



A Schlumberger Company

3001540334

## Devon Energy, Inc.

Eddy County (NAD83)

Bellatrix "28" Federal Com

#4H

OH

Design: OH

## Pathfinder X&Y Report

03 July, 2013



devon

The Devon logo, featuring the word "devon" in a lowercase, serif font. Above the letters "on" are three horizontal bars of increasing length, stacked vertically.

|                  |                            |                                     |                                |
|------------------|----------------------------|-------------------------------------|--------------------------------|
| <b>Company:</b>  | Devon Energy, Inc.         | <b>Local Co-ordinate Reference:</b> | Well #4H                       |
| <b>Project:</b>  | Eddy County (NAD83)        | <b>TVD Reference:</b>               | KB = 26 @ 3508.3usft (H&P 300) |
| <b>Site:</b>     | Bellatrix "28" Federal Com | <b>MD Reference:</b>                | KB = 26 @ 3508.3usft (H&P 300) |
| <b>Well:</b>     | #4H                        | <b>North Reference:</b>             | Grid                           |
| <b>Wellbore:</b> | OH                         | <b>Survey Calculation Method:</b>   | Minimum Curvature              |
| <b>Design:</b>   | OH                         | <b>Database:</b>                    | EDM 5000.1 Single User Db      |

|                    |                           |                      |                |
|--------------------|---------------------------|----------------------|----------------|
| <b>Project</b>     | Eddy County (NAD83)       |                      |                |
| <b>Map System:</b> | US State Plane 1983       | <b>System Datum:</b> | Mean Sea Level |
| <b>Geo Datum:</b>  | North American Datum 1983 |                      |                |
| <b>Map Zone:</b>   | New Mexico Eastern Zone   |                      |                |

|                              |                            |                     |                  |                          |             |
|------------------------------|----------------------------|---------------------|------------------|--------------------------|-------------|
| <b>Site</b>                  | Bellatrix "28" Federal Com |                     |                  |                          |             |
| <b>Site Position:</b>        |                            | <b>Northing:</b>    | 595,443.610 usft | <b>Latitude:</b>         | 32.636124   |
| <b>From:</b>                 | Map                        | <b>Easting:</b>     | 679,232.620 usft | <b>Longitude:</b>        | -103.885375 |
| <b>Position Uncertainty:</b> | 0.0 usft                   | <b>Slot Radius:</b> | 13-3/16 "        | <b>Grid Convergence:</b> | 0.24 °      |

|                             |              |          |                            |                  |                      |              |
|-----------------------------|--------------|----------|----------------------------|------------------|----------------------|--------------|
| <b>Well</b>                 | #4H          |          |                            |                  |                      |              |
| <b>Well Position</b>        | <b>+N/-S</b> | 0.0 usft | <b>Northing:</b>           | 592,597.200 usft | <b>Latitude:</b>     | 32.628293    |
|                             | <b>+E/-W</b> | 0.0 usft | <b>Easting:</b>            | 679,842.940 usft | <b>Longitude:</b>    | -103.883431  |
| <b>Position Uncertainty</b> |              | 0.0 usft | <b>Wellhead Elevation:</b> | usft             | <b>Ground Level:</b> | 3,482.3 usft |

|                  |                   |                    |                    |                  |                       |
|------------------|-------------------|--------------------|--------------------|------------------|-----------------------|
| <b>Wellbore</b>  | OH                |                    |                    |                  |                       |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination</b> | <b>Dip Angle</b> | <b>Field Strength</b> |
|                  |                   |                    | (°)                | (°)              | (nT)                  |
|                  | IGRF200510        | 5/7/2013           | 7.52               | 60.49            | 48,679                |

|                          |                         |               |              |                      |     |
|--------------------------|-------------------------|---------------|--------------|----------------------|-----|
| <b>Design</b>            | OH                      |               |              |                      |     |
| <b>Audit Notes:</b>      |                         |               |              |                      |     |
| <b>Version:</b>          | 1.0                     | <b>Phase:</b> | ACTUAL       | <b>Tie On Depth:</b> | 0.0 |
| <b>Vertical Section:</b> | <b>Depth From (TVD)</b> | <b>+N/-S</b>  | <b>+E/-W</b> | <b>Direction</b>     |     |
|                          | (usft)                  | (usft)        | (usft)       | (°)                  |     |
|                          | 0.0                     | 0.0           | 0.0          | 96.42                |     |



