

# NORTHEAST NATURAL ENERGY, LLC

Location: Monongalia County, WV  
 Field: Monongalia  
 Facility: Phoenix Pad

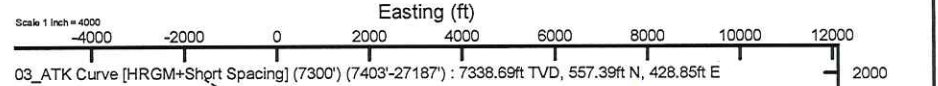
Slot: Slot 04  
 Well: Phoenix 4H  
 Wellbore: Phoenix 4H PWB



|  |  |
|--|--|
| Plot reference wellpath is Phoenix 4H PWP Rev-A.0                        | Grid System: NAD83 / Lambert West Virginia SP, Northern Zone (4701), US feet |
| True vertical depths are referenced to Patterson 277 (RKB)               | North Reference: Grid north  |
| Reference wellpath measured depths are referenced to Patterson 277 (RKB) | Scale: True distance   |
| Patterson 277 (RKB) to Mean Sea Level: 1531 feet                         | Coordinates are in feet referenced to Slot                                   |
| Mean Sea Level to Ground level (At Slot: Slot 04): -1503 feet            | Depths are in feet   |
| Offset wellpath MDs are referenced to each path's default MD datum       | Created by: manajohn on 2022-03-09; Database: WA_MPL_EASTERNUS_Dash          |

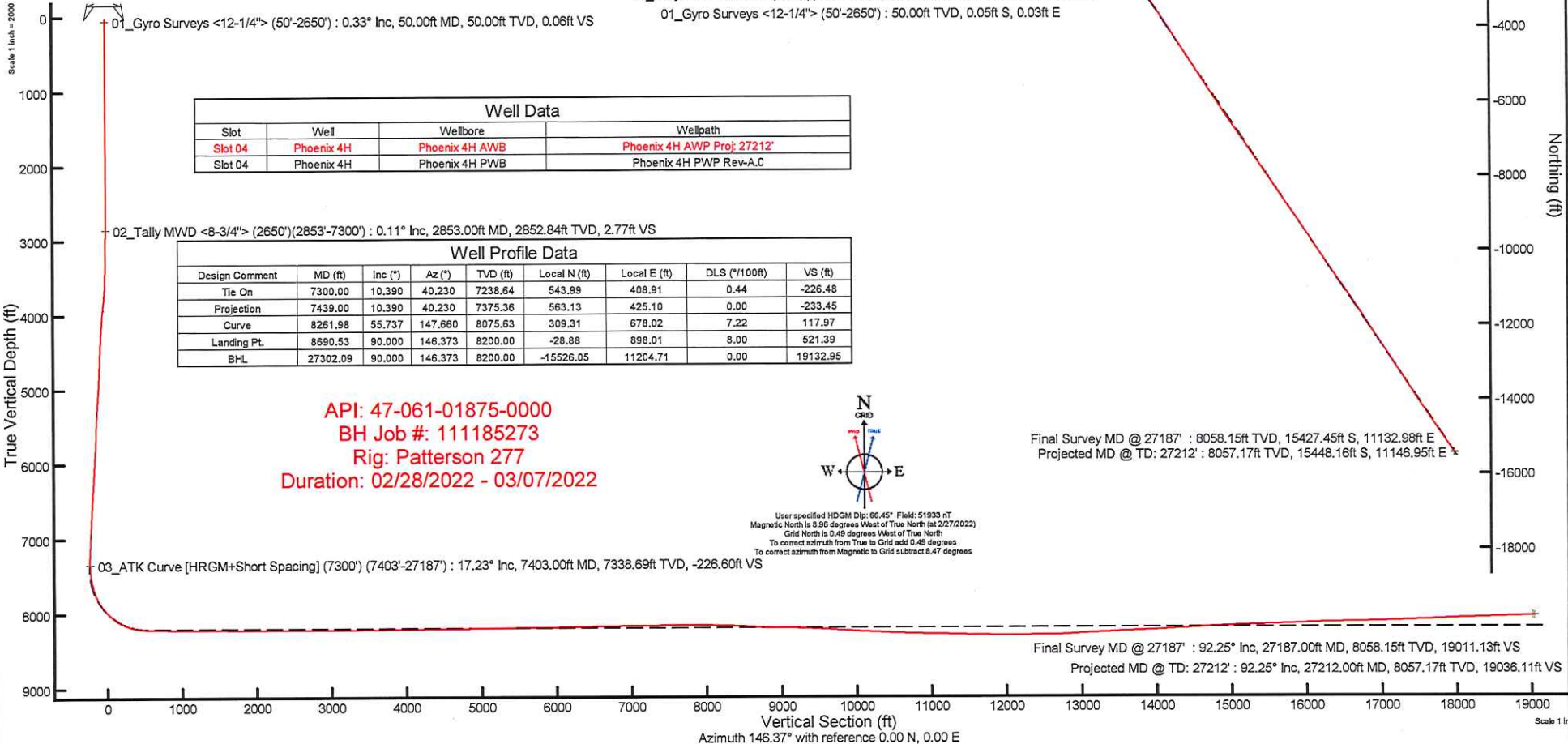
## Location Information

| Facility Name  | Grid East (US ft) | Grid North (US ft) | Latitude          | Longitude          |                 |                 |
|--|-------------------|--------------------|-------------------|--------------------|-----------------|-----------------|
| Phoenix Pad  | 1751051.980       | 416616.940         | 39°38'28.5589"N   | 80°16'19.8414"W    |                 |                 |
| Slot   | Local N (ft)      | Local E (ft)       | Grid East (US ft) | Grid North (US ft) | Latitude        | Longitude       |
| Slot 04  | -12.15            | 44.46              | 1751096.440       | 416604.790         | 39°38'28.4426"N | 80°16'19.2717"W |
| Patterson 277 (RKB) to Ground level (At Slot: Slot 04) |                   |                    | 28ft              |                    |                 |                 |
| Mean Sea Level to Ground level (At Slot: Slot 04)      |                   |                    | -1503ft           |                    |                 |                 |
| Patterson 277 (RKB) to Mean Sea Level                  |                   |                    | 1531ft            |                    |                 |                 |



02\_Tally MWD <8-3/4"> (2650')(2853'-7300') : 2852.84ft TVD, 12.81ft S, 14.26ft W  
 01\_Gyro Surveys <12-1/4"> (50'-2650') : 0.33° Inc, 50.00ft MD, 50.00ft TVD, 0.06ft VS

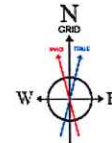
Scale 1 inch = 2000



| Well Data |            |                |                             |
|-----------|------------|----------------|-----------------------------|
| Slot      | Well       | Wellbore       | Wellpath                    |
| Slot 04   | Phoenix 4H | Phoenix 4H AWB | Phoenix 4H AWP Proj: 27212' |
| Slot 04   | Phoenix 4H | Phoenix 4H PWB | Phoenix 4H PWP Rev-A.0      |

| Well Profile Data |          |         |         |          |              |              |          |
|-------------------|----------|---------|---------|----------|--------------|--------------|----------|
| Design Comment    | MD (ft)  | Inc (") | Az (°)  | TVD (ft) | Local N (ft) | Local E (ft) | VS (ft)  |
| Tie On            | 7300.00  | 10.390  | 40.230  | 7238.64  | 543.99       | 408.91       | -226.48  |
| Projection        | 7439.00  | 10.390  | 40.230  | 7375.36  | 563.13       | 425.10       | -233.45  |
| Curve             | 8261.98  | 55.737  | 147.660 | 8075.63  | 309.31       | 678.02       | 117.97   |
| Landing Pt.       | 8690.53  | 90.000  | 146.373 | 8200.00  | -28.88       | 898.01       | 521.39   |
| BHL               | 27302.09 | 90.000  | 146.373 | 8200.00  | -15526.05    | 11204.71     | 19132.95 |

API: 47-061-01875-0000  
 BH Job #: 111185273  
 Rig: Patterson 277  
 Duration: 02/28/2022 - 03/07/2022



User specified HDGM Dip: 66.45° Field: 51933 nT  
 Magnetic North is 8.86 degrees West of True North (at 2/27/2022)  
 Grid North is 0.49 degrees West of True North  
 To correct azimuth from True to Grid add 0.49 degrees  
 To correct azimuth from Magnetic to Grid subtract 8.47 degrees

Final Survey MD @ 27187' : 8058.15ft TVD, 15427.45ft S, 11132.98ft E  
 Projected MD @ TD: 27212' : 8057.17ft TVD, 15448.16ft S, 11146.95ft E

Final Survey MD @ 27187' : 92.25° Inc, 27187.00ft MD, 8058.15ft TVD, 19011.13ft VS  
 Projected MD @ TD: 27212' : 92.25° Inc, 27212.00ft MD, 8057.17ft TVD, 19036.11ft VS

Vertical Section (ft)  
 Azimuth 146.37° with reference 0.00 N, 0.00 E

Scale 1 inch = 2000



# Actual Wellpath Report

Phoenix 4H AWP Proj: 27212'

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| REFERENCE WELLPATH IDENTIFICATION |                               |           |                |
|-----------------------------------|-------------------------------|-----------|----------------|
| Operator                          | NORTHEAST NATURAL ENERGY, LLC | Well      | Phoenix 4H     |
| Field                             | Monongalia                    | API/Legal |                |
| Facility                          | Phoenix Pad                   | Wellbore  | Phoenix 4H AWB |
| Slot                              | Slot 04                       |           |                |

| 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 | 3/9/2022 at 10:19:36 PM |
| Convergence at slot      | 0.49° 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         | -12.15            | 44.46    | 1751096.44       | 416604.79       | 39°38'28.4426"N        | 80°16'19.2717"W |
| Facility Reference Pt |                   |          | 1751051.98       | 416616.94       | 39°38'28.5589"N        | 80°16'19.8414"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        | 1531.00ft         |
| Horizontal Reference Pt  | Slot                | Patterson 277 (RKB) to Mean Sea Level                 | 1531.00ft         |
| Vertical Reference Pt    | Patterson 277 (RKB) | Patterson 277 (RKB) to Ground Level at Slot (Slot 04) | 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                                       | 146.37°           |

### REFERENCE WELLPATH IDENTIFICATION

|          |                               |           |                |
|----------|-------------------------------|-----------|----------------|
| Operator | NORTHEAST NATURAL ENERGY, LLC | Well      | Phoenix 4H     |
| Field    | Monongalia                    | API/Legal |                |
| Facility | Phoenix Pad                   | Wellbore  | Phoenix 4H AWB |
| Slot     | Slot 04                       |           |                |

