

# NORTHEAST NATURAL ENERGY, LLC

Location: Monongalia County, WV  
Field: Monongalia  
Facility: Dolls Run Pad

Slot: Slot #9H  
Well: Dolls Run 9H  
Wellbore: Dolls Run 9H PWB

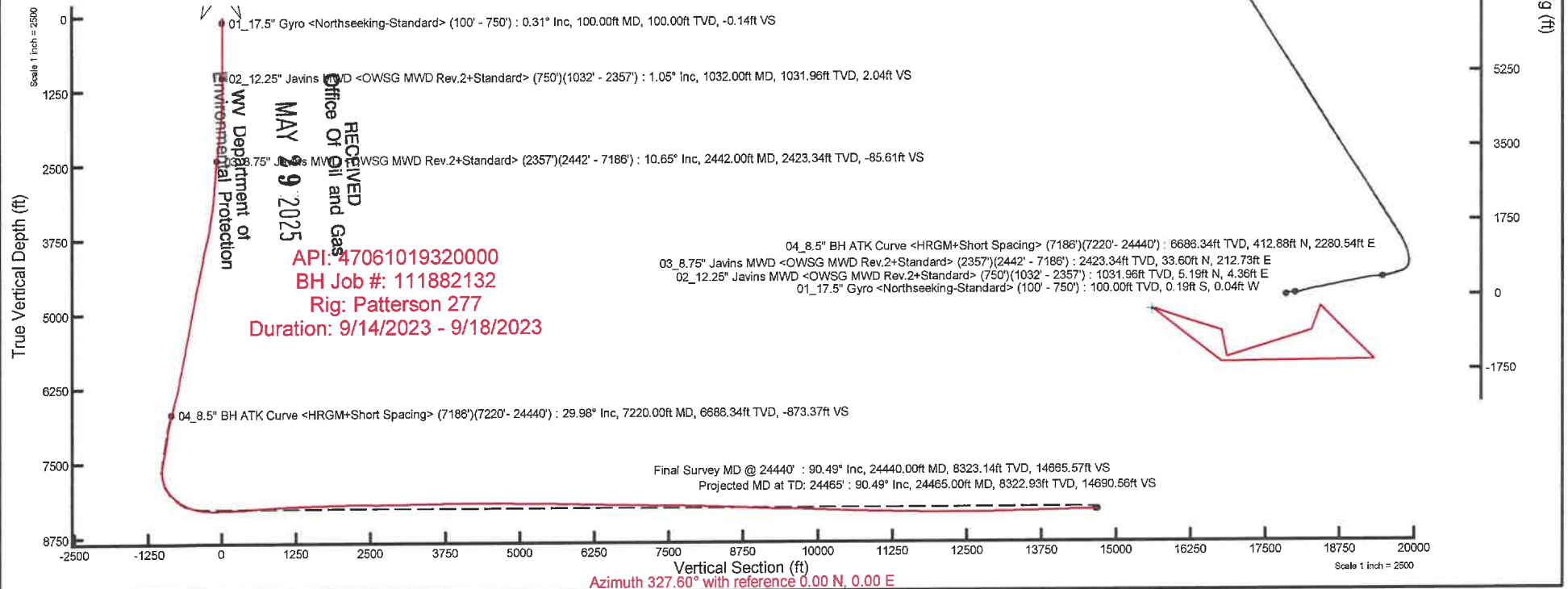


|                                                                           |                                                                            |
|---------------------------------------------------------------------------|----------------------------------------------------------------------------|
| Plot reference well path is Dolls Run 9H Rev-A.0                          | Old System: NAD83 / Lambert West Virginia SP, Northern Zone (4731) US feet |
| True vertical depths are referenced to Patterson 277 (RKB)                | North Reference: Grid north                                                |
| Reference well path measured depths are referenced to Patterson 277 (RKB) | Scale: True distance                                                       |
| Patterson 277 (RKB) to Mean Sea Level: 1550 feet                          | Coordinates are in feet referenced to Slot                                 |
| Mean Sea Level to Ground level (At Slot: Slot #9H) : -1522 feet           | Depths are in feet                                                         |
| Official well path MDs are referenced to each path's depth MD datum       | Created by: mjanjuly on 2023-09-20 Database: WVA_WELL_EASTERNUS_Delta      |

| Location Information                                    |                   |                    |                   |                    |
|---------------------------------------------------------|-------------------|--------------------|-------------------|--------------------|
| Facility Name                                           | Grid East (US ft) | Grid North (US ft) | Latitude          | Longitude          |
| Dolls Run Pad                                           | 1801477.970       | 417816.940         | 39°38'44.2060"N   | 80°05'35.3217"W    |
| Slot                                                    | Local N (ft)      | Local E (ft)       | Grid East (US ft) | Grid North (US ft) |
| Slot #9H                                                | 79.04             | 12.32              | 1801490.290       | 417895.960         |
| Patterson 277 (RKB) to Ground level (At Slot: Slot #9H) |                   |                    |                   | 28ft               |
| Mean Sea Level to Ground level (At Slot: Slot #9H)      |                   |                    |                   | -1522ft            |
| Patterson 277 (RKB) to Mean Sea Level                   |                   |                    |                   | 1550ft             |

| Well Profile Data           |          |         |         |          |              |              |               |
|-----------------------------|----------|---------|---------|----------|--------------|--------------|---------------|
| Design Comment              | MD (ft)  | Inc (°) | Az (°)  | TVD (ft) | Local N (ft) | Local E (ft) | DLS (°/100ft) |
| Tie On                      | 7186.00  | 30.420  | 84.880  | 6696.95  | 411.17       | 2283.52      | 1.48          |
| Projection                  | 7347.00  | 30.420  | 84.880  | 6796.79  | 418.87       | 2344.68      | 0.00          |
| End Drop/Turn/Start Tangent | 7555.40  | 29.008  | 72.447  | 7063.88  | 446.82       | 2483.84      | 2.00          |
| Curve KOP                   | 8234.46  | 29.008  | 72.447  | 7570.30  | 533.51       | 2761.55      | 0.00          |
| Landing Pt                  | 9448.68  | 90.000  | 327.599 | 8280.00  | 1337.33      | 2701.69      | 8.00          |
| BH-L                        | 74458.51 | 90.000  | 327.599 | 8280.00  | 14010.37     | -5341.05     | 0.00          |

| Well Data |              |                  |                              |
|-----------|--------------|------------------|------------------------------|
| Slot      | Well         | Wellbore         | Wellpath                     |
| Slot #9H  | Dolls Run 9H | Dolls Run 9H AWB | Dolls Run 9H AWP Proj: 24465 |
| Slot #9H  | Dolls Run 9H | Dolls Run 9H PWB | Dolls Run 9H Rev-A.0         |





# Actual Wellpath Report

Dolls Run 9H AWP Proj: 24465'

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## REFERENCE WELLPATH IDENTIFICATION

|          |                               |           |                  |
|----------|-------------------------------|-----------|------------------|
| Operator | NORTHEAST NATURAL ENERGY, LLC | Well      | Dolls Run 9H     |
| Field    | Monongalia                    | API/Legal |                  |
| Facility | Dolls Run Pad                 | Wellbore  | Dolls Run 9H AWB |
| Slot     | Slot #9H                      |           |                  |

## REPORT SETUP INFORMATION

|                     |                                                                 |                  |                         |
|---------------------|-----------------------------------------------------------------|------------------|-------------------------|
| Projection System   | NAD83 / Lambert West Virginia SP, Northern Zone (4701), US feet | Software System  | WellArchitect® 6.0      |
| North Reference     | Grid                                                            | User             | Manajohj                |
| Scale               | 0.999941                                                        | Report Generated | 9/20/2023 at 1:11:46 PM |
| Convergence at slot | 0.38° West                                                      | Database         | WA_MPL_EASTERNUS_Defn   |

## WELLPATH LOCATION

|                       | Local coordinates |          | Grid coordinates |                 | Geographic coordinates |                 |
|-----------------------|-------------------|----------|------------------|-----------------|------------------------|-----------------|
|                       | North[ft]         | East[ft] | Easting[US ft]   | Northing[US ft] | Latitude               | Longitude       |
| Slot Location         | 79.04             | 12.32    | 1801490.29       | 417895.98       | 39°38'44.9879"N        | 80°05'35.1708"W |
| Facility Reference Pt |                   |          | 1801477.97       | 417816.94       | 39°38'44.2060"N        | 80°05'35.3217"W |
| Field Reference Pt    |                   |          | 1777685.71       | 440640.65       | 39°42'28.1140"N        | 80°10'41.6900"W |

## WELLPATH DATUM

|                          |                     |                                                        |                   |
|--------------------------|---------------------|--------------------------------------------------------|-------------------|
| Calculation method       | Minimum curvature   | Patterson 277 (RKB) to Facility Vertical Datum         | 1550.00ft         |
| Horizontal Reference Pt  | Slot                | Patterson 277 (RKB) to Mean Sea Level                  | 1550.00ft         |
| Vertical Reference Pt    | Patterson 277 (RKB) | Patterson 277 (RKB) to Ground Level at Slot (Slot #9H) | 28.00ft           |
| MD Reference Pt          | Patterson 277 (RKB) | Section Origin                                         | N 0.00, E 0.00 ft |
| Field Vertical Reference | Mean Sea Level      | Section Azimuth                                        | 327.60°           |

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# Actual Wellpath Report

Dolls Run 9H AWP Proj: 24465'

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## REFERENCE WELLPATH IDENTIFICATION

|          |                               |           |                  |
|----------|-------------------------------|-----------|------------------|
| Operator | NORTHEAST NATURAL ENERGY, LLC | Well      | Dolls Run 9H     |
| Field    | Monongalia                    | API/Legal |                  |
| Facility | Dolls Run Pad                 | Wellbore  | Dolls Run 9H AWB |
| Slot     | Slot #9H                      |           |                  |

