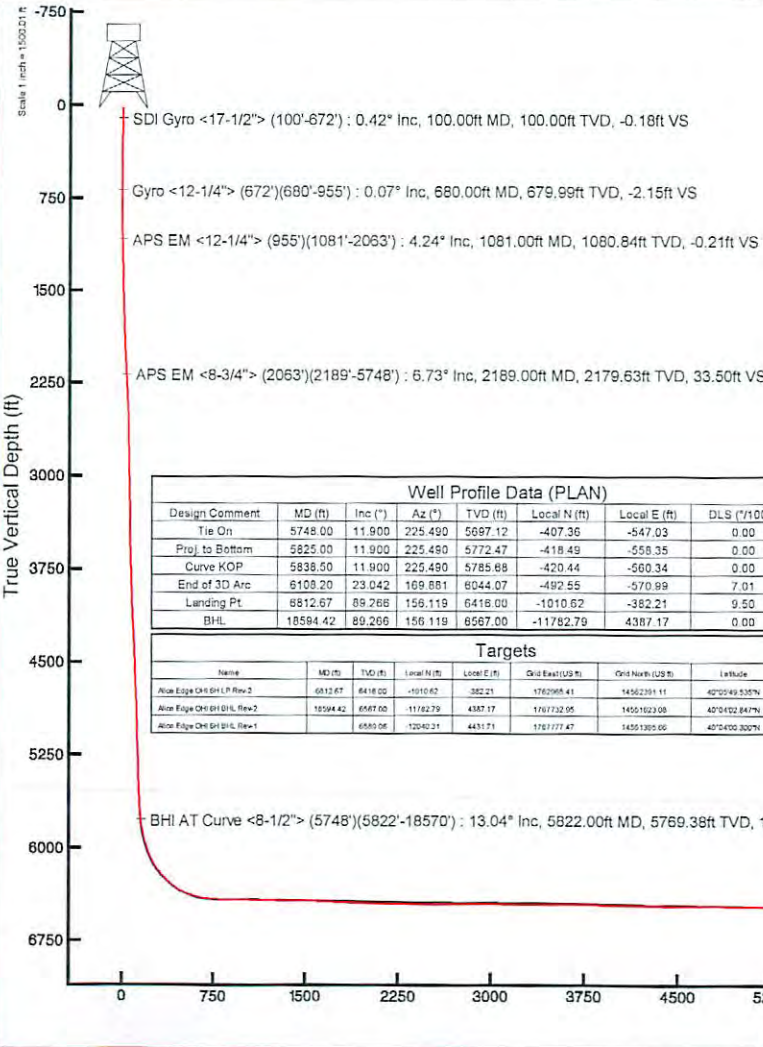


Location: Ohio County, WV  
Field: Ohio  
Facility: Alice Edge OHI Pad A

Slot: Slot #06  
Well: Alice Edge OHI 6H  
Wellbore: Alice Edge OHI 6H PWB

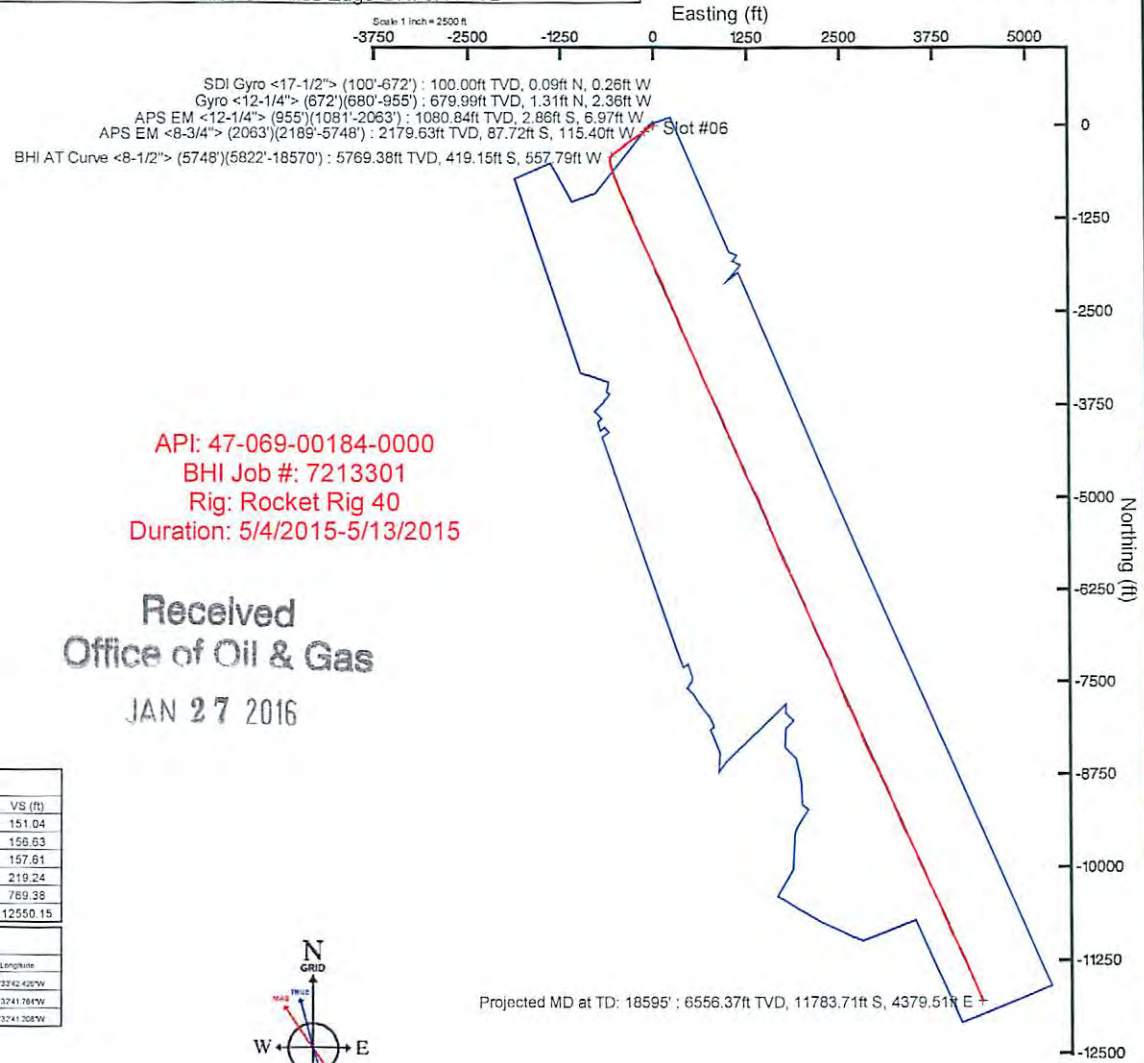
|  |   |
|--|---|
| Plot reference wellpath is Alice Edge OHI 6H PWB Rev.C.0   |   |
| True vertical depths are referenced to Rocket Rig 40 (RKB) | Grid System: NAD83 / UTM Zone 17 North, US feet |
| Measured depths are referenced to Rocket Rig 40 (RKB)      | North Reference: Grid north                     |
| Rocket Rig 40 (RKB) to Mean Sea Level: 1225 feet           | Scale: True distance                            |
| Mean Sea Level to Mud line (At Slot: Slot #06): -1199 feet | Depths are in feet                              |
| Coordinates are in feet referenced to Slot                 | Created by: edsanyar on 19/May/2015             |

| Location Information                                |                   |                    |                   |                    |                |
|---|-------------------|--------------------|-------------------|--------------------|----------------|
| Facility Name                                       | Grid East (US ft) | Grid North (US ft) | Latitude          | Longitude          |                |
| Alice Edge OHI Pad A                                | 1763332.250       | 14563424.920       | 40°05'59.737"N    | 80°33'37.638"W     |                |
| Slot  | Local N (ft)      | Local E (ft)       | Grid East (US ft) | Grid North (US ft) | Latitude       |
| Slot #06  | -23.69            | 15.23              | 1763347.470       | 14563401.340       | 40°05'59.503"N |
| Rocket Rig 40 (RKB) to Mud line (At Slot: Slot #06) | 26ft              |                    |                   |                    |                |
| Mean Sea Level to Mud line (At Slot: Slot #06)      | -1199ft           |                    |                   |                    |                |
| Rocket Rig 40 (RKB) to Mean Sea Level               | 1225ft            |                    |                   |                    |                |



| Well Profile Data (PLAN) |          |         |         |          |              |              |          |
|--------------------------|----------|---------|---------|----------|--------------|--------------|----------|
| Design Comment           | MD (ft)  | Inc (") | Az (°)  | TVD (ft) | Local N (ft) | Local E (ft) | VS (ft)  |
| Tie On                   | 5748.00  | 11.900  | 225.490 | 5697.12  | -407.36      | -547.03      | 151.04   |
| Proj to Bottom           | 5825.00  | 11.900  | 225.490 | 5772.47  | -418.49      | -558.35      | 156.63   |
| Curve KOP                | 5838.00  | 11.900  | 225.480 | 5785.88  | -420.44      | -560.34      | 157.61   |
| End of 3D Arc            | 6108.20  | 23.042  | 169.881 | 6044.07  | -492.55      | -570.99      | 219.24   |
| Landing Pt               | 6812.67  | 89.266  | 156.119 | 6418.00  | -1010.62     | -382.21      | 769.38   |
| BHL                      | 18584.42 | 89.266  | 156.119 | 6567.00  | -11782.79    | 4387.17      | 12550.15 |

| Targets                     |          |          |              |              |                   |                    |                |
|-----------------------------|----------|----------|--------------|--------------|-------------------|--------------------|----------------|
| Name                        | MD (ft)  | TVD (ft) | Local N (ft) | Local E (ft) | Grid East (US ft) | Grid North (US ft) | Latitude       |
| Alice Edge OHI 6H LP Rev-2  | 6812.67  | 6818.00  | -1010.62     | 382.21       | 1762998.41        | 14562291.11        | 40°05'49.538"N |
| Alice Edge OHI 6H BHL Rev-2 | 18594.42 | 6587.00  | -11782.79    | 4387.17      | 1761777.47        | 14551623.06        | 40°04'02.847"N |
| Alice Edge OHI 6H BHL Rev-1 | 6560.00  | 12040.31 | 4481.74      | 1761777.47   | 14551305.06       | 40°04'00.300"N     | 40°37'41.208"W |