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| <b>Project:</b>  | Eddy County (NAD83)        | <b>TVD Reference:</b>               | KB = 26 @ 3508.3usft (H&P 300) |
| <b>Site:</b>     | Bellatrix "28" Federal Com | <b>MD Reference:</b>                | KB = 26 @ 3508.3usft (H&P 300) |
| <b>Well:</b>     | #4H                        | <b>North Reference:</b>             | Grid                           |
| <b>Wellbore:</b> | OH                         | <b>Survey Calculation Method:</b>   | Minimum Curvature              |
| <b>Design:</b>   | OH                         | <b>Database:</b>                    | EDM 5000.1 Single User Db      |

| Survey Program |           | Date              | 7/3/2013   |                                  |  |
|----------------|-----------|-------------------|------------|----------------------------------|--|
| From (usft)    | To (usft) | Survey (Wellbore) | Tool Name  | Description                      |  |
| 100.0          | 8,380.0   | Gyro #1 (OH)      | NS-GYRO-MS | North sensing gyrocompassing m/s |  |
| 8,477.0        | 13,567.0  | MWD #2 (OH)       | MWD        | MWD - Standard                   |  |

| Survey                       |            |                      |               |                 |               |               |                  |                     |                    |                   |  |
|------------------------------|------------|----------------------|---------------|-----------------|---------------|---------------|------------------|---------------------|--------------------|-------------------|--|
| MD<br>(usft)                 | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | TVDSS<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | V. Sec<br>(usft) | DLeg<br>(°/100usft) | Northing<br>(usft) | Easting<br>(usft) |  |
| 0.0                          | 0.00       | 0.00                 | 0.0           | -3,508.3        | 0.0           | 0.0           | 0.0              | 0.00                | 592,597.20         | 679,842.94        |  |
| Tenneco-Federal (Offset P&A) |            |                      |               |                 |               |               |                  |                     |                    |                   |  |
| 100.0                        | 0.48       | 312.88               | 100.0         | -3,408.3        | 0.3           | -0.3          | -0.3             | 0.48                | 592,597.49         | 679,842.63        |  |
| 200.0                        | 0.80       | 257.83               | 200.0         | -3,308.3        | 0.4           | -1.3          | -1.3             | 0.66                | 592,597.62         | 679,841.64        |  |
| 300.0                        | 1.87       | 244.01               | 300.0         | -3,208.3        | -0.4          | -3.4          | -3.4             | 1.11                | 592,596.76         | 679,839.49        |  |
| 400.0                        | 2.82       | 253.55               | 399.9         | -3,108.4        | -1.9          | -7.3          | -7.0             | 1.02                | 592,595.35         | 679,835.67        |  |
| 500.0                        | 4.03       | 248.91               | 499.7         | -3,008.6        | -3.8          | -12.9         | -12.4            | 1.24                | 592,593.39         | 679,830.03        |  |
| 600.0                        | 4.49       | 249.52               | 599.4         | -2,908.9        | -6.4          | -19.9         | -19.0            | 0.46                | 592,590.75         | 679,823.09        |  |
| 700.0                        | 3.87       | 244.99               | 699.2         | -2,809.1        | -9.2          | -26.6         | -25.4            | 0.70                | 592,587.96         | 679,816.36        |  |
| 800.0                        | 3.18       | 256.28               | 799.0         | -2,709.3        | -11.3         | -32.3         | -30.9            | 0.98                | 592,585.87         | 679,810.61        |  |
| 900.0                        | 2.82       | 250.33               | 898.8         | -2,609.5        | -12.8         | -37.3         | -35.7            | 0.48                | 592,584.39         | 679,805.60        |  |
| 1,000.0                      | 2.30       | 254.37               | 998.7         | -2,509.6        | -14.2         | -41.6         | -39.7            | 0.55                | 592,583.02         | 679,801.35        |  |
| 1,100.0                      | 1.94       | 254.13               | 1,098.7       | -2,409.6        | -15.2         | -45.2         | -43.2            | 0.36                | 592,582.02         | 679,797.79        |  |
| 1,200.0                      | 1.24       | 266.33               | 1,198.6       | -2,309.7        | -15.7         | -47.9         | -45.8            | 0.77                | 592,581.48         | 679,795.08        |  |
| 1,300.0                      | 0.98       | 268.25               | 1,298.6       | -2,209.7        | -15.8         | -49.8         | -47.7            | 0.26                | 592,581.39         | 679,793.14        |  |
| 1,400.0                      | 0.58       | 261.24               | 1,398.6       | -2,109.7        | -15.9         | -51.2         | -49.0            | 0.41                | 592,581.28         | 679,791.79        |  |
| 1,500.0                      | 0.54       | 292.28               | 1,498.6       | -2,009.7        | -15.8         | -52.1         | -50.0            | 0.30                | 592,581.39         | 679,790.85        |  |
| 1,600.0                      | 0.70       | 34.48                | 1,598.6       | -1,909.7        | -15.1         | -52.2         | -50.2            | 0.97                | 592,582.07         | 679,790.76        |  |
| 1,700.0                      | 1.25       | 66.51                | 1,698.6       | -1,809.7        | -14.2         | -50.8         | -48.9            | 0.75                | 592,583.01         | 679,792.11        |  |
| 1,800.0                      | 1.53       | 60.84                | 1,798.5       | -1,709.8        | -13.1         | -48.7         | -46.9            | 0.31                | 592,584.09         | 679,794.28        |  |
| 1,900.0                      | 2.20       | 72.58                | 1,898.5       | -1,609.8        | -11.9         | -45.7         | -44.1            | 0.77                | 592,585.32         | 679,797.27        |  |