## WELLPATH DATA (267 stations) † = interpolated, ‡ = extrapolated station

| MD [ft] | Inclination [°] | Azimuth [°] | TVD [ft] | TVDSS [ft] | Vert Sect [ft] | North [ft] | East [ft] | Grid East [US ft] | Grid North [US ft] | Latitude        | Longitude       | Closure Dist [ft] | Closure Dir [°] | DLS [°/100ft] | Build Rate [°/100ft] | Turn Rate [°/100ft] |
|---------|-----------------|-------------|----------|------------|----------------|------------|-----------|-------------------|--------------------|-----------------|-----------------|-------------------|-----------------|---------------|----------------------|---------------------|
| 0.00†   | 0.00†           | 190.530     | 0.00     | -1550.00   | 0.00           | 0.00       | 0.00      | 1801490.29        | 417895.98          | 39°38'44.9879"N | 80°05'35.1708"W | 0.00              | 0.000           | 0.00          | 0.00                 | 0.00                |
| 28.00   | 0.00†           | 190.530     | 28.00    | -1522.00   | 0.00           | 0.00       | 0.00      | 1801490.29        | 417895.98          | 39°38'44.9879"N | 80°05'35.1708"W | 0.00              | 0.000           | 0.00          | 0.00                 | 0.00                |
| 100.00  | 0.31†           | 190.530     | 100.00   | -1450.00   | -0.14          | -0.19      | -0.04     | 1801490.25        | 417895.79          | 39°38'44.9880"N | 80°05'35.1713"W | 0.19              | 190.530         | 0.43          | 0.43                 | 0.00                |
| 150.00  | 0.25†           | 266.290     | 150.00   | -1400.00   | -0.19          | -0.33      | -0.17     | 1801490.12        | 417895.65          | 39°38'44.9847"N | 80°05'35.1730"W | 0.37              | 207.033         | 0.69          | -0.12                | 151.52              |
| 200.00  | 0.31†           | 87.490      | 200.00   | -1350.00   | -0.20          | -0.33      | -0.14     | 1801490.15        | 417895.65          | 39°38'44.9846"N | 80°05'35.1726"W | 0.36              | 203.244         | 1.12          | 0.12                 | -357.60             |
| 250.00  | 0.26†           | 22.270      | 250.00   | -1300.00   | -0.21          | -0.22      | 0.04      | 1801490.33        | 417895.76          | 39°38'44.9858"N | 80°05'35.1704"W | 0.22              | 170.972         | 0.62          | -0.10                | -130.44             |
| 300.00  | 0.33†           | 26.990      | 300.00   | -1250.00   | -0.07          | 0.01       | 0.14      | 1801490.43        | 417895.99          | 39°38'44.9881"N | 80°05'35.1690"W | 0.14              | 85.412          | 0.15          | 0.14                 | 9.44                |
| 350.00  | 0.04†           | 116.140     | 350.00   | -1200.00   | -0.01          | 0.13       | 0.22      | 1801490.51        | 417896.11          | 39°38'44.9893"N | 80°05'35.1680"W | 0.26              | 59.529          | 0.66          | -0.58                | 178.30              |
| 400.00  | 0.70†           | 30.930      | 400.00   | -1150.00   | 0.11           | 0.39       | 0.40      | 1801490.69        | 417896.37          | 39°38'44.9918"N | 80°05'35.1658"W | 0.55              | 45.790          | 1.40          | 1.32                 | -170.42             |
| 450.00  | 0.09†           | 234.940     | 450.00   | -1100.00   | 0.25           | 0.63       | 0.52      | 1801490.81        | 417896.61          | 39°38'44.9942"N | 80°05'35.1642"W | 0.82              | 39.834          | 1.57          | -1.22                | -311.99             |
| 500.00  | 0.38†           | 34.940      | 499.99   | -1050.01   | 0.31           | 0.74       | 0.58      | 1801490.87        | 417896.72          | 39°38'44.9953"N | 80°05'35.1634"W | 0.94              | 38.352          | 0.93          | 0.58                 | 320.00              |
| 550.00  | 0.28†           | 335.340     | 549.99   | -1000.01   | 0.50           | 0.99       | 0.83      | 1801490.92        | 417896.97          | 39°38'44.9977"N | 80°05'35.1629"W | 1.17              | 32.525          | 0.88          | -0.20                | -119.20             |
| 600.00  | 0.54†           | 20.890      | 599.99   | -950.01    | 0.76           | 1.32       | 0.66      | 1801490.95        | 417897.30          | 39°38'45.0010"N | 80°05'35.1625"W | 1.47              | 26.678          | 0.80          | 0.52                 | 91.10               |
| 650.00  | 0.42†           | 32.940      | 649.99   | -900.01    | 0.97           | 1.69       | 0.85      | 1801491.14        | 417897.67          | 39°38'45.0047"N | 80°05'35.1602"W | 1.89              | 26.564          | 0.31          | -0.24                | 24.10               |
| 700.00  | 0.75†           | 47.050      | 699.99   | -850.01    | 1.11           | 2.07       | 1.18      | 1801491.47        | 417898.05          | 39°38'45.0085"N | 80°05'35.1559"W | 2.38              | 29.808          | 0.72          | 0.66                 | 28.22               |
| 750.00  | 0.70†           | 75.510      | 749.98   | -800.02    | 1.08           | 2.37       | 1.72      | 1801492.01        | 417898.35          | 39°38'45.0115"N | 80°05'35.1490"W | 2.93              | 35.999          | 0.72          | -0.10                | 56.92               |
| 1032.00 | 1.05†           | 22.210      | 1031.96  | -518.04    | 2.04           | 5.19       | 4.36      | 1801494.65        | 417901.17          | 39°38'45.0395"N | 80°05'35.1155"W | 6.78              | 40.059          | 0.30          | 0.12                 | -18.90              |
| 1127.00 | 1.90†           | 46.360      | 1126.92  | -423.08    | 2.86           | 7.08       | 5.83      | 1801496.12        | 417903.06          | 39°38'45.0583"N | 80°05'35.0969"W | 9.18              | 39.472          | 1.09          | 0.89                 | 25.42               |
| 1221.00 | 3.69†           | 68.910      | 1220.81  | -329.19    | 2.57           | 9.25       | 9.78      | 1801500.07        | 417905.23          | 39°38'45.0800"N | 80°05'35.0465"W | 13.46             | 46.614          | 2.20          | 1.90                 | 23.99               |
| 1316.00 | 6.03†           | 72.970      | 1315.46  | -234.54    | 0.64           | 11.81      | 17.41     | 1801507.70        | 417907.79          | 39°38'45.1058"N | 80°05'34.9493"W | 21.04             | 55.848          | 2.49          | 2.46                 | 4.27                |
| 1411.00 | 7.86†           | 70.980      | 1409.76  | -140.24    | -2.18          | 15.39      | 28.32     | 1801518.61        | 417911.37          | 39°38'45.1419"N | 80°05'34.8101"W | 32.23             | 61.483          | 1.94          | 1.93                 | -2.09               |
| 1506.00 | 9.53†           | 67.520      | 1503.67  | -46.33     | -5.04          | 20.51      | 41.73     | 1801532.02        | 417916.49          | 39°38'45.1934"N | 80°05'34.6391"W | 46.50             | 63.824          | 1.84          | 1.76                 | -3.64               |
| 1601.00 | 10.54†          | 70.190      | 1597.21  | 47.21      | -8.29          | 26.46      | 57.17     | 1801547.46        | 417922.44          | 39°38'45.2532"N | 80°05'34.4422"W | 63.00             | 65.161          | 1.17          | 1.06                 | 2.81                |
| 1695.00 | 11.31†          | 78.920      | 1689.52  | 139.52     | -13.52         | 31.15      | 74.31     | 1801564.59        | 417927.13          | 39°38'45.3006"N | 80°05'34.2235"W | 80.57             | 67.257          | 1.94          | 0.82                 | 9.29                |
| 1789.00 | 12.43†          | 80.470      | 1781.50  | 231.50     | -20.80         | 34.60      | 93.33     | 1801583.62        | 417930.57          | 39°38'45.3359"N | 80°05'33.9807"W | 99.54             | 69.661          | 1.24          | 1.19                 | 1.65                |
| 1884.00 | 11.87†          | 83.850      | 1874.38  | 324.38     | -29.09         | 37.34      | 113.13    | 1801603.41        | 417933.31          | 39°38'45.3643"N | 80°05'33.7278"W | 119.13            | 71.736          | 0.95          | -0.59                | 3.56                |
| 1978.00 | 9.93†           | 90.820      | 1966.68  | 416.68     | -37.81         | 38.26      | 130.85    | 1801621.13        | 417934.23          | 39°38'45.3745"N | 80°05'33.5014"W | 136.32            | 73.703          | 2.49          | -2.06                | 7.41                |
| 2073.00 | 9.78†           | 92.080      | 2060.28  | 510.28     | -46.87         | 37.85      | 147.10    | 1801637.38        | 417933.82          | 39°38'45.3715"N | 80°05'33.2936"W | 151.89            | 75.572          | 0.28          | -0.16                | 1.33                |
| 2168.00 | 11.31†          | 89.100      | 2153.67  | 603.67     | -56.30         | 37.70      | 164.48    | 1801654.76        | 417933.68          | 39°38'45.3712"N | 80°05'33.0714"W | 168.74            | 77.091          | 1.71          | 1.61                 | -3.14               |
| 2262.00 | 10.30†          | 94.550      | 2246.01  | 696.01     | -66.17         | 37.18      | 182.07    | 1801672.35        | 417933.15          | 39°38'45.3672"N | 80°05'32.8464"W | 185.83            | 78.480          | 1.53          | -1.07                | 5.80                |

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Actual Wellpath Report  
Dolls Run 9H AWP Proj: 24465'  
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REFERENCE WELLPATH IDENTIFICATION

|          |                               |           |                  |
|----------|-------------------------------|-----------|------------------|
| Operator | NORTHEAST NATURAL ENERGY, LLC | Well      | Dolls Run 9H     |
| Field    | Monongalia                    | API/Legal |                  |
| Facility | Dolls Run Pad                 | Wellbore  | Dolls Run 9H AWB |
| Slot     | Slot #9H                      |           |                  |

WELLPATH DATA (267 stations)

| MD<br>[ft] | Inclination<br>[°] | Azimuth<br>[°] | TVD<br>[ft] | TVDSS<br>[ft] | Vert Sect<br>[ft] | North<br>[ft] | East<br>[ft] | Grid East<br>[US ft] | Grid North<br>[US ft] | Latitude        | Longitude       | Closure Dist<br>[ft] | Closure Dir<br>[°] | DLS<br>[°/100ft] | Build Rate<br>[°/100ft] | Turn Rate<br>[°/100ft] |
|------------|--------------------|----------------|-------------|---------------|-------------------|---------------|--------------|----------------------|-----------------------|-----------------|-----------------|----------------------|--------------------|------------------|-------------------------|------------------------|
| 2357.00    | 9.290              | 98.620         | 2339.62     | 789.62        | -76.31            | 35.35         | 198.12       | 1801688.40           | 417931.33             | 39°38'45.3503"N | 80°05'32.6411"W | 201.25               | 79.882             | 1.29             | -1.06                   | 4.28                   |
| 2442.00    | 10.650             | 95.270         | 2423.34     | 873.34        | -85.61            | 33.60         | 212.73       | 1801703.00           | 417929.58             | 39°38'45.3339"N | 80°05'32.4543"W | 215.37               | 81.023             | 1.74             | 1.60                    | -3.94                  |
| 2536.00    | 11.530             | 89.640         | 2515.58     | 965.58        | -95.90            | 32.87         | 230.77       | 1801721.05           | 417928.84             | 39°38'45.3278"N | 80°05'32.2235"W | 233.10               | 81.895             | 1.48             | 0.94                    | -5.98                  |
| 2631.00    | 12.260             | 83.910         | 2608.55     | 1058.55       | -105.41           | 33.99         | 250.30       | 1801740.57           | 417929.97             | 39°38'45.3402"N | 80°05'31.9740"W | 252.59               | 82.266             | 1.46             | 0.77                    | -6.03                  |
| 2725.00    | 12.860             | 79.830         | 2700.30     | 1150.30       | -113.79           | 36.90         | 270.52       | 1801760.79           | 417932.88             | 39°38'45.3703"N | 80°05'31.7158"W | 273.02               | 82.232             | 1.14             | 0.64                    | -4.34                  |
| 2820.00    | 13.560             | 77.030         | 2792.79     | 1242.79       | -121.50           | 41.27         | 291.78       | 1801782.05           | 417937.24             | 39°38'45.4148"N | 80°05'31.4444"W | 294.68               | 81.950             | 1.00             | 0.74                    | -2.95                  |
| 2915.00    | 13.950             | 72.530         | 2885.06     | 1335.06       | -128.15           | 47.20         | 313.55       | 1801803.82           | 417943.18             | 39°38'45.4749"N | 80°05'31.1665"W | 317.09               | 81.439             | 1.20             | 0.41                    | -4.74                  |
| 3009.00    | 16.270             | 72.530         | 2975.81     | 1425.81       | -134.47           | 54.56         | 336.93       | 1801827.19           | 417950.54             | 39°38'45.5491"N | 80°05'30.8683"W | 341.31               | 80.802             | 2.47             | 2.47                    | 0.00                   |
| 3104.00    | 18.280             | 73.110         | 3066.52     | 1516.52       | -141.88           | 62.88         | 363.88       | 1801854.15           | 417958.86             | 39°38'45.6331"N | 80°05'30.5245"W | 369.27               | 80.195             | 2.12             | 2.12                    | 0.61                   |
| 3198.00    | 20.120             | 75.420         | 3155.29     | 1605.29       | -150.77           | 71.24         | 393.63       | 1801883.90           | 417967.21             | 39°38'45.7176"N | 80°05'30.1448"W | 400.03               | 79.742             | 2.12             | 1.96                    | 2.46                   |
| 3293.00    | 22.120             | 76.350         | 3243.90     | 1693.90       | -161.52           | 79.57         | 426.83       | 1801917.10           | 417975.55             | 39°38'45.8022"N | 80°05'29.7211"W | 434.19               | 79.440             | 2.13             | 2.11                    | 0.98                   |
| 3391.00    | 23.930             | 76.400         | 3334.09     | 1784.09       | -173.86           | 88.60         | 464.08       | 1801954.34           | 417984.58             | 39°38'45.8938"N | 80°05'29.2457"W | 472.46               | 79.191             | 1.85             | 1.85                    | 0.05                   |
| 3486.00    | 25.680             | 77.420         | 3420.32     | 1870.32       | -187.05           | 97.62         | 502.90       | 1801993.16           | 417993.59             | 39°38'45.9854"N | 80°05'28.7502"W | 512.29               | 79.015             | 1.90             | 1.84                    | 1.07                   |
| 3581.00    | 27.440             | 75.340         | 3505.29     | 1955.29       | -200.70           | 107.64        | 544.17       | 1802034.43           | 418003.61             | 39°38'46.0872"N | 80°05'28.2234"W | 554.72               | 78.811             | 2.10             | 1.85                    | -2.19                  |
| 3676.00    | 28.120             | 75.140         | 3589.35     | 2039.35       | -214.11           | 118.92        | 586.99       | 1802077.24           | 418014.89             | 39°38'46.2014"N | 80°05'27.8770"W | 598.91               | 78.547             | 0.72             | 0.72                    | -0.21                  |
| 3770.00    | 28.740             | 76.890         | 3672.01     | 2122.01       | -228.26           | 129.73        | 630.41       | 1802120.66           | 418025.70             | 39°38'46.3111"N | 80°05'27.1229"W | 643.62               | 78.372             | 1.10             | 0.68                    | 1.86                   |
| 3865.00    | 29.170             | 80.950         | 3755.14     | 2205.14       | -244.98           | 138.55        | 675.52       | 1802165.77           | 418034.52             | 39°38'46.4012"N | 80°05'26.5469"W | 689.59               | 78.409             | 2.12             | 0.45                    | 4.27                   |
| 3959.00    | 29.200             | 82.780         | 3837.21     | 2287.21       | -263.82           | 145.04        | 720.89       | 1802211.14           | 418041.01             | 39°38'46.4682"N | 80°05'25.9674"W | 735.34               | 78.624             | 0.95             | 0.03                    | 1.95                   |
| 4054.00    | 30.040             | 82.220         | 3919.80     | 2369.80       | -283.58           | 151.17        | 767.44       | 1802257.69           | 418047.14             | 39°38'46.5319"N | 80°05'25.3729"W | 782.19               | 78.857             | 0.93             | 0.88                    | -0.59                  |
| 4149.00    | 30.090             | 76.600         | 4002.03     | 2452.03       | -301.24           | 159.91        | 814.18       | 1802304.42           | 418055.88             | 39°38'46.6213"N | 80°05'24.7761"W | 829.73               | 78.888             | 2.96             | 0.05                    | -5.92                  |
| 4244.00    | 28.730             | 77.220         | 4084.79     | 2534.79       | -316.66           | 170.48        | 859.62       | 1802349.85           | 418066.45             | 39°38'46.7287"N | 80°05'24.1962"W | 876.36               | 78.783             | 1.47             | -1.43                   | 0.65                   |
| 4338.00    | 29.520             | 78.300         | 4166.90     | 2616.90       | -332.44           | 180.17        | 904.33       | 1802394.56           | 418076.14             | 39°38'46.8274"N | 80°05'23.6255"W | 922.10               | 78.732             | 1.01             | 0.84                    | 1.15                   |
| 4433.00    | 29.120             | 75.070         | 4249.74     | 2699.74       | -347.65           | 190.88        | 949.58       | 1802439.81           | 418086.84             | 39°38'46.9361"N | 80°05'23.0478"W | 968.58               | 78.634             | 1.72             | -0.42                   | -3.40                  |
| 4531.00    | 28.870             | 80.080         | 4335.47     | 2785.47       | -363.86           | 201.10        | 995.93       | 1802486.16           | 418097.06             | 39°38'47.0401"N | 80°05'22.4561"W | 1016.03              | 78.585             | 2.49             | -0.26                   | 5.11                   |
| 4625.00    | 28.420             | 80.520         | 4417.96     | 2867.96       | -381.25           | 208.69        | 1040.35      | 1802530.58           | 418104.66             | 39°38'47.1180"N | 80°05'21.8889"W | 1061.08              | 78.657             | 0.53             | -0.48                   | 0.47                   |
| 4720.00    | 29.930             | 82.250         | 4500.91     | 2950.91       | -399.94           | 215.61        | 1086.14      | 1802576.36           | 418111.58             | 39°38'47.1894"N | 80°05'21.3042"W | 1107.33              | 78.772             | 1.82             | 1.59                    | 1.82                   |
| 4815.00    | 30.140             | 80.790         | 4583.15     | 3033.15       | -419.21           | 222.62        | 1133.16      | 1802623.38           | 418118.59             | 39°38'47.2617"N | 80°05'20.7036"W | 1154.82              | 78.885             | 0.80             | 0.22                    | -1.54                  |
| 4910.00    | 29.630             | 75.920         | 4665.53     | 3115.53       | -435.99           | 232.15        | 1179.49      | 1802669.71           | 418128.12             | 39°38'47.3589"N | 80°05'20.1122"W | 1202.12              | 78.865             | 2.61             | -0.54                   | -5.13                  |
| 5005.00    | 29.800             | 77.300         | 4748.04     | 3198.04       | -451.33           | 243.06        | 1225.30      | 1802715.51           | 418139.02             | 39°38'47.4697"N | 80°05'19.5275"W | 1249.17              | 78.780             | 0.74             | 0.18                    | 1.45                   |
| 5099.00    | 27.890             | 77.880         | 4830.37     | 3280.37       | -466.82           | 252.81        | 1269.59      | 1802759.80           | 418148.77             | 39°38'47.5689"N | 80°05'18.9622"W | 1294.51              | 78.738             | 2.05             | -2.03                   | 0.62                   |

