 | -211.51 | -429.51 | -348.16 | 1777324.06 | 440222.42 | 39°42'23.954"N | 80°10'46.277"W | 552.89 | 219.028 | 1.88 | 1.79 | 2.11 |
| 4722.00 | 17.200 | 223.000 | 4651.66 | -220.60 | -449.97 | -366.82 | 1777305.40 | 440201.96 | 39°42'23.750"N | 80°10'46.514"W | 580.54 | 219.187 | 0.66 | 0.53 | 1.37 |
| 4817.00 | 16.400 | 219.100 | 4742.60 | -230.18 | -470.65 | -384.86 | 1777287.37 | 440181.28 | 39°42'23.544"N | 80°10'46.743"W | 607.97 | 219.273 | 1.45 | -0.84 | -4.11 |
| 4911.00 | 15.800 | 218.800 | 4832.92 | -240.18 | -490.92 | -401.24 | 1777270.98 | 440161.01 | 39°42'23.343"N | 80°10'46.950"W | 634.04 | 219.260 | 0.64 | -0.64 | -0.32 |
| 5006.00 | 17.000 | 218.600 | 4924.05 | -250.58 | -511.86 | -418.01 | 1777254.21 | 440140.07 | 39°42'23.134"N | 80°10'47.163"W | 660.86 | 219.237 | 1.26 | 1.26 | -0.21 |
| 5101.00 | 16.800 | 219.300 | 5014.95 | -261.18 | -533.33 | -435.37 | 1777236.85 | 440118.60 | 39°42'22.921"N | 80°10'47.383"W | 688.47 | 219.226 | 0.30 | -0.21 | 0.74 |
| 5196.00 | 16.300 | 219.600 | 5106.01 | -271.35 | -554.23 | -452.57 | 1777219.66 | 440097.70 | 39°42'22.713"N | 80°10'47.601"W | 715.53 | 219.234 | 0.53 | -0.53 | 0.32 |
| 5291.00 | 17.000 | 216.100 | 5197.03 | -282.29 | -575.72 | -469.25 | 1777202.98 | 440076.21 | 39°42'22.499"N | 80°10'47.812"W | 742.73 | 219.182 | 1.29 | 0.74 | -3.68 |
| 5385.00 | 17.800 | 217.100 | 5286.73 | -294.13 | -598.29 | -486.01 | 1777186.22 | 440053.65 | 39°42'22.275"N | 80°10'48.024"W | 770.81 | 219.088 | 0.91 | 0.85 | 1.06 |
| 5480.00 | 18.700 | 218.500 | 5376.95 | -306.09 | -621.79 | -504.25 | 1777167.98 | 440030.15 | 39°42'22.042"N | 80°10'48.256"W | 800.56 | 219.041 | 1.05 | 0.95 | 1.47 |