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| <b>Project:</b>  | Eddy County (NAD83)        | <b>TVD Reference:</b>               | KB = 26 @ 3508.3usft (H&P 300) |
| <b>Site:</b>     | Bellatrix "28" Federal Com | <b>MD Reference:</b>                | KB = 26 @ 3508.3usft (H&P 300) |
| <b>Well:</b>     | #4H                        | <b>North Reference:</b>             | Grid                           |
| <b>Wellbore:</b> | OH                         | <b>Survey Calculation Method:</b>   | Minimum Curvature              |
| <b>Design:</b>   | OH                         | <b>Database:</b>                    | EDM 5000.1 Single User Db      |

| Survey       |            |                      |               |                 |               |               |                  |                     |                    |                   |  |
|--------------|------------|----------------------|---------------|-----------------|---------------|---------------|------------------|---------------------|--------------------|-------------------|--|
| MD<br>(usft) | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | TVDSS<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | V. Sec<br>(usft) | DLeg<br>(°/100usft) | Northing<br>(usft) | Easting<br>(usft) |  |
| 2,000.0      | 2.03       | 74.79                | 1,998.4       | -1,509.9        | -10.8         | -42.1         | -40.6            | 0.19                | 592,586.36         | 679,800.81        |  |
| 2,100.0      | 1.51       | 81.20                | 2,098.4       | -1,409.9        | -10.2         | -39.1         | -37.7            | 0.56                | 592,587.02         | 679,803.82        |  |
| 2,200.0      | 1.23       | 93.32                | 2,198.3       | -1,310.0        | -10.0         | -36.7         | -35.4            | 0.40                | 592,587.16         | 679,806.20        |  |
| 2,300.0      | 0.79       | 79.45                | 2,298.3       | -1,210.0        | -10.0         | -35.0         | -33.7            | 0.50                | 592,587.23         | 679,807.95        |  |
| 2,400.0      | 0.65       | 63.05                | 2,398.3       | -1,110.0        | -9.6          | -33.8         | -32.5            | 0.25                | 592,587.61         | 679,809.13        |  |
| 2,500.0      | 0.45       | 69.83                | 2,498.3       | -1,010.0        | -9.2          | -32.9         | -31.7            | 0.21                | 592,588.00         | 679,810.00        |  |
| 2,600.0      | 0.36       | 78.93                | 2,598.3       | -910.0          | -9.0          | -32.3         | -31.0            | 0.11                | 592,588.20         | 679,810.68        |  |
| 2,700.0      | 0.49       | 73.85                | 2,698.3       | -810.0          | -8.8          | -31.5         | -30.4            | 0.14                | 592,588.38         | 679,811.40        |  |
| 2,800.0      | 0.20       | 100.58               | 2,798.3       | -710.0          | -8.7          | -31.0         | -29.8            | 0.32                | 592,588.46         | 679,811.98        |  |