User specified (HDGM) Dip: 67.73° Field: 53065 nT  
Magnetic North is 8.32 degrees West of True North (at 28/Apr/2015)  
Grid North is 0.28 degrees East of True North  
To correct azimuth from True to Grid subtract 0.28 degrees  
To correct azimuth from Magnetic to Grid subtract 8.60 degrees



# Actual Wellpath Report

Alice Edge OHI 6H AWP Proj: 18595'

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## REFERENCE WELLPATH IDENTIFICATION

|          |                      |          |                       |
|----------|----------------------|----------|-----------------------|
| Operator | SOUTHWESTERN ENERGY  | Slot     | Slot #06              |
| Area     | Ohio County, WV      | Well     | Alice Edge OHI 6H     |
| Field    | Ohio                 | Wellbore | Alice Edge OHI 6H AWB |
| Facility | Alice Edge OHI Pad A |          |                       |

## REPORT SETUP INFORMATION

|                     |                                    |                      |  |
|---------------------|------------------------------------|----------------------|--|
| Projection System   | NAD83 / UTM Zone 17 North, US feet | Software System      | WellArchitect® 4.0.1                             |
| North Reference     | Grid                               | User                 | Edsaryar   |
| Scale               | 0.999617                           | Report Generated     | 19/May/2015 at 10:46                             |
| Convergence at slot | 0.28° East                         | Database/Source file | WellArchitectEasternDB/Alice_Edge_OHI_6H_AWB.xml |

## WELLPATH LOCATION

|                       | Local coordinates |          | Grid coordinates |                 | Geographic coordinates |                |
|-----------------------|-------------------|----------|------------------|-----------------|------------------------|----------------|
|                       | North[ft]         | East[ft] | Easting[US ft]   | Northing[US ft] | Latitude               | Longitude      |
| Slot Location         | -23.59            | 15.23    | 1763347.47       | 14563401.34     | 40°05'59.503"N         | 80°33'37.444"W |
| Facility Reference Pt |                   |          | 1763332.25       | 14563424.92     | 40°05'59.737"N         | 80°33'37.638"W |
| Field Reference Pt    |                   |          | 0.00             | 0.00            | 0°00'00.000"           | 85°29'19.478"W |

## WELLPATH DATUM

|                          |                     |  |                   |
|--------------------------|---------------------|--|-------------------|
| Calculation method       | Minimum curvature   | Rocket Rig 40 (RKB) to Facility Vertical Datum     | 1225.00ft         |
| Horizontal Reference Pt  | Slot                | Rocket Rig 40 (RKB) to Mean Sea Level              | 1225.00ft         |
| Vertical Reference Pt    | Rocket Rig 40 (RKB) | Rocket Rig 40 (RKB) to Mud Line at Slot (Slot #06) | 26.00ft           |
| MD Reference Pt          | Rocket Rig 40 (RKB) | Section Origin                                     | N 0.00, E 0.00 ft |
| Field Vertical Reference | Mean Sea Level      | Section Azimuth                                    | 156.12°           |

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Office of Oil & Gas  
JAN 27 2016

# Actual Wellpath Report

Alice Edge OHI 6H AWP Proj: 18595'

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| REFERENCE WELLPATH IDENTIFICATION |                      |          |                       |
|-----------------------------------|----------------------|----------|-----------------------|
| Operator                          | SOUTHWESTERN ENERGY  | Slot     | Slot #06              |
| Area                              | Ohio County, WV      | Well     | Alice Edge OHI 6H     |
| Field                             | Ohio                 | Wellbore | Alice Edge OHI 6H AWB |
| Facility                          | Alice Edge OHI Pad A |          |                       |

| WELLPATH DATA (215 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           | 288.850     | 0.00     | 0.00           | 0.00       | 0.00      | 1763347.47        | 14563401.34        | 40°05'59.503"N | 80°33'37.444"W | 0.00              | 0.000           | 0.00          | 0.00                 | 0.00                |  |
| 26.00  | 0.000           | 288.850     | 26.00    | 0.00           | 0.00       | 0.00      | 1763347.47        | 14563401.34        | 40°05'59.503"N | 80°33'37.444"W | 0.00              | 0.000           | 0.00          | 0.00                 | 0.00                |  |
| 100.00   | 0.420           | 288.850     | 100.00   | -0.18          | 0.09       | -0.26     | 1763347.21        | 14563401.43        | 40°05'59.504"N | 80°33'37.447"W | 0.27              | 288.850         | 0.57          | 0.57                 | 0.00                |  |
| 200.00   | 0.400           | 294.060     | 200.00   | -0.69          | 0.35       | -0.92     | 1763346.55        | 14563401.69        | 40°05'59.507"N | 80°33'37.455"W | 0.99              | 290.692         | 0.04          | -0.02                | 5.21                |  |
| 300.00   | 0.410           | 296.550     | 299.99   | -1.23          | 0.65       | -1.56     | 1763345.91        | 14563401.99        | 40°05'59.510"N | 80°33'37.464"W | 1.69              | 292.625         | 0.02          | 0.01                 | 2.49                |  |
| 400.00   | 0.270           | 300.960     | 399.99   | -1.70          | 0.93       | -2.08     | 1763345.39        | 14563402.27        | 40°05'59.512"N | 80°33'37.470"W | 2.28              | 294.097         | 0.14          | -0.14                | 4.41                |  |
| 500.00   | 0.100           | 292.130     | 499.99   | -1.95          | 1.09       | -2.37     | 1763345.10        | 14563402.43        | 40°05'59.514"N | 80°33'37.474"W | 2.60              | 294.651         | 0.17          | -0.17                | -8.83               |  |
| 600.00   | 0.090           | 26.700      | 599.99   | -2.06          | 1.19       | -2.41     | 1763345.06        | 14563402.53        | 40°05'59.515"N | 80°33'37.475"W | 2.69              | 296.242         | 0.14          | -0.01                | 94.57               |  |
| 672.00   | 0.100           | 22.190      | 671.99   | -2.14          | 1.30       | -2.36     | 1763345.11        | 14563402.64        | 40°05'59.516"N | 80°33'37.474"W | 2.70              | 298.777         | 0.02          | 0.01                 | -6.26               |  |
| 680.00   | 0.070           | 58.030      | 679.99   | -2.15          | 1.31       | -2.36     | 1763345.12        | 14563402.65        | 40°05'59.516"N | 80°33'37.474"W | 2.69              | 299.015         | 0.74          | -0.37                | 448.00              |  |
| 769.00   | 0.020           | 119.620     | 768.99   | -2.14          | 1.33       | -2.30     | 1763345.17        | 14563402.67        | 40°05'59.516"N | 80°33'37.473"W | 2.65              | 300.039         | 0.07          | -0.06                | 69.20               |  |
| 861.00   | 0.110           | 59.800      | 860.99   | -2.14          | 1.36       | -2.21     | 1763345.27        | 14563402.70        | 40°05'59.517"N | 80°33'37.472"W | 2.59              | 301.735         | 0.11          | 0.10                 | -65.02              |  |
| 955.00   | 0.980           | 214.000     | 954.99   | -1.72          | 0.74       | -2.58     | 1763344.89        | 14563402.08        | 40°05'59.511"N | 80°33'37.477"W | 2.68              | 286.084         | 1.15          | 0.93                 | 164.04              |  |
| 1081.00  | 4.240           | 234.460     | 1080.84  | -0.21          | -2.86      | -6.97     | 1763340.50        | 14563398.48        | 40°05'59.475"N | 80°33'37.533"W | 7.53              | 247.703         | 2.65          | 2.59                 | 16.24               |  |
| 1175.00  | 3.580           | 224.940     | 1174.62  | 1.55           | -6.96      | -11.87    | 1763335.60        | 14563394.39        | 40°05'59.435"N | 80°33'37.597"W | 13.76             | 239.633         | 0.98          | -0.70                | -10.13              |  |
| 1268.00  | 4.640           | 224.220     | 1267.38  | 4.01           | -11.71     | -16.55    | 1763330.93        | 14563389.64        | 40°05'59.388"N | 80°33'37.657"W | 20.27             | 234.719         | 1.14          | 1.14                 | -0.77               |  |
| 1361.00  | 5.980           | 234.830     | 1359.98  | 6.36           | -17.19     | -23.13    | 1763324.35        | 14563384.15        | 40°05'59.334"N | 80°33'37.742"W | 28.82             | 233.375         | 1.78          | 1.44                 | 11.41               |  |
| 1454.00  | 7.640           | 238.790     | 1452.32  | 8.10           | -23.19     | -32.38    | 1763315.10        | 14563378.16        | 40°05'59.276"N | 80°33'37.862"W | 39.83             | 234.391         | 1.85          | 1.78                 | 4.26                |  |
| 1546.00  | 9.110           | 238.780     | 1543.34  | 9.81           | -30.13     | -43.84    | 1763303.65        | 14563371.22        | 40°05'59.208"N | 80°33'38.010"W | 53.20             | 235.497         | 1.60          | 1.60                 | -0.01               |  |
| 1639.00  | 9.040           | 235.050     | 1635.18  | 12.15          | -38.13     | -56.12    | 1763291.37        | 14563363.22        | 40°05'59.129"N | 80°33'38.168"W | 67.85             | 235.805         | 0.64          | -0.08                | -4.01               |  |
| 1732.00  | 8.540           | 233.620     | 1727.09  | 15.05          | -46.42     | -67.67    | 1763279.82        | 14563354.94        | 40°05'59.048"N | 80°33'38.317"W | 82.06             | 235.554         | 0.59          | -0.54                | -1.54               |  |
| 1825.00  | 8.210           | 232.010     | 1819.09  | 18.16          | -54.60     | -78.46    | 1763269.04        | 14563346.76        | 40°05'58.967"N | 80°33'38.457"W | 95.59             | 235.168         | 0.44          | -0.35                | -1.73               |  |
| 1918.00  | 9.010           | 233.980     | 1911.05  | 21.31          | -62.97     | -89.59    | 1763257.92        | 14563338.40        | 40°05'58.885"N | 80°33'38.600"W | 109.50            | 234.898         | 0.92          | 0.86                 | 2.12                |  |
| 2010.00  | 8.120           | 229.140     | 2002.02  | 24.72          | -71.46     | -100.33   | 1763247.18        | 14563329.91        | 40°05'58.802"N | 80°33'38.739"W | 123.17            | 234.541         | 1.24          | -0.97                | -5.26               |  |
| 2063.00  | 7.130           | 224.330     | 2054.55  | 27.04          | -76.26     | -105.46   | 1763242.05        | 14563325.11        | 40°05'58.755"N | 80°33'38.805"W | 130.14            | 234.129         | 2.22          | -1.87                | -9.08               |  |
| 2189.00  | 6.730           | 217.300     | 2179.63  | 33.50          | -87.72     | -115.40   | 1763232.12        | 14563313.65        | 40°05'58.642"N | 80°33'38.934"W | 144.95            | 232.758         | 0.74          | -0.32                | -5.58               |  |
| 2281.00  | 7.540           | 224.020     | 2270.92  | 38.37          | -96.35     | -122.86   | 1763224.66        | 14563305.02        | 40°05'58.557"N | 80°33'39.031"W | 156.13            | 231.894         | 1.26          | 0.88                 | 7.30                |  |
| 2374.00  | 10.280          | 229.800     | 2362.79  | 43.00          | -106.10    | -133.44   | 1763214.08        | 14563295.28        | 40°05'58.461"N | 80°33'39.167"W | 170.48            | 231.511         | 3.10          | 2.95                 | 6.22                |  |
| 2467.00  | 9.830           | 227.500     | 2454.36  | 47.86          | -116.82    | -145.63   | 1763201.90        | 14563284.57        | 40°05'58.356"N | 80°33'39.325"W | 186.69            | 231.265         | 0.65          | -0.48                | -2.47               |  |
| 2560.00  | 9.080           | 238.940     | 2546.11  | 51.32          | -125.97    | -157.77   | 1763189.76        | 14563275.42        | 40°05'58.266"N | 80°33'39.482"W | 201.89            | 231.395         | 2.17          | -0.81                | 12.30               |  |