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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] | Build Rate [°/100ft] | Turn Rate [°/100ft] |
|---------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|----------------|----------------|-------------------|-----------------|---------------|----------------------|---------------------|
| 5575.00 | 18.500 | 218.700 | 5466.99 | -317.89 | -645.47 | -523.16 | 1777149.08 | 440006.47 | 39°42'21.806"N | 80°10'48.495"W | 830.86 | 219.025 | 0.22 | -0.21 | 0.21 |
| 5669.00 | 17.700 | 217.800 | 5556.34 | -329.42 | -668.40 | -541.24 | 1777130.99 | 439983.54 | 39°42'21.578"N | 80°10'48.724"W | 860.06 | 218.999 | 0.90 | -0.85 | -0.96 |
| 5764.00 | 17.300 | 218.200 | 5646.94 | -340.82 | -690.91 | -558.83 | 1777113.41 | 439961.03 | 39°42'21.354"N | 80°10'48.947"W | 888.62 | 218.967 | 0.44 | -0.42 | 0.42 |
| 5858.00 | 17.000 | 218.700 | 5736.76 | -351.68 | -712.62 | -576.06 | 1777096.17 | 439939.32 | 39°42'21.139"N | 80°10'49.166"W | 916.34 | 218.951 | 0.36 | -0.32 | 0.53 |
| 5953.00 | 16.600 | 219.700 | 5827.70 | -362.12 | -733.90 | -593.41 | 1777078.82 | 439918.05 | 39°42'20.927"N | 80°10'49.385"W | 943.79 | 218.958 | 0.52 | -0.42 | 1.05 |
| 6048.00 | 17.000 | 218.000 | 5918.65 | -372.70 | -755.28 | -610.63 | 1777061.61 | 439896.66 | 39°42'20.714"N | 80°10'49.604"W | 971.25 | 218.955 | 0.67 | 0.42 | -1.79 |
| 6143.00 | 16.800 | 217.300 | 6009.55 | -383.88 | -777.15 | -627.50 | 1777044.74 | 439874.80 | 39°42'20.497"N | 80°10'49.817"W | 998.86 | 218.919 | 0.30 | -0.21 | -0.74 |
| 6238.00 | 16.400 | 217.400 | 6100.59 | -394.99 | -798.72 | -643.97 | 1777028.27 | 439853.23 | 39°42'20.283"N | 80°10'50.026"W | 1025.99 | 218.877 | 0.42 | -0.42 | 0.11 |
| 6333.00 | 16.300 | 217.200 | 6191.75 | -405.96 | -820.00 | -660.17 | 1777012.07 | 439831.95 | 39°42'20.071"N | 80°10'50.231"W | 1052.72 | 218.837 | 0.12 | -0.11 | -0.21 |
| 6428.00 | 17.700 | 217.800 | 6282.59 | -417.26 | -842.03 | -677.08 | 1776995.16 | 439809.92 | 39°42'19.852"N | 80°10'50.446"W | 1080.49 | 218.803 | 1.49 | 1.47 | 0.63 |
| 6523.00 | 17.900 | 218.700 | 6373.04 | -428.73 | -864.83 | -695.06 | 1776977.18 | 439787.12 | 39°42'19.625"N | 80°10'50.673"W | 1109.53 | 218.789 | 0.36 | 0.21 | 0.95 |
| 6618.00 | 18.100 | 219.500 | 6463.40 | -439.93 | -887.61 | -713.58 | 1776958.66 | 439764.34 | 39°42'19.399"N | 80°10'50.908"W | 1138.88 | 218.797 | 0.33 | 0.21 | 0.84 |
| 6713.00 | 18.600 | 219.300 | 6553.56 | -451.19 | -910.72 | -732.56 | 1776939.68 | 439741.23 | 39°42'19.169"N | 80°10'51.149"W | 1168.79 | 218.812 | 0.53 | 0.53 | -0.21 |
| 6745.00 | 18.840 | 219.520 | 6583.87 | -455.05 | -918.66 | -739.08 | 1776933.16 | 439733.30 | 39°42'19.090"N | 80°10'51.231"W | 1179.06 | 218.817 | 0.78 | 0.75 | 0.69 |
| 6840.00 | 17.450 | 221.150 | 6674.15 | -465.76 | -941.22 | -758.22 | 1776914.03 | 439710.74 | 39°42'18.866"N | 80°10'51.474"W | 1208.63 | 218.854 | 1.56 | -1.46 | 1.72 |
| 6934.00 | 17.450 | 221.150 | 6763.82 | -475.57 | -962.44 | -776.77 | 1776895.48 | 439689.51 | 39°42'18.655"N | 80°10'51.709"W | 1236.80 | 218.906 | 0.00 | 0.00 | 0.00 |
| 7029.00 | 11.670 | 209.030 | 6855.75 | -485.70 | -981.59 | -790.82 | 1776881.43 | 439670.37 | 39°42'18.464"N | 80°10'51.887"W | 1260.52 | 218.857 | 6.85 | -6.08 | -12.76 |
| 7124.00 | 15.310 | 208.320 | 6948.11 | -497.73 | -1001.04 | -801.43 | 1776870.82 | 439650.92 | 39°42'18.271"N | 80°10'52.021"W | 1282.33 | 218.681 | 3.84 | 3.83 | -0.75 |
| 7218.00 | 17.340 | 211.600 | 7038.32 | -511.52 | -1023.90 | -814.66 | 1776857.59 | 439628.06 | 39°42'18.045"N | 80°10'52.188"W | 1308.45 | 218.507 | 2.37 | 2.16 | 3.49 |
| 7313.00 | 19.690 | 213.030 | 7128.40 | -526.21 | -1049.38 | -830.80 | 1776841.45 | 439602.59 | 39°42'17.792"N | 80°10'52.392"W | 1338.44 | 218.369 | 2.52 | 2.47 | 1.51 |
| 7408.00 | 19.490 | 215.500 | 7217.90 | -540.80 | -1075.70 | -848.73 | 1776823.52 | 439576.27 | 39°42'17.530"N | 80°10'52.619"W | 1370.21 | 218.274 | 0.90 | -0.21 | 2.60 |
| 7502.00 | 16.990 | 229.800 | 7307.22 | -550.48 | -1097.34 | -868.34 | 1776803.91 | 439554.62 | 39°42'17.315"N | 80°10'52.868"W | 1399.35 | 218.355 | 5.43 | -2.66 | 15.21 |
| 7597.00 | 16.550 | 268.260 | 7398.45 | -547.20 | -1106.74 | -892.54 | 1776779.72 | 439545.23 | 39°42'17.220"N | 80°10'53.176"W | 1421.79 | 218.885 | 11.49 | -0.46 | 40.48 |
| 7691.00 | 20.660 | 298.430 | 7487.72 | -527.23 | -1099.23 | -920.58 | 1776751.68 | 439552.73 | 39°42'17.292"N | 80°10'53.536"W | 1433.80 | 219.945 | 10.98 | 4.37 | 32.10 |
| 7786.00 | 27.320 | 307.090 | 7574.49 | -493.29 | -1078.08 | -952.75 | 1776719.50 | 439573.89 | 39°42'17.499"N | 80°10'53.950"W | 1438.74 | 221.469 | 7.91 | 7.01 | 9.12 |
| 7881.00 | 37.470 | 309.810 | 7654.61 | -446.47 | -1046.34 | -992.45 | 1776679.81 | 439605.62 | 39°42'17.809"N | 80°10'54.461"W | 1442.15 | 223.486 | 10.79 | 10.68 | 2.86 |
| 7975.00 | 43.810 | 313.530 | 7725.91 | -388.89 | -1005.58 | -1038.05 | 1776634.21 | 439646.38 | 39°42'18.209"N | 80°10'55.048"W | 1445.25 | 225.910 | 7.22 | 6.74 | 3.96 |
| 8070.00 | 52.140 | 315.630 | 7789.46 | -321.42 | -956.03 | -1088.21 | 1776584.06 | 439695.92 | 39°42'18.695"N | 80°10'55.695"W | 1448.52 | 228.699 | 8.92 | 8.77 | 2.21 |
| 8165.00 | 63.920 | 317.490 | 7839.67 | -243.69 | -897.57 | -1143.46 | 1776528.81 | 439754.39 | 39°42'19.268"N | 80°10'56.407"W | 1453.66 | 231.870 | 12.51 | 12.40 | 1.96 |
| 8259.00 | 74.250 | 321.080 | 7873.19 | -157.99 | -831.06 | -1200.58 | 1776471.70 | 439820.89 | 39°42'19.921"N | 80°10'57.144"W | 1460.15 | 235.308 | 11.55 | 10.99 | 3.82 |