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# Actual Wellpath Report

Dolls Run 9H AWP Proj: 24465'

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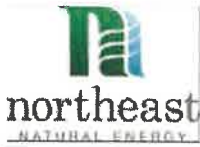
## REFERENCE WELLPATH IDENTIFICATION

|          |                               |           |                  |
|----------|-------------------------------|-----------|------------------|
| Operator | NORTHEAST NATURAL ENERGY, LLC | Well      | Dolls Run 9H     |
| Field    | Monongalia                    | API/Legal |                  |
| Facility | Dolls Run Pad                 | Wellbore  | Dolls Run 9H AWB |
| Slot     | Slot #9H                      |           |                  |

## WELLPATH DATA (267 stations)

| MD [ft] | Inclination [°] | Azimuth [°] | TVD [ft] | TVDSS [ft] | Vert Sect [ft] | North [ft] | East [ft] | Grid East [US ft] | Grid North [US ft] | Latitude        | Longitude       | Closure Dist [ft] | Closure Dir [°] | DLS [°/100ft] | Build Rate [°/100ft] | Turn Rate [°/100ft] |
|---------|-----------------|-------------|----------|------------|----------------|------------|-----------|-------------------|--------------------|-----------------|-----------------|-------------------|-----------------|---------------|----------------------|---------------------|
| 5194.00 | 28.130          | 78.820      | 4914.25  | 3364.25    | -482.63        | 261.82     | 1313.28   | 1802803.49        | 418157.78          | 39°38'47.6608"N | 80°05'18.4044"W | 1339.12           | 78.725          | 0.53          | 0.25                 | 0.99                |
| 5289.00 | 28.550          | 78.800      | 4997.86  | 3447.86    | -498.95        | 270.57     | 1357.52   | 1802847.73        | 418166.53          | 39°38'47.7501"N | 80°05'17.8396"W | 1384.22           | 78.728          | 0.44          | 0.44                 | -0.02               |
| 5383.00 | 28.760          | 79.650      | 5080.35  | 3530.35    | -515.56        | 278.99     | 1401.80   | 1802892.00        | 418174.96          | 39°38'47.8362"N | 80°05'17.2742"W | 1429.29           | 78.744          | 0.49          | 0.22                 | 0.90                |
| 5478.00 | 29.740          | 79.060      | 5163.23  | 3613.23    | -532.76        | 287.57     | 1447.42   | 1802937.62        | 418183.54          | 39°38'47.9240"N | 80°05'16.6917"W | 1475.71           | 78.763          | 1.08          | 1.03                 | -0.62               |
| 5575.00 | 30.330          | 80.500      | 5247.21  | 3697.21    | -551.09        | 296.18     | 1495.20   | 1802985.39        | 418192.14          | 39°38'48.0121"N | 80°05'16.0817"W | 1524.25           | 78.795          | 0.96          | 0.61                 | 1.46                |
| 5670.00 | 29.730          | 77.650      | 5329.46  | 3779.46    | -568.50        | 305.18     | 1541.87   | 1803032.06        | 418201.14          | 39°38'48.1041"N | 80°05'15.4858"W | 1571.78           | 78.804          | 1.63          | -0.63                | -3.00               |
| 5765.00 | 30.460          | 77.920      | 5411.65  | 3861.65    | -584.94        | 315.26     | 1588.43   | 1803078.62        | 418211.22          | 39°38'48.2067"N | 80°05'14.8915"W | 1619.41           | 78.774          | 0.78          | 0.77                 | 0.28                |
| 5860.00 | 30.430          | 80.280      | 5493.56  | 3943.56    | -602.58        | 324.36     | 1635.69   | 1803125.88        | 418220.32          | 39°38'48.2997"N | 80°05'14.2880"W | 1667.54           | 78.784          | 1.26          | -0.03                | 2.46                |
| 5954.00 | 29.590          | 76.050      | 5574.97  | 4024.97    | -619.11        | 333.97     | 1681.68   | 1803171.87        | 418229.93          | 39°38'48.3977"N | 80°05'13.7009"W | 1714.52           | 78.767          | 2.42          | -0.89                | -4.50               |
| 6049.00 | 28.910          | 78.400      | 5657.85  | 4107.85    | -634.68        | 344.25     | 1726.94   | 1803217.12        | 418240.20          | 39°38'48.5021"N | 80°05'13.1232"W | 1760.91           | 78.727          | 1.40          | -0.72                | 2.47                |
| 6143.00 | 30.120          | 80.540      | 5739.66  | 4189.66    | -651.95        | 352.69     | 1772.46   | 1803262.64        | 418248.65          | 39°38'48.5885"N | 80°05'12.5419"W | 1807.21           | 78.746          | 1.71          | 1.29                 | 2.28                |
| 6238.00 | 29.140          | 78.660      | 5822.23  | 4272.23    | -669.55        | 361.16     | 1818.66   | 1803308.83        | 418257.12          | 39°38'48.6752"N | 80°05'11.9521"W | 1854.17           | 78.768          | 1.42          | -1.03                | -1.98               |
| 6333.00 | 27.760          | 79.410      | 5905.76  | 4355.76    | -686.08        | 369.77     | 1863.08   | 1803353.26        | 418265.73          | 39°38'48.7632"N | 80°05'11.3849"W | 1899.42           | 78.774          | 1.50          | -1.45                | 0.79                |
| 6431.00 | 29.050          | 82.180      | 5991.96  | 4441.96    | -704.46        | 377.20     | 1909.09   | 1803399.27        | 418273.16          | 39°38'48.8396"N | 80°05'10.7973"W | 1946.00           | 78.823          | 1.88          | 1.32                 | 2.83                |
| 6526.00 | 29.790          | 81.780      | 6074.71  | 4524.71    | -723.72        | 383.72     | 1955.30   | 1803445.47        | 418279.67          | 39°38'48.9069"N | 80°05'10.2071"W | 1992.60           | 78.897          | 0.81          | 0.78                 | -0.42               |
| 6620.00 | 28.330          | 77.750      | 6156.88  | 4606.88    | -740.97        | 391.79     | 2000.21   | 1803490.38        | 418287.74          | 39°38'48.9896"N | 80°05'9.6336"W  | 2038.22           | 78.918          | 2.60          | -1.55                | -4.29               |
| 6714.00 | 25.130          | 80.030      | 6240.83  | 4690.83    | -756.27        | 399.98     | 2041.68   | 1803531.85        | 418295.93          | 39°38'49.0732"N | 80°05'9.1042"W  | 2080.49           | 78.916          | 3.57          | -3.40                | 2.43                |
| 6809.00 | 25.400          | 90.520      | 6326.79  | 4776.79    | -775.05        | 403.29     | 2081.94   | 1803572.10        | 418299.24          | 39°38'49.1085"N | 80°05'8.5898"W  | 2120.64           | 79.037          | 4.72          | 0.28                 | 11.04               |
| 6903.00 | 29.640          | 89.920      | 6410.13  | 4860.13    | -798.45        | 403.14     | 2125.36   | 1803615.52        | 418299.09          | 39°38'49.1098"N | 80°05'8.0347"W  | 2163.26           | 79.260          | 4.52          | 4.51                 | -0.64               |
| 6998.00 | 28.410          | 86.220      | 6493.21  | 4943.21    | -821.83        | 404.66     | 2171.41   | 1803661.57        | 418300.62          | 39°38'49.1278"N | 80°05'7.4462"W  | 2208.80           | 79.444          | 2.29          | -1.29                | -3.89               |
| 7092.00 | 29.430          | 86.540      | 6575.48  | 5025.48    | -843.72        | 407.53     | 2216.78   | 1803706.93        | 418303.48          | 39°38'49.1591"N | 80°05'6.8665"W  | 2253.93           | 79.583          | 1.10          | 1.09                 | 0.34                |
| 7186.00 | 30.420          | 84.580      | 6656.95  | 5106.95    | -865.69        | 411.17     | 2263.52   | 1803753.67        | 418307.12          | 39°38'49.1981"N | 80°05'6.2692"W  | 2300.56           | 79.704          | 1.48          | 1.05                 | -2.09               |
| 7220.00 | 29.980          | 83.930      | 6686.34  | 5136.34    | -873.37        | 412.88     | 2280.54   | 1803770.69        | 418308.84          | 39°38'49.2161"N | 80°05'6.0518"W  | 2317.61           | 79.738          | 1.61          | -1.29                | -1.91               |
| 7314.00 | 27.760          | 83.080      | 6768.65  | 5218.65    | -893.20        | 418.00     | 2325.63   | 1803815.78        | 418313.96          | 39°38'49.2696"N | 80°05'5.4758"W  | 2362.90           | 79.811          | 2.40          | -2.36                | -0.90               |
| 7409.00 | 29.880          | 78.010      | 6851.89  | 5301.89    | -910.98        | 425.59     | 2370.75   | 1803860.90        | 418321.54          | 39°38'49.3475"N | 80°05'4.8996"W  | 2408.65           | 79.823          | 3.40          | 2.23                 | -5.34               |
| 7504.00 | 29.820          | 75.920      | 6934.29  | 5384.29    | -926.86        | 436.25     | 2416.81   | 1803906.96        | 418332.20          | 39°38'49.4558"N | 80°05'4.3116"W  | 2455.87           | 79.768          | 1.10          | -0.06                | -2.20               |
| 7599.00 | 29.750          | 72.610      | 7016.74  | 5466.74    | -940.19        | 449.04     | 2462.22   | 1803952.36        | 418344.99          | 39°38'49.5852"N | 80°05'3.7322"W  | 2502.83           | 79.664          | 1.73          | -0.07                | -3.48               |
| 7693.00 | 29.900          | 72.510      | 7098.29  | 5548.29    | -952.25        | 463.05     | 2506.82   | 1803996.98        | 418359.00          | 39°38'49.7265"N | 80°05'3.1632"W  | 2549.23           | 79.534          | 0.17          | 0.16                 | -0.11               |
| 7787.00 | 29.660          | 72.410      | 7179.88  | 5629.88    | -964.23        | 477.12     | 2551.34   | 1804041.47        | 418373.07          | 39°38'49.8684"N | 80°05'2.5953"W  | 2595.57           | 79.408          | 0.26          | -0.26                | -0.11               |
| 7882.00 | 29.910          | 73.420      | 7262.33  | 5712.33    | -976.69        | 490.98     | 2596.45   | 1804086.58        | 418386.93          | 39°38'50.0083"N | 80°05'2.0198"W  | 2642.46           | 79.292          | 0.59          | 0.26                 | 1.06                |

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# Actual Wellpath Report

Dolls Run 9H AWP Proj: 24465'

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## REFERENCE WELLPATH IDENTIFICATION

|          |                               |           |                  |
|----------|-------------------------------|-----------|------------------|
| Operator | NORTHEAST NATURAL ENERGY, LLC | Well      | Dolls Run 9H     |
| Field    | Monongalia                    | API/Legal |                  |
| Facility | Dolls Run Pad                 | Wellbore  | Dolls Run 9H AWB |
| Slot     | Slot #9H                      |           |                  |