# Actual Wellpath Report

Alice Edge OHI 6H AWP Proj: 18595'

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| REFERENCE WELLPATH IDENTIFICATION |                      |          |                       |
|-----------------------------------|----------------------|----------|-----------------------|
| Operator                          | SOUTHWESTERN ENERGY  | Slot     | Slot #06              |
| Area                              | Ohio County, WV      | Well     | Alice Edge OHI 6H     |
| Field                             | Ohio                 | Wellbore | Alice Edge OHI 6H AWB |
| Facility                          | Alice Edge OHI Pad A |          |                       |

| WELLPATH DATA (215 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] |
| 2652.00                      | 8.920           | 244.220     | 2636.98  | 52.46          | -132.82    | -170.41   | 1763177.12        | 14563268.57        | 40°05'58.199"N | 80°33'39.645"W | 216.06            | 232.068         | 0.91          | -0.17                | 5.74                |
| 2745.00                      | 8.530           | 239.670     | 2728.90  | 53.47          | -139.44    | -182.86   | 1763164.68        | 14563261.96        | 40°05'58.134"N | 80°33'39.805"W | 229.95            | 232.673         | 0.85          | -0.42                | -4.89               |
| 2838.00                      | 7.540           | 238.360     | 2820.99  | 55.07          | -146.12    | -194.01   | 1763153.54        | 14563255.28        | 40°05'58.069"N | 80°33'39.949"W | 242.88            | 233.014         | 1.08          | -1.06                | -1.41               |
| 2931.00                      | 8.270           | 237.520     | 2913.10  | 56.90          | -152.91    | -204.84   | 1763142.71        | 14563248.49        | 40°05'58.002"N | 80°33'40.089"W | 255.62            | 233.259         | 0.79          | 0.78                 | -0.90               |
| 3023.00                      | 8.010           | 234.750     | 3004.18  | 59.15          | -160.16    | -215.66   | 1763131.89        | 14563241.24        | 40°05'57.931"N | 80°33'40.229"W | 268.63            | 233.400         | 0.51          | -0.28                | -3.01               |
| 3116.00                      | 7.680           | 231.460     | 3096.31  | 62.00          | -167.78    | -225.81   | 1763121.75        | 14563233.63        | 40°05'57.856"N | 80°33'40.360"W | 281.32            | 233.388         | 0.60          | -0.35                | -3.54               |
| 3209.00                      | 8.110           | 242.720     | 3188.43  | 63.96          | -174.66    | -236.50   | 1763111.06        | 14563226.75        | 40°05'57.789"N | 80°33'40.498"W | 294.00            | 233.554         | 1.72          | 0.46                 | 12.11               |
| 3302.00                      | 7.260           | 241.190     | 3280.59  | 64.86          | -180.49    | -247.48   | 1763100.08        | 14563220.92        | 40°05'57.732"N | 80°33'40.640"W | 306.31            | 233.896         | 0.94          | -0.91                | -1.65               |
| 3395.00                      | 8.760           | 242.410     | 3372.68  | 65.82          | -186.61    | -258.91   | 1763088.66        | 14563214.81        | 40°05'57.672"N | 80°33'40.787"W | 319.15            | 234.218         | 1.62          | 1.61                 | 1.31                |
| 3487.00                      | 9.010           | 240.790     | 3463.58  | 66.94          | -193.37    | -271.41   | 1763076.17        | 14563208.05        | 40°05'57.606"N | 80°33'40.948"W | 333.24            | 234.532         | 0.38          | 0.27                 | -1.76               |
| 3580.00                      | 8.260           | 235.950     | 3555.53  | 68.80          | -200.66    | -283.30   | 1763064.28        | 14563200.76        | 40°05'57.534"N | 80°33'41.102"W | 347.16            | 234.690         | 1.12          | -0.81                | -5.20               |
| 3673.00                      | 8.810           | 236.170     | 3647.50  | 71.21          | -208.37    | -294.75   | 1763052.83        | 14563193.05        | 40°05'57.458"N | 80°33'41.250"W | 360.96            | 234.742         | 0.59          | 0.59                 | 0.24                |
| 3766.00                      | 8.220           | 232.240     | 3739.47  | 74.03          | -216.40    | -305.92   | 1763041.67        | 14563185.02        | 40°05'57.380"N | 80°33'41.394"W | 374.72            | 234.725         | 0.89          | -0.63                | -4.23               |
| 3859.00                      | 8.080           | 233.540     | 3831.53  | 77.05          | -224.36    | -316.43   | 1763031.16        | 14563177.07        | 40°05'57.301"N | 80°33'41.530"W | 387.90            | 234.663         | 0.25          | -0.15                | 1.40                |
| 3951.00                      | 8.330           | 235.260     | 3922.59  | 79.72          | -232.00    | -327.11   | 1763020.49        | 14563169.43        | 40°05'57.227"N | 80°33'41.668"W | 401.03            | 234.654         | 0.38          | 0.27                 | 1.87                |
| 4044.00                      | 9.080           | 232.800     | 4014.52  | 82.68          | -240.27    | -338.49   | 1763009.11        | 14563161.16        | 40°05'57.145"N | 80°33'41.815"W | 415.10            | 234.631         | 0.90          | 0.81                 | -2.65               |
| 4137.00                      | 8.870           | 228.720     | 4106.38  | 86.51          | -249.44    | -349.72   | 1762997.88        | 14563152.00        | 40°05'57.055"N | 80°33'41.960"W | 429.57            | 234.502         | 0.72          | -0.23                | -4.39               |
| 4230.00                      | 7.970           | 220.210     | 4198.38  | 91.47          | -259.10    | -359.28   | 1762988.33        | 14563142.34        | 40°05'56.960"N | 80°33'42.083"W | 442.96            | 234.202         | 1.65          | -0.97                | -9.15               |
| 4322.00                      | 7.790           | 226.730     | 4289.51  | 96.33          | -268.24    | -367.93   | 1762979.68        | 14563133.20        | 40°05'56.870"N | 80°33'42.195"W | 455.33            | 233.906         | 0.99          | -0.20                | 7.09                |
| 4415.00                      | 8.560           | 229.110     | 4381.57  | 100.45         | -277.09    | -377.76   | 1762969.86        | 14563124.36        | 40°05'56.783"N | 80°33'42.322"W | 468.49            | 233.739         | 0.90          | 0.83                 | 2.56                |
| 4508.00                      | 8.820           | 230.960     | 4473.50  | 104.34         | -286.11    | -388.53   | 1762959.09        | 14563115.34        | 40°05'56.695"N | 80°33'42.461"W | 482.51            | 233.632         | 0.41          | 0.28                 | 1.99                |
| 4600.00                      | 9.820           | 236.560     | 4564.29  | 107.48         | -294.88    | -400.55   | 1762947.07        | 14563106.57        | 40°05'56.609"N | 80°33'42.617"W | 497.39            | 233.640         | 1.47          | 1.09                 | 6.09                |
| 4693.00                      | 9.410           | 225.280     | 4655.99  | 111.51         | -304.60    | -412.57   | 1762935.06        | 14563096.86        | 40°05'56.513"N | 80°33'42.772"W | 512.83            | 233.562         | 2.07          | -0.44                | -12.13              |
| 4786.00                      | 9.020           | 227.000     | 4747.79  | 116.60         | -314.92    | -423.31   | 1762924.33        | 14563086.54        | 40°05'56.412"N | 80°33'42.911"W | 527.60            | 233.352         | 0.51          | -0.42                | 1.85                |
| 4878.00                      | 9.910           | 238.480     | 4838.54  | 120.01         | -323.98    | -435.33   | 1762912.31        | 14563077.49        | 40°05'56.323"N | 80°33'43.066"W | 542.66            | 233.343         | 2.26          | 0.97                 | 12.48               |
| 4971.00                      | 10.350          | 234.050     | 4930.10  | 122.82         | -333.07    | -448.92   | 1762898.73        | 14563068.40        | 40°05'56.234"N | 80°33'43.241"W | 558.98            | 233.427         | 0.96          | 0.47                 | -4.76               |
| 5064.00                      | 9.550           | 236.340     | 5021.70  | 125.88         | -342.25    | -462.10   | 1762885.55        | 14563059.22        | 40°05'56.144"N | 80°33'43.412"W | 575.04            | 233.475         | 0.96          | -0.86                | 2.46                |
| 5156.00                      | 9.270           | 235.610     | 5112.46  | 128.53         | -350.66    | -474.57   | 1762873.09        | 14563050.81        | 40°05'56.061"N | 80°33'43.573"W | 590.07            | 233.539         | 0.33          | -0.30                | -0.79               |
| 5249.00                      | 9.420           | 230.450     | 5204.23  | 131.95         | -359.74    | -486.62   | 1762861.04        | 14563041.74        | 40°05'55.972"N | 80°33'43.728"W | 605.15            | 233.526         | 0.91          | 0.16                 | -5.55               |
| 5342.00                      | 8.050           | 233.810     | 5296.14  | 135.40         | -368.43    | -497.74   | 1762849.92        | 14563033.05        | 40°05'55.887"N | 80°33'43.872"W | 619.27            | 233.491         | 1.57          | -1.47                | 3.61                |