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Actual Wellpath Report

Statler 7H AWP Proj: 14761'
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REFERENCE WELLPATH IDENTIFICATION

| | | | |
|----------|-------------------------------|----------|----------------|
| Operator | NORTHEAST NATURAL ENERGY, LLC | Slot | Slot #07 |
| Area | Monongalia County, WV | Well | Statler 7H |
| Field | Monongalia | Wellbore | Statler 7H AWB |
| Facility | Statler | | |

WELLPATH DATA (160 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] |
|----------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|----------------|----------------|-------------------|-----------------|---------------|----------------------|---------------------|
| 8354.00 | 83.280 | 326.640 | 7891.70 | -65.76 | -755.87 | -1255.39 | 1776416.88 | 439896.07 | 39°42'20.660"N | 80°10'57.853"W | 1465.39 | 238.948 | 11.10 | 9.51 | 5.85 |
| 8448.00 | 83.490 | 328.650 | 7902.53 | 27.39 | -677.00 | -1305.36 | 1776366.92 | 439974.94 | 39°42'21.436"N | 80°10'58.500"W | 1470.47 | 242.587 | 2.14 | 0.22 | 2.14 |
| 8543.00 | 85.810 | 330.630 | 7911.39 | 121.92 | -595.39 | -1353.16 | 1776319.12 | 440056.54 | 39°42'22.239"N | 80°10'59.120"W | 1478.35 | 246.250 | 3.20 | 2.44 | 2.08 |
| 8638.00 | 89.940 | 332.850 | 7914.91 | 216.82 | -511.80 | -1398.09 | 1776274.19 | 440140.14 | 39°42'23.062"N | 80°10'59.703"W | 1488.82 | 249.894 | 4.93 | 4.35 | 2.34 |
| 8732.00 | 89.380 | 337.250 | 7915.47 | 310.62 | -426.59 | -1437.73 | 1776234.55 | 440225.34 | 39°42'23.901"N | 80°11'00.218"W | 1499.69 | 253.474 | 4.72 | -0.60 | 4.68 |
| 8827.00 | 90.000 | 340.210 | 7915.98 | 404.86 | -338.07 | -1472.19 | 1776200.10 | 440313.85 | 39°42'24.773"N | 80°11'00.668"W | 1510.51 | 257.067 | 3.18 | 0.65 | 3.12 |
| 8922.00 | 86.580 | 339.050 | 7918.81 | 498.85 | -249.07 | -1505.24 | 1776167.05 | 440402.85 | 39°42'25.650"N | 80°11'01.099"W | 1525.71 | 260.605 | 3.80 | -3.60 | -1.22 |
| 9017.00 | 89.380 | 336.480 | 7922.16 | 593.21 | -161.20 | -1541.16 | 1776131.13 | 440490.71 | 39°42'26.516"N | 80°11'01.567"W | 1549.57 | 264.029 | 4.00 | 2.95 | -2.71 |
| 9111.00 | 89.780 | 335.230 | 7922.85 | 686.94 | -75.43 | -1579.61 | 1776092.69 | 440576.47 | 39°42'27.360"N | 80°11'02.068"W | 1581.41 | 267.266 | 1.40 | 0.43 | -1.33 |
| 9206.00 | 90.400 | 334.800 | 7922.70 | 781.76 | 10.68 | -1619.73 | 1776052.56 | 440662.58 | 39°42'28.208"N | 80°11'02.589"W | 1619.77 | 270.378 | 0.79 | 0.65 | -0.45 |
| 9301.00 | 90.060 | 330.710 | 7922.32 | 876.72 | 95.12 | -1663.22 | 1776009.08 | 440747.01 | 39°42'29.040"N | 80°11'03.154"W | 1665.93 | 273.273 | 4.32 | -0.36 | -4.31 |
| 9395.00 | 90.800 | 327.670 | 7921.62 | 970.62 | 175.84 | -1711.35 | 1775960.95 | 440827.73 | 39°42'29.834"N | 80°11'03.778"W | 1720.36 | 275.867 | 3.33 | 0.79 | -3.23 |
| 9489.00 | 91.350 | 327.750 | 7919.85 | 1064.40 | 255.29 | -1761.56 | 1775910.75 | 440907.17 | 39°42'30.615"N | 80°11'04.428"W | 1779.96 | 278.246 | 0.59 | 0.59 | 0.09 |
| 9583.00 | 91.480 | 327.360 | 7917.53 | 1158.14 | 334.59 | -1811.97 | 1775860.33 | 440986.47 | 39°42'31.395"N | 80°11'05.081"W | 1842.61 | 280.462 | 0.44 | 0.14 | -0.41 |
| 9678.00 | 91.350 | 328.210 | 7915.18 | 1252.91 | 414.94 | -1862.60 | 1775809.71 | 441066.82 | 39°42'32.185"N | 80°11'05.736"W | 1908.26 | 282.559 | 0.90 | -0.14 | 0.89 |
| 9773.00 | 90.950 | 328.110 | 7913.28 | 1347.73 | 495.63 | -1912.71 | 1775759.60 | 441147.50 | 39°42'32.979"N | 80°11'06.385"W | 1975.88 | 284.527 | 0.43 | -0.42 | -0.11 |
| 9868.00 | 90.860 | 326.370 | 7911.78 | 1442.45 | 575.51 | -1964.11 | 1775708.21 | 441227.37 | 39°42'33.764"N | 80°11'07.051"W | 2046.69 | 286.331 | 1.83 | -0.09 | -1.83 |
| 9963.00 | 89.850 | 322.400 | 7911.19 | 1536.69 | 652.72 | -2019.42 | 1775652.90 | 441304.58 | 39°42'34.523"N | 80°11'07.766"W | 2122.28 | 287.912 | 4.31 | -1.06 | -4.18 |
| 10057.00 | 89.570 | 321.070 | 7911.66 | 1629.32 | 726.52 | -2077.63 | 1775594.70 | 441378.38 | 39°42'35.248"N | 80°11'08.518"W | 2200.99 | 289.274 | 1.45 | -0.30 | -1.41 |
| 10152.00 | 88.770 | 323.790 | 7913.04 | 1723.11 | 801.80 | -2135.54 | 1775536.79 | 441453.65 | 39°42'35.988"N | 80°11'09.266"W | 2281.10 | 290.579 | 2.98 | -0.84 | 2.86 |
| 10247.00 | 89.940 | 327.280 | 7914.11 | 1817.57 | 880.11 | -2189.29 | 1775483.04 | 441531.96 | 39°42'36.758"N | 80°11'09.962"W | 2359.57 | 291.900 | 3.87 | 1.23 | 3.67 |
| 10342.00 | 89.850 | 330.490 | 7914.28 | 1912.46 | 961.43 | -2238.38 | 1775433.96 | 441613.27 | 39°42'37.558"N | 80°11'10.598"W | 2436.12 | 293.245 | 3.38 | -0.09 | 3.38 |
| 10437.00 | 89.910 | 334.060 | 7914.48 | 2007.43 | 1045.51 | -2282.56 | 1775389.77 | 441697.35 | 39°42'38.385"N | 80°11'11.171"W | 2510.62 | 294.610 | 3.76 | 0.06 | 3.76 |
| 10531.00 | 89.970 | 334.820 | 7914.58 | 2101.31 | 1130.31 | -2323.12 | 1775349.22 | 441782.14 | 39°42'39.220"N | 80°11'11.699"W | 2583.50 | 295.945 | 0.81 | 0.06 | 0.81 |
| 10625.00 | 89.570 | 335.320 | 7914.96 | 2195.13 | 1215.55 | -2362.74 | 1775309.60 | 441867.38 | 39°42'40.059"N | 80°11'12.214"W | 2657.09 | 297.224 | 0.68 | -0.43 | 0.53 |
| 10720.00 | 89.540 | 336.220 | 7915.70 | 2289.86 | 1302.18 | -2401.73 | 1775270.62 | 441954.00 | 39°42'40.913"N | 80°11'12.721"W | 2732.03 | 298.466 | 0.95 | -0.03 | 0.95 |
| 10816.00 | 89.110 | 334.940 | 7916.83 | 2385.61 | 1389.58 | -2441.41 | 1775230.93 | 442041.40 | 39°42'41.773"N | 80°11'13.238"W | 2809.17 | 299.647 | 1.41 | -0.45 | -1.33 |
| 10910.00 | 89.690 | 335.180 | 7917.81 | 2479.43 | 1474.81 | -2481.05 | 1775191.30 | 442126.62 | 39°42'42.613"N | 80°11'13.753"W | 2886.29 | 300.729 | 0.67 | 0.62 | 0.26 |
| 11005.00 | 89.820 | 333.310 | 7918.22 | 2574.32 | 1560.37 | -2522.33 | 1775150.03 | 442212.18 | 39°42'43.455"N | 80°11'14.290"W | 2965.95 | 301.742 | 1.97 | 0.14 | -1.97 |
| 11099.00 | 90.180 | 329.270 | 7918.22 | 2668.30 | 1642.80 | -2567.47 | 1775104.88 | 442294.60 | 39°42'44.266"N | 80°11'14.875"W | 3048.06 | 302.613 | 4.31 | 0.38 | -4.30 |