### WELLPATH DATA (313 stations) † = interpolated, ‡ = extrapolated station

| MD [ft] | Inclination [°] | Azimuth [°] | TVD [ft] | Vert Sect [ft] | North [ft] | East [ft] | Grid East [US ft] | Grid North [US ft] | Latitude        | Longitude       | Closure Dist [ft] | Closure Dir [°] | DLS [°/100ft] | Build Rate [°/100ft] | Turn Rate [°/100ft] |
|---------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|-----------------|-----------------|-------------------|-----------------|---------------|----------------------|---------------------|
| 0.00†   | 0.000           | 147.300     | 0.00     | 0.00           | 0.00       | 0.00      | 1751096.44        | 416604.79          | 39°38'28.4426"N | 80°16'19.2717"W | 0.00              | 0.000           | 0.00          | 0.00                 | 0.00                |
| 28.00   | 0.000           | 147.300     | 28.00    | 0.00           | 0.00       | 0.00      | 1751096.44        | 416604.79          | 39°38'28.4426"N | 80°16'19.2717"W | 0.00              | 0.000           | 0.00          | 0.00                 | 0.00                |
| 50.00   | 0.330           | 147.300     | 50.00    | 0.06           | -0.05      | 0.03      | 1751096.47        | 416604.74          | 39°38'28.4421"N | 80°16'19.2713"W | 0.06              | 147.300         | 1.50          | 1.50                 | 0.00                |
| 100.00  | 0.340           | 154.400     | 100.00   | 0.35           | -0.31      | 0.18      | 1751096.62        | 416604.48          | 39°38'28.4396"N | 80°16'19.2694"W | 0.36              | 150.261         | 0.09          | 0.02                 | 14.20               |
| 150.00  | 0.140           | 50.200      | 150.00   | 0.49           | -0.40      | 0.29      | 1751096.73        | 416604.39          | 39°38'28.4386"N | 80°16'19.2680"W | 0.49              | 144.526         | 0.80          | -0.40                | -208.40             |
| 200.00  | 0.170           | 315.100     | 200.00   | 0.42           | -0.31      | 0.28      | 1751096.72        | 416604.48          | 39°38'28.4396"N | 80°16'19.2681"W | 0.42              | 137.857         | 0.46          | 0.06                 | -190.20             |
| 250.00  | 0.040           | 291.300     | 250.00   | 0.33           | -0.25      | 0.21      | 1751096.65        | 416604.54          | 39°38'28.4401"N | 80°16'19.2690"W | 0.33              | 139.829         | 0.27          | -0.26                | -47.60              |
| 300.00  | 0.470           | 151.500     | 300.00   | 0.52           | -0.43      | 0.29      | 1751096.73        | 416604.36          | 39°38'28.4384"N | 80°16'19.2679"W | 0.52              | 145.345         | 1.00          | 0.86                 | -279.60             |
| 350.00  | 0.500           | 205.400     | 350.00   | 0.83           | -0.80      | 0.30      | 1751096.74        | 416603.99          | 39°38'28.4347"N | 80°16'19.2678"W | 0.86              | 159.593         | 0.88          | 0.06                 | 107.80              |
| 400.00  | 0.540           | 209.000     | 399.99   | 1.06           | -1.21      | 0.09      | 1751096.53        | 416603.58          | 39°38'28.4307"N | 80°16'19.2704"W | 1.21              | 175.680         | 0.10          | 0.08                 | 7.20                |
| 450.00  | 0.370           | 152.200     | 449.99   | 1.32           | -1.56      | 0.05      | 1751096.49        | 416603.23          | 39°38'28.4272"N | 80°16'19.2709"W | 1.56              | 178.077         | 0.92          | -0.34                | -113.60             |
| 500.00  | 0.110           | 161.600     | 499.99   | 1.53           | -1.74      | 0.14      | 1751096.58        | 416603.05          | 39°38'28.4254"N | 80°16'19.2697"W | 1.75              | 175.323         | 0.52          | -0.52                | 18.80               |
| 550.00  | 0.410           | 225.600     | 549.99   | 1.61           | -1.91      | 0.03      | 1751096.47        | 416602.88          | 39°38'28.4237"N | 80°16'19.2711"W | 1.91              | 179.102         | 0.75          | 0.60                 | 128.00              |
| 600.00  | 0.420           | 141.800     | 599.99   | 1.83           | -2.18      | 0.02      | 1751096.46        | 416602.61          | 39°38'28.4210"N | 80°16'19.2713"W | 2.18              | 179.593         | 1.11          | 0.02                 | -167.60             |
| 650.00  | 0.450           | 146.600     | 649.99   | 2.21           | -2.49      | 0.24      | 1751096.68        | 416602.30          | 39°38'28.4180"N | 80°16'19.2684"W | 2.50              | 174.568         | 0.09          | 0.06                 | 9.60                |
| 700.00  | 0.480           | 223.600     | 699.99   | 2.45           | -2.81      | 0.20      | 1751096.64        | 416601.98          | 39°38'28.4149"N | 80°16'19.2689"W | 2.81              | 175.913         | 1.16          | 0.06                 | 154.00              |
| 750.00  | 0.580           | 164.200     | 749.99   | 2.74           | -3.20      | 0.13      | 1751096.57        | 416601.59          | 39°38'28.4110"N | 80°16'19.2698"W | 3.21              | 177.764         | 1.06          | 0.20                 | -118.80             |
| 800.00  | 0.460           | 227.300     | 799.98   | 3.01           | -3.58      | 0.05      | 1751096.49        | 416601.21          | 39°38'28.4072"N | 80°16'19.2707"W | 3.58              | 179.257         | 1.11          | -0.24                | 126.20              |
| 850.00  | 0.430           | 164.200     | 849.98   | 3.22           | -3.90      | -0.05     | 1751096.39        | 416600.89          | 39°38'28.4041"N | 80°16'19.2719"W | 3.90              | 180.734         | 0.93          | -0.06                | -126.20             |
| 900.00  | 0.410           | 242.100     | 899.98   | 3.38           | -4.16      | -0.16     | 1751096.28        | 416600.63          | 39°38'28.4015"N | 80°16'19.2733"W | 4.17              | 182.159         | 1.06          | -0.04                | 155.80              |
| 950.00  | 0.310           | 167.600     | 949.98   | 3.49           | -4.38      | -0.29     | 1751096.15        | 416600.41          | 39°38'28.3993"N | 80°16'19.2749"W | 4.39              | 183.737         | 0.89          | -0.20                | -149.00             |
| 1000.00 | 0.060           | 77.100      | 999.98   | 3.62           | -4.51      | -0.23     | 1751096.21        | 416600.29          | 39°38'28.3981"N | 80°16'19.2742"W | 4.51              | 182.941         | 0.63          | -0.50                | -181.00             |
| 1050.00 | 0.130           | 315.400     | 1049.98  | 3.58           | -4.46      | -0.25     | 1751096.19        | 416600.33          | 39°38'28.3985"N | 80°16'19.2744"W | 4.47              | 183.155         | 0.34          | 0.14                 | -243.40             |
| 1100.00 | 0.520           | 211.900     | 1099.98  | 3.61           | -4.61      | -0.41     | 1751096.03        | 416600.18          | 39°38'28.3970"N | 80°16'19.2764"W | 4.63              | 185.026         | 1.13          | 0.78                 | -207.00             |
| 1150.00 | 0.290           | 284.300     | 1149.98  | 3.61           | -4.77      | -0.65     | 1751095.79        | 416600.02          | 39°38'28.3954"N | 80°16'19.2795"W | 4.82              | 187.732         | 1.03          | -0.46                | 144.80              |
| 1200.00 | 0.860           | 221.900     | 1199.98  | 3.61           | -5.02      | -1.02     | 1751095.42        | 416599.77          | 39°38'28.3929"N | 80°16'19.2842"W | 5.12              | 191.498         | 1.54          | 1.14                 | -124.80             |
| 1250.00 | 0.760           | 218.200     | 1249.97  | 3.81           | -5.56      | -1.48     | 1751094.96        | 416599.23          | 39°38'28.3875"N | 80°16'19.2900"W | 5.75              | 194.875         | 0.23          | -0.20                | -7.40               |
| 1300.00 | 1.080           | 229.300     | 1299.97  | 3.97           | -6.13      | -2.04     | 1751094.40        | 416598.66          | 39°38'28.3819"N | 80°16'19.2971"W | 6.46              | 198.405         | 0.73          | 0.64                 | 22.20               |
| 1350.00 | 1.310           | 235.300     | 1349.96  | 4.04           | -6.76      | -2.87     | 1751093.57        | 416598.03          | 39°38'28.3755"N | 80°16'19.3076"W | 7.34              | 202.975         | 0.52          | 0.46                 | 12.00               |
| 1400.00 | 1.190           | 236.900     | 1399.94  | 4.05           | -7.37      | -3.77     | 1751092.67        | 416597.42          | 39°38'28.3695"N | 80°16'19.3191"W | 8.28              | 207.099         | 0.25          | -0.24                | 3.20                |



# Actual Wellpath Report

Phoenix 4H AWP Proj: 27212'

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| REFERENCE WELLPATH IDENTIFICATION |                               |  |           |                |
|-----------------------------------|-------------------------------|--|-----------|----------------|
| Operator                          | NORTHEAST NATURAL ENERGY, LLC |  | Well      | Phoenix 4H     |
| Field                             | Monongalia                    |  | API/Legal |                |
| Facility                          | Phoenix Pad                   |  | Wellbore  | Phoenix 4H AWB |
| Slot                              | Slot 04                       |  |           |                |

| WELLPATH DATA (313 stations) |                 |             |          |                |            |           |                   |                    |                 |                 |                   |                 |               |                      |                     |
|------------------------------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|-----------------|-----------------|-------------------|-----------------|---------------|----------------------|---------------------|
| MD [ft]                      | Inclination [°] | Azimuth [°] | TVD [ft] | Vert Sect [ft] | North [ft] | East [ft] | Grid East [US ft] | Grid North [US ft] | Latitude        | Longitude       | Closure Dist [ft] | Closure Dir [°] | DLS [°/100ft] | Build Rate [°/100ft] | Turn Rate [°/100ft] |
| 1450.00                      | 1.100           | 254.900     | 1449.93  | 3.89           | -7.78      | -4.67     | 1751091.77        | 416597.01          | 39°38'28.3653"N | 80°16'19.3306"W | 9.07              | 210.977         | 0.74          | -0.18                | 36.00               |
| 1500.00                      | 0.950           | 262.100     | 1499.93  | 3.56           | -7.96      | -5.54     | 1751090.90        | 416596.83          | 39°38'28.3635"N | 80°16'19.3417"W | 9.70              | 214.852         | 0.39          | -0.30                | 14.40               |
| 1550.00                      | 1.080           | 258.500     | 1549.92  | 3.20           | -8.11      | -6.42     | 1751090.02        | 416596.68          | 39°38'28.3619"N | 80°16'19.3529"W | 10.34             | 218.342         | 0.29          | 0.26                 | -7.20               |
| 1600.00                      | 1.210           | 253.300     | 1599.91  | 2.87           | -8.36      | -7.38     | 1751089.06        | 416596.43          | 39°38'28.3594"N | 80°16'19.3652"W | 11.15             | 221.459         | 0.33          | 0.26                 | -10.40              |
| 1650.00                      | 1.180           | 252.700     | 1649.90  | 2.57           | -8.66      | -8.38     | 1751088.06        | 416596.13          | 39°38'28.3563"N | 80°16'19.3779"W | 12.05             | 224.054         | 0.07          | -0.06                | -1.20               |
| 1700.00                      | 1.170           | 251.300     | 1699.89  | 2.29           | -8.98      | -9.36     | 1751087.09        | 416595.81          | 39°38'28.3531"N | 80°16'19.3903"W | 12.97             | 226.177         | 0.06          | -0.02                | -2.80               |
| 1750.00                      | 1.080           | 242.900     | 1749.88  | 2.11           | -9.36      | -10.26    | 1751086.18        | 416595.43          | 39°38'28.3493"N | 80°16'19.4018"W | 13.88             | 227.631         | 0.38          | -0.18                | -16.80              |
| 1800.00                      | 0.560           | 249.700     | 1799.87  | 2.00           | -9.66      | -10.91    | 1751085.53        | 416595.13          | 39°38'28.3463"N | 80°16'19.4101"W | 14.57             | 228.481         | 1.06          | -1.04                | 13.60               |
| 1850.00                      | 0.310           | 215.600     | 1849.87  | 1.99           | -9.85      | -11.21    | 1751085.23        | 416594.94          | 39°38'28.3443"N | 80°16'19.4140"W | 14.93             | 228.704         | 0.70          | -0.50                | -68.20              |
| 1900.00                      | 0.600           | 256.300     | 1899.87  | 1.95           | -10.02     | -11.55    | 1751084.89        | 416594.77          | 39°38'28.3426"N | 80°16'19.4182"W | 15.29             | 229.044         | 0.83          | 0.58                 | 81.40               |
| 1950.00                      | 0.400           | 264.400     | 1949.87  | 1.78           | -10.10     | -11.98    | 1751084.46        | 416594.69          | 39°38'28.3418"N | 80°16'19.4237"W | 15.67             | 229.852         | 0.42          | -0.40                | 16.20               |
| 2000.00                      | 0.340           | 281.600     | 1999.87  | 1.59           | -10.09     | -12.30    | 1751084.15        | 416594.70          | 39°38'28.3419"N | 80°16'19.4278"W | 15.90             | 230.628         | 0.25          | -0.12                | 34.40               |
| 2050.00                      | 0.560           | 214.600     | 2049.86  | 1.58           | -10.26     | -12.58    | 1751083.86        | 416594.53          | 39°38'28.3401"N | 80°16'19.4314"W | 16.23             | 230.796         | 1.06          | 0.44                 | -134.00             |
| 2100.00                      | 0.900           | 239.700     | 2099.86  | 1.64           | -10.66     | -13.06    | 1751083.38        | 416594.13          | 39°38'28.3362"N | 80°16'19.4375"W | 16.86             | 230.771         | 0.92          | 0.68                 | 50.20               |
| 2150.00                      | 0.800           | 210.300     | 2149.85  | 1.78           | -11.16     | -13.57    | 1751082.87        | 416593.63          | 39°38'28.3312"N | 80°16'19.4440"W | 17.57             | 230.572         | 0.88          | -0.20                | -58.80              |
| 2200.00                      | 0.780           | 236.900     | 2199.85  | 1.93           | -11.65     | -14.03    | 1751082.41        | 416593.14          | 39°38'28.3263"N | 80°16'19.4498"W | 18.24             | 230.310         | 0.73          | -0.04                | 53.20               |
| 2250.00                      | 0.620           | 204.800     | 2249.85  | 2.06           | -12.08     | -14.43    | 1751082.01        | 416592.71          | 39°38'28.3220"N | 80°16'19.4549"W | 18.82             | 230.074         | 0.83          | -0.32                | -64.20              |
| 2300.00                      | 0.430           | 197.800     | 2299.84  | 2.32           | -12.50     | -14.60    | 1751081.84        | 416592.29          | 39°38'28.3178"N | 80°16'19.4570"W | 19.22             | 229.431         | 0.40          | -0.38                | -14.00              |
| 2350.00                      | 0.080           | 60.400      | 2349.84  | 2.44           | -12.66     | -14.63    | 1751081.81        | 416592.13          | 39°38'28.3162"N | 80°16'19.4573"W | 19.35             | 229.120         | 0.98          | -0.70                | -274.80             |
| 2400.00                      | 0.120           | 351.300     | 2399.84  | 2.40           | -12.59     | -14.61    | 1751081.83        | 416592.20          | 39°38'28.3169"N | 80°16'19.4571"W | 19.29             | 229.232         | 0.24          | 0.08                 | -138.20             |
| 2450.00                      | 0.040           | 135.500     | 2449.84  | 2.37           | -12.56     | -14.60    | 1751081.84        | 416592.24          | 39°38'28.3173"N | 80°16'19.4570"W | 19.26             | 229.312         | 0.31          | -0.16                | 288.40              |
| 2500.00                      | 0.040           | 121.300     | 2499.84  | 2.40           | -12.58     | -14.58    | 1751081.87        | 416592.21          | 39°38'28.3171"N | 80°16'19.4567"W | 19.25             | 229.211         | 0.02          | 0.00                 | -28.40              |
| 2550.00                      | 0.130           | 109.400     | 2549.84  | 2.46           | -12.60     | -14.51    | 1751081.93        | 416592.19          | 39°38'28.3168"N | 80°16'19.4558"W | 19.22             | 229.014         | 0.18          | 0.18                 | -23.80              |
| 2600.00                      | 0.200           | 76.300      | 2599.84  | 2.54           | -12.60     | -14.37    | 1751082.07        | 416592.19          | 39°38'28.3168"N | 80°16'19.4540"W | 19.11             | 228.747         | 0.23          | 0.14                 | -66.20              |
| 2650.00                      | 0.110           | 125.600     | 2649.84  | 2.61           | -12.61     | -14.25    | 1751082.20        | 416592.18          | 39°38'28.3168"N | 80°16'19.4524"W | 19.02             | 228.484         | 0.31          | -0.18                | 98.60               |
| 2853.00                      | 0.110           | 243.400     | 2852.84  | 2.77           | -12.81     | -14.26    | 1751082.18        | 416591.98          | 39°38'28.3148"N | 80°16'19.4526"W | 19.17             | 228.066         | 0.09          | 0.00                 | 58.03               |
| 2926.00                      | 3.630           | 5.110       | 2925.80  | 0.96           | -10.54     | -14.12    | 1751082.32        | 416594.25          | 39°38'28.3372"N | 80°16'19.4510"W | 17.62             | 233.257         | 5.05          | 4.82                 | 166.73              |
| 3021.00                      | 5.490           | 36.840      | 3020.50  | -2.91          | -3.91      | -11.12    | 1751085.32        | 416600.88          | 39°38'28.4031"N | 80°16'19.4135"W | 11.79             | 250.654         | 3.23          | 1.96                 | 33.40               |
| 3120.00                      | 3.970           | 47.420      | 3119.17  | -5.03          | 2.20       | -5.76     | 1751090.68        | 416606.99          | 39°38'28.4639"N | 80°16'19.3456"W | 6.17              | 290.932         | 1.76          | -1.54                | 10.69               |
| 3214.00                      | 1.810           | 55.240      | 3213.04  | -5.56          | 5.25       | -2.15     | 1751094.29        | 416610.04          | 39°38'28.4943"N | 80°16'19.2997"W | 5.67              | 337.783         | 2.33          | -2.30                | 8.32                |



# Actual Wellpath Report

Phoenix 4H AWP Proj: 27212'