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# Actual Wellpath Report

Alice Edge OHI 6H AWP Proj: 18595'

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| REFERENCE WELLPATH IDENTIFICATION |                      |          |                       |
|-----------------------------------|----------------------|----------|-----------------------|
| Operator                          | SOUTHWESTERN ENERGY  | Slot     | Slot #06              |
| Area                              | Ohio County, WV      | Well     | Alice Edge OHI 6H     |
| Field                             | Ohio                 | Wellbore | Alice Edge OHI 6H AWB |
| Facility                          | Alice Edge OHI Pad A |          |                       |

## WELLPATH DATA (215 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] |
|---------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|----------------|----------------|-------------------|-----------------|---------------|----------------------|---------------------|
| 5434.00 | 6.930           | 237.860     | 5387.36  | 137.57         | -375.19    | -507.64   | 1762840.03        | 14563026.29        | 40°05'55.820"N | 80°33'44.000"W | 631.24            | 233.532         | 1.35          | -1.22                | 4.40                |
| 5527.00 | 8.660           | 231.980     | 5479.50  | 140.08         | -382.49    | -517.91   | 1762829.76        | 14563019.00        | 40°05'55.749"N | 80°33'44.132"W | 643.84            | 233.553         | 2.05          | 1.86                 | -6.32               |
| 5620.00 | 9.480           | 229.360     | 5571.33  | 144.00         | -391.79    | -529.24   | 1762818.44        | 14563009.70        | 40°05'55.657"N | 80°33'44.279"W | 658.47            | 233.488         | 0.99          | 0.88                 | -2.82               |
| 5712.00 | 11.140          | 229.470     | 5661.85  | 148.73         | -402.50    | -541.74   | 1762805.94        | 14562999.00        | 40°05'55.552"N | 80°33'44.440"W | 674.90            | 233.389         | 1.80          | 1.80                 | 0.12                |
| 5748.00 | 11.900          | 225.490     | 5697.12  | 151.04         | -407.36    | -547.03   | 1762800.65        | 14562994.14        | 40°05'55.504"N | 80°33'44.509"W | 682.05            | 233.326         | 3.05          | 2.11                 | -11.06              |
| 5822.00 | 13.040          | 219.550     | 5769.38  | 157.46         | -419.15    | -557.79   | 1762789.90        | 14562982.35        | 40°05'55.388"N | 80°33'44.648"W | 697.72            | 233.077         | 2.32          | 1.54                 | -8.03               |
| 5868.00 | 14.650          | 208.250     | 5814.05  | 163.36         | -428.28    | -563.85   | 1762783.84        | 14562973.23        | 40°05'55.298"N | 80°33'44.726"W | 708.06            | 232.781         | 6.83          | 3.50                 | -24.57              |
| 5915.00 | 15.940          | 197.240     | 5859.39  | 171.87         | -439.68    | -568.57   | 1762779.11        | 14562961.83        | 40°05'55.186"N | 80°33'44.788"W | 718.74            | 232.285         | 6.75          | 2.74                 | -23.43              |
| 5961.00 | 16.380          | 188.740     | 5903.58  | 182.09         | -452.12    | -571.43   | 1762776.26        | 14562949.39        | 40°05'55.063"N | 80°33'44.826"W | 728.66            | 231.649         | 5.23          | 0.96                 | -18.48              |
| 6007.00 | 17.340          | 180.940     | 5947.61  | 193.78         | -465.39    | -572.53   | 1762775.16        | 14562936.13        | 40°05'54.932"N | 80°33'44.840"W | 737.82            | 230.894         | 5.34          | 2.09                 | -16.96              |
| 6054.00 | 19.000          | 178.030     | 5992.26  | 207.23         | -480.04    | -572.38   | 1762775.31        | 14562921.48        | 40°05'54.787"N | 80°33'44.839"W | 747.03            | 230.014         | 4.02          | 3.53                 | -6.19               |
| 6100.00 | 22.370          | 176.550     | 6035.29  | 222.39         | -496.27    | -571.60   | 1762776.09        | 14562905.26        | 40°05'54.627"N | 80°33'44.830"W | 756.97            | 229.035         | 7.41          | 7.33                 | -3.22               |
| 6146.00 | 26.150          | 172.260     | 6077.23  | 240.34         | -515.06    | -569.71   | 1762777.98        | 14562886.48        | 40°05'54.441"N | 80°33'44.807"W | 768.02            | 227.884         | 9.06          | 8.22                 | -9.33               |
| 6193.00 | 30.350          | 166.250     | 6118.63  | 261.99         | -536.87    | -565.49   | 1762782.20        | 14562864.68        | 40°05'54.225"N | 80°33'44.754"W | 779.74            | 226.487         | 10.78         | 8.94                 | -12.79              |
| 6239.00 | 34.950          | 163.030     | 6157.35  | 286.52         | -560.77    | -558.87   | 1762788.81        | 14562840.78        | 40°05'53.989"N | 80°33'44.671"W | 791.71            | 224.903         | 10.69         | 10.00                | -7.00               |
| 6285.00 | 39.750          | 162.300     | 6193.91  | 314.24         | -587.40    | -550.55   | 1762797.13        | 14562814.16        | 40°05'53.725"N | 80°33'44.565"W | 805.08            | 223.145         | 10.48         | 10.43                | -1.59               |
| 6332.00 | 44.030          | 162.780     | 6228.89  | 345.42         | -617.33    | -541.14   | 1762806.54        | 14562784.25        | 40°05'53.429"N | 80°33'44.446"W | 820.94            | 221.237         | 9.13          | 9.11                 | 1.02                |
| 6378.00 | 46.960          | 163.270     | 6261.13  | 377.98         | -648.71    | -531.57   | 1762816.10        | 14562752.88        | 40°05'53.119"N | 80°33'44.325"W | 838.68            | 219.332         | 6.41          | 6.37                 | 1.07                |
| 6425.00 | 51.860          | 161.540     | 6291.70  | 413.45         | -682.71    | -520.77   | 1762826.90        | 14562718.89        | 40°05'52.782"N | 80°33'44.188"W | 858.66            | 217.336         | 10.79         | 10.43                | -3.68               |
| 6471.00 | 57.160          | 159.530     | 6318.40  | 450.78         | -718.00    | -508.27   | 1762839.40        | 14562683.62        | 40°05'52.433"N | 80°33'44.030"W | 879.69            | 215.295         | 12.06         | 11.52                | -4.37               |
| 6517.00 | 62.250          | 157.840     | 6341.60  | 490.44         | -754.98    | -493.82   | 1762853.84        | 14562646.65        | 40°05'52.066"N | 80°33'43.846"W | 902.14            | 213.188         | 11.51         | 11.07                | -3.67               |
| 6564.00 | 67.350          | 156.470     | 6361.60  | 532.95         | -794.15    | -477.31   | 1762870.34        | 14562607.49        | 40°05'51.679"N | 80°33'43.636"W | 926.56            | 211.007         | 11.17         | 10.85                | -2.91               |
| 6610.00 | 71.860          | 156.270     | 6377.63  | 576.05         | -833.65    | -460.03   | 1762887.62        | 14562568.02        | 40°05'51.287"N | 80°33'43.416"W | 952.15            | 208.891         | 9.81          | 9.80                 | -0.43               |
| 6656.00 | 75.380          | 156.640     | 6390.60  | 620.18         | -874.10    | -442.41   | 1762905.24        | 14562527.58        | 40°05'50.887"N | 80°33'43.192"W | 979.68            | 206.845         | 7.69          | 7.65                 | 0.80                |
| 6703.00 | 78.410          | 157.200     | 6401.26  | 665.94         | -916.21    | -424.46   | 1762923.17        | 14562485.49        | 40°05'50.470"N | 80°33'42.964"W | 1009.75           | 204.858         | 6.55          | 6.45                 | 1.19                |
| 6749.00 | 82.000          | 157.180     | 6409.08  | 711.26         | -957.98    | -406.89   | 1762940.73        | 14562443.73        | 40°05'50.056"N | 80°33'42.740"W | 1040.81           | 203.013         | 7.80          | 7.80                 | -0.04               |
| 6795.00 | 86.400          | 156.910     | 6413.73  | 757.00         | -1000.11   | -389.05   | 1762958.57        | 14562401.61        | 40°05'49.639"N | 80°33'42.513"W | 1073.12           | 201.256         | 9.58          | 9.57                 | -0.59               |
| 6888.00 | 89.350          | 157.400     | 6417.18  | 849.91         | -1085.75   | -352.97   | 1762994.63        | 14562316.01        | 40°05'48.791"N | 80°33'42.055"W | 1141.68           | 198.009         | 3.22          | 3.17                 | 0.53                |
| 6981.00 | 89.350          | 157.940     | 6418.23  | 942.87         | -1171.77   | -317.64   | 1763029.95        | 14562230.02        | 40°05'47.939"N | 80°33'41.605"W | 1214.06           | 195.167         | 0.58          | 0.00                 | 0.58                |
| 7074.00 | 88.490          | 156.510     | 6419.98  | 1035.84        | -1257.50   | -281.65   | 1763065.93        | 14562144.32        | 40°05'47.090"N | 80°33'41.148"W | 1288.65           | 192.624         | 1.79          | -0.92                | -1.54               |



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# Actual Wellpath Report

Alice Edge OHI 6H AWP Proj: 18595'