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Actual Wellpath Report

Statler 7H AWP Proj: 14761'
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| REFERENCE WELLPATH IDENTIFICATION | | | |
|-----------------------------------|-------------------------------|----------|----------------|
| Operator | NORTHEAST NATURAL ENERGY, LLC | Slot | Slot #07 |
| Area | Monongalia County, WV | Well | Statler 7H |
| Field | Monongalia | Wellbore | Statler 7H AWB |
| Facility | Statler | | |

WELLPATH DATA (160 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] |
|----------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|----------------|----------------|-------------------|-----------------|---------------|----------------------|---------------------|
| 11194.00 | 90.220 | 326.460 | 7917.89 | 2763.09 | 1723.23 | -2618.00 | 1775054.36 | 442375.03 | 39°42'45.057"N | 80°11'15.530"W | 3134.24 | 303.354 | 2.96 | 0.04 | -2.96 |
| 11289.00 | 90.800 | 326.940 | 7917.04 | 2857.75 | 1802.63 | -2670.15 | 1775002.21 | 442454.42 | 39°42'45.838"N | 80°11'16.205"W | 3221.68 | 304.023 | 0.79 | 0.61 | 0.51 |
| 11384.00 | 90.860 | 330.080 | 7915.67 | 2952.60 | 1883.62 | -2719.77 | 1774952.60 | 442535.41 | 39°42'46.635"N | 80°11'16.848"W | 3308.35 | 304.705 | 3.31 | 0.06 | 3.31 |
| 11478.00 | 90.920 | 331.300 | 7914.21 | 3046.58 | 1965.58 | -2765.78 | 1774906.59 | 442617.36 | 39°42'47.441"N | 80°11'17.444"W | 3393.08 | 305.401 | 1.30 | 0.06 | 1.30 |
| 11573.00 | 91.260 | 330.840 | 7912.40 | 3141.56 | 2048.71 | -2811.72 | 1774860.65 | 442700.48 | 39°42'48.259"N | 80°11'18.040"W | 3478.93 | 306.078 | 0.60 | 0.36 | -0.48 |
| 11667.00 | 89.880 | 331.510 | 7911.46 | 3235.55 | 2131.05 | -2857.04 | 1774815.33 | 442782.83 | 39°42'49.070"N | 80°11'18.628"W | 3564.28 | 306.719 | 1.63 | -1.47 | 0.71 |
| 11762.00 | 89.970 | 333.280 | 7911.59 | 3330.53 | 2215.24 | -2901.06 | 1774771.32 | 442867.00 | 39°42'49.898"N | 80°11'19.200"W | 3650.12 | 307.365 | 1.87 | 0.09 | 1.86 |
| 11856.00 | 89.910 | 336.040 | 7911.69 | 3424.38 | 2300.18 | -2941.29 | 1774731.09 | 442951.94 | 39°42'50.735"N | 80°11'19.723"W | 3733.90 | 308.027 | 2.94 | -0.06 | 2.94 |
| 11951.00 | 89.850 | 337.430 | 7911.88 | 3518.99 | 2387.46 | -2978.81 | 1774693.57 | 443039.21 | 39°42'51.594"N | 80°11'20.212"W | 3817.49 | 308.711 | 1.46 | -0.06 | 1.46 |
| 12044.00 | 90.000 | 337.300 | 7912.01 | 3611.50 | 2473.29 | -3014.60 | 1774657.78 | 443125.04 | 39°42'52.440"N | 80°11'20.678"W | 3899.36 | 309.367 | 0.21 | 0.16 | -0.14 |
| 12139.00 | 89.940 | 335.100 | 7912.06 | 3706.18 | 2560.21 | -3052.93 | 1774619.45 | 443211.95 | 39°42'53.296"N | 80°11'21.177"W | 3984.35 | 309.983 | 2.32 | -0.06 | -2.32 |
| 12233.00 | 90.000 | 332.580 | 7912.11 | 3800.09 | 2644.57 | -3094.37 | 1774578.01 | 443296.31 | 39°42'54.126"N | 80°11'21.716"W | 4070.49 | 310.519 | 2.68 | 0.06 | -2.68 |
| 12328.00 | 90.060 | 333.360 | 7912.06 | 3895.06 | 2729.20 | -3137.55 | 1774534.84 | 443380.93 | 39°42'54.959"N | 80°11'22.277"W | 4158.45 | 311.018 | 0.82 | 0.06 | 0.82 |