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| REFERENCE WELLPATH IDENTIFICATION |                               |  |           |                |
|-----------------------------------|-------------------------------|--|-----------|----------------|
| Operator                          | NORTHEAST NATURAL ENERGY, LLC |  | Well      | Phoenix 4H     |
| Field                             | Monongalia                    |  | API/Legal |                |
| Facility                          | Phoenix Pad                   |  | Wellbore  | Phoenix 4H AWB |
| Slot                              | Slot 04                       |  |           |                |

## WELLPATH DATA (313 stations)

| MD [ft] | Inclination [°] | Azimuth [°] | TVD [ft] | Vert Sect [ft] | North [ft] | East [ft] | Grid East [US ft] | Grid North [US ft] | Latitude        | Longitude       | Closure Dist [ft] | Closure Dir [°] | DLS [°/100ft] | Build Rate [°/100ft] | Turn Rate [°/100ft] |
|---------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|-----------------|-----------------|-------------------|-----------------|---------------|----------------------|---------------------|
| 3308.00 | 1.740           | 46.640      | 3307.00  | -5.83          | 7.08       | 0.11      | 1751096.55        | 416611.87          | 39°38'28.5126"N | 80°16'19.2711"W | 7.08              | 0.907           | 0.29          | -0.07                | -9.15               |
| 3404.00 | 3.640           | 46.400      | 3402.89  | -6.61          | 10.18      | 3.38      | 1751099.82        | 416614.97          | 39°38'28.5435"N | 80°16'19.2297"W | 10.73             | 18.360          | 1.98          | 1.98                 | -0.25               |
| 3499.00 | 5.050           | 48.920      | 3497.61  | -7.67          | 15.01      | 8.71      | 1751105.15        | 416619.80          | 39°38'28.5917"N | 80°16'19.1620"W | 17.35             | 30.142          | 1.50          | 1.48                 | 2.65                |
| 3594.00 | 5.930           | 27.190      | 3592.18  | -10.60         | 22.12      | 14.11     | 1751110.55        | 416626.91          | 39°38'28.6624"N | 80°16'19.0938"W | 26.24             | 32.530          | 2.36          | 0.93                 | -22.87              |
| 3689.00 | 7.630           | 27.160      | 3686.52  | -16.08         | 32.10      | 19.23     | 1751115.67        | 416636.89          | 39°38'28.7615"N | 80°16'19.0294"W | 37.42             | 30.927          | 1.79          | 1.79                 | -0.03               |
| 3783.00 | 9.350           | 21.080      | 3779.49  | -23.53         | 44.78      | 24.83     | 1751121.27        | 416649.56          | 39°38'28.8872"N | 80°16'18.9593"W | 51.20             | 29.006          | 2.06          | 1.83                 | -6.47               |
| 3882.00 | 10.240          | 18.070      | 3877.04  | -33.63         | 60.65      | 30.45     | 1751126.89        | 416665.43          | 39°38'29.0445"N | 80°16'18.8892"W | 67.86             | 26.660          | 1.04          | 0.90                 | -3.04               |
| 3976.00 | 10.760          | 22.760      | 3969.47  | -43.67         | 76.68      | 36.44     | 1751132.87        | 416681.47          | 39°38'29.2035"N | 80°16'18.8144"W | 84.90             | 25.415          | 1.06          | 0.55                 | 4.99                |
| 4071.00 | 12.030          | 29.320      | 4062.60  | -53.08         | 93.49      | 44.71     | 1751141.15        | 416698.28          | 39°38'29.3704"N | 80°16'18.7104"W | 103.64            | 25.560          | 1.91          | 1.34                 | 6.91                |
| 4166.00 | 12.070          | 35.460      | 4155.51  | -61.13         | 110.22     | 55.33     | 1751151.76        | 416715.00          | 39°38'29.5365"N | 80°16'18.5766"W | 123.32            | 26.655          | 1.35          | 0.04                 | 6.46                |
| 4261.00 | 11.920          | 44.310      | 4248.44  | -66.72         | 125.33     | 67.94     | 1751164.38        | 416730.11          | 39°38'29.6869"N | 80°16'18.4170"W | 142.56            | 28.463          | 1.94          | -0.16                | 9.32                |
| 4356.00 | 11.580          | 40.740      | 4341.45  | -71.34         | 139.57     | 81.02     | 1751177.45        | 416744.35          | 39°38'29.8288"N | 80°16'18.2514"W | 161.38            | 30.134          | 0.84          | -0.36                | -3.76               |
| 4450.00 | 10.570          | 41.780      | 4433.70  | -76.06         | 153.15     | 92.92     | 1751189.35        | 416757.93          | 39°38'29.9640"N | 80°16'18.1008"W | 179.14            | 31.246          | 1.10          | -1.07                | 1.11                |
| 4544.00 | 10.330          | 37.320      | 4526.14  | -80.98         | 166.28     | 103.77    | 1751200.21        | 416771.06          | 39°38'30.0947"N | 80°16'17.9635"W | 196.01            | 31.968          | 0.90          | -0.26                | -4.74               |
| 4638.00 | 10.440          | 49.580      | 4618.62  | -84.74         | 178.51     | 115.37    | 1751211.80        | 416783.29          | 39°38'30.2165"N | 80°16'17.8166"W | 212.55            | 32.874          | 2.35          | 0.12                 | 13.04               |
| 4733.00 | 10.290          | 45.630      | 4712.07  | -87.34         | 190.02     | 127.99    | 1751224.42        | 416794.80          | 39°38'30.3314"N | 80°16'17.6566"W | 229.11            | 33.962          | 0.76          | -0.16                | -4.16               |
| 4830.00 | 9.660           | 39.930      | 4807.60  | -91.25         | 202.32     | 139.40    | 1751235.84        | 416807.10          | 39°38'30.4539"N | 80°16'17.5120"W | 245.70            | 34.568          | 1.21          | -0.65                | -5.88               |
| 4925.00 | 9.210           | 35.330      | 4901.32  | -96.24         | 214.64     | 148.92    | 1751245.35        | 416819.41          | 39°38'30.5764"N | 80°16'17.3918"W | 261.24            | 34.753          | 0.92          | -0.47                | -4.84               |
| 5019.00 | 8.700           | 35.230      | 4994.17  | -101.50        | 226.58     | 157.37    | 1751253.80        | 416831.36          | 39°38'30.6952"N | 80°16'17.2850"W | 275.87            | 34.781          | 0.54          | -0.54                | -0.11               |
| 5113.00 | 10.570          | 30.980      | 5086.84  | -107.77        | 239.78     | 165.91    | 1751262.34        | 416844.56          | 39°38'30.8264"N | 80°16'17.1773"W | 291.58            | 34.680          | 2.13          | 1.99                 | -4.52               |
| 5208.00 | 11.870          | 37.060      | 5180.03  | -114.73        | 255.05     | 176.28    | 1751272.71        | 416859.82          | 39°38'30.9781"N | 80°16'17.0464"W | 310.04            | 34.651          | 1.85          | 1.37                 | 6.40                |
| 5305.00 | 12.420          | 43.370      | 5274.86  | -120.38        | 270.59     | 189.46    | 1751285.89        | 416875.37          | 39°38'31.1329"N | 80°16'16.8797"W | 330.33            | 34.998          | 1.48          | 0.57                 | 6.51                |
| 5400.00 | 11.490          | 38.160      | 5367.80  | -125.63        | 285.46     | 202.32    | 1751298.75        | 416890.23          | 39°38'31.2809"N | 80°16'16.7169"W | 349.89            | 35.327          | 1.50          | -0.98                | -5.48               |
| 5494.00 | 10.000          | 39.100      | 5460.15  | -130.98        | 299.16     | 213.25    | 1751309.68        | 416903.93          | 39°38'31.4172"N | 80°16'16.5787"W | 367.39            | 35.483          | 1.60          | -1.59                | 1.00                |
| 5589.00 | 9.490           | 45.130      | 5553.78  | -134.96        | 311.08     | 224.01    | 1751320.43        | 416915.86          | 39°38'31.5359"N | 80°16'16.4425"W | 383.34            | 35.757          | 1.20          | -0.54                | 6.35                |
| 5684.00 | 8.840           | 40.250      | 5647.57  | -138.51        | 322.18     | 234.27    | 1751330.70        | 416926.95          | 39°38'31.6465"N | 80°16'16.3125"W | 398.35            | 36.023          | 1.07          | -0.68                | -5.14               |
| 5779.00 | 10.420          | 39.340      | 5741.23  | -143.05        | 334.40     | 244.44    | 1751340.86        | 416939.17          | 39°38'31.7681"N | 80°16'16.1839"W | 414.21            | 36.166          | 1.67          | 1.66                 | -0.96               |
| 5873.00 | 10.920          | 40.840      | 5833.60  | -147.93        | 347.71     | 255.65    | 1751352.07        | 416952.48          | 39°38'31.9005"N | 80°16'16.0421"W | 431.57            | 36.325          | 0.61          | 0.53                 | 1.60                |
| 5968.00 | 10.350          | 35.490      | 5926.97  | -153.38        | 361.46     | 266.49    | 1751362.91        | 416966.23          | 39°38'32.0374"N | 80°16'15.9050"W | 449.08            | 36.399          | 1.20          | -0.60                | -5.63               |
| 6063.00 | 10.410          | 40.010      | 6020.42  | -158.84        | 374.99     | 276.96    | 1751373.38        | 416979.75          | 39°38'32.1719"N | 80°16'15.7726"W | 466.18            | 36.449          | 0.86          | 0.06                 | 4.76                |

### REFERENCE WELLPATH IDENTIFICATION

|          |                               |           |                |
|----------|-------------------------------|-----------|----------------|
| Operator | NORTHEAST NATURAL ENERGY, LLC | Well      | Phoenix 4H     |
| Field    | Monongalia                    | API/Legal |                |
| Facility | Phoenix Pad                   | Wellbore  | Phoenix 4H AWB |
| Slot     | Slot 04                       |           |                |

### WELLPATH DATA (313 stations)

| MD [ft] | Inclination [°] | Azimuth [°] | TVD [ft] | Vert Sect [ft] | North [ft] | East [ft] | Grid East [US ft] | Grid North [US ft] | Latitude        | Longitude       | Closure Dist [ft] | Closure Dir [°] | DLS [°/100ft] | Build Rate [°/100ft] | Turn Rate [°/100ft] |
|---------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|-----------------|-----------------|-------------------|-----------------|---------------|----------------------|---------------------|
| 6158.00 | 9.780           | 36.720      | 6113.95  | -163.97        | 388.03     | 287.30    | 1751383.72        | 416992.79          | 39°38'32.3017"N | 80°16'15.6419"W | 482.81            | 36.517          | 0.90          | -0.66                | -3.46               |
| 6257.00 | 10.450          | 37.850      | 6211.41  | -169.65        | 401.86     | 297.84    | 1751394.26        | 417006.62          | 39°38'32.4393"N | 80°16'15.5087"W | 500.20            | 36.544          | 0.71          | 0.68                 | 1.14                |
| 6352.00 | 9.470           | 33.380      | 6304.98  | -175.44        | 415.19     | 307.42    | 1751403.85        | 417019.95          | 39°38'32.5718"N | 80°16'15.3876"W | 516.61            | 36.518          | 1.31          | -1.03                | -4.71               |
| 6445.00 | 9.000           | 33.330      | 6396.77  | -181.27        | 427.65     | 315.63    | 1751412.05        | 417032.42          | 39°38'32.6957"N | 80°16'15.2841"W | 531.52            | 36.429          | 0.51          | -0.51                | -0.05               |
| 6541.00 | 10.350          | 36.720      | 6491.41  | -187.11        | 440.84     | 324.91    | 1751421.33        | 417045.60          | 39°38'32.8268"N | 80°16'15.1669"W | 547.64            | 36.391          | 1.53          | 1.41                 | 3.53                |
| 6635.00 | 10.870          | 39.940      | 6583.80  | -192.46        | 454.40     | 335.65    | 1751432.07        | 417059.17          | 39°38'32.9618"N | 80°16'15.0311"W | 564.93            | 36.452          | 0.84          | 0.55                 | 3.43                |
| 6729.00 | 9.780           | 36.460      | 6676.28  | -197.68        | 467.62     | 346.09    | 1751442.51        | 417072.38          | 39°38'33.0933"N | 80°16'14.8992"W | 581.76            | 36.505          | 1.34          | -1.16                | -3.70               |
| 6824.00 | 10.370          | 41.280      | 6769.82  | -202.66        | 480.54     | 356.52    | 1751452.94        | 417085.30          | 39°38'33.2218"N | 80°16'14.7672"W | 598.35            | 36.573          | 1.08          | 0.62                 | 5.07                |
| 6919.00 | 9.500           | 38.100      | 6863.39  | -207.34        | 493.13     | 367.00    | 1751463.42        | 417097.89          | 39°38'33.3472"N | 80°16'14.6346"W | 614.71            | 36.658          | 1.08          | -0.92                | -3.35               |
| 7016.00 | 10.450          | 40.230      | 6958.92  | -212.30        | 506.15     | 377.62    | 1751474.04        | 417110.91          | 39°38'33.4767"N | 80°16'14.5003"W | 631.49            | 36.726          | 1.05          | 0.98                 | 2.20                |
| 7110.00 | 9.430           | 39.360      | 7051.51  | -216.92        | 518.61     | 388.01    | 1751484.43        | 417123.37          | 39°38'33.6007"N | 80°16'14.3688"W | 647.70            | 36.803          | 1.10          | -1.09                | -0.93               |
| 7205.00 | 10.020          | 39.110      | 7145.15  | -221.65        | 531.04     | 398.16    | 1751494.58        | 417135.80          | 39°38'33.7244"N | 80°16'14.2405"W | 663.73            | 36.862          | 0.62          | 0.62                 | -0.26               |
| 7300.00 | 10.390          | 40.230      | 7238.64  | -226.48        | 543.99     | 408.91    | 1751505.32        | 417148.75          | 39°38'33.8534"N | 80°16'14.1045"W | 680.54            | 36.931          | 0.44          | 0.39                 | 1.18                |
| 7403.00 | 17.230          | 65.680      | 7338.69  | -226.60        | 557.39     | 428.85    | 1751525.26        | 417162.15          | 39°38'33.9875"N | 80°16'13.8511"W | 703.28            | 37.574          | 8.73          | 6.64                 | 24.71               |
| 7497.00 | 16.650          | 69.670      | 7428.62  | -221.25        | 567.81     | 454.16    | 1751550.58        | 417172.56          | 39°38'34.0925"N | 80°16'13.5286"W | 727.10            | 38.655          | 1.38          | -0.62                | 4.24                |
| 7591.00 | 14.000          | 97.560      | 7519.39  | -210.64        | 570.99     | 478.10    | 1751574.51        | 417175.75          | 39°38'34.1261"N | 80°16'13.2230"W | 744.72            | 39.940          | 8.24          | -2.82                | 29.67               |
| 7685.00 | 14.800          | 122.750     | 7610.52  | -192.14        | 563.00     | 499.49    | 1751595.90        | 417167.75          | 39°38'34.0488"N | 80°16'12.9487"W | 752.63            | 41.579          | 6.67          | 0.85                 | 26.80               |
| 7780.00 | 19.590          | 130.850     | 7701.26  | -165.66        | 546.00     | 521.76    | 1751618.17        | 417150.76          | 39°38'33.8828"N | 80°16'12.6622"W | 755.22            | 43.699          | 5.63          | 5.04                 | 8.53                |
| 7874.00 | 26.030          | 138.250     | 7787.88  | -130.01        | 520.28     | 547.44    | 1751643.85        | 417125.03          | 39°38'33.6307"N | 80°16'12.3310"W | 755.24            | 46.458          | 7.49          | 6.85                 | 7.87                |
| 7969.00 | 33.440          | 145.210     | 7870.34  | -83.12         | 483.16     | 576.31    | 1751672.71        | 417087.92          | 39°38'33.2664"N | 80°16'11.9580"W | 752.05            | 50.024          | 8.59          | 7.80                 | 7.33                |
| 8063.00 | 40.380          | 145.450     | 7945.46  | -26.71         | 436.76     | 608.39    | 1751704.80        | 417041.52          | 39°38'32.8105"N | 80°16'11.5428"W | 748.93            | 54.326          | 7.38          | 7.38                 | 0.26                |
| 8158.00 | 47.790          | 145.100     | 8013.65  | 39.32          | 382.48     | 646.03    | 1751742.43        | 416987.25          | 39°38'32.2773"N | 80°16'11.0558"W | 750.76            | 59.372          | 7.80          | 7.80                 | -0.37               |
| 8252.00 | 54.890          | 146.840     | 8072.34  | 112.67         | 321.66     | 687.03    | 1751783.43        | 416926.43          | 39°38'31.6797"N | 80°16'10.5250"W | 758.60            | 64.911          | 7.69          | 7.55                 | 1.85                |
| 8346.00 | 63.210          | 147.100     | 8120.64  | 193.21         | 254.13     | 730.93    | 1751827.32        | 416858.90          | 39°38'31.0160"N | 80°16'9.9565"W  | 773.85            | 70.828          | 8.85          | 8.85                 | 0.28                |
| 8441.00 | 70.750          | 148.590     | 8157.76  | 280.55         | 180.15     | 777.40    | 1751873.79        | 416784.93          | 39°38'30.2888"N | 80°16'9.3543"W  | 798.00            | 76.953          | 8.07          | 7.94                 | 1.57                |
| 8535.00 | 76.080          | 148.990     | 8184.58  | 370.53         | 103.12     | 824.06    | 1751920.45        | 416707.90          | 39°38'29.5316"N | 80°16'8.7494"W  | 830.49            | 82.867          | 5.68          | 5.67                 | 0.43                |
| 8630.00 | 84.240          | 149.520     | 8200.81  | 463.93         | 22.74      | 871.87    | 1751968.25        | 416627.53          | 39°38'28.7412"N | 80°16'8.1296"W  | 872.16            | 88.506          | 8.61          | 8.59                 | 0.56                |
| 8725.00 | 87.510          | 149.190     | 8207.64  | 558.54         | -58.77     | 920.16    | 1752016.54        | 416546.02          | 39°38'27.9398"N | 80°16'7.5034"W  | 922.03            | 93.654          | 3.46          | 3.44                 | -0.35               |
| 8820.00 | 90.030          | 146.770     | 8209.68  | 653.47         | -139.29    | 970.51    | 1752066.89        | 416465.51          | 39°38'27.1484"N | 80°16'6.8509"W  | 980.45            | 98.167          | 3.68          | 2.65                 | -2.55               |
| 8914.00 | 89.320          | 146.210     | 8210.21  | 747.47         | -217.66    | 1022.40   | 1752118.78        | 416387.14          | 39°38'26.3782"N | 80°16'6.1790"W  | 1045.32           | 102.018         | 0.96          | -0.76                | -0.60               |