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| REFERENCE WELLPATH IDENTIFICATION |                      |          |                       |
|-----------------------------------|----------------------|----------|-----------------------|
| Operator                          | SOUTHWESTERN ENERGY  | Slot     | Slot #06              |
| Area                              | Ohio County, WV      | Well     | Alice Edge OHI 6H     |
| Field                             | Ohio                 | Wellbore | Alice Edge OHI 6H AWB |
| Facility                          | Alice Edge OHI Pad A |          |                       |

| WELLPATH DATA (215 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] |
| 7167.00                      | 88.580          | 155.150     | 6422.36  | 1128.80        | -1342.32   | -243.58   | 1763103.98        | 14562059.54        | 40°05'46.250"N | 80°33'40.663"W | 1364.24           | 190.285         | 1.47          | 0.10                 | -1.46               |
| 7259.00                      | 88.740          | 153.760     | 6424.51  | 1220.74        | -1425.30   | -203.92   | 1763143.63        | 14561976.59        | 40°05'45.428"N | 80°33'40.158"W | 1439.81           | 188.142         | 1.52          | 0.17                 | -1.51               |
| 7352.00                      | 88.950          | 154.660     | 6426.39  | 1313.66        | -1509.02   | -163.47   | 1763184.07        | 14561892.90        | 40°05'44.599"N | 80°33'39.643"W | 1517.85           | 186.183         | 0.99          | 0.23                 | 0.97                |
| 7445.00                      | 89.110          | 154.640     | 6427.96  | 1406.62        | -1593.05   | -123.66   | 1763223.86        | 14561808.90        | 40°05'43.767"N | 80°33'39.136"W | 1597.84           | 184.438         | 0.17          | 0.17                 | -0.02               |
| 7538.00                      | 89.940          | 157.310     | 6428.73  | 1499.61        | -1677.98   | -85.80    | 1763261.71        | 14561724.00        | 40°05'42.925"N | 80°33'38.654"W | 1680.18           | 182.927         | 3.01          | 0.89                 | 2.87                |
| 7631.00                      | 87.780          | 155.140     | 6430.58  | 1592.58        | -1763.06   | -48.32    | 1763299.17        | 14561638.95        | 40°05'42.083"N | 80°33'38.177"W | 1763.73           | 181.570         | 3.29          | -2.32                | -2.33               |
| 7723.00                      | 88.030          | 154.400     | 6433.95  | 1684.49        | -1846.23   | -9.13     | 1763338.35        | 14561555.82        | 40°05'41.259"N | 80°33'37.678"W | 1846.25           | 180.283         | 0.85          | 0.27                 | -0.80               |
| 7816.00                      | 87.720          | 154.510     | 6437.40  | 1777.39        | -1930.08   | 30.95     | 1763378.41        | 14561472.00        | 40°05'40.429"N | 80°33'37.168"W | 1930.33           | 179.081         | 0.35          | -0.33                | 0.12                |
| 7909.00                      | 87.940          | 154.340     | 6440.92  | 1870.28        | -2013.91   | 71.07     | 1763418.51        | 14561388.20        | 40°05'39.598"N | 80°33'36.657"W | 2015.16           | 177.979         | 0.30          | 0.24                 | -0.18               |
| 8002.00                      | 87.940          | 154.490     | 6444.26  | 1963.18        | -2097.74   | 111.20    | 1763458.63        | 14561304.41        | 40°05'38.768"N | 80°33'36.146"W | 2100.68           | 176.966         | 0.16          | 0.00                 | 0.16                |
| 8095.00                      | 89.200          | 157.570     | 6446.58  | 2056.14        | -2182.68   | 148.97    | 1763496.38        | 14561219.50        | 40°05'37.927"N | 80°33'35.666"W | 2187.76           | 176.096         | 3.58          | 1.35                 | 3.31                |
| 8188.00                      | 89.200          | 156.870     | 6447.88  | 2149.11        | -2268.42   | 184.97    | 1763532.37        | 14561133.80        | 40°05'37.078"N | 80°33'35.208"W | 2275.94           | 175.338         | 0.75          | 0.00                 | -0.75               |
| 8280.00                      | 89.140          | 156.150     | 6449.21  | 2241.10        | -2352.78   | 221.64    | 1763569.02        | 14561049.46        | 40°05'36.242"N | 80°33'34.741"W | 2363.20           | 174.618         | 0.79          | -0.07                | -0.78               |
| 8373.00                      | 89.170          | 156.300     | 6450.58  | 2334.09        | -2437.88   | 259.13    | 1763606.50        | 14560964.40        | 40°05'35.399"N | 80°33'34.264"W | 2451.61           | 173.933         | 0.16          | 0.03                 | 0.16                |
| 8466.00                      | 89.080          | 155.560     | 6452.00  | 2427.07        | -2522.78   | 297.05    | 1763644.41        | 14560879.53        | 40°05'34.558"N | 80°33'33.782"W | 2540.21           | 173.284         | 0.80          | -0.10                | -0.80               |
| 8559.00                      | 89.820          | 157.040     | 6452.90  | 2520.07        | -2607.93   | 334.43    | 1763681.77        | 14560794.41        | 40°05'33.715"N | 80°33'33.306"W | 2629.29           | 172.693         | 1.78          | 0.80                 | 1.59                |
| 8652.00                      | 89.820          | 160.400     | 6453.19  | 2612.96        | -2694.58   | 368.18    | 1763715.51        | 14560707.80        | 40°05'32.857"N | 80°33'32.878"W | 2719.62           | 172.219         | 3.61          | 0.00                 | 3.61                |
| 8745.00                      | 89.630          | 159.270     | 6453.64  | 2705.76        | -2781.88   | 400.24    | 1763747.55        | 14560620.53        | 40°05'31.993"N | 80°33'32.471"W | 2810.52           | 171.813         | 1.23          | -0.20                | -1.22               |
| 8837.00                      | 89.690          | 157.510     | 6454.18  | 2797.68        | -2867.40   | 434.12    | 1763781.42        | 14560535.04        | 40°05'31.146"N | 80°33'32.040"W | 2900.08           | 171.391         | 1.91          | 0.07                 | -1.91               |
| 8931.00                      | 89.780          | 153.790     | 6454.62  | 2891.66        | -2953.03   | 472.87    | 1763820.15        | 14560449.45        | 40°05'30.298"N | 80°33'31.547"W | 2990.65           | 170.902         | 3.96          | 0.10                 | -3.96               |
| 9023.00                      | 89.660          | 153.730     | 6455.07  | 2983.58        | -3035.55   | 513.54    | 1763860.81        | 14560366.96        | 40°05'29.481"N | 80°33'31.029"W | 3078.68           | 170.398         | 0.15          | -0.13                | -0.07               |
| 9116.00                      | 89.720          | 154.960     | 6455.57  | 3076.53        | -3119.37   | 553.80    | 1763901.06        | 14560283.17        | 40°05'28.650"N | 80°33'30.516"W | 3168.15           | 169.933         | 1.32          | 0.06                 | 1.32                |
| 9208.00                      | 89.690          | 157.290     | 6456.04  | 3168.53        | -3203.49   | 591.04    | 1763938.28        | 14560199.08        | 40°05'27.817"N | 80°33'30.043"W | 3257.56           | 169.547         | 2.53          | -0.03                | 2.53                |
| 9301.00                      | 89.660          | 158.390     | 6456.57  | 3261.48        | -3289.62   | 626.12    | 1763973.35        | 14560112.98        | 40°05'26.964"N | 80°33'29.597"W | 3348.68           | 169.224         | 1.18          | -0.03                | 1.18                |
| 9394.00                      | 89.570          | 155.540     | 6457.20  | 3354.46        | -3375.20   | 662.50    | 1764009.72        | 14560027.44        | 40°05'26.117"N | 80°33'29.134"W | 3439.60           | 168.895         | 3.07          | -0.10                | -3.06               |
| 9487.00                      | 89.970          | 155.710     | 6457.57  | 3447.46        | -3459.91   | 700.88    | 1764048.08        | 14559942.76        | 40°05'25.278"N | 80°33'28.646"W | 3530.18           | 168.548         | 0.47          | 0.43                 | 0.18                |
| 9580.00                      | 89.690          | 154.840     | 6457.84  | 3540.44        | -3544.38   | 739.78    | 1764086.97        | 14559858.32        | 40°05'24.441"N | 80°33'28.151"W | 3620.76           | 168.211         | 0.98          | -0.30                | -0.94               |
| 9672.00                      | 89.690          | 154.150     | 6458.34  | 3632.40        | -3627.41   | 779.39    | 1764126.56        | 14559775.32        | 40°05'23.619"N | 80°33'27.646"W | 3710.20           | 167.874         | 0.75          | 0.00                 | -0.75               |
| 9765.00                      | 89.420          | 153.780     | 6459.06  | 3725.34        | -3710.97   | 820.21    | 1764167.37        | 14559691.80        | 40°05'22.791"N | 80°33'27.126"W | 3800.53           | 167.537         | 0.49          | -0.29                | -0.40               |
| 9858.00                      | 89.420          | 153.670     | 6460.01  | 3818.25        | -3794.36   | 861.38    | 1764208.52        | 14559608.44        | 40°05'21.965"N | 80°33'26.602"W | 3890.90           | 167.210         | 0.12          | 0.00                 | -0.12               |



Received **Actual Wellpath Report**  
Office of Oil & Gas Alice Edge OHI 6H AWP Proj: 18595'

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| REFERENCE WELLPATH IDENTIFICATION |                      |          |                       |
|-----------------------------------|----------------------|----------|-----------------------|
| Operator                          | SOUTHWESTERN ENERGY  | Slot     | Slot #06              |
| Area                              | Ohio County, WV      | Well     | Alice Edge OHI 6H     |
| Field                             | Ohio                 | Wellbore | Alice Edge OHI 6H AWB |
| Facility                          | Alice Edge OHI Pad A |          |                       |