## WELLPATH DATA (267 stations)

| MD [ft]  | Inclination [°] | Azimuth [°] | TVD [ft] | TVDSS [ft] | Vert Sect [ft] | North [ft] | East [ft] | Grid East [US ft] | Grid North [US ft] | Latitude        | Longitude       | Closure Dist [ft] | Closure Dir [°] | DLS [°/100ft] | Build Rate [°/100ft] | Turn Rate [°/100ft] |
|----------|-----------------|-------------|----------|------------|----------------|------------|-----------|-------------------|--------------------|-----------------|-----------------|-------------------|-----------------|---------------|----------------------|---------------------|
| 7977.00  | 29.780          | 73.820      | 7344.73  | 5794.73    | -989.74        | 504.32     | 2641.80   | 1804131.93        | 418400.27          | 39°38'50.1430"N | 80°05'1.4411"W  | 2689.51           | 79.192          | 0.25          | -0.14                | 0.42                |
| 8071.00  | 29.990          | 73.830      | 7426.23  | 5876.23    | -1002.83       | 517.36     | 2686.79   | 1804176.91        | 418413.31          | 39°38'50.2748"N | 80°05'0.8671"W  | 2736.14           | 79.101          | 0.22          | 0.22                 | 0.01                |
| 8166.00  | 29.150          | 74.200      | 7508.86  | 5958.86    | -1016.07       | 530.28     | 2731.85   | 1804221.98        | 418426.22          | 39°38'50.4053"N | 80°05'0.2920"W  | 2782.84           | 79.015          | 0.90          | -0.88                | 0.39                |
| 8261.00  | 29.880          | 69.810      | 7591.54  | 6041.54    | -1027.69       | 544.75     | 2776.33   | 1804266.45        | 418440.69          | 39°38'50.5512"N | 80°04'59.7246"W | 2829.27           | 78.899          | 2.40          | 0.77                 | -4.62               |
| 8355.00  | 30.520          | 54.280      | 7672.91  | 6122.91    | -1031.26       | 566.80     | 2817.75   | 1804307.87        | 418462.74          | 39°38'50.7717"N | 80°04'59.1970"W | 2874.19           | 78.627          | 8.32          | 0.68                 | -16.52              |
| 8450.00  | 30.800          | 39.480      | 7754.74  | 6204.74    | -1022.29       | 599.70     | 2852.85   | 1804342.97        | 418495.64          | 39°38'51.0992"N | 80°04'58.7510"W | 2915.20           | 78.129          | 7.93          | 0.29                 | -15.58              |
| 8544.00  | 33.100          | 25.610      | 7834.61  | 6284.61    | -1001.18       | 641.48     | 2879.29   | 1804369.40        | 418537.42          | 39°38'51.5138"N | 80°04'58.4165"W | 2949.88           | 77.440          | 8.17          | 2.45                 | -14.76              |
| 8639.00  | 37.060          | 11.550      | 7912.46  | 6362.46    | -966.75        | 693.03     | 2896.26   | 1804386.38        | 418588.96          | 39°38'52.0243"N | 80°04'58.2037"W | 2978.02           | 76.543          | 9.45          | 4.17                 | -14.80              |
| 8733.00  | 42.620          | 358.900     | 7984.73  | 6434.73    | -919.05        | 752.74     | 2901.34   | 1804391.45        | 418648.68          | 39°38'52.6147"N | 80°04'58.1438"W | 2997.39           | 75.455          | 10.43         | 5.91                 | -13.48              |
| 8828.00  | 47.750          | 355.140     | 8051.68  | 6501.68    | -860.34        | 819.99     | 2897.74   | 1804387.85        | 418715.92          | 39°38'53.2791"N | 80°04'58.1954"W | 3011.52           | 74.200          | 6.08          | 5.40                 | -3.96               |
| 8922.00  | 54.010          | 350.880     | 8110.97  | 6560.97    | -794.48        | 892.30     | 2888.75   | 1804378.86        | 418788.22          | 39°38'53.9931"N | 80°04'58.3163"W | 3023.42           | 72.835          | 7.53          | 6.66                 | -4.53               |
| 9016.00  | 59.460          | 344.580     | 8162.55  | 6612.55    | -720.72        | 968.98     | 2871.94   | 1804362.05        | 418864.90          | 39°38'54.7499"N | 80°04'58.5376"W | 3031.00           | 71.356          | 8.06          | 5.80                 | -6.70               |
| 9111.00  | 64.960          | 340.170     | 8206.84  | 6656.84    | -639.50        | 1048.99    | 2846.43   | 1804336.55        | 418944.91          | 39°38'55.5390"N | 80°04'58.8703"W | 3033.57           | 69.770          | 7.10          | 5.79                 | -4.64               |
| 9205.00  | 70.310          | 337.250     | 8242.60  | 6692.60    | -554.23        | 1129.93    | 2814.84   | 1804304.96        | 419025.84          | 39°38'56.3369"N | 80°04'59.2809"W | 3033.16           | 68.129          | 6.37          | 5.69                 | -3.11               |
| 9300.00  | 75.600          | 334.330     | 8270.45  | 6720.45    | -464.37        | 1212.72    | 2777.58   | 1804267.70        | 419108.62          | 39°38'57.1526"N | 80°04'59.7641"W | 3030.79           | 66.413          | 6.30          | 5.57                 | -3.07               |
| 9394.00  | 80.670          | 330.820     | 8289.77  | 6739.77    | -372.77        | 1294.32    | 2735.21   | 1804225.33        | 419190.22          | 39°38'57.9563"N | 80°05'0.3125"W  | 3025.99           | 64.676          | 6.51          | 5.39                 | -3.73               |
| 9488.00  | 84.850          | 328.600     | 8301.62  | 6751.62    | -279.61        | 1374.81    | 2688.18   | 1804178.31        | 419270.71          | 39°38'58.7488"N | 80°05'0.9204"W  | 3019.34           | 62.914          | 5.03          | 4.45                 | -2.36               |
| 9583.00  | 87.380          | 327.810     | 8308.06  | 6758.06    | -184.84        | 1455.28    | 2638.11   | 1804128.24        | 419351.17          | 39°38'59.5408"N | 80°05'1.5673"W  | 3012.88           | 61.117          | 2.86          | 2.66                 | -1.04               |
| 9676.00  | 91.910          | 328.040     | 8308.63  | 6758.63    | -91.87         | 1533.97    | 2588.60   | 1804078.73        | 419429.86          | 39°39'0.3153"N  | 80°05'2.2068"W  | 3008.97           | 59.350          | 4.89          | 4.87                 | 0.46                |
| 9771.00  | 92.030          | 328.120     | 8305.37  | 6755.37    | 3.07           | 1614.56    | 2538.40   | 1804028.53        | 419510.44          | 39°39'1.1085"N  | 80°05'2.8552"W  | 3008.37           | 57.541          | 0.15          | 0.13                 | 0.08                |
| 9865.00  | 92.310          | 327.880     | 8301.81  | 6751.81    | 97.00          | 1694.22    | 2488.62   | 1803978.76        | 419590.09          | 39°39'1.8926"N  | 80°05'3.4982"W  | 3010.58           | 55.754          | 0.39          | 0.30                 | -0.26               |
| 9960.00  | 90.920          | 326.440     | 8299.13  | 6749.13    | 191.96         | 1774.00    | 2437.13   | 1803927.27        | 419669.87          | 39°39'2.6777"N  | 80°05'4.1632"W  | 3014.41           | 53.949          | 2.11          | -1.46                | -1.52               |
| 10055.00 | 91.260          | 327.040     | 8297.32  | 6747.32    | 286.93         | 1853.42    | 2385.04   | 1803875.18        | 419749.29          | 39°39'3.4593"N  | 80°05'4.8358"W  | 3020.52           | 52.149          | 0.73          | 0.36                 | 0.63                |
| 10149.00 | 94.470          | 328.940     | 8292.62  | 6742.62    | 380.79         | 1933.02    | 2335.28   | 1803825.43        | 419828.88          | 39°39'4.2427"N  | 80°05'5.4785"W  | 3031.51           | 50.384          | 3.97          | 3.41                 | 2.02                |
| 10244.00 | 95.210          | 327.110     | 8284.61  | 6734.61    | 475.45         | 2013.31    | 2285.15   | 1803775.30        | 419909.17          | 39°39'5.0330"N  | 80°05'6.1260"W  | 3045.55           | 48.619          | 2.07          | 0.78                 | -1.93               |
| 10339.00 | 94.280          | 327.020     | 8276.75  | 6726.75    | 570.12         | 2092.77    | 2233.68   | 1803723.83        | 419988.62          | 39°39'5.8149"N  | 80°05'6.7907"W  | 3060.88           | 46.865          | 0.98          | -0.98                | -0.09               |
| 10433.00 | 93.450          | 326.960     | 8270.41  | 6720.41    | 663.90         | 2171.41    | 2182.59   | 1803672.74        | 420067.26          | 39°39'6.5889"N  | 80°05'7.4505"W  | 3078.76           | 45.147          | 0.89          | -0.88                | -0.06               |
| 10528.00 | 93.260          | 327.220     | 8264.85  | 6714.85    | 758.73         | 2251.03    | 2131.06   | 1803621.22        | 420146.88          | 39°39'7.3724"N  | 80°05'8.1159"W  | 3099.77           | 43.432          | 0.34          | -0.20                | 0.27                |
| 10623.00 | 93.330          | 327.130     | 8259.39  | 6709.39    | 853.57         | 2330.73    | 2079.65   | 1803569.81        | 420226.57          | 39°39'8.1567"N  | 80°05'8.7798"W  | 3123.66           | 41.742          | 0.12          | 0.07                 | -0.09               |
| 10717.00 | 92.550          | 327.100     | 8254.57  | 6704.57    | 947.44         | 2409.57    | 2028.68   | 1803518.85        | 420305.40          | 39°39'8.9325"N  | 80°05'9.4380"W  | 3149.85           | 40.095          | 0.83          | -0.83                | -0.03               |

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# Actual Wellpath Report

Dolls Run 9H AWP Proj: 24465'

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## REFERENCE WELLPATH IDENTIFICATION

|          |                               |           |                  |
|----------|-------------------------------|-----------|------------------|
| Operator | NORTHEAST NATURAL ENERGY, LLC | Well      | Dolls Run 9H     |
| Field    | Monongalia                    | API/Legal |                  |
| Facility | Dolls Run Pad                 | Wellbore  | Dolls Run 9H AWB |
| Slot     | Slot #9H                      |           |                  |