| 12422.00 | 89.940 | 330.870 | 7912.06 | 3989.05 | 2812.27 | -3181.51 | 1774490.89 | 443464.00 | 39°42'55.777"N | 80°11'22.847"W | 4246.28 | 311.475 | 2.65 | -0.13 | -2.65 |
| 12517.00 | 90.060 | 333.810 | 7912.06 | 4084.03 | 2896.41 | -3225.60 | 1774446.79 | 443548.13 | 39°42'56.605"N | 80°11'23.420"W | 4335.17 | 311.922 | 3.10 | 0.13 | 3.09 |
| 12611.00 | 90.060 | 335.250 | 7911.96 | 4177.90 | 2981.27 | -3266.03 | 1774406.37 | 443632.99 | 39°42'57.441"N | 80°11'23.945"W | 4422.09 | 312.390 | 1.53 | 0.00 | 1.53 |
| 12707.00 | 90.370 | 334.740 | 7911.60 | 4273.72 | 3068.27 | -3306.60 | 1774365.80 | 443719.99 | 39°42'58.298"N | 80°11'24.473"W | 4510.87 | 312.859 | 0.62 | 0.32 | -0.53 |
| 12801.00 | 90.340 | 334.940 | 7911.01 | 4367.56 | 3153.35 | -3346.57 | 1774325.83 | 443805.06 | 39°42'59.135"N | 80°11'24.993"W | 4598.17 | 313.297 | 0.22 | -0.03 | 0.21 |
| 12895.00 | 90.400 | 332.840 | 7910.41 | 4461.47 | 3237.75 | -3387.93 | 1774284.47 | 443889.46 | 39°42'59.966"N | 80°11'25.531"W | 4686.27 | 313.702 | 2.23 | 0.06 | -2.23 |
| 12990.00 | 90.430 | 330.710 | 7909.72 | 4556.46 | 3321.45 | -3432.86 | 1774239.55 | 443973.15 | 39°43'00.790"N | 80°11'26.114"W | 4776.67 | 314.055 | 2.24 | 0.03 | -2.24 |
| 13085.00 | 91.020 | 330.630 | 7908.52 | 4651.45 | 3404.26 | -3479.39 | 1774193.02 | 444055.96 | 39°43'01.605"N | 80°11'26.717"W | 4867.77 | 314.375 | 0.63 | 0.62 | -0.08 |
| 13180.00 | 90.460 | 329.060 | 7907.29 | 4746.39 | 3486.40 | -3527.11 | 1774145.31 | 444138.09 | 39°43'02.413"N | 80°11'27.336"W | 4959.38 | 314.667 | 1.75 | -0.59 | -1.65 |
| 13275.00 | 90.740 | 327.190 | 7906.30 | 4841.22 | 3567.06 | -3577.27 | 1774095.15 | 444218.75 | 39°43'03.206"N | 80°11'27.986"W | 5051.81 | 314.918 | 1.99 | 0.29 | -1.97 |
| 13370.00 | 90.580 | 329.090 | 7905.20 | 4936.04 | 3647.74 | -3627.41 | 1774045.01 | 444299.42 | 39°43'04.000"N | 80°11'28.635"W | 5144.33 | 315.160 | 2.01 | -0.17 | 2.00 |
| 13465.00 | 90.650 | 330.010 | 7904.18 | 5030.98 | 3729.63 | -3675.55 | 1773996.87 | 444381.31 | 39°43'04.805"N | 80°11'29.259"W | 5236.39 | 315.418 | 0.97 | 0.07 | 0.97 |
| 13560.00 | 90.590 | 332.190 | 7903.15 | 5125.97 | 3812.79 | -3721.45 | 1773950.97 | 444464.46 | 39°43'05.624"N | 80°11'29.855"W | 5327.91 | 315.695 | 2.30 | -0.06 | 2.29 |
| 13655.00 | 90.680 | 331.940 | 7902.10 | 5220.96 | 3896.72 | -3765.96 | 1773906.47 | 444548.38 | 39°43'06.450"N | 80°11'30.433"W | 5419.12 | 315.978 | 0.28 | 0.09 | -0.26 |
| 13749.00 | 90.520 | 330.090 | 7901.12 | 5314.94 | 3978.94 | -3811.50 | 1773860.93 | 444630.60 | 39°43'07.259"N | 80°11'31.024"W | 5509.94 | 316.231 | 1.98 | -0.17 | -1.97 |
| 13844.00 | 90.710 | 329.120 | 7900.10 | 5409.88 | 4060.87 | -3859.56 | 1773812.87 | 444712.53 | 39°43'08.065"N | 80°11'31.647"W | 5602.40 | 316.456 | 1.04 | 0.20 | -1.02 |
| 13938.00 | 90.520 | 325.880 | 7899.09 | 5503.63 | 4140.14 | -3910.06 | 1773762.37 | 444791.79 | 39°43'08.844"N | 80°11'32.301"W | 5694.67 | 316.637 | 3.45 | -0.20 | -3.45 |