# Actual Wellpath Report

Phoenix 4H AWP Proj: 27212'

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| REFERENCE WELLPATH IDENTIFICATION |                               |  |           |                |
|-----------------------------------|-------------------------------|--|-----------|----------------|
| Operator                          | NORTHEAST NATURAL ENERGY, LLC |  | Well      | Phoenix 4H     |
| Field                             | Monongalia                    |  | API/Legal |                |
| Facility                          | Phoenix Pad                   |  | Wellbore  | Phoenix 4H AWB |
| Slot                              | Slot 04                       |  |           |                |

| WELLPATH DATA (313 stations) |                 |             |          |                |            |           |                   |                    |                 |                 |                   |                 |               |                      |                     |  |
|------------------------------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|-----------------|-----------------|-------------------|-----------------|---------------|----------------------|---------------------|--|
| MD [ft]                      | Inclination [°] | Azimuth [°] | TVD [ft] | Vert Sect [ft] | North [ft] | East [ft] | Grid East [US ft] | Grid North [US ft] | Latitude        | Longitude       | Closure Dist [ft] | Closure Dir [°] | DLS [°/100ft] | Build Rate [°/100ft] | Turn Rate [°/100ft] |  |
| 9021.00                      | 89.450          | 145.770     | 8211.36  | 854.46         | -306.35    | 1082.25   | 1752178.62        | 416298.46          | 39°38'25.5068"N | 80°16'5.4044"W  | 1124.77           | 105.805         | 0.43          | 0.12                 | -0.41               |  |
| 9115.00                      | 89.630          | 146.180     | 8212.11  | 948.45         | -384.25    | 1134.85   | 1752231.22        | 416220.56          | 39°38'24.7413"N | 80°16'4.7235"W  | 1198.13           | 108.706         | 0.48          | 0.19                 | 0.44                |  |
| 9210.00                      | 88.890          | 145.820     | 8213.34  | 1043.44        | -463.01    | 1187.96   | 1752284.33        | 416141.81          | 39°38'23.9675"N | 80°16'4.0360"W  | 1275.00           | 111.293         | 0.87          | -0.78                | -0.38               |  |
| 9305.00                      | 89.630          | 146.120     | 8214.57  | 1138.43        | -541.73    | 1241.12   | 1752337.49        | 416063.09          | 39°38'23.1940"N | 80°16'3.3479"W  | 1354.20           | 113.580         | 0.84          | 0.78                 | 0.32                |  |
| 9400.00                      | 89.600          | 145.930     | 8215.21  | 1233.43        | -620.51    | 1294.21   | 1752390.57        | 415984.32          | 39°38'22.4200"N | 80°16'2.6607"W  | 1435.28           | 115.615         | 0.20          | -0.03                | -0.20               |  |
| 9494.00                      | 89.630          | 146.060     | 8215.84  | 1327.42        | -698.43    | 1346.78   | 1752443.14        | 415906.40          | 39°38'21.6543"N | 80°16'1.9802"W  | 1517.11           | 117.411         | 0.14          | 0.03                 | 0.14                |  |
| 9589.00                      | 89.780          | 146.230     | 8216.33  | 1422.42        | -777.32    | 1399.70   | 1752496.06        | 415827.51          | 39°38'20.8791"N | 80°16'1.2951"W  | 1601.06           | 119.046         | 0.24          | 0.16                 | 0.18                |  |
| 9683.00                      | 89.540          | 146.410     | 8216.88  | 1516.42        | -855.54    | 1451.83   | 1752548.18        | 415749.30          | 39°38'20.1105"N | 80°16'0.6203"W  | 1685.16           | 120.510         | 0.32          | -0.26                | 0.19                |  |
| 9777.00                      | 89.600          | 145.950     | 8217.59  | 1610.41        | -933.64    | 1504.15   | 1752600.50        | 415671.21          | 39°38'19.3432"N | 80°15'59.9431"W | 1770.35           | 121.828         | 0.49          | 0.06                 | -0.49               |  |
| 9873.00                      | 89.750          | 146.060     | 8218.13  | 1706.41        | -1013.23   | 1557.82   | 1752654.17        | 415591.62          | 39°38'18.5611"N | 80°15'59.2483"W | 1858.34           | 123.040         | 0.19          | 0.16                 | 0.11                |  |
| 9967.00                      | 89.540          | 145.920     | 8218.72  | 1800.41        | -1091.15   | 1610.40   | 1752706.74        | 415513.71          | 39°38'17.7955"N | 80°15'58.5678"W | 1945.25           | 124.120         | 0.27          | -0.22                | -0.15               |  |
| 10061.00                     | 89.630          | 145.790     | 8219.40  | 1894.40        | -1168.94   | 1663.16   | 1752759.50        | 415435.92          | 39°38'17.0312"N | 80°15'57.8849"W | 2032.86           | 125.101         | 0.17          | 0.10                 | -0.14               |  |
| 10155.00                     | 89.820          | 146.000     | 8219.85  | 1988.40        | -1246.77   | 1715.87   | 1752812.20        | 415358.09          | 39°38'16.2664"N | 80°15'57.2028"W | 2121.00           | 126.003         | 0.30          | 0.20                 | 0.22                |  |
| 10250.00                     | 89.880          | 146.050     | 8220.10  | 2083.39        | -1325.55   | 1768.96   | 1752865.29        | 415279.32          | 39°38'15.4923"N | 80°15'56.5156"W | 2210.50           | 126.846         | 0.08          | 0.06                 | 0.05                |  |
| 10345.00                     | 89.660          | 145.970     | 8220.48  | 2178.39        | -1404.32   | 1822.06   | 1752918.39        | 415200.56          | 39°38'14.7184"N | 80°15'55.8282"W | 2300.44           | 127.623         | 0.25          | -0.23                | -0.08               |  |
| 10440.00                     | 89.540          | 145.650     | 8221.14  | 2273.38        | -1482.90   | 1875.45   | 1752971.77        | 415121.98          | 39°38'13.9463"N | 80°15'55.1373"W | 2390.88           | 128.333         | 0.36          | -0.13                | -0.34               |  |
| 10535.00                     | 89.750          | 145.720     | 8221.73  | 2368.38        | -1561.36   | 1929.00   | 1753025.32        | 415043.52          | 39°38'13.1754"N | 80°15'54.4442"W | 2481.71           | 128.987         | 0.23          | 0.22                 | 0.07                |  |
| 10630.00                     | 90.000          | 146.080     | 8221.94  | 2463.37        | -1640.03   | 1982.26   | 1753078.58        | 414964.86          | 39°38'12.4025"N | 80°15'53.7549"W | 2572.75           | 129.603         | 0.46          | 0.26                 | 0.38                |  |
| 10725.00                     | 89.350          | 145.510     | 8222.48  | 2558.36        | -1718.60   | 2035.67   | 1753131.98        | 414886.30          | 39°38'11.6305"N | 80°15'53.0638"W | 2664.11           | 130.172         | 0.91          | -0.68                | -0.60               |  |
| 10819.00                     | 89.880          | 146.320     | 8223.11  | 2652.36        | -1796.44   | 2088.34   | 1753184.66        | 414808.46          | 39°38'10.8656"N | 80°15'52.3820"W | 2754.70           | 130.703         | 1.03          | 0.56                 | 0.86                |  |
| 10914.00                     | 90.370          | 146.180     | 8222.90  | 2747.36        | -1875.43   | 2141.12   | 1753237.43        | 414729.47          | 39°38'10.0894"N | 80°15'51.6988"W | 2846.34           | 131.215         | 0.54          | 0.52                 | -0.15               |  |
| 11008.00                     | 90.860          | 146.360     | 8221.89  | 2841.35        | -1953.61   | 2193.32   | 1753289.62        | 414651.30          | 39°38'9.3213"N  | 80°15'51.0232"W | 2937.21           | 131.692         | 0.56          | 0.52                 | 0.19                |  |
| 11103.00                     | 90.400          | 145.000     | 8220.85  | 2936.34        | -2032.06   | 2246.87   | 1753343.18        | 414572.86          | 39°38'8.5504"N  | 80°15'50.3301"W | 3029.47           | 132.126         | 1.51          | -0.48                | -1.43               |  |
| 11197.00                     | 90.620          | 146.290     | 8220.01  | 3030.32        | -2109.66   | 2299.92   | 1753396.22        | 414495.26          | 39°38'7.7880"N  | 80°15'49.6437"W | 3120.94           | 132.529         | 1.39          | 0.23                 | 1.37                |  |
| 11292.00                     | 89.970          | 144.880     | 8219.52  | 3125.31        | -2188.03   | 2353.61   | 1753449.90        | 414416.90          | 39°38'7.0181"N  | 80°15'48.9490"W | 3213.55           | 132.912         | 1.63          | -0.68                | -1.48               |  |
| 11387.00                     | 90.430          | 146.400     | 8219.19  | 3220.30        | -2266.45   | 2407.22   | 1753503.51        | 414338.48          | 39°38'6.2476"N  | 80°15'48.2552"W | 3306.28           | 133.275         | 1.67          | 0.48                 | 1.60                |  |
| 11483.00                     | 90.550          | 145.610     | 8218.37  | 3316.29        | -2346.03   | 2460.89   | 1753557.18        | 414258.90          | 39°38'5.4655"N  | 80°15'47.5605"W | 3399.98           | 133.631         | 0.83          | 0.12                 | -0.82               |  |
| 11578.00                     | 90.430          | 145.670     | 8217.56  | 3411.28        | -2424.45   | 2514.51   | 1753610.80        | 414180.48          | 39°38'4.6950"N  | 80°15'46.8667"W | 3492.96           | 133.955         | 0.14          | -0.13                | 0.06                |  |
| 11673.00                     | 90.000          | 144.910     | 8217.20  | 3506.26        | -2502.55   | 2568.60   | 1753664.89        | 414102.40          | 39°38'3.9278"N  | 80°15'46.1669"W | 3586.15           | 134.254         | 0.92          | -0.45                | -0.80               |  |
| 11767.00                     | 89.110          | 146.210     | 8217.93  | 3600.25        | -2580.07   | 2621.76   | 1753718.04        | 414024.88          | 39°38'3.1662"N  | 80°15'45.4790"W | 3678.37           | 134.541         | 1.68          | -0.95                | 1.38                |  |



# Actual Wellpath Report

Phoenix 4H AWP Proj: 27212'

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## REFERENCE WELLPATH IDENTIFICATION

|          |                               |           |                |
|----------|-------------------------------|-----------|----------------|
| Operator | NORTHEAST NATURAL ENERGY, LLC | Well      | Phoenix 4H     |
| Field    | Monongalia                    | API/Legal |                |
| Facility | Phoenix Pad                   | Wellbore  | Phoenix 4H AWB |
| Slot     | Slot 04                       |           |                |