## WELLPATH DATA (267 stations)

| MD [ft]  | Inclination [°] | Azimuth [°] | TVD [ft] | TVDSS [ft] | Vert Sect [ft] | North [ft] | East [ft] | Grid East [US ft] | Grid North [US ft] | Latitude        | Longitude       | Closure Dist [ft] | Closure Dir [°] | DLS [°/100ft] | Build Rate [°/100ft] | Turn Rate [°/100ft] |
|----------|-----------------|-------------|----------|------------|----------------|------------|-----------|-------------------|--------------------|-----------------|-----------------|-------------------|-----------------|---------------|----------------------|---------------------|
| 10812.00 | 92.530          | 327.150     | 8250.36  | 6700.36    | 1042.35        | 2489.27    | 1977.16   | 1803467.33        | 420385.10          | 39°39'9.7170"N  | 80°05'10.1033"W | 3178.94           | 38.459          | 0.06          | -0.02                | 0.05                |
| 10906.00 | 92.620          | 327.390     | 8246.14  | 6696.14    | 1136.25        | 2568.27    | 1926.39   | 1803416.56        | 420464.09          | 39°39'10.4944"N | 80°05'10.7590"W | 3210.45           | 36.873          | 0.27          | 0.10                 | 0.26                |
| 11001.00 | 91.750          | 327.070     | 8242.52  | 6692.52    | 1231.18        | 2648.09    | 1875.01   | 1803365.18        | 420543.91          | 39°39'11.2799"N | 80°05'11.4226"W | 3244.69           | 35.301          | 0.98          | -0.92                | -0.34               |
| 11095.00 | 91.720          | 326.800     | 8239.67  | 6689.67    | 1325.13        | 2726.83    | 1823.75   | 1803313.92        | 420622.64          | 39°39'12.0548"N | 80°05'12.0845"W | 3280.50           | 33.775          | 0.29          | -0.03                | -0.29               |
| 11190.00 | 91.910          | 327.410     | 8236.66  | 6686.66    | 1420.08        | 2806.56    | 1772.18   | 1803262.36        | 420702.37          | 39°39'12.8394"N | 80°05'12.7505"W | 3319.25           | 32.270          | 0.67          | 0.20                 | 0.64                |
| 11285.00 | 92.800          | 327.420     | 8232.76  | 6682.76    | 1514.99        | 2886.54    | 1721.06   | 1803211.24        | 420782.34          | 39°39'13.6265"N | 80°05'13.4107"W | 3360.68           | 30.805          | 0.94          | 0.94                 | 0.01                |
| 11380.00 | 90.400          | 327.290     | 8230.11  | 6680.11    | 1609.95        | 2966.49    | 1669.84   | 1803160.02        | 420862.29          | 39°39'14.4133"N | 80°05'14.0723"W | 3404.18           | 29.375          | 2.53          | -2.53                | -0.14               |
| 11474.00 | 92.860          | 327.040     | 8227.43  | 6677.43    | 1703.90        | 3045.44    | 1618.89   | 1803109.08        | 420941.23          | 39°39'15.1902"N | 80°05'14.7302"W | 3448.99           | 27.994          | 2.63          | 2.62                 | -0.27               |
| 11569.00 | 92.890          | 326.870     | 8222.67  | 6672.67    | 1798.78        | 3124.97    | 1567.15   | 1803057.35        | 421020.76          | 39°39'15.9729"N | 80°05'15.3983"W | 3495.91           | 26.633          | 0.18          | 0.03                 | -0.18               |
| 11663.00 | 91.750          | 326.850     | 8218.86  | 6668.86    | 1892.69        | 3203.61    | 1515.81   | 1803006.01        | 421099.40          | 39°39'16.7468"N | 80°05'16.0614"W | 3544.12           | 25.321          | 1.21          | -1.21                | -0.02               |
| 11758.00 | 90.460          | 327.200     | 8217.03  | 6667.03    | 1987.67        | 3283.29    | 1464.11   | 1802954.31        | 421179.07          | 39°39'17.5309"N | 80°05'16.7290"W | 3594.95           | 24.033          | 1.41          | -1.36                | 0.37                |
| 11852.00 | 91.080          | 327.150     | 8215.77  | 6665.77    | 2081.65        | 3362.28    | 1413.16   | 1802903.37        | 421258.05          | 39°39'18.3082"N | 80°05'17.3670"W | 3647.18           | 22.797          | 0.66          | 0.66                 | -0.05               |
| 11947.00 | 90.180          | 328.030     | 8214.72  | 6664.72    | 2176.65        | 3442.47    | 1362.25   | 1802852.46        | 421338.24          | 39°39'19.0974"N | 80°05'18.0446"W | 3702.21           | 21.590          | 1.32          | -0.95                | 0.93                |
| 12041.00 | 90.120          | 326.400     | 8214.48  | 6664.48    | 2270.64        | 3521.50    | 1311.35   | 1802801.56        | 421417.26          | 39°39'19.8751"N | 80°05'18.7020"W | 3757.74           | 20.425          | 1.74          | -0.06                | -1.73               |
| 12136.00 | 90.890          | 325.870     | 8213.64  | 6663.64    | 2365.60        | 3600.38    | 1258.42   | 1802748.63        | 421496.14          | 39°39'20.6512"N | 80°05'19.3854"W | 3813.96           | 19.266          | 0.98          | 0.81                 | -0.56               |
| 12230.00 | 88.800          | 327.250     | 8213.89  | 6663.89    | 2459.58        | 3678.81    | 1206.62   | 1802696.84        | 421574.56          | 39°39'21.4230"N | 80°05'20.0542"W | 3871.64           | 18.159          | 2.66          | -2.22                | 1.47                |
| 12325.00 | 88.800          | 326.980     | 8215.88  | 6665.88    | 2554.56        | 3758.57    | 1155.05   | 1802645.27        | 421654.32          | 39°39'22.2079"N | 80°05'20.7202"W | 3932.05           | 17.083          | 0.28          | 0.00                 | -0.26               |
| 12420.00 | 90.980          | 326.630     | 8216.06  | 6666.06    | 2649.54        | 3838.06    | 1103.04   | 1802593.27        | 421733.81          | 39°39'22.9901"N | 80°05'21.3918"W | 3993.42           | 16.034          | 2.32          | 2.29                 | -0.37               |
| 12514.00 | 91.570          | 327.340     | 8213.97  | 6663.97    | 2743.51        | 3916.86    | 1051.84   | 1802542.07        | 421812.60          | 39°39'23.7655"N | 80°05'22.0531"W | 4055.64           | 15.032          | 0.98          | 0.63                 | 0.76                |
| 12609.00 | 90.980          | 327.280     | 8211.86  | 6661.86    | 2838.49        | 3996.79    | 1000.54   | 1802490.77        | 421892.53          | 39°39'24.5522"N | 80°05'22.7157"W | 4120.13           | 14.054          | 0.62          | -0.62                | -0.06               |
| 12703.00 | 90.830          | 327.350     | 8210.37  | 6660.37    | 2932.47        | 4075.90    | 949.79    | 1802440.02        | 421971.63          | 39°39'25.3307"N | 80°05'23.3712"W | 4185.10           | 13.117          | 0.18          | -0.16                | 0.07                |
| 12798.00 | 90.770          | 327.190     | 8209.05  | 6659.05    | 3027.46        | 4155.81    | 898.43    | 1802388.66        | 422051.53          | 39°39'26.1170"N | 80°05'24.0346"W | 4251.81           | 12.199          | 0.18          | -0.06                | -0.17               |
| 12893.00 | 90.890          | 327.340     | 8207.67  | 6657.67    | 3122.45        | 4235.71    | 847.06    | 1802337.30        | 422131.43          | 39°39'26.9034"N | 80°05'24.6981"W | 4319.58           | 11.309          | 0.20          | 0.13                 | 0.16                |
| 12987.00 | 91.170          | 327.500     | 8205.98  | 6655.98    | 3216.44        | 4314.91    | 796.45    | 1802286.70        | 422210.62          | 39°39'27.6827"N | 80°05'25.3518"W | 4387.80           | 10.458          | 0.34          | 0.30                 | 0.17                |
| 13082.00 | 91.020          | 327.380     | 8204.17  | 6654.17    | 3311.42        | 4394.96    | 745.34    | 1802235.58        | 422290.67          | 39°39'28.4706"N | 80°05'26.0121"W | 4457.71           | 9.625           | 0.20          | -0.16                | -0.13               |
| 13177.00 | 91.200          | 327.410     | 8202.33  | 6652.33    | 3406.40        | 4474.98    | 694.16    | 1802184.40        | 422370.68          | 39°39'29.2580"N | 80°05'26.6732"W | 4528.49           | 8.817           | 0.19          | 0.19                 | 0.03                |
| 13271.00 | 90.710          | 327.080     | 8200.76  | 6650.76    | 3500.38        | 4554.02    | 643.30    | 1802133.56        | 422449.72          | 39°39'30.0358"N | 80°05'27.3301"W | 4599.23           | 8.040           | 0.63          | -0.52                | -0.35               |
| 13366.00 | 90.400          | 327.090     | 8199.84  | 6649.84    | 3595.38        | 4633.76    | 591.68    | 1802081.94        | 422529.46          | 39°39'30.8206"N | 80°05'27.9968"W | 4671.39           | 7.277           | 0.33          | -0.33                | 0.01                |
| 13460.00 | 90.620          | 326.090     | 8199.00  | 6649.00    | 3689.36        | 4712.23    | 539.93    | 1802030.19        | 422607.92          | 39°39'31.5926"N | 80°05'28.6651"W | 4743.06           | 6.536           | 1.09          | 0.23                 | -1.06               |
| 13555.00 | 90.680          | 327.930     | 8197.93  | 6647.93    | 3784.34        | 4791.90    | 488.21    | 1801978.47        | 422687.59          | 39°39'32.3767"N | 80°05'29.3331"W | 4816.71           | 5.817           | 1.94          | 0.06                 | 1.94                |

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Dolls Run 9H AWP Proj: 24465'

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## REFERENCE WELLPATH IDENTIFICATION

|          |                               |           |                  |
|----------|-------------------------------|-----------|------------------|
| Operator | NORTHEAST NATURAL ENERGY, LLC | Well      | Dolls Run 9H     |
| Field    | Monongalia                    | API/Legal |                  |
| Facility | Dolls Run Pad                 | Wellbore  | Dolls Run 9H AWB |
| Slot     | Slot #9H                      |           |                  |

## WELLPATH DATA (267 stations)

| MD<br>[ft] | Inclination<br>[°] | Azimuth<br>[°] | TVD<br>[ft] | TVDSS<br>[ft] | Vert Sect<br>[ft] | North<br>[ft] | East<br>[ft] | Grid East<br>[US ft] | Grid North<br>[US ft] | Latitude        | Longitude       | Closure Dist<br>[ft] | Closure Dir<br>[°] | DLS<br>[°/100ft] | Build Rate<br>[°/100ft] | Turn Rate<br>[°/100ft] |
|------------|--------------------|----------------|-------------|---------------|-------------------|---------------|--------------|----------------------|-----------------------|-----------------|-----------------|----------------------|--------------------|------------------|-------------------------|------------------------|
| 13650.00   | 91.380             | 328.510        | 8196.22     | 6646.22       | 3879.32           | 4872.64       | 438.18       | 1801928.45           | 422768.33             | 39°39'33.1714"N | 80°05'29.9795"W | 4892.31              | 5.139              | 0.96             | 0.74                    | 0.61                   |
| 13744.00   | 90.860             | 328.340        | 8194.38     | 6644.38       | 3973.29           | 4952.71       | 388.97       | 1801879.24           | 422848.39             | 39°39'33.9595"N | 80°05'30.6155"W | 4967.96              | 4.491              | 0.58             | -0.55                   | -0.18                  |
| 13839.00   | 90.000             | 328.270        | 8193.67     | 6643.67       | 4068.28           | 5033.54       | 339.06       | 1801829.33           | 422929.21             | 39°39'34.7550"N | 80°05'31.2605"W | 5044.95              | 3.854              | 0.91             | -0.91                   | -0.07                  |
| 13933.00   | 90.620             | 328.470        | 8193.16     | 6643.16       | 4162.27           | 5113.58       | 289.77       | 1801780.04           | 423009.24             | 39°39'35.5428"N | 80°05'31.8975"W | 5121.78              | 3.243              | 0.69             | 0.66                    | 0.21                   |
| 14028.00   | 90.580             | 328.200        | 8192.16     | 6642.16       | 4257.26           | 5194.43       | 239.90       | 1801730.17           | 423090.09             | 39°39'36.3386"N | 80°05'32.5419"W | 5199.97              | 2.644              | 0.29             | -0.04                   | -0.28                  |
| 14122.00   | 89.720             | 328.490        | 8191.92     | 6641.92       | 4351.25           | 5274.44       | 190.57       | 1801680.85           | 423170.10             | 39°39'37.1261"N | 80°05'33.1794"W | 5277.88              | 2.069              | 0.97             | -0.91                   | 0.31                   |
| 14216.00   | 89.230             | 327.450        | 8192.78     | 6642.78       | 4445.24           | 5354.13       | 140.72       | 1801631.00           | 423249.78             | 39°39'37.9104"N | 80°05'33.8236"W | 5355.98              | 1.505              | 1.22             | -0.52                   | -1.11                  |
| 14311.00   | 88.950             | 327.800        | 8194.29     | 6644.29       | 4540.23           | 5434.35       | 89.85        | 1801580.14           | 423330.00             | 39°39'38.6999"N | 80°05'34.4807"W | 5435.09              | 0.947              | 0.47             | -0.29                   | 0.37                   |
| 14405.00   | 89.200             | 328.160        | 8195.81     | 6645.81       | 4634.21           | 5514.04       | 40.02        | 1801530.31           | 423409.68             | 39°39'39.4841"N | 80°05'35.1246"W | 5514.18              | 0.416              | 0.47             | 0.27                    | 0.38                   |
| 14500.00   | 89.350             | 327.970        | 8197.01     | 6647.01       | 4729.20           | 5594.65       | -10.23       | 1801480.07           | 423490.29             | 39°39'40.2776"N | 80°05'35.7739"W | 5594.66              | 359.895            | 0.25             | 0.16                    | -0.20                  |
| 14595.00   | 89.320             | 328.110        | 8198.11     | 6648.11       | 4824.19           | 5675.25       | -60.51       | 1801429.79           | 423570.88             | 39°39'41.0708"N | 80°05'36.4236"W | 5675.57              | 359.389            | 0.15             | -0.03                   | 0.15                   |
| 14690.00   | 89.230             | 328.360        | 8199.31     | 6649.31       | 4919.18           | 5756.01       | -110.52      | 1801379.78           | 423651.64             | 39°39'41.8657"N | 80°05'37.0698"W | 5757.07              | 358.900            | 0.28             | -0.09                   | 0.26                   |
| 14785.00   | 89.540             | 328.750        | 8200.33     | 6650.33       | 5014.16           | 5837.06       | -160.07      | 1801330.23           | 423732.68             | 39°39'42.6634"N | 80°05'37.7103"W | 5839.25              | 358.429            | 0.52             | 0.33                    | 0.41                   |
| 14879.00   | 90.740             | 328.550        | 8200.10     | 6650.10       | 5108.14           | 5917.33       | -208.98      | 1801281.33           | 423812.95             | 39°39'43.4535"N | 80°05'38.3424"W | 5921.02              | 357.977            | 1.29             | 1.28                    | -0.21                  |
| 14974.00   | 90.220             | 327.940        | 8199.31     | 6649.31       | 5203.13           | 5998.11       | -258.97      | 1801231.33           | 423893.72             | 39°39'44.2485"N | 80°05'38.9885"W | 6003.69              | 357.528            | 0.84             | -0.55                   | -0.64                  |
| 15069.00   | 88.740             | 327.480        | 8200.17     | 6650.17       | 5298.13           | 6078.41       | -309.72      | 1801180.59           | 423974.02             | 39°39'45.0388"N | 80°05'39.6442"W | 6086.30              | 357.083            | 1.63             | -1.56                   | -0.48                  |
| 15163.00   | 88.890             | 328.340        | 8202.11     | 6652.11       | 5392.10           | 6158.03       | -359.64      | 1801130.67           | 424053.63             | 39°39'45.8224"N | 80°05'40.2893"W | 6168.52              | 356.658            | 0.93             | 0.16                    | 0.91                   |
| 15257.00   | 88.210             | 328.160        | 8204.49     | 6654.49       | 5486.07           | 6237.94       | -409.09      | 1801081.22           | 424133.54             | 39°39'46.6088"N | 80°05'40.9284"W | 6251.34              | 356.248            | 0.75             | -0.72                   | -0.19                  |
| 15352.00   | 89.110             | 328.190        | 8206.71     | 6656.71       | 5581.03           | 6318.63       | -459.17      | 1801031.14           | 424214.23             | 39°39'47.4031"N | 80°05'41.5756"W | 6335.29              | 355.844            | 0.95             | 0.95                    | 0.03                   |
| 15447.00   | 89.080             | 328.060        | 8208.21     | 6658.21       | 5676.02           | 6399.30       | -509.33      | 1800980.99           | 424294.88             | 39°39'48.1970"N | 80°05'42.2238"W | 6419.53              | 355.449            | 0.14             | -0.03                   | -0.14                  |
| 15542.00   | 88.550             | 328.110        | 8210.18     | 6660.18       | 5770.99           | 6479.92       | -559.55      | 1800930.78           | 424375.50             | 39°39'48.9904"N | 80°05'42.8727"W | 6504.03              | 355.065            | 0.56             | -0.56                   | 0.05                   |
| 15636.00   | 88.860             | 328.420        | 8212.30     | 6662.30       | 5864.96           | 6559.84       | -608.98      | 1800881.35           | 424455.42             | 39°39'49.7771"N | 80°05'43.5115"W | 6588.05              | 354.696            | 0.47             | 0.33                    | 0.33                   |
| 15731.00   | 88.680             | 328.390        | 8214.34     | 6664.34       | 5959.93           | 6640.74       | -658.74      | 1800831.59           | 424536.32             | 39°39'50.5733"N | 80°05'44.1546"W | 6673.34              | 354.335            | 0.19             | -0.19                   | -0.03                  |
| 15825.00   | 88.680             | 328.420        | 8216.51     | 6666.51       | 6053.90           | 6720.79       | -707.97      | 1800782.36           | 424616.36             | 39°39'51.3611"N | 80°05'44.7910"W | 6757.97              | 353.987            | 0.03             | 0.00                    | 0.03                   |
| 15920.00   | 88.860             | 328.290        | 8218.55     | 6668.55       | 6148.87           | 6801.64       | -757.80      | 1800732.54           | 424697.21             | 39°39'52.1570"N | 80°05'45.4350"W | 6843.73              | 353.643            | 0.23             | 0.19                    | -0.14                  |
| 16015.00   | 88.800             | 328.250        | 8220.49     | 6670.49       | 6243.84           | 6882.43       | -807.75      | 1800682.59           | 424777.99             | 39°39'52.9520"N | 80°05'46.0806"W | 6929.67              | 353.306            | 0.08             | -0.06                   | -0.04                  |
| 16110.00   | 88.580             | 328.070        | 8222.66     | 6672.66       | 6338.81           | 6963.11       | -857.86      | 1800632.49           | 424858.67             | 39°39'53.7461"N | 80°05'46.7281"W | 7015.76              | 352.977            | 0.30             | -0.23                   | -0.19                  |
| 16204.00   | 89.020             | 327.600        | 8224.63     | 6674.63       | 6432.79           | 7042.67       | -907.89      | 1800582.46           | 424938.22             | 39°39'54.5291"N | 80°05'47.3746"W | 7100.95              | 352.654            | 0.68             | 0.47                    | -0.50                  |
| 16299.00   | 89.320             | 327.310        | 8226.00     | 6676.00       | 6527.78           | 7122.74       | -958.99      | 1800531.36           | 425018.28             | 39°39'55.3170"N | 80°05'48.0349"W | 7187.01              | 352.332            | 0.44             | 0.32                    | -0.31                  |
| 16393.00   | 88.620             | 326.840        | 8227.69     | 6677.69       | 6621.76           | 7201.63       | -1010.07     | 1800480.28           | 425097.17             | 39°39'56.0933"N | 80°05'48.6948"W | 7272.12              | 352.016            | 0.90             | -0.74                   | -0.50                  |