**WELLPATH DATA (215 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] |
|----------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|----------------|----------------|-------------------|-----------------|---------------|----------------------|---------------------|
| 9951.00  | 89.380          | 156.680     | 6460.98  | 3911.22        | -3878.75   | 900.42    | 1764247.54        | 14559524.08        | 40°05'21.129"N | 80°33'26.105"W | 3981.89           | 166.931         | 3.24          | -0.04                | 3.24                |
| 10044.00 | 89.380          | 157.930     | 6461.99  | 4004.19        | -3964.54   | 936.30    | 1764283.41        | 14559438.32        | 40°05'20.280"N | 80°33'25.649"W | 4073.60           | 166.712         | 1.34          | 0.00                 | 1.34                |
| 10136.00 | 89.480          | 159.490     | 6462.90  | 4096.09        | -4050.26   | 969.70    | 1764316.80        | 14559352.64        | 40°05'19.431"N | 80°33'25.225"W | 4164.72           | 166.536         | 1.70          | 0.11                 | 1.70                |
| 10229.00 | 89.450          | 157.620     | 6463.77  | 4189.00        | -4136.81   | 1003.70   | 1764350.78        | 14559266.12        | 40°05'18.574"N | 80°33'24.793"W | 4256.83           | 166.362         | 2.01          | -0.03                | -2.01               |
| 10322.00 | 89.480          | 154.250     | 6464.64  | 4281.98        | -4221.71   | 1041.61   | 1764388.68        | 14559181.25        | 40°05'17.733"N | 80°33'24.310"W | 4348.31           | 166.140         | 3.62          | 0.03                 | -3.62               |
| 10415.00 | 89.380          | 155.620     | 6465.56  | 4374.96        | -4305.95   | 1081.01   | 1764428.06        | 14559097.05        | 40°05'16.899"N | 80°33'23.809"W | 4439.57           | 165.907         | 1.48          | -0.11                | 1.47                |
| 10508.00 | 89.420          | 156.940     | 6466.54  | 4467.95        | -4391.09   | 1118.42   | 1764465.46        | 14559011.94        | 40°05'16.055"N | 80°33'23.333"W | 4531.28           | 165.710         | 1.42          | 0.04                 | 1.42                |
| 10600.00 | 89.510          | 157.070     | 6467.40  | 4559.93        | -4475.77   | 1154.36   | 1764501.38        | 14558927.29        | 40°05'15.217"N | 80°33'22.876"W | 4622.24           | 165.538         | 0.17          | 0.10                 | 0.14                |
| 10693.00 | 89.450          | 160.570     | 6468.24  | 4652.81        | -4562.47   | 1187.95   | 1764534.96        | 14558840.62        | 40°05'14.358"N | 80°33'22.450"W | 4714.59           | 165.406         | 3.76          | -0.06                | 3.76                |
| 10786.00 | 89.480          | 158.910     | 6469.11  | 4745.62        | -4649.71   | 1220.15   | 1764567.15        | 14558753.42        | 40°05'13.495"N | 80°33'22.041"W | 4807.14           | 165.296         | 1.79          | 0.03                 | -1.78               |
| 10880.00 | 89.380          | 152.380     | 6470.05  | 4839.56        | -4735.30   | 1258.89   | 1764605.88        | 14558667.87        | 40°05'12.647"N | 80°33'21.548"W | 4899.78           | 165.112         | 6.95          | -0.11                | -6.95               |
| 10972.00 | 89.260          | 150.760     | 6471.14  | 4931.26        | -4816.19   | 1302.69   | 1764649.66        | 14558587.00        | 40°05'11.845"N | 80°33'20.990"W | 4989.26           | 164.865         | 1.77          | -0.13                | -1.76               |
| 11064.00 | 89.170          | 149.920     | 6472.40  | 5022.78        | -4896.13   | 1348.21   | 1764695.16        | 14558507.09        | 40°05'11.053"N | 80°33'20.409"W | 5078.36           | 164.604         | 0.92          | -0.10                | -0.91               |
| 11157.00 | 89.080          | 155.470     | 6473.82  | 5115.57        | -4978.73   | 1390.85   | 1764737.79        | 14558424.53        | 40°05'10.235"N | 80°33'19.866"W | 5169.35           | 164.392         | 5.97          | -0.10                | 5.97                |
| 11250.00 | 89.080          | 158.160     | 6475.31  | 5208.54        | -5064.20   | 1427.46   | 1764774.38        | 14558339.09        | 40°05'09.388"N | 80°33'19.400"W | 5261.53           | 164.258         | 2.89          | 0.00                 | 2.89                |
| 11343.00 | 89.110          | 157.950     | 6476.78  | 5301.48        | -5150.45   | 1462.21   | 1764809.12        | 14558252.88        | 40°05'08.534"N | 80°33'18.959"W | 5353.98           | 164.151         | 0.23          | 0.03                 | -0.23               |
| 11435.00 | 88.460          | 156.840     | 6478.73  | 5393.43        | -5235.36   | 1497.56   | 1764844.46        | 14558168.00        | 40°05'07.694"N | 80°33'18.509"W | 5445.33           | 164.037         | 1.40          | -0.71                | -1.21               |
| 11528.00 | 89.050          | 156.470     | 6480.75  | 5486.41        | -5320.72   | 1534.41   | 1764881.29        | 14558082.66        | 40°05'06.848"N | 80°33'18.041"W | 5537.55           | 163.913         | 0.75          | 0.63                 | -0.40               |
| 11621.00 | 89.140          | 158.130     | 6482.22  | 5579.37        | -5406.51   | 1570.29   | 1764917.16        | 14557996.91        | 40°05'05.999"N | 80°33'17.585"W | 5629.93           | 163.804         | 1.79          | 0.10                 | 1.78                |
| 11714.00 | 89.140          | 158.720     | 6483.62  | 5672.29        | -5492.98   | 1604.48   | 1764951.34        | 14557910.47        | 40°05'05.142"N | 80°33'17.150"W | 5722.52           | 163.717         | 0.63          | 0.00                 | 0.63                |
| 11807.00 | 89.140          | 158.230     | 6485.01  | 5765.20        | -5579.48   | 1638.60   | 1764985.44        | 14557824.00        | 40°05'04.286"N | 80°33'16.717"W | 5815.12           | 163.633         | 0.53          | 0.00                 | -0.53               |
| 11899.00 | 89.050          | 159.200     | 6486.47  | 5857.09        | -5665.20   | 1671.99   | 1765018.82        | 14557738.32        | 40°05'03.437"N | 80°33'16.293"W | 5906.78           | 163.557         | 1.06          | -0.10                | 1.05                |
| 11992.00 | 89.080          | 158.440     | 6487.98  | 5949.97        | -5751.90   | 1705.59   | 1765052.40        | 14557651.65        | 40°05'02.579"N | 80°33'15.866"W | 5999.45           | 163.484         | 0.82          | 0.03                 | -0.82               |
| 12085.00 | 89.080          | 155.590     | 6489.48  | 6042.94        | -5837.50   | 1741.90   | 1765088.70        | 14557566.09        | 40°05'01.731"N | 80°33'15.405"W | 6091.85           | 163.385         | 3.06          | 0.00                 | -3.06               |
| 12178.00 | 89.050          | 151.960     | 6491.00  | 6135.83        | -5920.90   | 1782.98   | 1765129.77        | 14557482.72        | 40°05'00.905"N | 80°33'14.882"W | 6183.53           | 163.241         | 3.90          | -0.03                | -3.90               |
| 12270.00 | 89.290          | 152.630     | 6492.33  | 6227.62        | -6002.34   | 1825.75   | 1765172.52        | 14557401.31        | 40°05'00.098"N | 80°33'14.337"W | 6273.87           | 163.082         | 0.77          | 0.26                 | 0.73                |
| 12363.00 | 89.080          | 152.050     | 6493.65  | 6320.41        | -6084.71   | 1868.92   | 1765215.67        | 14557318.97        | 40°04'59.282"N | 80°33'13.787"W | 6365.26           | 162.926         | 0.66          | -0.23                | -0.62               |
| 12456.00 | 89.050          | 155.600     | 6495.17  | 6413.31        | -6168.15   | 1909.93   | 1765256.66        | 14557235.57        | 40°04'58.455"N | 80°33'13.264"W | 6457.08           | 162.795         | 3.82          | -0.03                | 3.82                |
| 12549.00 | 89.170          | 155.950     | 6496.61  | 6506.29        | -6252.95   | 1948.08   | 1765294.80        | 14557150.80        | 40°04'57.615"N | 80°33'12.779"W | 6549.38           | 162.696         | 0.40          | 0.13                 | 0.38                |
| 12641.00 | 89.020          | 156.140     | 6498.07  | 6598.28        | -6337.01   | 1985.43   | 1765332.14        | 14557066.77        | 40°04'56.783"N | 80°33'12.304"W | 6640.76           | 162.604         | 0.26          | -0.16                | 0.21                |



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Alice Edge OHI 6H AWP Proj: 18595'

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## REFERENCE WELLPATH IDENTIFICATION

|          |                      |          |                       |
|----------|----------------------|----------|-----------------------|
| Operator | SOUTHWESTERN ENERGY  | Slot     | Slot #06              |
| Area     | Ohio County, WV      | Well     | Alice Edge OHI 6H     |
| Field    | Ohio                 | Wellbore | Alice Edge OHI 6H AWB |
| Facility | Alice Edge OHI Pad A |          |                       |