Office of Oil & Gas

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Actual Wellpath Report

Statler 7H AWP Proj: 14761'

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REFERENCE WELLPATH IDENTIFICATION

| | | | |
|----------|-------------------------------|----------|----------------|
| Operator | NORTHEAST NATURAL ENERGY, LLC | Slot | Slot #07 |
| Area | Monongalia County, WV | Well | Statler 7H |
| Field | Monongalia | Wellbore | Statler 7H AWB |
| Facility | Statler | | |

WELLPATH DATA (160 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] |
|----------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|----------------|----------------|-------------------|-----------------|---------------|----------------------|---------------------|
| 14033.00 | 90.400 | 325.440 | 7898.32 | 5598.13 | 4218.58 | -3963.65 | 1773708.79 | 444870.22 | 39°43'09.615"N | 80°11'32.994"W | 5788.51 | 316.785 | 0.48 | -0.13 | -0.46 |
| 14127.00 | 90.310 | 325.310 | 7897.74 | 5691.59 | 4295.93 | -4017.06 | 1773655.38 | 444947.57 | 39°43'10.376"N | 80°11'33.686"W | 5881.48 | 316.921 | 0.17 | -0.10 | -0.14 |
| 14221.00 | 90.520 | 326.830 | 7897.06 | 5785.16 | 4373.92 | -4069.53 | 1773602.92 | 445025.55 | 39°43'11.143"N | 80°11'34.365"W | 5974.29 | 317.065 | 1.63 | 0.22 | 1.62 |
| 14316.00 | 90.370 | 330.350 | 7896.32 | 5880.02 | 4454.98 | -4119.03 | 1773553.42 | 445106.61 | 39°43'11.940"N | 80°11'35.006"W | 6067.39 | 317.244 | 3.71 | -0.16 | 3.71 |
| 14410.00 | 90.550 | 330.610 | 7895.57 | 5974.00 | 4536.77 | -4165.34 | 1773507.11 | 445188.40 | 39°43'12.745"N | 80°11'35.607"W | 6158.93 | 317.444 | 0.34 | 0.19 | 0.28 |
| 14505.00 | 90.400 | 335.230 | 7894.78 | 6068.94 | 4621.33 | -4208.57 | 1773463.88 | 445272.96 | 39°43'13.577"N | 80°11'36.169"W | 6250.51 | 317.676 | 4.87 | -0.16 | 4.86 |
| 14600.00 | 90.520 | 335.980 | 7894.02 | 6163.70 | 4707.85 | -4247.81 | 1773424.65 | 445359.46 | 39°43'14.429"N | 80°11'36.679"W | 6340.96 | 317.941 | 0.80 | 0.13 | 0.79 |
| 14695.00 | 90.340 | 335.510 | 7893.30 | 6258.44 | 4794.46 | -4286.84 | 1773385.62 | 445446.07 | 39°43'15.282"N | 80°11'37.187"W | 6431.47 | 318.199 | 0.53 | -0.19 | -0.49 |
| 14737.00 | 90.860 | 335.510 | 7892.86 | 6300.33 | 4832.68 | -4304.24 | 1773368.21 | 445484.29 | 39°43'15.658"N | 80°11'37.414"W | 6471.58 | 318.310 | 1.24 | 1.24 | 0.00 |
| 14761.00 | 90.860 | 335.510 | 7892.50 | 6324.27 | 4854.52 | -4314.19 | 1773358.27 | 445506.12 | 39°43'15.873"N | 80°11'37.543"W | 6494.50 | 318.373 | 0.00 | 0.00 | 0.00 |