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Dolls Run 9H AWP Proj: 24465'

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## REFERENCE WELLPATH IDENTIFICATION

|          |                               |           |                  |
|----------|-------------------------------|-----------|------------------|
| Operator | NORTHEAST NATURAL ENERGY, LLC | Well      | Dolls Run 9H     |
| Field    | Monongalia                    | API/Legal |                  |
| Facility | Dolls Run Pad                 | Wellbore  | Dolls Run 9H AWB |
| Slot     | Slot #9H                      |           |                  |

## WELLPATH DATA (267 stations)

| MD [ft]  | Inclination [°] | Azimuth [°] | TVD [ft] | TVDSS [ft] | Vert Sect [ft] | North [ft] | East [ft] | Grid East [US ft] | Grid North [US ft] | Latitude        | Longitude       | Closure Dist [ft] | Closure Dir [°] | DLS ["/100ft] | Build Rate ["/100ft] | Turn Rate ["/100ft] |
|----------|-----------------|-------------|----------|------------|----------------|------------|-----------|-------------------|--------------------|-----------------|-----------------|-------------------|-----------------|---------------|----------------------|---------------------|
| 16487.00 | 88.550          | 327.360     | 8230.01  | 6680.01    | 6715.73        | 7280.53    | -1061.11  | 1800429.24        | 425176.06          | 39°39'56.8697"N | 80°05'49.3542"W | 7357.45           | 351.708         | 0.56          | -0.07                | 0.55                |
| 16581.00 | 88.550          | 326.780     | 8232.39  | 6682.39    | 6809.69        | 7359.40    | -1112.20  | 1800378.16        | 425254.93          | 39°39'57.6458"N | 80°05'50.0141"W | 7442.97           | 351.406         | 0.62          | 0.00                 | -0.62               |
| 16675.00 | 89.050          | 327.190     | 8234.36  | 6684.36    | 6903.67        | 7436.21    | -1163.40  | 1800326.96        | 425333.73          | 39°39'58.4212"N | 80°05'50.6756"W | 7528.64           | 351.110         | 0.69          | 0.53                 | 0.44                |
| 16770.00 | 88.680          | 327.260     | 8236.24  | 6686.24    | 6998.65        | 7518.07    | -1214.82  | 1800275.54        | 425413.59          | 39°39'59.2071"N | 80°05'51.3399"W | 7615.58           | 350.821         | 0.40          | -0.39                | 0.07                |
| 16864.00 | 88.340          | 326.860     | 8238.69  | 6688.69    | 7092.61        | 7596.93    | -1265.92  | 1800224.45        | 425492.44          | 39°39'59.9831"N | 80°05'52.0000"W | 7701.68           | 350.539         | 0.56          | -0.36                | -0.43               |
| 16958.00 | 88.860          | 327.420     | 8240.98  | 6690.98    | 7186.58        | 7675.86    | -1316.90  | 1800173.47        | 425571.37          | 39°40'0.7599"N  | 80°05'52.6587"W | 7788.01           | 350.265         | 0.81          | 0.55                 | 0.60                |
| 17053.00 | 89.720          | 327.470     | 8242.16  | 6692.16    | 7281.57        | 7755.93    | -1368.02  | 1800122.35        | 425651.43          | 39°40'1.5478"N  | 80°05'53.3191"W | 7875.65           | 349.997         | 0.91          | 0.91                 | 0.05                |
| 17147.00 | 89.510          | 327.150     | 8242.79  | 6692.79    | 7375.57        | 7835.04    | -1418.79  | 1800071.59        | 425730.54          | 39°40'2.3262"N  | 80°05'53.9751"W | 7962.46           | 349.736         | 0.41          | -0.22                | -0.34               |
| 17242.00 | 88.430          | 327.000     | 8244.50  | 6694.50    | 7470.55        | 7914.77    | -1470.41  | 1800019.97        | 425810.26          | 39°40'3.1107"N  | 80°05'54.6420"W | 8050.19           | 349.476         | 1.15          | -1.14                | -0.16               |
| 17336.00 | 89.200          | 327.230     | 8246.44  | 6696.44    | 7564.52        | 7993.69    | -1521.44  | 1799968.94        | 425889.18          | 39°40'3.8873"N  | 80°05'55.3013"W | 8137.19           | 349.224         | 0.85          | 0.82                 | 0.24                |
| 17431.00 | 89.540          | 327.370     | 8247.49  | 6697.49    | 7659.51        | 8073.62    | -1572.76  | 1799917.63        | 425969.11          | 39°40'4.6739"N  | 80°05'55.9643"W | 8225.39           | 348.977         | 0.39          | 0.36                 | 0.15                |
| 17526.00 | 88.740          | 327.290     | 8248.91  | 6698.91    | 7754.50        | 8153.58    | -1624.04  | 1799866.35        | 426049.07          | 39°40'5.4608"N  | 80°05'56.6268"W | 8313.75           | 348.735         | 0.85          | -0.84                | -0.08               |
| 17620.00 | 88.490          | 326.780     | 8251.19  | 6701.19    | 7848.47        | 8232.43    | -1675.17  | 1799815.22        | 426127.90          | 39°40'6.2366"N  | 80°05'57.2874"W | 8401.13           | 348.498         | 0.60          | -0.27                | -0.54               |
| 17715.00 | 88.650          | 326.880     | 8253.56  | 6703.56    | 7943.43        | 8311.92    | -1727.13  | 1799763.27        | 426207.39          | 39°40'7.0188"N  | 80°05'57.9587"W | 8489.47           | 348.262         | 0.20          | 0.17                 | 0.11                |
| 17810.00 | 88.740          | 327.330     | 8255.72  | 6705.72    | 8038.40        | 8391.67    | -1778.71  | 1799711.69        | 426287.14          | 39°40'7.8035"N  | 80°05'58.6251"W | 8578.11           | 348.033         | 0.48          | 0.09                 | 0.47                |
| 17905.00 | 87.820          | 326.830     | 8258.57  | 6708.57    | 8133.35        | 8471.38    | -1830.32  | 1799660.09        | 426366.84          | 39°40'8.5878"N  | 80°05'59.2918"W | 8666.85           | 347.808         | 1.10          | -0.97                | -0.53               |
| 17999.00 | 87.940          | 327.230     | 8262.05  | 6712.05    | 8227.28        | 8550.19    | -1881.44  | 1799608.97        | 426445.64          | 39°40'9.3633"N  | 80°05'59.9522"W | 8754.74           | 347.590         | 0.44          | 0.13                 | 0.43                |
| 18094.00 | 88.580          | 327.290     | 8264.93  | 6714.93    | 8322.24        | 8630.06    | -1932.79  | 1799557.62        | 426525.51          | 39°40'10.1492"N | 80°06'0.6158"W  | 8843.84           | 347.376         | 0.68          | 0.67                 | 0.06                |
| 18189.00 | 88.060          | 326.970     | 8267.72  | 6717.72    | 8417.19        | 8709.81    | -1984.33  | 1799506.08        | 426605.26          | 39°40'10.9340"N | 80°06'1.2817"W  | 8933.00           | 347.166         | 0.64          | -0.55                | -0.34               |
| 18283.00 | 88.000          | 326.950     | 8270.95  | 6720.95    | 8511.13        | 8788.57    | -2035.55  | 1799454.87        | 426684.01          | 39°40'11.7090"N | 80°06'1.9434"W  | 9021.22           | 346.959         | 0.07          | -0.06                | -0.02               |
| 18378.00 | 88.060          | 326.830     | 8274.22  | 6724.22    | 8606.07        | 8868.09    | -2087.41  | 1799403.01        | 426763.53          | 39°40'12.4915"N | 80°06'2.6134"W  | 9110.45           | 346.755         | 0.14          | 0.06                 | -0.13               |
| 18473.00 | 87.970          | 327.240     | 8277.51  | 6727.51    | 8701.01        | 8947.75    | -2139.07  | 1799351.35        | 426843.18          | 39°40'13.2753"N | 80°06'3.2809"W  | 9199.88           | 346.555         | 0.44          | -0.09                | 0.43                |
| 18568.00 | 87.750          | 327.500     | 8281.05  | 6731.05    | 8795.94        | 9027.70    | -2190.26  | 1799300.16        | 426923.13          | 39°40'14.0620"N | 80°06'3.9423"W  | 9289.60           | 346.363         | 0.36          | -0.23                | 0.27                |
| 18662.00 | 87.010          | 327.370     | 8285.35  | 6735.35    | 8889.84        | 9106.84    | -2240.80  | 1799249.62        | 427002.26          | 39°40'14.8408"N | 80°06'4.5955"W  | 9378.47           | 346.177         | 0.80          | -0.79                | -0.14               |
| 18756.00 | 87.850          | 326.680     | 8289.57  | 6739.57    | 8983.74        | 9185.62    | -2291.91  | 1799198.52        | 427081.03          | 39°40'15.6159"N | 80°06'5.2558"W  | 9467.23           | 345.990         | 1.16          | 0.89                 | -0.73               |
| 18851.00 | 87.780          | 327.000     | 8293.19  | 6743.19    | 9078.66        | 9265.09    | -2343.84  | 1799146.59        | 427160.50          | 39°40'16.3979"N | 80°06'5.9266"W  | 9556.96           | 345.803         | 0.34          | -0.07                | 0.34                |
| 18946.00 | 87.780          | 327.280     | 8296.67  | 6746.67    | 9173.59        | 9344.83    | -2395.35  | 1799095.09        | 427240.23          | 39°40'17.1825"N | 80°06'6.5921"W  | 9646.94           | 345.623         | 0.29          | 0.00                 | 0.29                |
| 19040.00 | 88.120          | 327.090     | 8300.23  | 6750.23    | 9267.53        | 9423.78    | -2446.25  | 1799044.19        | 427319.18          | 39°40'17.9593"N | 80°06'7.2499"W  | 9736.10           | 345.448         | 0.41          | 0.36                 | -0.20               |
| 19134.00 | 89.290          | 327.080     | 8302.35  | 6752.35    | 9361.50        | 9502.67    | -2497.32  | 1798993.12        | 427398.06          | 39°40'18.7356"N | 80°06'7.9097"W  | 9825.34           | 345.276         | 1.24          | 1.24                 | -0.01               |
| 19229.00 | 89.110          | 327.000     | 8303.68  | 6753.68    | 9456.48        | 9582.37    | -2549.00  | 1798941.45        | 427477.76          | 39°40'19.5198"N | 80°06'8.5775"W  | 9915.60           | 345.104         | 0.21          | -0.19                | -0.08               |