## WELLPATH DATA (215 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] |
|----------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|----------------|----------------|-------------------|-----------------|---------------|----------------------|---------------------|
| 12734.00 | 89.140          | 157.150     | 6499.56  | 6691.26        | -6422.38   | 2022.30   | 1765368.99        | 14556981.43        | 40°04'55.937"N | 80°33'11.835"W | 6733.25           | 162.522         | 1.09          | 0.13                 | 1.09                |
| 12827.00 | 89.140          | 158.480     | 6500.96  | 6784.21        | -6508.48   | 2057.41   | 1765404.09        | 14556895.36        | 40°04'55.085"N | 80°33'11.389"W | 6825.93           | 162.458         | 1.43          | 0.00                 | 1.43                |
| 12918.00 | 89.600          | 158.190     | 6501.96  | 6875.14        | -6593.05   | 2091.00   | 1765437.67        | 14556810.83        | 40°04'54.247"N | 80°33'10.962"W | 6916.69           | 162.403         | 0.60          | 0.51                 | -0.32               |
| 13010.00 | 89.290          | 155.660     | 6502.85  | 6967.12        | -6677.68   | 2127.05   | 1765473.71        | 14556726.23        | 40°04'53.409"N | 80°33'10.504"W | 7008.26           | 162.332         | 2.77          | -0.34                | -2.75               |
| 13102.00 | 89.200          | 154.940     | 6504.06  | 7059.10        | -6761.25   | 2165.49   | 1765512.13        | 14556642.69        | 40°04'52.582"N | 80°33'10.015"W | 7099.57           | 162.241         | 0.79          | -0.10                | -0.78               |
| 13194.00 | 89.230          | 155.520     | 6505.32  | 7151.08        | -6844.78   | 2204.04   | 1765550.66        | 14556559.19        | 40°04'51.754"N | 80°33'09.524"W | 7190.88           | 162.151         | 0.63          | 0.03                 | 0.63                |
| 13286.00 | 90.180          | 155.640     | 6505.80  | 7243.07        | -6928.55   | 2242.07   | 1765588.68        | 14556475.46        | 40°04'50.925"N | 80°33'09.041"W | 7282.28           | 162.068         | 1.04          | 1.03                 | 0.13                |
| 13377.00 | 89.200          | 155.560     | 6506.29  | 7334.06        | -7011.42   | 2279.66   | 1765626.25        | 14556392.62        | 40°04'50.104"N | 80°33'08.562"W | 7372.71           | 161.989         | 1.08          | -1.08                | -0.09               |
| 13469.00 | 89.140          | 155.100     | 6507.62  | 7426.05        | -7095.01   | 2318.06   | 1765664.64        | 14556309.06        | 40°04'49.276"N | 80°33'08.074"W | 7464.09           | 161.907         | 0.50          | -0.07                | -0.50               |
| 13561.00 | 89.110          | 155.420     | 6509.03  | 7518.02        | -7178.56   | 2356.55   | 1765703.12        | 14556225.54        | 40°04'48.448"N | 80°33'07.584"W | 7555.46           | 161.826         | 0.35          | -0.03                | 0.35                |
| 13653.00 | 89.450          | 156.750     | 6510.18  | 7610.02        | -7262.65   | 2393.85   | 1765740.40        | 14556141.48        | 40°04'47.615"N | 80°33'07.110"W | 7647.00           | 161.757         | 1.49          | 0.37                 | 1.45                |
| 13746.00 | 89.320          | 157.880     | 6511.18  | 7702.99        | -7348.45   | 2429.71   | 1765776.25        | 14556055.72        | 40°04'46.766"N | 80°33'06.654"W | 7739.72           | 161.704         | 1.22          | -0.14                | 1.22                |
| 13839.00 | 89.540          | 157.880     | 6512.10  | 7795.94        | -7434.60   | 2464.73   | 1765811.25        | 14555969.60        | 40°04'45.913"N | 80°33'06.209"W | 7832.51           | 161.659         | 0.24          | 0.24                 | 0.00                |
| 13932.00 | 90.000          | 159.640     | 6512.48  | 7888.84        | -7521.28   | 2498.42   | 1765844.93        | 14555882.96        | 40°04'45.054"N | 80°33'05.781"W | 7925.38           | 161.625         | 1.96          | 0.49                 | 1.89                |
| 14025.00 | 90.370          | 159.880     | 6512.18  | 7981.65        | -7608.53   | 2530.59   | 1765877.09        | 14555795.73        | 40°04'44.190"N | 80°33'05.373"W | 8018.33           | 161.603         | 0.47          | 0.40                 | 0.26                |
| 14117.00 | 90.340          | 159.180     | 6511.61  | 8073.48        | -7694.72   | 2562.76   | 1765909.25        | 14555709.58        | 40°04'43.337"N | 80°33'04.965"W | 8110.27           | 161.579         | 0.76          | -0.03                | -0.76               |
| 14210.00 | 90.250          | 154.640     | 6511.13  | 8166.45        | -7780.25   | 2599.23   | 1765945.70        | 14555624.08        | 40°04'42.490"N | 80°33'04.501"W | 8202.94           | 161.527         | 4.88          | -0.10                | -4.88               |
| 14303.00 | 89.540          | 152.970     | 6511.30  | 8259.37        | -7863.69   | 2640.28   | 1765986.73        | 14555540.67        | 40°04'41.664"N | 80°33'03.978"W | 8295.10           | 161.440         | 1.95          | -0.76                | -1.80               |
| 14396.00 | 90.060          | 152.860     | 6511.62  | 8352.22        | -7946.49   | 2682.62   | 1766029.06        | 14555457.90        | 40°04'40.843"N | 80°33'03.439"W | 8387.09           | 161.346         | 0.57          | 0.56                 | -0.12               |
| 14489.00 | 89.970          | 154.730     | 6511.60  | 8445.14        | -8029.93   | 2723.69   | 1766070.11        | 14555374.50        | 40°04'40.017"N | 80°33'02.916"W | 8479.29           | 161.263         | 2.01          | -0.10                | 2.01                |
| 14581.00 | 90.120          | 158.860     | 6511.53  | 8537.12        | -8114.47   | 2759.93   | 1766106.34        | 14555289.99        | 40°04'39.179"N | 80°33'02.455"W | 8570.99           | 161.216         | 4.49          | 0.16                 | 4.49                |
| 14674.00 | 91.510          | 161.500     | 6510.20  | 8629.86        | -8201.94   | 2791.46   | 1766137.85        | 14555202.55        | 40°04'38.313"N | 80°33'02.056"W | 8663.95           | 161.204         | 3.21          | 1.49                 | 2.84                |
| 14767.00 | 92.430          | 158.720     | 6507.01  | 8722.57        | -8289.33   | 2823.07   | 1766169.46        | 14555115.19        | 40°04'37.448"N | 80°33'01.655"W | 8756.87           | 161.193         | 3.15          | 0.99                 | -2.99               |
| 14860.00 | 90.890          | 156.200     | 6504.31  | 8815.50        | -8375.18   | 2858.70   | 1766205.07        | 14555029.38        | 40°04'36.598"N | 80°33'01.202"W | 8849.63           | 161.154         | 3.17          | -1.66                | -2.71               |
| 14952.00 | 89.750          | 153.840     | 6503.80  | 8907.47        | -8458.57   | 2897.55   | 1766243.91        | 14554946.02        | 40°04'35.772"N | 80°33'00.707"W | 8941.10           | 161.091         | 2.85          | -1.24                | -2.57               |
| 15045.00 | 89.850          | 152.640     | 6504.12  | 9000.35        | -8541.61   | 2939.42   | 1766285.76        | 14554863.02        | 40°04'34.949"N | 80°33'00.174"W | 9033.23           | 161.010         | 1.29          | 0.11                 | -1.29               |
| 15138.00 | 89.850          | 152.130     | 6504.37  | 9093.15        | -8624.01   | 2982.53   | 1766328.85        | 14554780.65        | 40°04'34.133"N | 80°32'59.625"W | 9125.19           | 160.923         | 0.55          | 0.00                 | -0.55               |
| 15231.00 | 89.540          | 152.760     | 6504.86  | 9185.96        | -8706.46   | 3025.55   | 1766371.86        | 14554698.23        | 40°04'33.316"N | 80°32'59.077"W | 9217.18           | 160.837         | 0.75          | -0.33                | 0.68                |
| 15323.00 | 89.510          | 153.460     | 6505.62  | 9277.83        | -8788.51   | 3067.16   | 1766413.45        | 14554616.21        | 40°04'32.503"N | 80°32'58.547"W | 9308.35           | 160.761         | 0.76          | -0.03                | 0.76                |
| 15416.00 | 89.230          | 156.090     | 6506.65  | 9370.79        | -8872.63   | 3106.79   | 1766453.06        | 14554532.12        | 40°04'31.670"N | 80°32'58.043"W | 9400.84           | 160.702         | 2.84          | -0.30                | 2.83                |





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Alice Edge OHI 6H AWP Proj: 18595'

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## REFERENCE WELLPATH IDENTIFICATION

|          |                      |          |                       |
|----------|----------------------|----------|-----------------------|
| Operator | SOUTHWESTERN ENERGY  | Slot     | Slot #06              |
| Area     | Ohio County, WV      | Well     | Alice Edge OHI 6H     |
| Field    | Ohio                 | Wellbore | Alice Edge OHI 6H AWB |
| Facility | Alice Edge OHI Pad A |          |                       |