TARGETS

| Name | MD [ft] | TVD [ft] | North [ft] | East [ft] | Grid East [US ft] | Grid North [US ft] | Latitude | Longitude | Shape |
|----------------------|---------|----------|------------|-----------|-------------------|--------------------|----------------|----------------|-------|
| Statler 7H BHL Rev-2 | | 7880.00 | 4860.69 | -4303.86 | 1773368.60 | 445512.30 | 39°43'15.935"N | 80°11'37.412"W | point |
| Statler 7H LP Rev-2 | | 7880.00 | -676.14 | -1300.08 | 1776372.20 | 439975.80 | 39°42'21.445"N | 80°10'58.433"W | point |

WELLPATH COMPOSITION - Ref Wellbore: Statler 7H AWB Ref Wellpath: Statler 7H AWP Proj: 14761'

| Start MD [ft] | End MD [ft] | Positional Uncertainty Model | Log Name/Comment | Wellbore |
|---------------|-------------|----------------------------------|--|----------------|
| 24.00 | 6713.00 | ISCWSA MWD, Rev. 2 (Standard) | 01_Crescent MWD <8-3/4"> (134'-6703') | Statler 7H AWB |
| 6713.00 | 14737.00 | NaviTrak (AT Curve Short Spaced) | 02_BHI AT Curve <8-1/2"> (6713')(6745'-14737') | Statler 7H AWB |
| 14737.00 | 14761.00 | Blind Drilling (std) | Projection to bit | Statler 7H AWB |

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FEB 26 2016



Actual Wellpath Report

Statler 7H AWP Proj: 14761'
Page 8 of 8



| REFERENCE WELLPATH IDENTIFICATION | | | |
|-----------------------------------|-------------------------------|----------|----------------|
| Operator | NORTHEAST NATURAL ENERGY, LLC | Slot | Slot #07 |
| Area | Monongalia County, WV | Well | Statler 7H |
| Field | Monongalia | Wellbore | Statler 7H AWB |
| Facility | Statler | | |

| COMMENTS |
|---|
| Wellpath general comments API: 47-061-01697-0000 BHI Job #: 7402765 Rig: Patterson 254 Duration: 8/3/2015-8/8/2015 Crescent MWD <8-3/4"> (134'-6703') BHI AT Curve <8-1/2"> (6713')(6745'-14737') Projected MD at TD: 14761' |

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Office of Oil & Gas
FEB 26 2016

NORTHEAST NATURAL ENERGY, LLC

Location: Monongalia County, WV
 Field: Monongalia
 Facility: Statler

Slot: Slot #07
 Well: Statler 7H
 Wellbore: Statler 7H PWB

Plot reference wellbore is Statler 7H PWB Rev-A-0

True vertical depths are referenced to Patterson 254 (RKB) | Grid System: NAD83 / Lambert West Virginia SP, Northern Zone (4701), US feet