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# Actual Wellpath Report

Dolls Run 9H AWP Proj: 24465'

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## REFERENCE WELLPATH IDENTIFICATION

|          |                               |           |                  |
|----------|-------------------------------|-----------|------------------|
| Operator | NORTHEAST NATURAL ENERGY, LLC | Well      | Dolls Run 9H     |
| Field    | Monongalia                    | API/Legal |                  |
| Facility | Dolls Run Pad                 | Wellbore  | Dolls Run 9H AWB |
| Slot     | Slot #9H                      |           |                  |

## WELLPATH DATA (267 stations)

| MD [ft]  | Inclination [°] | Azimuth [°] | TVD [ft] | TVDSS [ft] | Vert Sect [ft] | North [ft] | East [ft] | Grid East [US ft] | Grid North [US ft] | Latitude        | Longitude       | Closure Dist [ft] | Closure Dir [°] | DLS [°/100ft] | Build Rate [°/100ft] | Turn Rate [°/100ft] |
|----------|-----------------|-------------|----------|------------|----------------|------------|-----------|-------------------|--------------------|-----------------|-----------------|-------------------|-----------------|---------------|----------------------|---------------------|
| 19323.00 | 90.090          | 326.520     | 8304.34  | 6754.34    | 9550.47        | 9660.98    | 2800.52   | 1798889.93        | 427556.37          | 39°40'20.2934"N | 80°06'9.2431"W  | 10004.87          | 344.934         | 1.16          | 1.04                 | -0.51               |
| 19418.00 | 89.170          | 326.750     | 8304.95  | 6754.95    | 9645.45        | 9740.32    | 2652.77   | 1798837.68        | 427635.71          | 39°40'21.0740"N | 80°06'9.9181"W  | 10095.10          | 344.765         | 1.00          | -0.97                | 0.24                |
| 19513.00 | 87.780          | 327.800     | 8307.48  | 6757.48    | 9740.41        | 9820.21    | -2704.11  | 1798786.35        | 427715.59          | 39°40'21.8601"N | 80°06'10.5815"W | 10185.71          | 344.605         | 1.83          | -1.46                | 1.11                |
| 19607.00 | 87.630          | 328.030     | 8311.24  | 6761.24    | 9834.34        | 9899.79    | -2754.00  | 1798736.46        | 427795.17          | 39°40'22.6433"N | 80°06'11.2263"W | 10275.72          | 344.454         | 0.29          | -0.16                | 0.24                |
| 19702.00 | 88.000          | 328.160     | 8314.87  | 6764.87    | 9929.26        | 9980.38    | -2804.17  | 1798686.29        | 427875.75          | 39°40'23.4364"N | 80°06'11.8749"W | 10366.84          | 344.306         | 0.41          | 0.39                 | 0.14                |
| 19797.00 | 87.450          | 328.010     | 8318.64  | 6768.64    | 10024.18       | 10060.96   | -2854.35  | 1798636.11        | 427956.32          | 39°40'24.2293"N | 80°06'12.5236"W | 10458.02          | 344.161         | 0.60          | -0.58                | -0.16               |
| 19891.00 | 87.750          | 328.010     | 8322.57  | 6772.57    | 10118.10       | 10140.61   | -2904.11  | 1798586.36        | 428035.97          | 39°40'25.0132"N | 80°06'13.1667"W | 10548.26          | 344.019         | 0.32          | 0.32                 | 0.00                |
| 19986.00 | 87.940          | 328.500     | 8326.15  | 6776.15    | 10213.03       | 10221.34   | -2954.05  | 1798536.42        | 428116.70          | 39°40'25.8077"N | 80°06'13.8124"W | 10639.66          | 343.880         | 0.55          | 0.20                 | 0.52                |
| 20081.00 | 87.350          | 327.740     | 8330.05  | 6780.05    | 10307.94       | 10301.94   | -3004.18  | 1798486.29        | 428197.29          | 39°40'26.6010"N | 80°06'14.4604"W | 10731.04          | 343.743         | 1.01          | -0.62                | -0.80               |
| 20175.00 | 87.880          | 328.050     | 8333.96  | 6783.96    | 10401.86       | 10381.50   | -3054.10  | 1798436.38        | 428276.84          | 39°40'27.3839"N | 80°06'15.1056"W | 10821.42          | 343.607         | 0.65          | 0.56                 | 0.33                |
| 20270.00 | 87.820          | 328.270     | 8337.52  | 6787.52    | 10496.79       | 10462.15   | -3104.18  | 1798386.30        | 428357.49          | 39°40'28.1775"N | 80°06'15.7531"W | 10912.95          | 343.474         | 0.24          | -0.06                | 0.23                |
| 20364.00 | 87.450          | 327.890     | 8341.40  | 6791.40    | 10590.70       | 10541.86   | -3153.84  | 1798336.64        | 428437.20          | 39°40'28.9621"N | 80°06'16.3950"W | 11003.53          | 343.344         | 0.56          | -0.39                | -0.40               |
| 20459.00 | 88.090          | 328.010     | 8345.10  | 6795.10    | 10685.63       | 10622.32   | -3204.21  | 1798286.27        | 428517.65          | 39°40'29.7539"N | 80°06'17.0461"W | 11095.08          | 343.214         | 0.69          | 0.67                 | 0.13                |
| 20554.00 | 88.550          | 328.160     | 8347.89  | 6797.89    | 10780.58       | 10702.93   | -3254.42  | 1798236.07        | 428598.25          | 39°40'30.5471"N | 80°06'17.6951"W | 11186.77          | 343.087         | 0.51          | 0.48                 | 0.16                |
| 20648.00 | 88.740          | 327.900     | 8350.11  | 6800.11    | 10874.55       | 10782.65   | -3304.17  | 1798186.32        | 428677.97          | 39°40'31.3316"N | 80°06'18.3383"W | 11277.55          | 342.963         | 0.34          | 0.20                 | -0.28               |
| 20743.00 | 88.950          | 328.050     | 8352.02  | 6802.02    | 10969.53       | 10863.17   | -3354.54  | 1798135.96        | 428758.49          | 39°40'32.1241"N | 80°06'18.9894"W | 11369.32          | 342.839         | 0.27          | 0.22                 | 0.16                |
| 20838.00 | 88.980          | 328.060     | 8353.74  | 6803.74    | 11064.51       | 10943.77   | -3404.80  | 1798085.70        | 428839.08          | 39°40'32.9173"N | 80°06'19.6391"W | 11461.19          | 342.718         | 0.03          | 0.03                 | 0.01                |
| 20933.00 | 88.830          | 327.940     | 8355.55  | 6805.55    | 11159.50       | 11024.32   | -3455.13  | 1798035.37        | 428919.63          | 39°40'33.7100"N | 80°06'20.2897"W | 11553.08          | 342.599         | 0.20          | -0.16                | -0.13               |
| 21028.00 | 88.860          | 328.030     | 8357.47  | 6807.47    | 11254.47       | 11104.86   | -3505.48  | 1797985.02        | 429000.16          | 39°40'34.5025"N | 80°06'20.9406"W | 11645.01          | 342.481         | 0.10          | 0.03                 | 0.09                |
| 21122.00 | 88.800          | 327.850     | 8359.39  | 6809.39    | 11348.45       | 11184.51   | -3555.37  | 1797935.14        | 429079.80          | 39°40'35.2863"N | 80°06'21.5855"W | 11736.01          | 342.365         | 0.20          | -0.06                | -0.16               |
| 21217.00 | 88.950          | 327.680     | 8361.25  | 6811.25    | 11443.43       | 11264.85   | -3606.03  | 1797884.48        | 429160.14          | 39°40'36.0770"N | 80°06'22.2404"W | 11827.94          | 342.249         | 0.24          | 0.16                 | -0.16               |
| 21311.00 | 89.110          | 327.850     | 8362.85  | 6812.85    | 11537.42       | 11344.35   | -3656.16  | 1797834.35        | 429239.63          | 39°40'36.8593"N | 80°06'22.8884"W | 11918.97          | 342.136         | 0.25          | 0.17                 | 0.16                |
| 21406.00 | 88.920          | 328.200     | 8364.48  | 6814.48    | 11632.40       | 11424.92   | -3706.46  | 1797784.06        | 429320.20          | 39°40'37.6522"N | 80°06'23.5386"W | 12011.11          | 342.026         | 0.42          | -0.20                | 0.37                |
| 21500.00 | 88.680          | 327.580     | 8366.45  | 6816.45    | 11726.38       | 11504.53   | -3756.42  | 1797734.10        | 429399.80          | 39°40'38.4356"N | 80°06'24.1844"W | 12102.26          | 341.917         | 0.71          | -0.26                | -0.66               |
| 21595.00 | 90.090          | 328.300     | 8367.47  | 6817.47    | 11821.37       | 11585.03   | -3806.84  | 1797683.69        | 429480.30          | 39°40'39.2278"N | 80°06'24.8362"W | 12194.46          | 341.809         | 1.67          | 1.48                 | 0.76                |
| 21689.00 | 89.850          | 328.040     | 8367.52  | 6817.52    | 11915.37       | 11664.89   | -3856.41  | 1797634.11        | 429560.16          | 39°40'40.0138"N | 80°06'25.4772"W | 12285.83          | 341.706         | 0.38          | -0.26                | -0.28               |
| 21784.00 | 89.720          | 327.980     | 8367.87  | 6817.87    | 12010.36       | 11745.47   | -3906.74  | 1797583.79        | 429640.73          | 39°40'40.8067"N | 80°06'26.1278"W | 12378.15          | 341.602         | 0.15          | -0.14                | -0.06               |
| 21878.00 | 89.910          | 328.080     | 8368.18  | 6818.18    | 12104.36       | 11825.21   | -3956.51  | 1797534.02        | 429720.47          | 39°40'41.5914"N | 80°06'26.7712"W | 12469.55          | 341.501         | 0.23          | 0.20                 | 0.11                |
| 21973.00 | 89.170          | 327.910     | 8368.94  | 6818.94    | 12199.35       | 11905.77   | -4006.86  | 1797483.68        | 429801.02          | 39°40'42.3842"N | 80°06'27.4221"W | 12561.93          | 341.399         | 0.80          | -0.78                | -0.18               |
| 22068.00 | 88.980          | 328.440     | 8370.47  | 6820.47    | 12294.34       | 11986.47   | -4056.95  | 1797433.59        | 429881.72          | 39°40'43.1784"N | 80°06'28.0697"W | 12654.42          | 341.301         | 0.59          | -0.20                | 0.56                |

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# Actual Wellpath Report

Dolls Run 9H AWP Proj: 24465'

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| REFERENCE WELLPATH IDENTIFICATION |                               |           |                  |
|-----------------------------------|-------------------------------|-----------|------------------|
| Operator                          | NORTHEAST NATURAL ENERGY, LLC | Well      | Dolls Run 9H     |
| Field                             | Monongalia                    | API/Legal |                  |
| Facility                          | Dolls Run Pad                 | Wellbore  | Dolls Run 9H AWP |
| Slot                              | Slot #9H                      |           |                  |