## WELLPATH DATA (215 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] |
|----------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|----------------|----------------|-------------------|-----------------|---------------|----------------------|---------------------|
| 15509.00 | 89.320          | 157.500     | 6507.82  | 9463.77        | -8958.10   | 3143.43   | 1766489.69        | 14554446.69        | 40°04'30.823"N | 80°32'57.577"W | 9493.61           | 160.664         | 1.52          | 0.10                 | 1.52                |
| 15601.00 | 89.010          | 158.730     | 6509.16  | 9555.71        | -9043.46   | 3177.72   | 1766523.97        | 14554361.36        | 40°04'29.978"N | 80°32'57.142"W | 9585.51           | 160.639         | 1.38          | -0.34                | 1.34                |
| 15694.00 | 89.110          | 159.090     | 6510.69  | 9648.58        | -9130.22   | 3211.18   | 1766557.41        | 14554274.64        | 40°04'29.119"N | 80°32'56.717"W | 9678.45           | 160.623         | 0.40          | 0.11                 | 0.39                |
| 15787.00 | 89.350          | 158.370     | 6511.94  | 9741.48        | -9216.87   | 3244.91   | 1766591.13        | 14554188.01        | 40°04'28.261"N | 80°32'56.289"W | 9771.40           | 160.605         | 0.82          | 0.26                 | -0.77               |
| 15880.00 | 89.050          | 157.970     | 6513.24  | 9834.41        | -9303.19   | 3279.49   | 1766625.70        | 14554101.73        | 40°04'27.406"N | 80°32'55.849"W | 9864.30           | 160.582         | 0.54          | -0.32                | -0.43               |
| 15972.00 | 89.140          | 156.720     | 6514.69  | 9926.37        | -9388.08   | 3314.92   | 1766661.12        | 14554016.87        | 40°04'26.566"N | 80°32'55.399"W | 9956.14           | 160.552         | 1.36          | 0.10                 | -1.36               |
| 16065.00 | 89.230          | 153.840     | 6516.01  | 10019.34       | -9472.54   | 3353.81   | 1766699.98        | 14553932.44        | 40°04'25.729"N | 80°32'54.904"W | 10048.74          | 160.503         | 3.10          | 0.10                 | -3.10               |
| 16158.00 | 88.650          | 152.910     | 6517.74  | 10112.22       | -9555.67   | 3395.48   | 1766741.64        | 14553849.35        | 40°04'24.906"N | 80°32'54.374"W | 10141.01          | 160.438         | 1.18          | -0.62                | -1.00               |
| 16251.00 | 88.680          | 154.220     | 6519.90  | 10205.10       | -9638.92   | 3436.87   | 1766783.01        | 14553766.13        | 40°04'24.081"N | 80°32'53.847"W | 10233.32          | 160.376         | 1.41          | 0.03                 | 1.41                |
| 16344.00 | 88.710          | 156.740     | 6522.02  | 10298.06       | -9723.50   | 3475.45   | 1766821.58        | 14553681.58        | 40°04'23.243"N | 80°32'53.356"W | 10325.95          | 160.332         | 2.71          | -0.03                | 2.71                |
| 16437.00 | 88.680          | 157.340     | 6524.14  | 10391.03       | -9809.11   | 3511.72   | 1766857.84        | 14553596.00        | 40°04'22.395"N | 80°32'52.895"W | 10418.77          | 160.302         | 0.65          | -0.03                | 0.65                |
| 16529.00 | 88.680          | 156.230     | 6526.26  | 10482.99       | -9893.64   | 3547.97   | 1766894.08        | 14553511.51        | 40°04'21.558"N | 80°32'52.434"W | 10510.57          | 160.272         | 1.21          | 0.00                 | -1.21               |
| 16622.00 | 88.740          | 155.650     | 6528.35  | 10575.97       | -9978.54   | 3585.88   | 1766931.97        | 14553426.64        | 40°04'20.717"N | 80°32'51.952"W | 10603.29          | 160.234         | 0.63          | 0.06                 | -0.62               |
| 16715.00 | 88.710          | 156.020     | 6530.42  | 10668.95       | -10063.37  | 3623.94   | 1766970.01        | 14553341.85        | 40°04'19.877"N | 80°32'51.468"W | 10695.99          | 160.195         | 0.40          | -0.03                | 0.40                |
| 16808.00 | 88.800          | 155.190     | 6532.44  | 10761.92       | -10148.04  | 3662.34   | 1767008.40        | 14553257.20        | 40°04'19.038"N | 80°32'50.980"W | 10788.67          | 160.156         | 0.90          | 0.10                 | -0.89               |
| 16900.00 | 89.020          | 154.940     | 6534.19  | 10853.89       | -10231.45  | 3701.12   | 1767047.17        | 14553173.82        | 40°04'18.212"N | 80°32'50.486"W | 10880.30          | 160.113         | 0.36          | 0.24                 | -0.27               |
| 16993.00 | 88.950          | 155.140     | 6535.84  | 10946.86       | -10315.75  | 3740.36   | 1767086.39        | 14553089.56        | 40°04'17.377"N | 80°32'49.987"W | 10972.92          | 160.070         | 0.23          | -0.08                | 0.22                |
| 17086.00 | 88.890          | 157.340     | 6537.59  | 11039.83       | -10400.85  | 3777.82   | 1767123.84        | 14553004.49        | 40°04'16.534"N | 80°32'49.511"W | 11065.69          | 160.038         | 2.37          | -0.06                | 2.37                |
| 17179.00 | 88.830          | 157.240     | 6539.44  | 11132.80       | -10486.62  | 3813.72   | 1767159.72        | 14552918.75        | 40°04'15.685"N | 80°32'49.055"W | 11158.57          | 160.015         | 0.13          | -0.06                | -0.11               |
| 17272.00 | 88.980          | 158.060     | 6541.22  | 11225.74       | -10572.62  | 3849.07   | 1767195.06        | 14552832.79        | 40°04'14.833"N | 80°32'48.606"W | 11251.47          | 159.995         | 0.90          | 0.16                 | 0.88                |
| 17364.00 | 89.020          | 157.820     | 6542.83  | 11317.68       | -10657.87  | 3883.62   | 1767229.60        | 14552747.57        | 40°04'13.989"N | 80°32'48.167"W | 11343.40          | 159.979         | 0.26          | 0.04                 | -0.26               |
| 17457.00 | 88.950          | 157.400     | 6544.47  | 11410.64       | -10743.85  | 3919.04   | 1767265.00        | 14552661.63        | 40°04'13.138"N | 80°32'47.717"W | 11436.31          | 159.960         | 0.46          | -0.08                | -0.45               |
| 17550.00 | 88.980          | 155.980     | 6546.15  | 11503.62       | -10829.24  | 3955.83   | 1767301.78        | 14552576.27        | 40°04'12.292"N | 80°32'47.249"W | 11529.14          | 159.933         | 1.53          | 0.03                 | -1.53               |
| 17643.00 | 89.200          | 153.540     | 6547.63  | 11596.57       | -10913.34  | 3995.48   | 1767341.42        | 14552492.20        | 40°04'11.459"N | 80°32'46.745"W | 11621.74          | 159.892         | 2.63          | 0.24                 | -2.62               |
| 17736.00 | 89.200          | 152.260     | 6548.93  | 11689.41       | -10996.12  | 4037.84   | 1767383.76        | 14552409.45        | 40°04'10.639"N | 80°32'46.205"W | 11714.05          | 159.836         | 1.38          | 0.00                 | -1.38               |
| 17828.00 | 89.200          | 152.870     | 6550.21  | 11781.23       | -11077.77  | 4080.23   | 1767426.13        | 14552327.83        | 40°04'09.830"N | 80°32'45.666"W | 11805.30          | 159.780         | 0.66          | 0.00                 | 0.66                |
| 17921.00 | 89.170          | 155.170     | 6551.54  | 11874.15       | -11161.36  | 4120.96   | 1767466.84        | 14552244.28        | 40°04'09.002"N | 80°32'45.147"W | 11897.82          | 159.735         | 2.47          | -0.03                | 2.47                |
| 18014.00 | 89.570          | 156.710     | 6552.56  | 11967.14       | -11246.27  | 4158.87   | 1767504.74        | 14552159.40        | 40°04'08.161"N | 80°32'44.665"W | 11990.61          | 159.706         | 1.71          | 0.43                 | 1.66                |
| 18107.00 | 89.570          | 157.360     | 6553.26  | 12060.12       | -11331.89  | 4195.16   | 1767541.01        | 14552073.80        | 40°04'07.313"N | 80°32'44.204"W | 12083.51          | 159.685         | 0.70          | 0.00                 | 0.70                |
| 18199.00 | 89.630          | 157.520     | 6553.90  | 12152.10       | -11416.85  | 4230.45   | 1767576.29        | 14551988.88        | 40°04'06.471"N | 80°32'43.756"W | 12175.44          | 159.668         | 0.19          | 0.07                 | 0.17                |



**REFERENCE WELLPATH IDENTIFICATION**

|          |                      |          |                       |
|----------|----------------------|----------|-----------------------|
| Operator | SOUTHWESTERN ENERGY  | Slot     | Slot #06              |
| Area     | Ohio County, WV      | Well     | Alice Edge OHI 6H     |
| Field    | Ohio                 | Wellbore | Alice Edge OHI 6H AWB |
| Facility | Alice Edge OHI Pad A |          |                       |

**WELLPATH DATA (215 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] |
|----------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|----------------|----------------|-------------------|-----------------|---------------|----------------------|---------------------|
| 18292.00 | 89.540          | 157.880     | 6554.57  | 12245.06       | -11502.89  | 4265.74   | 1767611.57        | 14551902.87        | 40°04'05.619"N | 80°32'43.307"W | 12268.38          | 159.653         | 0.40          | -0.10                | 0.39                |
| 18385.00 | 89.540          | 157.250     | 6555.32  | 12338.03       | -11588.85  | 4301.23   | 1767647.05        | 14551816.95        | 40°04'04.768"N | 80°32'42.857"W | 12361.31          | 159.637         | 0.68          | 0.00                 | -0.68               |
| 18477.00 | 89.600          | 158.260     | 6556.01  | 12429.99       | -11674.00  | 4336.06   | 1767681.86        | 14551731.83        | 40°04'03.925"N | 80°32'42.414"W | 12453.26          | 159.624         | 1.10          | 0.07                 | 1.10                |
| 18570.00 | 89.970          | 158.480     | 6556.36  | 12522.91       | -11760.45  | 4370.34   | 1767716.13        | 14551645.41        | 40°04'03.069"N | 80°32'41.979"W | 12546.24          | 159.614         | 0.46          | 0.40                 | 0.24                |
| 18595.00 | 89.970          | 158.480     | 6556.37  | 12547.89       | -11783.71  | 4379.51   | 1767725.29        | 14551622.16        | 40°04'02.838"N | 80°32'41.863"W | 12571.23          | 159.612         | 0.00          | 0.00                 | 0.00                |

**TARGETS**

| Name                        | MD [ft] | TVD [ft] | North [ft] | East [ft] | Grid East [US ft] | Grid North [US ft] | Latitude       | Longitude      | Shape |
|-----------------------------|---------|----------|------------|-----------|-------------------|--------------------|----------------|----------------|-------|
| Alice Edge OHI 6H LP Rev-2  |         | 6416.00  | -1010.62   | -382.21   | 1762965.41        | 14562391.11        | 40°05'49.535"N | 80°33'42.426"W | point |
| Alice Edge OHI 6H BHL Rev-2 |         | 6567.00  | -11782.79  | 4387.17   | 1767732.95        | 14551623.08        | 40°04'02.847"N | 80°32'41.764"W | point |
| Alice Edge OHI 6H BHL Rev-1 |         | 6589.06  | -12040.31  | 4431.71   | 1767777.47        | 14551365.66        | 40°04'00.300"N | 80°32'41.208"W | point |

**WELLPATH COMPOSITION - Ref Wellbore: Alice Edge OHI 6H AWB Ref Wellpath: Alice Edge OHI 6H AWP Proj: 18595'**

| Start MD [ft] | End MD [ft] | Positional Uncertainty Model           | Log Name/Comment                               | Wellbore              |
|---------------|-------------|--|--|-----------------------|
| 26.00         | 672.00      | Generic gyro - northseeking (Standard) | 01 SDI Gyro <17-1/2"> (100'-672')              | Alice Edge OHI 6H AWB |
| 672.00        | 955.00      | Generic gyro - northseeking (Standard) | 02 Gyro <12-1/4"> (672')(680'-955')            | Alice Edge OHI 6H AWB |
| 955.00        | 2063.00     | NaviTrak (MagCorr)                     | 03 APS EM <12-1/4"> (955')(1081'-2063')        | Alice Edge OHI 6H AWB |
| 2063.00       | 5748.00     | NaviTrak (MagCorr)                     | 04 APS EM <8-3/4"> (2063')(2189'-5748')        | Alice Edge OHI 6H AWB |
| 5748.00       | 18570.00    | NaviTrak (MagCorr)                     | 05 BHI AT Curve <8-1/2"> (5748')(5822'-18570') | Alice Edge OHI 6H AWB |
| 18570.00      | 18595.00    | Blind Drilling (std)                   | Projection to bit                              | Alice Edge OHI 6H AWB |



# Actual Wellpath Report

Alice Edge OHI 6H AWP Proj: 18595'

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## REFERENCE WELLPATH IDENTIFICATION

|          |                      |          |                       |
|----------|----------------------|----------|-----------------------|
| Operator | SOUTHWESTERN ENERGY  | Slot     | Slot #06              |
| Area     | Ohio County, WV      | Well     | Alice Edge OHI 6H     |
| Field    | Ohio                 | Wellbore | Alice Edge OHI 6H AWB |
| Facility | Alice Edge OHI Pad A |          |                       |

## COMMENTS

### Wellpath general comments

API: 47-069-00184-0000

BHI Job #: 7213301

Rig: Rocket Rig 40

Duration: 5/4/2015-5/13/2015

SDI Gyro <17-1/2"> (100'-672')

Gyro <12-1/4"> (672')(680'-955')

APS EM <12-1/4"> (955')(1081'-2063')

APS EM <8-3/4"> (2063')(2189'-5748')

BHI AT Curve <8-1/2"> (5748')(5822'-18570')

Projected MD at TD: 18595'

Received  
Office of Oil & Gas

JAN 27 2016