## WELLPATH DATA (313 stations)

| MD [ft]  | Inclination [°] | Azimuth [°] | TVD [ft] | Vert Sect [ft] | North [ft] | East [ft] | Grid East [US ft] | Grid North [US ft] | Latitude        | Longitude       | Closure Dist [ft] | Closure Dir [°] | DLS [°/100ft] | Build Rate [°/100ft] | Turn Rate [°/100ft] |
|----------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|-----------------|-----------------|-------------------|-----------------|---------------|----------------------|---------------------|
| 11862.00 | 90.890          | 147.030     | 8217.93  | 3695.24        | -2659.39   | 2674.03   | 1753770.30        | 413945.56          | 39°38'2.3867"N  | 80°15'44.8024"W | 3771.31           | 134.843         | 2.06          | 1.87                 | 0.86                |
| 11956.00 | 91.230          | 147.020     | 8216.19  | 3789.22        | -2738.23   | 2725.18   | 1753821.45        | 413866.72          | 39°38'1.6118"N  | 80°15'44.1400"W | 3863.23           | 135.137         | 0.36          | 0.36                 | -0.01               |
| 12049.00 | 90.710          | 146.770     | 8214.62  | 3882.20        | -2816.13   | 2775.97   | 1753872.24        | 413788.84          | 39°38'0.8462"N  | 80°15'43.4825"W | 3954.31           | 135.411         | 0.62          | -0.56                | -0.27               |
| 12144.00 | 90.830          | 146.560     | 8213.34  | 3977.19        | -2895.49   | 2828.17   | 1753924.43        | 413709.48          | 39°38'0.0663"N  | 80°15'42.8067"W | 4047.52           | 135.674         | 0.25          | 0.13                 | -0.22               |
| 12238.00 | 90.650          | 147.120     | 8212.13  | 4071.18        | -2974.17   | 2879.58   | 1753975.84        | 413630.80          | 39°37'59.2930"N | 80°15'42.1411"W | 4139.77           | 135.926         | 0.63          | -0.19                | 0.60                |
| 12333.00 | 90.310          | 147.300     | 8211.33  | 4166.17        | -3054.03   | 2931.03   | 1754027.29        | 413550.94          | 39°37'58.5081"N | 80°15'41.4749"W | 4232.97           | 136.177         | 0.40          | -0.36                | 0.19                |
| 12427.00 | 90.520          | 146.580     | 8210.65  | 4260.16        | -3132.81   | 2982.30   | 1754078.56        | 413472.17          | 39°37'57.7339"N | 80°15'40.8110"W | 4325.35           | 136.410         | 0.80          | 0.22                 | -0.77               |
| 12522.00 | 90.520          | 146.920     | 8209.79  | 4355.15        | -3212.26   | 3034.39   | 1754130.64        | 413392.73          | 39°37'56.9531"N | 80°15'40.1367"W | 4418.84           | 136.631         | 0.36          | 0.00                 | 0.36                |
| 12617.00 | 90.920          | 146.910     | 8208.59  | 4450.14        | -3291.85   | 3086.24   | 1754182.49        | 413313.14          | 39°37'56.1709"N | 80°15'39.4653"W | 4512.33           | 136.846         | 0.42          | 0.42                 | -0.01               |
| 12712.00 | 90.650          | 146.480     | 8207.29  | 4545.13        | -3371.24   | 3138.40   | 1754234.65        | 413233.76          | 39°37'55.3907"N | 80°15'38.7901"W | 4605.95           | 137.048         | 0.53          | -0.28                | -0.45               |
| 12807.00 | 90.460          | 147.050     | 8206.37  | 4640.12        | -3450.69   | 3190.47   | 1754286.71        | 413154.31          | 39°37'54.6098"N | 80°15'38.1161"W | 4699.61           | 137.244         | 0.63          | -0.20                | 0.60                |
| 12901.00 | 90.550          | 146.390     | 8205.54  | 4734.12        | -3529.27   | 3242.04   | 1754338.29        | 413075.73          | 39°37'53.8375"N | 80°15'37.4483"W | 4792.35           | 137.429         | 0.71          | 0.10                 | -0.70               |
| 12995.00 | 90.590          | 146.800     | 8204.61  | 4828.11        | -3607.74   | 3293.79   | 1754390.03        | 412997.27          | 39°37'53.0664"N | 80°15'36.7785"W | 4885.17           | 137.605         | 0.44          | 0.04                 | 0.44                |
| 13090.00 | 91.050          | 146.630     | 8203.25  | 4923.10        | -3687.15   | 3345.92   | 1754442.16        | 412917.87          | 39°37'52.2860"N | 80°15'36.1036"W | 4978.98           | 137.778         | 0.52          | 0.48                 | -0.18               |
| 13186.00 | 90.860          | 146.770     | 8201.65  | 5019.09        | -3767.37   | 3398.62   | 1754494.86        | 412837.65          | 39°37'51.4976"N | 80°15'35.4214"W | 5073.83           | 137.946         | 0.25          | -0.20                | 0.15                |
| 13281.00 | 90.520          | 146.920     | 8200.50  | 5114.07        | -3846.90   | 3450.58   | 1754546.80        | 412758.12          | 39°37'50.7160"N | 80°15'34.7488"W | 5167.70           | 138.109         | 0.39          | -0.36                | 0.16                |
| 13375.00 | 90.520          | 146.480     | 8199.65  | 5208.07        | -3925.46   | 3502.18   | 1754598.41        | 412679.57          | 39°37'49.9439"N | 80°15'34.0808"W | 5260.66           | 138.262         | 0.47          | 0.00                 | -0.47               |
| 13470.00 | 90.340          | 147.150     | 8198.94  | 5303.06        | -4004.97   | 3554.18   | 1754650.40        | 412600.07          | 39°37'49.1625"N | 80°15'33.4077"W | 5354.62           | 138.413         | 0.73          | -0.19                | 0.71                |
| 13566.00 | 90.580          | 146.980     | 8198.17  | 5399.05        | -4085.54   | 3606.37   | 1754702.59        | 412519.50          | 39°37'48.3707"N | 80°15'32.7319"W | 5449.54           | 138.565         | 0.31          | 0.25                 | -0.18               |
| 13659.00 | 90.490          | 147.080     | 8197.30  | 5492.04        | -4163.56   | 3656.98   | 1754753.19        | 412441.49          | 39°37'47.6039"N | 80°15'32.0767"W | 5541.54           | 138.706         | 0.14          | -0.10                | 0.11                |
| 13754.00 | 90.590          | 146.680     | 8196.40  | 5587.03        | -4243.12   | 3708.88   | 1754805.10        | 412361.93          | 39°37'46.8219"N | 80°15'31.4047"W | 5635.59           | 138.843         | 0.43          | 0.11                 | -0.42               |
| 13848.00 | 90.680          | 146.760     | 8195.36  | 5681.03        | -4321.70   | 3760.46   | 1754856.67        | 412283.36          | 39°37'46.0496"N | 80°15'30.7371"W | 5728.71           | 138.972         | 0.13          | 0.10                 | 0.09                |
| 13947.00 | 90.800          | 146.980     | 8194.08  | 5780.01        | -4404.60   | 3814.56   | 1754910.77        | 412200.46          | 39°37'45.2349"N | 80°15'30.0367"W | 5826.78           | 139.106         | 0.25          | 0.12                 | 0.22                |
| 14041.00 | 90.590          | 146.820     | 8192.94  | 5874.00        | -4483.34   | 3865.89   | 1754962.10        | 412121.73          | 39°37'44.4610"N | 80°15'29.3722"W | 5919.92           | 139.229         | 0.28          | -0.22                | -0.17               |
| 14136.00 | 90.800          | 147.360     | 8191.79  | 5968.99        | -4563.08   | 3917.50   | 1755013.71        | 412041.99          | 39°37'43.6772"N | 80°15'28.7040"W | 6014.03           | 139.353         | 0.61          | 0.22                 | 0.57                |
| 14231.00 | 90.710          | 147.340     | 8190.54  | 6063.97        | -4643.07   | 3968.75   | 1755064.95        | 411962.01          | 39°37'42.8911"N | 80°15'28.0404"W | 6108.11           | 139.477         | 0.10          | -0.09                | -0.02               |
| 14327.00 | 90.710          | 147.310     | 8189.35  | 6159.95        | -4723.87   | 4020.58   | 1755116.77        | 411881.21          | 39°37'42.0969"N | 80°15'27.3693"W | 6203.22           | 139.598         | 0.03          | 0.00                 | -0.03               |
| 14422.00 | 90.590          | 146.820     | 8188.27  | 6254.93        | -4803.59   | 4072.22   | 1755168.41        | 411801.49          | 39°37'41.3132"N | 80°15'26.7007"W | 6297.42           | 139.711         | 0.53          | -0.13                | -0.52               |
| 14516.00 | 91.170          | 147.080     | 8186.83  | 6348.92        | -4882.37   | 4123.48   | 1755219.67        | 411722.71          | 39°37'40.5390"N | 80°15'26.0371"W | 6390.67           | 139.817         | 0.68          | 0.62                 | 0.28                |
| 14610.00 | 91.360          | 147.250     | 8184.75  | 6442.88        | -4961.34   | 4174.44   | 1755270.62        | 411643.76          | 39°37'39.7628"N | 80°15'25.3774"W | 6483.89           | 139.923         | 0.27          | 0.20                 | 0.18                |





# Actual Wellpath Report

Phoenix 4H AWP Proj: 27212'  
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## REFERENCE WELLPATH IDENTIFICATION

|          |                               |           |                |
|----------|-------------------------------|-----------|----------------|
| Operator | NORTHEAST NATURAL ENERGY, LLC | Well      | Phoenix 4H     |
| Field    | Monongalia                    | API/Legal |                |
| Facility | Phoenix Pad                   | Wellbore  | Phoenix 4H AWB |
| Slot     | Slot 04                       |           |                |

## WELLPATH DATA (313 stations)

| MD [ft]  | Inclination [°] | Azimuth [°] | TVD [ft] | Vert Sect [ft] | North [ft] | East [ft] | Grid East [US ft] | Grid North [US ft] | Latitude        | Longitude       | Closure Dist [ft] | Closure Dir [°] | DLS [°/100ft] | Build Rate [°/100ft] | Turn Rate [°/100ft] |
|----------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|-----------------|-----------------|-------------------|-----------------|---------------|----------------------|---------------------|
| 14705.00 | 91.110          | 146.680     | 8182.71  | 6537.86        | -5040.96   | 4226.22   | 1755322.40        | 411564.14          | 39°37'38.9803"N | 80°15'24.7071"W | 6578.16           | 140.024         | 0.66          | -0.26                | -0.60               |
| 14801.00 | 90.860          | 146.680     | 8181.06  | 6633.84        | -5121.17   | 4278.94   | 1755375.12        | 411483.94          | 39°37'38.1920"N | 80°15'24.0246"W | 6673.51           | 140.120         | 0.26          | -0.26                | 0.00                |
| 14895.00 | 90.950          | 147.330     | 8179.57  | 6727.82        | -5200.00   | 4330.13   | 1755426.30        | 411405.11          | 39°37'37.4172"N | 80°15'23.3620"W | 6766.83           | 140.215         | 0.70          | 0.10                 | 0.69                |
| 14990.00 | 90.800          | 146.300     | 8178.12  | 6822.81        | -5279.49   | 4382.12   | 1755478.29        | 411325.62          | 39°37'36.6359"N | 80°15'22.6890"W | 6861.19           | 140.306         | 1.10          | -0.16                | -1.08               |
| 15086.00 | 90.770          | 146.720     | 8176.80  | 6918.80        | -5359.55   | 4435.08   | 1755531.25        | 411245.57          | 39°37'35.8492"N | 80°15'22.0035"W | 6956.63           | 140.392         | 0.44          | -0.03                | 0.44                |
| 15181.00 | 90.950          | 147.170     | 8175.38  | 7013.78        | -5439.16   | 4486.89   | 1755583.06        | 411165.96          | 39°37'35.0667"N | 80°15'21.3328"W | 7051.01           | 140.480         | 0.51          | 0.19                 | 0.47                |
| 15287.00 | 90.650          | 146.710     | 8173.90  | 7119.77        | -5527.99   | 4544.71   | 1755640.87        | 411077.14          | 39°37'34.1936"N | 80°15'20.5843"W | 7156.33           | 140.575         | 0.52          | -0.28                | -0.43               |
| 15371.00 | 90.770          | 147.320     | 8172.86  | 7203.75        | -5598.45   | 4590.44   | 1755686.60        | 411006.69          | 39°37'33.5012"N | 80°15'19.9924"W | 7239.80           | 140.650         | 0.74          | 0.14                 | 0.73                |
| 15467.00 | 90.740          | 147.140     | 8171.59  | 7299.74        | -5679.16   | 4642.40   | 1755738.55        | 410925.98          | 39°37'32.7078"N | 80°15'19.3197"W | 7335.17           | 140.736         | 0.19          | -0.03                | -0.19               |
| 15562.00 | 90.220          | 147.100     | 8170.80  | 7394.72        | -5758.94   | 4693.97   | 1755790.12        | 410846.20          | 39°37'31.9237"N | 80°15'18.6521"W | 7429.58           | 140.817         | 0.55          | -0.55                | -0.04               |
| 15656.00 | 90.280          | 147.190     | 8170.39  | 7488.71        | -5837.90   | 4744.97   | 1755841.11        | 410767.24          | 39°37'31.1475"N | 80°15'17.9919"W | 7523.02           | 140.896         | 0.12          | 0.06                 | 0.10                |
| 15751.00 | 90.180          | 147.450     | 8170.01  | 7583.70        | -5917.86   | 4796.26   | 1755892.41        | 410687.29          | 39°37'30.3616"N | 80°15'17.3278"W | 7617.43           | 140.976         | 0.29          | -0.11                | 0.27                |
| 15846.00 | 90.400          | 147.050     | 8169.52  | 7678.69        | -5997.76   | 4847.65   | 1755943.79        | 410607.40          | 39°37'29.5762"N | 80°15'16.6624"W | 7711.87           | 141.053         | 0.48          | 0.23                 | -0.42               |
| 15941.00 | 90.180          | 146.870     | 8169.04  | 7773.68        | -6077.40   | 4899.45   | 1755995.59        | 410527.76          | 39°37'28.7935"N | 80°15'15.9920"W | 7806.37           | 141.125         | 0.30          | -0.23                | -0.19               |
| 16036.00 | 89.850          | 146.980     | 8169.02  | 7868.68        | -6157.00   | 4951.29   | 1756047.43        | 410448.16          | 39°37'28.0111"N | 80°15'15.3209"W | 7900.88           | 141.195         | 0.37          | -0.35                | 0.12                |
| 16132.00 | 89.570          | 146.980     | 8169.51  | 7964.67        | -6237.50   | 5003.60   | 1756099.74        | 410367.68          | 39°37'27.2200"N | 80°15'14.6437"W | 7996.40           | 141.264         | 0.29          | -0.29                | 0.00                |
| 16227.00 | 89.230          | 146.100     | 8170.50  | 8059.66        | -6316.75   | 5055.98   | 1756152.11        | 410288.43          | 39°37'26.4411"N | 80°15'13.9659"W | 8091.00           | 141.326         | 0.99          | -0.36                | -0.93               |
| 16320.00 | 88.830          | 146.070     | 8172.07  | 8152.65        | -6393.91   | 5107.86   | 1756203.99        | 410211.27          | 39°37'25.6828"N | 80°15'13.2946"W | 8183.67           | 141.380         | 0.43          | -0.43                | -0.03               |
| 16415.00 | 88.280          | 145.770     | 8174.47  | 8247.61        | -6472.57   | 5161.08   | 1756257.20        | 410132.61          | 39°37'24.9099"N | 80°15'12.6061"W | 8278.34           | 141.432         | 0.66          | -0.58                | -0.32               |
| 16510.00 | 88.650          | 147.290     | 8177.02  | 8342.58        | -6551.79   | 5213.45   | 1756309.57        | 410053.40          | 39°37'24.1314"N | 80°15'11.9283"W | 8372.93           | 141.490         | 1.65          | 0.39                 | 1.60                |
| 16605.00 | 87.630          | 145.590     | 8180.10  | 8437.52        | -6630.91   | 5265.94   | 1756362.05        | 409974.29          | 39°37'23.3538"N | 80°15'11.2491"W | 8467.53           | 141.545         | 2.09          | -1.07                | -1.79               |
| 16701.00 | 87.110          | 145.790     | 8184.50  | 8533.41        | -6710.12   | 5319.99   | 1756416.11        | 409895.08          | 39°37'22.5755"N | 80°15'10.5498"W | 8563.18           | 141.592         | 0.58          | -0.54                | 0.21                |
| 16796.00 | 86.270          | 145.690     | 8189.99  | 8628.25        | -6788.50   | 5373.38   | 1756469.49        | 409816.70          | 39°37'21.8052"N | 80°15'9.8592"W  | 8657.77           | 141.637         | 0.89          | -0.88                | -0.11               |
| 16891.00 | 87.050          | 145.040     | 8195.52  | 8723.07        | -6866.53   | 5427.28   | 1756523.39        | 409738.68          | 39°37'21.0385"N | 80°15'9.1620"W  | 8752.41           | 141.677         | 1.07          | 0.82                 | -0.68               |
| 16986.00 | 89.350          | 145.340     | 8198.51  | 8818.00        | -6944.49   | 5481.48   | 1756577.59        | 409660.72          | 39°37'20.2726"N | 80°15'8.4610"W  | 8847.18           | 141.715         | 2.44          | 2.42                 | 0.32                |
| 17082.00 | 89.480          | 145.980     | 8199.49  | 8913.99        | -7023.75   | 5535.64   | 1756631.74        | 409581.47          | 39°37'19.4938"N | 80°15'7.7605"W  | 8942.95           | 141.757         | 0.68          | 0.14                 | 0.67                |
| 17177.00 | 89.690          | 145.750     | 8200.18  | 9008.98        | -7102.38   | 5588.94   | 1756685.04        | 409502.84          | 39°37'18.7211"N | 80°15'7.0709"W  | 9037.71           | 141.800         | 0.33          | 0.22                 | -0.24               |
| 17272.00 | 88.400          | 145.750     | 8201.76  | 9103.96        | -7180.90   | 5642.40   | 1756738.49        | 409424.33          | 39°37'17.9496"N | 80°15'6.3794"W  | 9132.47           | 141.841         | 1.36          | -1.36                | 0.00                |
| 17367.00 | 88.620          | 145.840     | 8204.23  | 9198.92        | -7259.44   | 5695.79   | 1756791.88        | 409345.79          | 39°37'17.1778"N | 80°15'5.6888"W  | 9227.21           | 141.882         | 0.25          | 0.23                 | 0.09                |
| 17463.00 | 88.490          | 145.970     | 8206.65  | 9294.89        | -7338.91   | 5749.58   | 1756845.67        | 409266.33          | 39°37'16.3969"N | 80°15'4.9928"W  | 9322.95           | 141.923         | 0.19          | -0.14                | 0.14                |