| WELLPATH DATA (267 stations) † = interpolated, ‡ = extrapolated station |                    |                |             |               |                   |               |              |                      |                       |                 |                 |                      |                    |                  |                         |                        |
|-------------------------------------------------------------------------|--------------------|----------------|-------------|---------------|-------------------|---------------|--------------|----------------------|-----------------------|-----------------|-----------------|----------------------|--------------------|------------------|-------------------------|------------------------|
| MD<br>[ft]                                                              | Inclination<br>[°] | Azimuth<br>[°] | TVD<br>[ft] | TVDSS<br>[ft] | Vert Sect<br>[ft] | North<br>[ft] | East<br>[ft] | Grid East<br>[US ft] | Grid North<br>[US ft] | Latitude        | Longitude       | Closure Dist<br>[ft] | Closure Dir<br>[°] | DLS<br>[°/100ft] | Build Rate<br>[°/100ft] | Turn Rate<br>[°/100ft] |
| 22162.00                                                                | 90.310             | 327.990        | 8371.05     | 6821.05       | 12388.33          | 12066.37      | -4106.48     | 1797384.08           | 429961.61             | 39°40'43.9647"N | 80°06'28.7098"W | 12745.99             | 341.205            | 1.49             | 1.41                    | -0.48                  |
| 22257.00                                                                | 90.310             | 328.020        | 8370.54     | 6820.54       | 12483.32          | 12146.94      | -4156.79     | 1797333.75           | 430042.18             | 39°40'44.7576"N | 80°06'29.3606"W | 12838.50             | 341.109            | 0.03             | 0.00                    | 0.03                   |
| 22351.00                                                                | 90.180             | 328.380        | 8370.14     | 6820.14       | 12577.32          | 12226.83      | -4206.33     | 1797284.22           | 430122.06             | 39°40'45.5438"N | 80°06'30.0010"W | 12930.14             | 341.016            | 0.41             | -0.14                   | 0.38                   |
| 22446.00                                                                | 90.120             | 326.820        | 8369.89     | 6819.89       | 12672.31          | 12307.04      | -4257.23     | 1797233.32           | 430202.26             | 39°40'46.3330"N | 80°06'30.6590"W | 13022.56             | 340.919            | 1.64             | -0.06                   | -1.64                  |
| 22541.00                                                                | 90.950             | 327.840        | 8369.00     | 6819.00       | 12767.31          | 12387.00      | -4308.51     | 1797182.05           | 430282.22             | 39°40'47.1199"N | 80°06'31.3217"W | 13114.92             | 340.821            | 1.38             | 0.87                    | 1.07                   |
| 22635.00                                                                | 91.050             | 328.080        | 8367.36     | 6817.36       | 12861.29          | 12466.67      | -4358.37     | 1797132.19           | 430361.89             | 39°40'47.9039"N | 80°06'31.9663"W | 13206.56             | 340.730            | 0.28             | 0.11                    | 0.28                   |
| 22730.00                                                                | 90.890             | 327.780        | 8365.75     | 6815.75       | 12956.27          | 12547.16      | -4408.80     | 1797081.76           | 430442.38             | 39°40'48.6960"N | 80°06'32.6184"W | 13299.20             | 340.640            | 0.36             | -0.17                   | -0.32                  |
| 22825.00                                                                | 91.140             | 328.330        | 8364.07     | 6814.07       | 13051.26          | 12627.76      | -4459.06     | 1797031.51           | 430522.97             | 39°40'49.4891"N | 80°06'33.2681"W | 13391.92             | 340.551            | 0.64             | 0.26                    | 0.58                   |
| 22919.00                                                                | 91.320             | 328.050        | 8362.05     | 6812.05       | 13145.23          | 12707.63      | -4508.59     | 1796981.97           | 430602.83             | 39°40'50.2751"N | 80°06'33.9086"W | 13483.74             | 340.466            | 0.35             | 0.19                    | -0.30                  |
| 23013.00                                                                | † 91.940           | ‡ 327.850      | ‡ 8359.38   | ‡ 6809.38     | ‡ 13239.19        | ‡ 12787.27    | ‡ -4558.45   | ‡ 1796932.11         | ‡ 430682.48           | 39°40'51.0588"N | 80°06'34.5533"W | 13575.48             | 340.380            | 0.69             | 0.66                    | -0.21                  |
| 23108.00                                                                | 91.660             | 327.650        | 8356.40     | 6806.40       | 13334.14          | 12867.57      | -4609.12     | 1796881.45           | 430762.76             | 39°40'51.8490"N | 80°06'35.2083"W | 13668.15             | 340.293            | 0.36             | -0.29                   | -0.21                  |
| 23203.00                                                                | 91.450             | 327.750        | 8353.82     | 6803.82       | 13429.11          | 12947.84      | -4659.87     | 1796830.71           | 430843.03             | 39°40'52.6389"N | 80°06'35.8643"W | 13760.85             | 340.206            | 0.24             | -0.22                   | 0.11                   |
| 23297.00                                                                | 91.200             | 327.980        | 8351.64     | 6801.64       | 13523.08          | 13027.42      | -4709.85     | 1796780.72           | 430922.60             | 39°40'53.4220"N | 80°06'36.5105"W | 13852.67             | 340.123            | 0.36             | -0.27                   | 0.24                   |
| 23392.00                                                                | 90.580             | 327.900        | 8350.17     | 6800.17       | 13618.07          | 13107.92      | -4760.27     | 1796730.31           | 431003.10             | 39°40'54.2141"N | 80°06'37.1624"W | 13945.53             | 340.041            | 0.66             | -0.65                   | -0.08                  |
| 23487.00                                                                | 90.890             | 327.980        | 8348.95     | 6798.95       | 13713.06          | 13188.42      | -4810.71     | 1796679.87           | 431083.59             | 39°40'55.0063"N | 80°06'37.8145"W | 14038.42             | 339.960            | 0.33             | 0.33                    | 0.06                   |
| 23581.00                                                                | 91.080             | 326.950        | 8347.33     | 6797.33       | 13807.04          | 13267.64      | -4861.27     | 1796629.32           | 431162.81             | 39°40'55.7858"N | 80°06'38.4681"W | 14130.19             | 339.877            | 1.09             | 0.20                    | -1.07                  |
| 23676.00                                                                | 92.190             | 326.760        | 8344.62     | 6794.62       | 13901.99          | 13347.15      | -4913.19     | 1796577.40           | 431242.32             | 39°40'56.5681"N | 80°06'39.1390"W | 14222.73             | 339.791            | 1.19             | 1.17                    | -0.20                  |
| 23771.00                                                                | 92.190             | 326.920        | 8340.99     | 6790.99       | 13996.92          | 13426.62      | -4965.12     | 1796525.48           | 431321.78             | 39°40'57.3500"N | 80°06'39.8101"W | 14315.26             | 339.706            | 0.17             | 0.00                    | 0.17                   |
| 23865.00                                                                | 92.180             | 326.920        | 8337.41     | 6787.41       | 14090.84          | 13505.33      | -5016.39     | 1796474.21           | 431400.48             | 39°40'58.1244"N | 80°06'40.4727"W | 14406.87             | 339.623            | 0.01             | -0.01                   | 0.00                   |
| 23960.00                                                                | 92.090             | 327.110        | 8333.87     | 6783.87       | 14185.77          | 13584.96      | -5068.07     | 1796422.53           | 431480.11             | 39°40'58.9079"N | 80°06'41.1407"W | 14499.53             | 339.541            | 0.22             | -0.09                   | 0.20                   |
| 24054.00                                                                | 92.060             | 326.700        | 8330.47     | 6780.47       | 14279.70          | 13663.66      | -5119.36     | 1796371.24           | 431558.80             | 39°40'59.6822"N | 80°06'41.8036"W | 14591.21             | 339.461            | 0.44             | -0.03                   | -0.44                  |
| 24148.00                                                                | 90.620             | 326.800        | 8328.27     | 6778.27       | 14373.66          | 13742.25      | -5170.89     | 1796319.72           | 431637.39             | 39°41'0.4553"N  | 80°06'42.4694"W | 14682.90             | 339.380            | 1.54             | -1.53                   | 0.11                   |
| 24243.00                                                                | 91.170             | 326.730        | 8326.78     | 6776.78       | 14468.64          | 13821.70      | -5222.95     | 1796267.66           | 431716.83             | 39°41'1.2370"N  | 80°06'43.1422"W | 14775.60             | 339.299            | 0.58             | 0.58                    | -0.07                  |
| 24337.00                                                                | 91.170             | 326.560        | 8324.86     | 6774.86       | 14562.61          | 13900.20      | -5274.62     | 1796215.99           | 431795.33             | 39°41'2.0093"N  | 80°06'43.8100"W | 14867.32             | 339.220            | 0.18             | 0.00                    | -0.18                  |
| 24432.00                                                                | 90.800             | 326.320        | 8323.23     | 6773.23       | 14657.57          | 13979.35      | -5327.13     | 1796163.49           | 431874.47             | 39°41'2.7880"N  | 80°06'44.4885"W | 14959.96             | 339.140            | 0.46             | -0.39                   | -0.25                  |
| 24440.00                                                                | 90.490             | 326.120        | 8323.14     | 6773.14       | 14665.57          | 13986.00      | -5331.58     | 1796159.04           | 431881.12             | 39°41'2.8534"N  | 80°06'44.5460"W | 14967.76             | 339.133            | 4.61             | -3.86                   | -2.50                  |
| 24465.00†                                                               | 90.490             | 326.120        | 8322.93     | 6772.93       | 14690.58          | 14006.75      | -5345.51     | 1796145.10           | 431901.88             | 39°41'3.0576"N  | 80°06'44.7261"W | 14992.12             | 339.111            | 0.00             | 0.00                    | 0.00                   |

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# Actual Wellpath Report

Dolls Run 9H AWP Proj: 24465'

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## REFERENCE WELLPATH IDENTIFICATION

|          |                               |           |                  |
|----------|-------------------------------|-----------|------------------|
| Operator | NORTHEAST NATURAL ENERGY, LLC | Well      | Dolls Run 9H     |
| Field    | Monongalia                    | API/Legal |                  |
| Facility | Dolls Run Pad                 | Wellbore  | Dolls Run 9H AWB |
| Slot     | Slot #9H                      |           |                  |

## HOLE & CASING SECTIONS - Ref Wellbore: Dolls Run 9H AWB Ref Wellpath: Dolls Run 9H AWP Proj: 24465'

| String/Diameter             | Start MD [ft] | End MD [ft] | Interval [ft] | Start TVD [ft] | End TVD [ft] | Start N/S [ft] | Start E/W [ft] | End N/S [ft] | End E/W [ft] |
|-----------------------------|---------------|-------------|---------------|----------------|--------------|----------------|----------------|--------------|--------------|
| 17.5in Open Hole            | 28.00         | 983.00      | 955.00        | 28.00          | 982.96       | 0.00           | 0.00           | 4.42         | 4.00         |
| 13.375in Casing Surface     | 28.00         | 953.00      | 925.00        | 28.00          | 952.97       | 0.00           | 0.00           | 4.00         | 3.76         |
| 12.25in Open Hole           | 983.00        | 2437.00     | 1454.00       | 982.96         | 2418.42      | 4.42           | 4.00           | 33.69        | 211.81       |
| 9.625in Casing Intermediate | 28.00         | 2407.00     | 2379.00       | 28.00          | 2388.91      | 0.00           | 0.00           | 34.25        | 206.46       |
| 8.75in Open Hole            | 2437.00       | 7347.00     | 4910.00       | 2418.42        | 6797.76      | 33.69          | 211.81         | 420.13       | 2341.04      |
| 8.5in Open Hole             | 7347.00       | 24465.00    | 17118.00      | 6797.76        | 8322.93      | 420.13         | 2341.04        | 14006.75     | -5345.51     |
| 5.5in Casing Production     | 28.00         | 24435.00    | 24407.00      | 28.00          | 8323.19      | 0.00           | 0.00           | 13981.84     | -5328.79     |

## TARGETS

| Name                           | TVD [ft]                              | North [ft] | East [ft] | Grid East [US ft] | Grid North [US ft] | Latitude        | Longitude       | Shape   |
|--------------------------------|---------------------------------------|------------|-----------|-------------------|--------------------|-----------------|-----------------|---------|
| Dolls Run 9H EXT-BHL Rev-1     | 8280.00                               | 14010.37   | -5341.05  | 1796149.56        | 431905.49          | 39°41'3.0936"N  | 80°06'44.6693"W | point   |
| Dolls Run 9H LP Rev-2          | 8280.00                               | 1337.33    | 2701.89   | 1804192.02        | 419233.22          | 39°38'58.3792"N | 80°05'0.7421"W  | point   |
| Dolls Run Hardline#1_5.17.2023 | 9028.00                               | -328.79    | -3135.38  | 1798355.10        | 417567.21          | 39°38'41.5321"N | 80°06'15.2239"W | polygon |
|                                | 2D Polygon: dimensions not calculated |            |           |                   |                    |                 |                 |         |
| Dolls Run Hardline#2_6.6.2023  | 9028.00                               | 11852.99   | -5349.68  | 1796140.94        | 429748.24          | 39°40'41.7725"N | 80°06'44.5915"W | polygon |
|                                | 2D Polygon: dimensions not calculated |            |           |                   |                    |                 |                 |         |

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# Actual Wellpath Report

Dolls Run 9H AWP Proj: 24465'

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## REFERENCE WELLPATH IDENTIFICATION

|          |                               |           |                  |
|----------|-------------------------------|-----------|------------------|
| Operator | NORTHEAST NATURAL ENERGY, LLC | Well      | Dolls Run 9H     |
| Field    | Monongalia                    | API/Legal |                  |
| Facility | Dolls Run Pad                 | Wellbore  | Dolls Run 9H AWB |
| Slot     | Slot #9H                      |           |                  |

## WELLPATH COMPOSITION - Ref Wellbore: Dolls Run 9H AWB Ref Wellpath: Dolls Run 9H AWP Proj: 24465'

| Start MD<br>[ft] | End MD<br>[ft] | Positional Uncertainty Model                           | Log Name/Comment                                                     | Wellbore         | Survey<br>Date |
|------------------|----------------|--------------------------------------------------------|----------------------------------------------------------------------|------------------|----------------|
| 28.00            | 750.00         | BH Generic gyro - northseeking (Standard)              | 01 17.5" Gyro <Northseeking-Standard> (100' - 750')                  | Dolls Run 9H AWB | 9/13/2023      |
| 750.00           | 2357.00        | OWSG MWD rev2 - Standard                               | 02 12.25" Javins MWD <OWSG MWD Rev.2+Standard> (750')(1032' - 2357') | Dolls Run 9H AWB | 9/13/2023      |
| 2357.00          | 7186.00        | OWSG MWD rev2 - Standard                               | 03 8.75" Javins MWD <OWSG MWD Rev.2+Standard> (2357')(2442' - 7186') | Dolls Run 9H AWB | 9/13/2023      |
| 7186.00          | 24465.00       | BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing) | 04 8.5" BH ATK Curve <HRGM+Short Spacing> (7186')(7220' - 24440')    | Dolls Run 9H AWB | 9/13/2023      |

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# Actual Wellpath Report

Dolls Run 9H AWP Proj: 24465'

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## REFERENCE WELLPATH IDENTIFICATION

|          |                               |           |                  |
|----------|-------------------------------|-----------|------------------|
| Operator | NORTHEAST NATURAL ENERGY, LLC | Well      | Dolls Run 9H     |
| Field    | Monongalia                    | API/Legal |                  |
| Facility | Dolls Run Pad                 | Wellbore  | Dolls Run 9H AWB |
| Slot     | Slot #9H                      |           |                  |

## COMMENTS

### Wellpath general comments

API: 47061019320000

BH Job #: 111882132

Rig: Patterson 277

Duration: 9/14/2023 - 9/18/2023

01\_17.5" Gyro <Northseeking-Standard> (100' - 750')

02\_12.25" Javins MWD <OWSG MWD Rev.2+Standard> (750')(1032' - 2357')

03\_8.75" Javins MWD <OWSG MWD Rev.2+Standard> (2357')(2442' - 7186')

04\_8.5" BH ATK Curve <HRGM+Short Spacing> (7186')(7220' - 24440')

Final Survey MD @ 24440'

Projected MD at TD: 24465'

09/19/2025