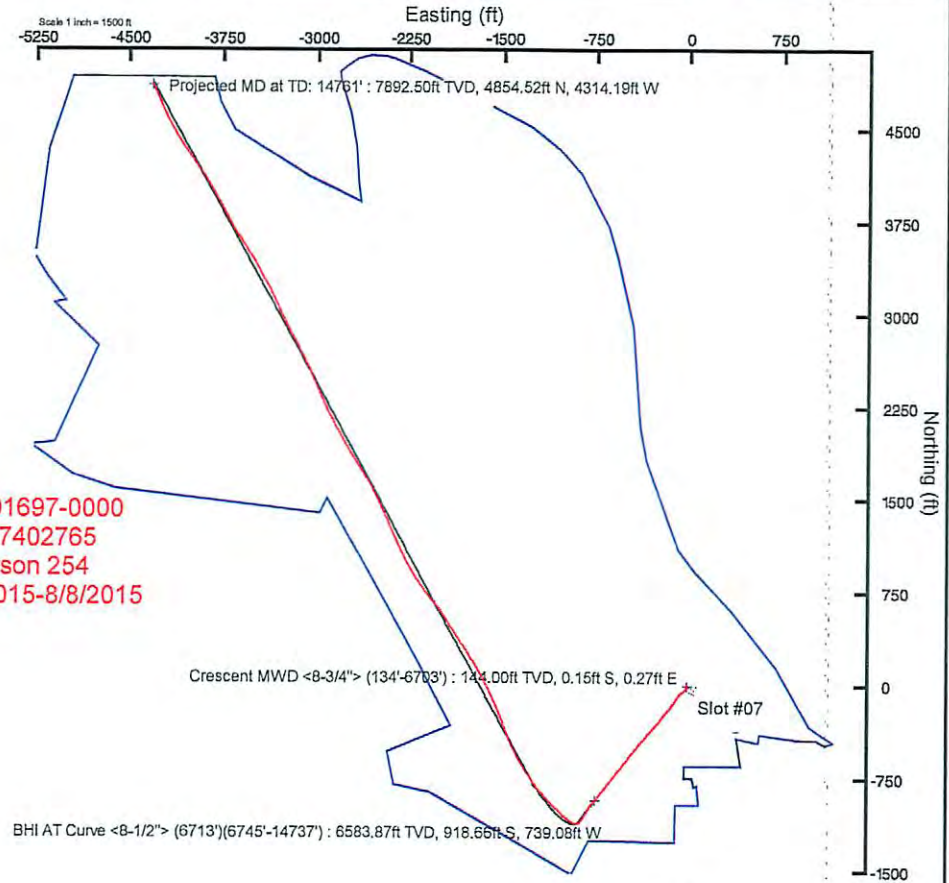
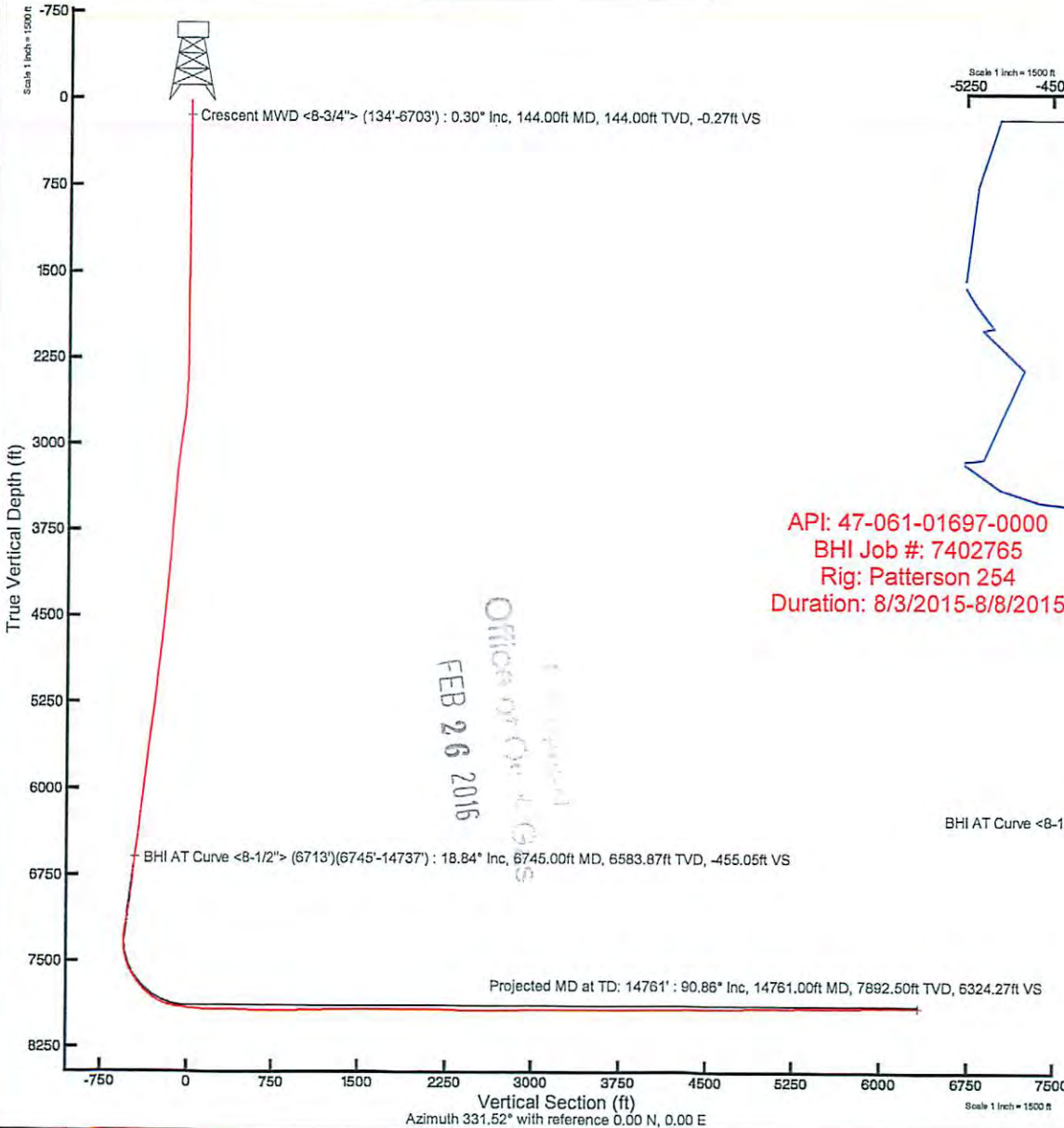
Measured depths are referenced to Patterson 254 (RKB) | North Reference: Grid north

Patterson 254 (RKB) to Mean Sea Level: 1086.5 feet | Scale: True distance

Mean Sea Level to Mud line (At Slot: Slot #07): -1082.5 feet | Depths are in feet

Coordinates are in feet referenced to Stat | Created by: edcaryer on 11/Aug/2015

| Location Information | | | | | |
|---|--------------|-------------------|--------------------|--------------------|----------------|
| Facility Name | | Grid East (US ft) | Grid North (US ft) | Latitude | Longitude |
| Statler | | 1777685.710 | 440640.650 | 39°42'28.114"N | 80°10'41.690"W |
| Slot | Local N (ft) | Local E (ft) | Grid East (US ft) | Grid North (US ft) | Latitude |
| Slot #07 | 11.25 | -13.51 | 1777672.200 | 440651.800 | 39°42'28.224"N |
| Patterson 254 (RKB) to Mud line (At Slot: Slot #07) | | | | 24ft | |
| Mean Sea Level to Mud line (At Slot: Slot #07) | | | | -1082.5ft | |
| Patterson 254 (RKB) to Mean Sea Level | | | | 1086.5ft | |



API: 47-061-01697-0000
 BHI Job #: 7402765
 Rig: Patterson 254
 Duration: 8/3/2015-8/8/2015

Office of Operations
 FEB 26 2015



BGGM (1945.0 to 2017.0) Dip: 66.99° Field: 52299.7 nT
 Magnetic North is 9.01 degrees West of True North (at 31/Jul/2015)
 Grid North is 0.43 degrees West of True North
 To correct azimuth from True to Grid add 0.43 degrees
 To correct azimuth from Magnetic to Grid subtract 8.58 degrees