# Actual Wellpath Report

Phoenix 4H AWP Proj: 27212'

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| REFERENCE WELLPATH IDENTIFICATION |                               |  |           |                |
|-----------------------------------|-------------------------------|--|-----------|----------------|
| Operator                          | NORTHEAST NATURAL ENERGY, LLC |  | Well      | Phoenix 4H     |
| Field                             | Monongalia                    |  | API/Legal |                |
| Facility                          | Phoenix Pad                   |  | Wellbore  | Phoenix 4H AWB |
| Slot                              | Slot 04                       |  |           |                |

| WELLPATH DATA (313 stations) |                 |             |          |                |            |           |                   |                    |                 |                 |                   |                 |               |                      |                     |
|------------------------------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|-----------------|-----------------|-------------------|-----------------|---------------|----------------------|---------------------|
| MD [ft]                      | Inclination [°] | Azimuth [°] | TVD [ft] | Vert Sect [ft] | North [ft] | East [ft] | Grid East [US ft] | Grid North [US ft] | Latitude        | Longitude       | Closure Dist [ft] | Closure Dir [°] | DLS [°/100ft] | Build Rate [°/100ft] | Turn Rate [°/100ft] |
| 17558.00                     | 87.200          | 146.040     | 8210.22  | 9389.82        | -7417.62   | 5802.66   | 1756898.75        | 409187.63          | 39°37'15.6234"N | 80°15'4.3061"W  | 9417.64           | 141.965         | 1.36          | -1.36                | 0.07                |
| 17653.00                     | 86.830          | 145.850     | 8215.17  | 9484.68        | -7496.22   | 5855.79   | 1756951.87        | 409109.03          | 39°37'14.8510"N | 80°15'3.6188"W  | 9512.28           | 142.004         | 0.44          | -0.39                | -0.20               |
| 17749.00                     | 86.640          | 146.210     | 8220.64  | 9580.53        | -7575.71   | 5909.34   | 1757005.42        | 409029.55          | 39°37'14.0699"N | 80°15'2.9260"W  | 9607.89           | 142.044         | 0.42          | -0.20                | 0.38                |
| 17844.00                     | 86.210          | 146.390     | 8226.56  | 9675.34        | -7654.59   | 5961.95   | 1757058.02        | 408950.67          | 39°37'13.2947"N | 80°15'2.2453"W  | 9702.45           | 142.086         | 0.49          | -0.45                | 0.19                |
| 17940.00                     | 86.180          | 146.070     | 8232.93  | 9771.13        | -7734.21   | 6015.19   | 1757111.27        | 408871.05          | 39°37'12.5122"N | 80°15'1.5564"W  | 9797.99           | 142.126         | 0.33          | -0.03                | -0.33               |
| 18035.00                     | 86.370          | 146.530     | 8239.10  | 9865.93        | -7813.08   | 6067.79   | 1757163.86        | 408792.19          | 39°37'11.7371"N | 80°15'0.8758"W  | 9892.54           | 142.166         | 0.52          | 0.20                 | 0.48                |
| 18130.00                     | 86.000          | 145.920     | 8245.42  | 9960.72        | -7891.87   | 6120.49   | 1757216.55        | 408713.40          | 39°37'10.9628"N | 80°15'0.1941"W  | 9987.09           | 142.205         | 0.75          | -0.39                | -0.64               |
| 18226.00                     | 87.140          | 146.270     | 8251.17  | 10056.54       | -7971.41   | 6173.94   | 1757270.01        | 408633.87          | 39°37'10.1812"N | 80°14'59.5025"W | 10082.70          | 142.242         | 1.24          | 1.19                 | 0.36                |
| 18321.00                     | 87.170          | 146.340     | 8255.88  | 10151.43       | -8050.35   | 6226.58   | 1757322.64        | 408554.93          | 39°37'9.4054"N  | 80°14'58.8214"W | 10177.35          | 142.280         | 0.08          | 0.03                 | 0.07                |
| 18416.00                     | 87.260          | 146.660     | 8260.50  | 10246.31       | -8129.47   | 6278.95   | 1757375.01        | 408475.81          | 39°37'8.6277"N  | 80°14'58.1438"W | 10271.98          | 142.319         | 0.35          | 0.09                 | 0.34                |
| 18511.00                     | 87.070          | 146.300     | 8265.20  | 10341.20       | -8208.58   | 6331.35   | 1757427.40        | 408396.71          | 39°37'7.8503"N  | 80°14'57.4658"W | 10366.62          | 142.357         | 0.43          | -0.20                | -0.38               |
| 18607.00                     | 87.040          | 145.750     | 8270.13  | 10437.07       | -8288.08   | 6384.93   | 1757480.98        | 408317.21          | 39°37'7.0690"N  | 80°14'56.7727"W | 10462.30          | 142.390         | 0.57          | -0.03                | -0.57               |
| 18702.00                     | 88.120          | 146.890     | 8274.14  | 10531.98       | -8367.06   | 6437.56   | 1757533.61        | 408238.24          | 39°37'6.2928"N  | 80°14'56.0917"W | 10556.99          | 142.426         | 1.65          | 1.14                 | 1.20                |
| 18797.00                     | 88.460          | 146.460     | 8276.98  | 10626.94       | -8446.41   | 6489.73   | 1757585.77        | 408158.90          | 39°37'5.5130"N  | 80°14'55.4166"W | 10651.68          | 142.463         | 0.58          | 0.36                 | -0.45               |
| 18892.00                     | 88.310          | 145.920     | 8279.65  | 10721.90       | -8525.31   | 6542.57   | 1757638.61        | 408080.00          | 39°37'4.7376"N  | 80°14'54.7330"W | 10746.45          | 142.496         | 0.59          | -0.16                | -0.57               |
| 18988.00                     | 88.340          | 146.280     | 8282.46  | 10817.85       | -8604.96   | 6596.09   | 1757692.13        | 408000.36          | 39°37'3.9548"N  | 80°14'54.0406"W | 10842.22          | 142.528         | 0.38          | 0.03                 | 0.38                |
| 19083.00                     | 88.460          | 145.980     | 8285.11  | 10912.82       | -8683.81   | 6649.01   | 1757745.05        | 407921.52          | 39°37'3.1800"N  | 80°14'53.3560"W | 10937.00          | 142.559         | 0.34          | 0.13                 | -0.32               |
| 19178.00                     | 88.710          | 145.890     | 8287.46  | 11007.78       | -8762.48   | 6702.21   | 1757798.24        | 407842.85          | 39°37'2.4068"N  | 80°14'52.6678"W | 11031.80          | 142.588         | 0.28          | 0.26                 | -0.09               |
| 19273.00                     | 89.200          | 146.140     | 8289.19  | 11102.77       | -8841.24   | 6755.30   | 1757851.33        | 407764.09          | 39°37'1.6329"N  | 80°14'51.9810"W | 11126.62          | 142.618         | 0.58          | 0.52                 | 0.26                |
| 19367.00                     | 89.080          | 146.250     | 8290.60  | 11196.76       | -8919.34   | 6807.60   | 1757903.62        | 407686.00          | 39°37'0.8653"N  | 80°14'51.3045"W | 11220.43          | 142.648         | 0.17          | -0.13                | 0.12                |
| 19463.00                     | 88.580          | 145.180     | 8292.56  | 11292.73       | -8998.64   | 6861.66   | 1757957.68        | 407606.70          | 39°37'0.0861"N  | 80°14'50.6052"W | 11316.27          | 142.674         | 1.23          | -0.52                | -1.11               |
| 19557.00                     | 88.120          | 145.040     | 8295.27  | 11386.67       | -9075.71   | 6915.41   | 1758011.43        | 407529.63          | 39°36'59.3288"N | 80°14'49.9103"W | 11410.14          | 142.694         | 0.51          | -0.49                | -0.15               |
| 19653.00                     | 88.650          | 145.660     | 8297.97  | 11482.61       | -9154.65   | 6969.97   | 1758065.98        | 407450.70          | 39°36'58.5532"N | 80°14'49.2047"W | 11506.00          | 142.716         | 0.85          | 0.55                 | 0.65                |
| 19748.00                     | 88.710          | 146.470     | 8300.16  | 11577.58       | -9233.45   | 7022.99   | 1758119.00        | 407371.91          | 39°36'57.7788"N | 80°14'48.5189"W | 11600.82          | 142.743         | 0.85          | 0.06                 | 0.85                |
| 19843.00                     | 88.650          | 146.210     | 8302.35  | 11672.56       | -9312.50   | 7075.63   | 1758171.64        | 407292.86          | 39°36'57.0019"N | 80°14'47.8378"W | 11695.61          | 142.772         | 0.28          | -0.06                | -0.27               |
| 19939.00                     | 89.350          | 146.470     | 8304.03  | 11768.54       | -9392.39   | 7128.83   | 1758224.83        | 407212.97          | 39°36'56.2167"N | 80°14'47.1496"W | 11791.41          | 142.801         | 0.78          | 0.73                 | 0.27                |
| 20034.00                     | 89.110          | 146.550     | 8305.30  | 11863.53       | -9471.61   | 7181.24   | 1758277.25        | 407133.76          | 39°36'55.4381"N | 80°14'46.4714"W | 11886.20          | 142.831         | 0.27          | -0.25                | 0.08                |
| 20129.00                     | 89.820          | 146.610     | 8306.19  | 11958.53       | -9550.90   | 7233.57   | 1758329.56        | 407054.47          | 39°36'54.6588"N | 80°14'45.7945"W | 11980.99          | 142.861         | 0.75          | 0.75                 | 0.06                |
| 20224.00                     | 89.910          | 146.920     | 8306.41  | 12053.53       | -9630.36   | 7285.63   | 1758381.63        | 406975.02          | 39°36'53.8778"N | 80°14'45.1207"W | 12075.77          | 142.892         | 0.34          | 0.09                 | 0.33                |
| 20320.00                     | 90.460          | 146.020     | 8306.10  | 12149.52       | -9710.39   | 7338.66   | 1758434.65        | 406895.00          | 39°36'53.0913"N | 80°14'44.4347"W | 12171.59          | 142.920         | 1.10          | 0.57                 | -0.94               |

| REFERENCE WELLPATH IDENTIFICATION |                               |           |                |
|-----------------------------------|-------------------------------|-----------|----------------|
| Operator                          | NORTHEAST NATURAL ENERGY, LLC | Well      | Phoenix 4H     |
| Field                             | Monongalia                    | API/Legal |                |
| Facility                          | Phoenix Pad                   | Wellbore  | Phoenix 4H AWB |
| Slot                              | Slot 04                       |           |                |

| WELLPATH DATA (313 stations) |                 |             |          |                |            |           |                   |                    |                 |                 |                   |                 |               |                      |                     |
|------------------------------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|-----------------|-----------------|-------------------|-----------------|---------------|----------------------|---------------------|
| MD [ft]                      | Inclination [°] | Azimuth [°] | TVD [ft] | Vert Sect [ft] | North [ft] | East [ft] | Grid East [US ft] | Grid North [US ft] | Latitude        | Longitude       | Closure Dist [ft] | Closure Dir [°] | DLS [°/100ft] | Build Rate [°/100ft] | Turn Rate [°/100ft] |
| 20415.00                     | 90.590          | 146.720     | 8305.23  | 12244.52       | -9789.48   | 7391.27   | 1758487.26        | 406815.91          | 39°36'52.3139"N | 80°14'43.7540"W | 12266.41          | 142.946         | 0.75          | 0.14                 | 0.74                |
| 20510.00                     | 90.590          | 146.860     | 8304.26  | 12339.51       | -9868.96   | 7443.30   | 1758539.28        | 406736.43          | 39°36'51.5328"N | 80°14'43.0808"W | 12361.19          | 142.976         | 0.15          | 0.00                 | 0.15                |
| 20604.00                     | 90.520          | 146.560     | 8303.34  | 12433.51       | -9947.53   | 7494.89   | 1758590.87        | 406657.87          | 39°36'50.7605"N | 80°14'42.4133"W | 12454.99          | 143.004         | 0.33          | -0.07                | -0.32               |
| 20700.00                     | 90.950          | 146.540     | 8302.11  | 12529.50       | -10027.63  | 7547.80   | 1758643.78        | 406577.78          | 39°36'49.9733"N | 80°14'41.7287"W | 12550.80          | 143.031         | 0.45          | 0.45                 | -0.02               |
| 20795.00                     | 91.050          | 145.620     | 8300.46  | 12624.48       | -10106.45  | 7600.81   | 1758696.78        | 406498.96          | 39°36'49.1987"N | 80°14'41.0431"W | 12645.65          | 143.054         | 0.97          | 0.11                 | -0.97               |
| 20890.00                     | 91.570          | 145.330     | 8298.28  | 12719.44       | -10184.69  | 7654.64   | 1758750.61        | 406420.72          | 39°36'48.4298"N | 80°14'40.3470"W | 12740.54          | 143.072         | 0.63          | 0.55                 | -0.31               |
| 20986.00                     | 93.540          | 145.770     | 8294.00  | 12815.33       | -10263.77  | 7708.89   | 1758804.85        | 406341.64          | 39°36'47.6527"N | 80°14'39.6454"W | 12836.35          | 143.091         | 2.10          | 2.05                 | 0.46                |
| 21081.00                     | 93.480          | 145.240     | 8288.19  | 12910.14       | -10341.92  | 7762.59   | 1758858.55        | 406263.50          | 39°36'46.8848"N | 80°14'38.9510"W | 12931.09          | 143.108         | 0.56          | -0.06                | -0.56               |
| 21176.00                     | 93.510          | 146.120     | 8282.40  | 13004.96       | -10420.24  | 7816.05   | 1758912.01        | 406185.19          | 39°36'46.1152"N | 80°14'38.2596"W | 13025.82          | 143.127         | 0.93          | 0.03                 | 0.93                |
| 21272.00                     | 92.680          | 146.130     | 8277.21  | 13100.82       | -10499.82  | 7869.48   | 1758965.44        | 406105.61          | 39°36'45.3331"N | 80°14'37.5685"W | 13121.55          | 143.149         | 0.86          | -0.86                | 0.01                |
| 21367.00                     | 92.740          | 146.160     | 8272.72  | 13195.71       | -10578.63  | 7922.34   | 1759018.30        | 406026.81          | 39°36'44.5586"N | 80°14'36.8847"W | 13216.31          | 143.170         | 0.07          | 0.06                 | 0.03                |
| 21462.00                     | 92.180          | 146.270     | 8268.64  | 13290.62       | -10657.51  | 7975.12   | 1759071.07        | 405947.93          | 39°36'43.7833"N | 80°14'36.2020"W | 13311.09          | 143.192         | 0.60          | -0.59                | 0.12                |
| 21557.00                     | 93.170          | 146.310     | 8264.21  | 13385.52       | -10736.45  | 8027.79   | 1759123.74        | 405868.99          | 39°36'43.0075"N | 80°14'35.5207"W | 13405.85          | 143.214         | 1.04          | 1.04                 | 0.04                |
| 21652.00                     | 93.080          | 145.480     | 8259.03  | 13480.37       | -10815.00  | 8080.98   | 1759176.92        | 405790.46          | 39°36'42.2356"N | 80°14'34.8329"W | 13500.60          | 143.233         | 0.88          | -0.09                | -0.87               |
| 21748.00                     | 92.000          | 144.610     | 8254.78  | 13576.25       | -10893.60  | 8135.92   | 1759231.86        | 405711.86          | 39°36'41.4633"N | 80°14'34.1225"W | 13596.46          | 143.246         | 1.44          | -1.13                | -0.91               |
| 21843.00                     | 92.060          | 145.260     | 8251.41  | 13671.16       | -10971.31  | 8190.47   | 1759286.40        | 405634.15          | 39°36'40.6998"N | 80°14'33.4174"W | 13691.36          | 143.257         | 0.69          | 0.06                 | 0.68                |
| 21938.00                     | 92.830          | 147.370     | 8247.36  | 13766.07       | -11050.28  | 8243.10   | 1759339.04        | 405555.19          | 39°36'39.9237"N | 80°14'32.7365"W | 13786.13          | 143.278         | 2.36          | 0.81                 | 2.22                |
| 22034.00                     | 91.660          | 145.790     | 8243.60  | 13861.99       | -11130.34  | 8295.94   | 1759391.87        | 405475.13          | 39°36'39.1368"N | 80°14'32.0530"W | 13881.90          | 143.301         | 2.05          | -1.22                | -1.65               |
| 22129.00                     | 92.770          | 145.160     | 8239.93  | 13956.90       | -11208.55  | 8349.74   | 1759445.67        | 405396.93          | 39°36'38.3682"N | 80°14'31.3573"W | 13976.76          | 143.316         | 1.34          | 1.17                 | -0.66               |
| 22225.00                     | 92.650          | 145.740     | 8235.39  | 14052.78       | -11287.53  | 8404.12   | 1759500.05        | 405317.95          | 39°36'37.5922"N | 80°14'30.6541"W | 14072.58          | 143.331         | 0.62          | -0.12                | 0.60                |
| 22320.00                     | 93.600          | 146.870     | 8230.21  | 14147.64       | -11366.45  | 8456.74   | 1759552.67        | 405239.04          | 39°36'36.8165"N | 80°14'29.9734"W | 14167.31          | 143.350         | 1.55          | 1.00                 | 1.19                |
| 22415.00                     | 93.690          | 146.830     | 8224.17  | 14242.44       | -11445.83  | 8508.59   | 1759604.51        | 405159.66          | 39°36'36.0363"N | 80°14'29.3027"W | 14261.94          | 143.374         | 0.10          | 0.09                 | -0.04               |
| 22510.00                     | 93.790          | 146.990     | 8217.97  | 14337.24       | -11525.25  | 8560.34   | 1759656.26        | 405080.25          | 39°36'35.2556"N | 80°14'28.6330"W | 14356.56          | 143.397         | 0.20          | 0.11                 | 0.17                |
| 22605.00                     | 93.690          | 146.770     | 8211.78  | 14432.03       | -11604.64  | 8612.14   | 1759708.05        | 405000.86          | 39°36'34.4752"N | 80°14'27.9629"W | 14451.18          | 143.420         | 0.25          | -0.11                | -0.23               |
| 22701.00                     | 92.550          | 146.130     | 8206.55  | 14527.89       | -11684.53  | 8665.12   | 1759761.03        | 404920.97          | 39°36'33.6900"N | 80°14'27.2776"W | 14546.91          | 143.440         | 1.36          | -1.19                | -0.67               |
| 22796.00                     | 92.980          | 147.540     | 8201.97  | 14622.77       | -11763.96  | 8717.02   | 1759812.93        | 404841.55          | 39°36'32.9093"N | 80°14'26.6060"W | 14641.63          | 143.462         | 1.55          | 0.45                 | 1.48                |
| 22891.00                     | 92.680          | 146.270     | 8197.28  | 14717.65       | -11843.45  | 8768.83   | 1759864.74        | 404762.07          | 39°36'32.1279"N | 80°14'25.9357"W | 14736.34          | 143.484         | 1.37          | -0.32                | -1.34               |
| 22987.00                     | 92.400          | 146.440     | 8193.02  | 14813.55       | -11923.29  | 8821.97   | 1759917.87        | 404682.23          | 39°36'31.3432"N | 80°14'25.2484"W | 14832.13          | 143.502         | 0.34          | -0.29                | 0.18                |
| 23082.00                     | 92.490          | 147.290     | 8188.97  | 14908.46       | -12002.77  | 8873.85   | 1759969.75        | 404602.76          | 39°36'30.5620"N | 80°14'24.5772"W | 14926.88          | 143.524         | 0.90          | 0.09                 | 0.89                |
| 23177.00                     | 91.570          | 146.700     | 8185.60  | 15003.40       | -12082.39  | 8925.56   | 1760021.46        | 404523.14          | 39°36'29.7794"N | 80°14'23.9081"W | 15021.64          | 143.546         | 1.15          | -0.97                | -0.62               |



# Actual Wellpath Report

Phoenix 4H AWP Proj: 27212'

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| REFERENCE WELLPATH IDENTIFICATION |                               |  |           |                |
|-----------------------------------|-------------------------------|--|-----------|----------------|
| Operator                          | NORTHEAST NATURAL ENERGY, LLC |  | Well      | Phoenix 4H     |
| Field                             | Monongalia                    |  | API/Legal |                |
| Facility                          | Phoenix Pad                   |  | Wellbore  | Phoenix 4H AWB |
| Slot                              | Slot 04                       |  |           |                |

| WELLPATH DATA (313 stations) |                 |             |          |                |            |           |                   |                    |                 |                 |                   |                 |               |                      |                     |
|------------------------------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|-----------------|-----------------|-------------------|-----------------|---------------|----------------------|---------------------|
| MD [ft]                      | Inclination [°] | Azimuth [°] | TVD [ft] | Vert Sect [ft] | North [ft] | East [ft] | Grid East [US ft] | Grid North [US ft] | Latitude        | Longitude       | Closure Dist [ft] | Closure Dir [°] | DLS [°/100ft] | Build Rate [°/100ft] | Turn Rate [°/100ft] |
| 23272.00                     | 91.910          | 147.010     | 8182.72  | 15098.35       | -12161.89  | 8977.48   | 1760073.37        | 404443.64          | 39°36'28.9979"N | 80°14'23.2364"W | 15116.44          | 143.567         | 0.48          | 0.36                 | 0.33                |
| 23367.00                     | 92.250          | 146.560     | 8179.27  | 15193.28       | -12241.32  | 9029.49   | 1760125.37        | 404364.22          | 39°36'28.2171"N | 80°14'22.5636"W | 15211.23          | 143.587         | 0.59          | 0.36                 | -0.47               |
| 23463.00                     | 92.160          | 146.300     | 8175.58  | 15289.21       | -12321.25  | 9082.53   | 1760178.42        | 404284.30          | 39°36'27.4316"N | 80°14'21.8774"W | 15307.04          | 143.604         | 0.29          | -0.09                | -0.27               |
| 23558.00                     | 91.630          | 146.330     | 8172.44  | 15384.16       | -12400.25  | 9135.19   | 1760231.07        | 404205.30          | 39°36'26.6550"N | 80°14'21.1963"W | 15401.88          | 143.621         | 0.56          | -0.56                | 0.03                |
| 23653.00                     | 91.790          | 147.670     | 8169.60  | 15479.11       | -12479.89  | 9186.91   | 1760282.79        | 404125.67          | 39°36'25.8722"N | 80°14'20.5272"W | 15496.67          | 143.642         | 1.42          | 0.17                 | 1.41                |
| 23749.00                     | 91.570          | 146.910     | 8166.79  | 15575.06       | -12560.63  | 9238.76   | 1760334.64        | 404044.93          | 39°36'25.0785"N | 80°14'19.8562"W | 15592.44          | 143.664         | 0.82          | -0.23                | -0.79               |
| 23844.00                     | 91.750          | 146.940     | 8164.04  | 15670.01       | -12640.20  | 9290.59   | 1760386.46        | 403965.36          | 39°36'24.2963"N | 80°14'19.1858"W | 15687.25          | 143.684         | 0.19          | 0.19                 | 0.03                |
| 23939.00                     | 92.280          | 146.840     | 8160.69  | 15764.95       | -12719.73  | 9342.45   | 1760438.32        | 403885.84          | 39°36'23.5146"N | 80°14'18.5148"W | 15782.04          | 143.703         | 0.57          | 0.56                 | -0.11               |
| 24034.00                     | 92.060          | 147.130     | 8157.10  | 15859.87       | -12799.33  | 9394.17   | 1760490.04        | 403806.24          | 39°36'22.7322"N | 80°14'17.8456"W | 15876.82          | 143.723         | 0.38          | -0.23                | 0.31                |
| 24129.00                     | 92.830          | 147.020     | 8153.04  | 15954.78       | -12879.00  | 9445.76   | 1760541.62        | 403726.58          | 39°36'21.9490"N | 80°14'17.1781"W | 15971.57          | 143.743         | 0.82          | 0.81                 | -0.12               |
| 24224.00                     | 92.490          | 147.040     | 8148.64  | 16049.67       | -12958.61  | 9497.40   | 1760593.26        | 403646.97          | 39°36'21.1664"N | 80°14'16.5100"W | 16066.31          | 143.762         | 0.36          | -0.36                | 0.02                |
| 24320.00                     | 91.570          | 146.660     | 8145.24  | 16145.61       | -13038.94  | 9549.87   | 1760645.72        | 403566.65          | 39°36'20.3768"N | 80°14'15.8313"W | 16162.11          | 143.781         | 1.04          | -0.96                | -0.40               |
| 24415.00                     | 91.380          | 146.670     | 8142.79  | 16240.57       | -13118.28  | 9602.05   | 1760697.91        | 403487.31          | 39°36'19.5969"N | 80°14'15.1562"W | 16256.96          | 143.797         | 0.20          | -0.20                | 0.01                |
| 24510.00                     | 91.260          | 147.170     | 8140.60  | 16335.54       | -13197.86  | 9653.89   | 1760749.74        | 403407.74          | 39°36'18.8147"N | 80°14'14.4856"W | 16351.79          | 143.815         | 0.54          | -0.13                | 0.53                |
| 24605.00                     | 91.260          | 146.610     | 8138.51  | 16430.52       | -13277.41  | 9705.77   | 1760801.62        | 403328.19          | 39°36'18.0327"N | 80°14'13.8144"W | 16446.63          | 143.833         | 0.59          | 0.00                 | -0.59               |
| 24700.00                     | 90.830          | 146.310     | 8136.78  | 16525.50       | -13356.58  | 9758.25   | 1760854.10        | 403249.02          | 39°36'17.2545"N | 80°14'13.1356"W | 16541.52          | 143.848         | 0.55          | -0.45                | -0.32               |
| 24796.00                     | 90.680          | 146.800     | 8135.52  | 16621.49       | -13436.68  | 9811.16   | 1760907.00        | 403168.93          | 39°36'16.4673"N | 80°14'12.4514"W | 16637.40          | 143.864         | 0.53          | -0.16                | 0.51                |
| 24891.00                     | 91.600          | 146.990     | 8133.63  | 16716.47       | -13516.24  | 9863.03   | 1760958.87        | 403089.38          | 39°36'15.6852"N | 80°14'11.7803"W | 16732.25          | 143.881         | 0.99          | 0.97                 | 0.20                |
| 24986.00                     | 91.320          | 146.770     | 8131.20  | 16811.43       | -13595.78  | 9914.92   | 1761010.76        | 403009.84          | 39°36'14.9033"N | 80°14'11.1090"W | 16827.09          | 143.898         | 0.37          | -0.29                | -0.23               |
| 25081.00                     | 91.420          | 146.990     | 8128.93  | 16906.40       | -13675.32  | 9966.82   | 1761062.65        | 402930.30          | 39°36'14.1214"N | 80°14'10.4377"W | 16921.94          | 143.915         | 0.25          | 0.11                 | 0.23                |
| 25176.00                     | 91.810          | 146.810     | 8126.26  | 17001.36       | -13754.88  | 10018.68  | 1761114.50        | 402850.76          | 39°36'13.3395"N | 80°14'9.7668"W  | 17016.77          | 143.931         | 0.45          | 0.41                 | -0.19               |
| 25271.00                     | 91.970          | 147.660     | 8123.12  | 17096.30       | -13834.72  | 10070.06  | 1761165.88        | 402770.92          | 39°36'12.5546"N | 80°14'9.1020"W  | 17111.56          | 143.950         | 0.91          | 0.17                 | 0.89                |
| 25367.00                     | 91.600          | 146.890     | 8120.13  | 17192.24       | -13915.44  | 10121.93  | 1761217.75        | 402690.20          | 39°36'11.7610"N | 80°14'8.4309"W  | 17207.35          | 143.968         | 0.89          | -0.39                | -0.80               |
| 25462.00                     | 91.760          | 146.900     | 8117.35  | 17287.19       | -13994.98  | 10173.80  | 1761269.62        | 402610.66          | 39°36'10.9791"N | 80°14'7.7599"W  | 17302.19          | 143.984         | 0.17          | 0.17                 | 0.01                |
| 25557.00                     | 92.000          | 146.360     | 8114.23  | 17382.14       | -14074.28  | 10226.02  | 1761321.84        | 402531.37          | 39°36'10.1997"N | 80°14'7.0844"W  | 17397.04          | 143.999         | 0.62          | 0.25                 | -0.57               |
| 25653.00                     | 92.220          | 146.500     | 8110.70  | 17478.07       | -14154.21  | 10279.07  | 1761374.88        | 402451.44          | 39°36'9.4140"N  | 80°14'6.3984"W  | 17492.89          | 144.012         | 0.27          | 0.23                 | 0.15                |
| 25748.00                     | 91.570          | 145.890     | 8107.55  | 17573.02       | -14233.11  | 10331.90  | 1761427.70        | 402372.55          | 39°36'8.6386"N  | 80°14'5.7152"W  | 17587.76          | 144.024         | 0.94          | -0.68                | -0.64               |
| 25843.00                     | 92.120          | 146.080     | 8104.50  | 17667.97       | -14311.81  | 10385.01  | 1761480.82        | 402293.86          | 39°36'7.8651"N  | 80°14'5.0284"W  | 17682.66          | 144.034         | 0.61          | 0.58                 | 0.20                |
| 25938.00                     | 92.220          | 146.290     | 8100.90  | 17762.90       | -14390.68  | 10437.84  | 1761533.64        | 402214.99          | 39°36'7.0899"N  | 80°14'4.3453"W  | 17777.52          | 144.046         | 0.24          | 0.11                 | 0.22                |
| 26034.00                     | 92.280          | 145.650     | 8097.13  | 17858.82       | -14470.18  | 10491.53  | 1761587.32        | 402135.49          | 39°36'6.3086"N  | 80°14'3.6512"W  | 17873.40          | 144.056         | 0.67          | 0.06                 | -0.67               |

# Actual Wellpath Report

Phoenix 4H AWP Proj: 27212'

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## REFERENCE WELLPATH IDENTIFICATION

|          |                               |           |                |
|----------|-------------------------------|-----------|----------------|
| Operator | NORTHEAST NATURAL ENERGY, LLC | Well      | Phoenix 4H     |
| Field    | Monongalia                    | API/Legal |                |
| Facility | Phoenix Pad                   | Wellbore  | Phoenix 4H AWB |
| Slot     | Slot 04                       |           |                |

## WELLPATH DATA (313 stations) † = interpolated, ‡ = extrapolated station

| MD [ft]   | Inclination [°] | Azimuth [°] | TVD [ft] | Vert Sect [ft] | North [ft] | East [ft] | Grid East [US ft] | Grid North [US ft] | Latitude        | Longitude       | Closure Dist [ft] | Closure Dir [°] | DLS [°/100ft] | Build Rate [°/100ft] | Turn Rate [°/100ft] |
|-----------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|-----------------|-----------------|-------------------|-----------------|---------------|----------------------|---------------------|
| 26129.00  | 92.370          | 146.040     | 8093.28  | 17953.74       | -14548.73  | 10544.82  | 1761640.61        | 402056.95          | 39°36'5.5366"N  | 80°14'2.9621"W  | 17968.27          | 144.066         | 0.42          | 0.09                 | 0.41                |
| 26224.00  | 91.690          | 145.820     | 8089.91  | 18048.68       | -14627.37  | 10598.00  | 1761693.80        | 401978.31          | 39°36'4.7637"N  | 80°14'2.2745"W  | 18063.16          | 144.075         | 0.75          | -0.72                | -0.23               |
| 26319.00  | 91.660          | 146.010     | 8087.13  | 18143.63       | -14706.02  | 10651.22  | 1761747.01        | 401899.67          | 39°36'3.9907"N  | 80°14'1.5864"W  | 18158.07          | 144.085         | 0.20          | -0.03                | 0.20                |
| 26416.00  | 91.880          | 146.280     | 8084.14  | 18240.59       | -14786.54  | 10705.23  | 1761801.02        | 401819.16          | 39°36'3.1994"N  | 80°14'0.8880"W  | 18254.96          | 144.096         | 0.36          | 0.23                 | 0.28                |
| 26511.00  | 91.850          | 146.320     | 8081.05  | 18335.54       | -14865.53  | 10757.92  | 1761853.70        | 401740.17          | 39°36'2.4230"N  | 80°14'0.2067"W  | 18349.84          | 144.107         | 0.05          | -0.03                | 0.04                |
| 26606.00  | 91.780          | 145.950     | 8078.04  | 18430.49       | -14944.37  | 10810.83  | 1761906.61        | 401661.33          | 39°36'1.6481"N  | 80°13'59.5226"W | 18444.74          | 144.118         | 0.40          | -0.07                | -0.39               |
| 26702.00  | 91.820          | 146.140     | 8075.02  | 18526.44       | -15023.96  | 10864.42  | 1761960.20        | 401581.75          | 39°36'0.8658"N  | 80°13'58.8296"W | 18540.63          | 144.128         | 0.20          | 0.04                 | 0.20                |
| 26797.00  | 91.600          | 146.550     | 8072.19  | 18621.40       | -15103.01  | 10917.05  | 1762012.82        | 401502.71          | 39°36'0.0889"N  | 80°13'58.1491"W | 18635.52          | 144.139         | 0.49          | -0.23                | 0.43                |
| 26892.00  | 91.810          | 147.010     | 8069.36  | 18716.35       | -15182.44  | 10969.07  | 1762064.84        | 401423.28          | 39°35'59.3080"N | 80°13'57.4762"W | 18730.38          | 144.153         | 0.53          | 0.22                 | 0.48                |
| 26987.00  | 92.120          | 146.050     | 8066.10  | 18811.29       | -15261.64  | 11021.43  | 1762117.19        | 401344.08          | 39°35'58.5296"N | 80°13'56.7990"W | 18825.24          | 144.164         | 1.06          | 0.33                 | -1.01               |
| 27082.00  | 92.370          | 146.120     | 8062.38  | 18906.22       | -15340.42  | 11074.39  | 1762170.16        | 401265.31          | 39°35'57.7553"N | 80°13'56.1142"W | 18920.11          | 144.174         | 0.27          | 0.26                 | 0.07                |
| 27187.00  | 92.250          | 145.990     | 8058.15  | 19011.13       | -15427.45  | 11132.98  | 1762228.74        | 401178.28          | 39°35'56.8999"N | 80°13'55.3568"W | 19024.97          | 144.184         | 0.17          | -0.11                | -0.12               |
| 27212.00‡ | 92.250          | 145.990     | 8057.17  | 19036.11       | -15448.16  | 11146.95  | 1762242.71        | 401157.57          | 39°35'56.6964"N | 80°13'55.1761"W | 19049.94          | 144.187         | 0.00          | 0.00                 | 0.00                |

## HOLE & CASING SECTIONS - Ref Wellbore: Phoenix 4H AWB Ref Wellpath: Phoenix 4H AWP Proj: 27212'

| 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] |
|-----------------------------|---------------|-------------|---------------|----------------|--------------|----------------|----------------|--------------|--------------|
| 12.25in Open Hole           | 28.00         | 2864.00     | 2836.00       | 28.00          | 2863.84      | 0.00           | 0.00           | -12.77       | -14.27       |
| 9.625in Casing Intermediate | 28.00         | 2821.00     | 2793.00       | 28.00          | 2820.84      | 0.00           | 0.00           | -12.78       | -14.21       |
| 8.75in Open Hole            | 2864.00       | 7300.00     | 4436.00       | 2863.84        | 7238.64      | -12.77         | -14.27         | 543.99       | 408.91       |
| 8.5in Open Hole             | 7300.00       | 27212.00    | 19912.00      | 7238.64        | 8057.17      | 543.99         | 408.91         | -15448.16    | 11146.95     |
| 5.5in Casing Production     | 28.00         | 27182.00    | 27154.00      | 28.00          | 8058.35      | 0.00           | 0.00           | -15423.31    | 11130.18     |



# Actual Wellpath Report

Phoenix 4H AWP Proj: 27212'

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## REFERENCE WELLPATH IDENTIFICATION

|          |                               |           |                |
|----------|-------------------------------|-----------|----------------|
| Operator | NORTHEAST NATURAL ENERGY, LLC | Well      | Phoenix 4H     |
| Field    | Monongalia                    | API/Legal |                |
| Facility | Phoenix Pad                   | Wellbore  | Phoenix 4H AWB |
| Slot     | Slot 04                       |           |                |

## TARGETS

| Name                                  | TVD [ft] | North [ft] | East [ft] | Grid East [US ft] | Grid North [US ft] | Latitude        | Longitude       | Shape   |
|---------------------------------------|----------|------------|-----------|-------------------|--------------------|-----------------|-----------------|---------|
| Phoenix 4H BHL Rev-6                  | 8200.00  | -15526.05  | 11204.71  | 1762300.47        | 401079.69          | 39°35'55.9313"N | 80°13'54.4301"W | point   |
| Phoenix 4H LP Rev-5                   | 8200.00  | -28.88     | 898.01    | 1751994.40        | 416575.91          | 39°38'28.2333"N | 80°16'7.7897"W  | point   |
| Phoenix Hardline #1 (5.19.21)         | 8528.00  | -800.47    | 6020.80   | 1757116.87        | 415804.37          | 39°38'21.0362"N | 80°15'2.2251"W  | polygon |
| 2D Polygon: dimensions not calculated |          |            |           |                   |                    |                 |                 |         |
| Phoenix Pad Hardline (2.12.21)        | 8528.00  | 610.31     | 4931.85   | 1756027.99        | 417215.07          | 39°38'34.8882"N | 80°15'16.2957"W | polygon |
| 2D Polygon: dimensions not calculated |          |            |           |                   |                    |                 |                 |         |

## WELLPATH COMPOSITION - Ref Wellbore: Phoenix 4H AWB Ref Wellpath: Phoenix 4H AWP Proj: 27212'

| Start MD [ft] | End MD [ft] | Positional Uncertainty Model                           | Log Name/Comment   | Wellbore       | Survey Date |
|---------------|-------------|--|--|----------------|-------------|
| 28.00         | 2650.00     | BH Generic gyro - northseeking (Standard)              | 01_Gyro Surveys <12-1/4"> (50'-2650')                    | Phoenix 4H AWB | 2/27/2022   |
| 2650.00       | 7300.00     | OWSG MWD rev2 - Standard                               | 02_Tally MWD <8-3/4"> (2650')(2853'-7300')               | Phoenix 4H AWB | 2/27/2022   |
| 7300.00       | 27212.00    | BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing) | 03_ATK Curve [HRGM+Short Spacing] (7300') (7403'-27187') | Phoenix 4H AWB | 2/27/2022   |



# Actual Wellpath Report

Phoenix 4H AWP Proj: 27212'

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## REFERENCE WELLPATH IDENTIFICATION

|          |                               |           |                |
|----------|-------------------------------|-----------|----------------|
| Operator | NORTHEAST NATURAL ENERGY, LLC | Well      | Phoenix 4H     |
| Field    | Monongalia                    | API/Legal |                |
| Facility | Phoenix Pad                   | Wellbore  | Phoenix 4H AWB |
| Slot     | Slot 04                       |           |                |

## COMMENTS

### Wellpath general comments

API: 47-061-01875-0000

BH Job #: 111185273

Rig: Patterson 277

Duration: 02/28/2022 - 03/07/2022

01\_Gyro Surveys <12-1/4"> (50'-2650')

02\_Tally MWD <8-3/4"> (2650')(2853'-7300')

03\_ATK Curve [HRGM+Short Spacing] (7300') (7403'-27187')

Final Survey MD @ 27187'

Projected MD @ TD: 27212'