| 2,900.0      | 0.12       | 177.63               | 2,898.3       | -610.0          | -8.9          | -30.8         | -29.6            | 0.21                | 592,588.33         | 679,812.16        |  |
| 3,000.0      | 0.95       | 243.63               | 2,998.3       | -510.0          | -9.3          | -31.5         | -30.3            | 0.91                | 592,587.85         | 679,811.42        |  |
| 3,100.0      | 1.12       | 248.36               | 3,098.3       | -410.0          | -10.1         | -33.2         | -31.8            | 0.19                | 592,587.13         | 679,809.77        |  |
| 3,200.0      | 1.14       | 255.37               | 3,198.3       | -310.0          | -10.7         | -35.0         | -33.6            | 0.14                | 592,586.51         | 679,807.90        |  |
| 3,300.0      | 0.87       | 252.56               | 3,298.3       | -210.0          | -11.2         | -36.7         | -35.2            | 0.27                | 592,586.03         | 679,806.21        |  |
| 3,400.0      | 0.75       | 271.28               | 3,398.2       | -110.1          | -11.4         | -38.1         | -36.6            | 0.29                | 592,585.82         | 679,804.83        |  |
| 3,500.0      | 0.78       | 264.24               | 3,498.2       | -10.1           | -11.4         | -39.4         | -37.9            | 0.10                | 592,585.77         | 679,803.50        |  |
| 3,600.0      | 0.74       | 273.22               | 3,598.2       | 89.9            | -11.5         | -40.8         | -39.2            | 0.13                | 592,585.74         | 679,802.18        |  |
| 3,700.0      | 0.77       | 280.89               | 3,698.2       | 189.9           | -11.3         | -42.1         | -40.5            | 0.11                | 592,585.90         | 679,800.87        |  |
| 3,800.0      | 0.77       | 265.52               | 3,798.2       | 289.9           | -11.2         | -43.4         | -41.9            | 0.21                | 592,585.97         | 679,799.54        |  |
| 3,900.0      | 0.69       | 271.14               | 3,898.2       | 389.9           | -11.3         | -44.7         | -43.1            | 0.11                | 592,585.93         | 679,798.27        |  |
| 4,000.0      | 0.63       | 252.10               | 3,998.2       | 489.9           | -11.4         | -45.8         | -44.2            | 0.23                | 592,585.78         | 679,797.15        |  |
| 4,100.0      | 0.93       | 242.82               | 4,098.2       | 589.9           | -12.0         | -47.0         | -45.4            | 0.32                | 592,585.24         | 679,795.90        |  |
| 4,200.0      | 0.90       | 260.32               | 4,198.2       | 689.9           | -12.5         | -48.5         | -46.8            | 0.28                | 592,584.73         | 679,794.41        |  |
| 4,300.0      | 0.98       | 257.12               | 4,298.2       | 789.9           | -12.8         | -50.1         | -48.4            | 0.10                | 592,584.41         | 679,792.80        |  |
| 4,400.0      | 1.37       | 272.93               | 4,398.1       | 889.8           | -12.9         | -52.2         | -50.4            | 0.50                | 592,584.28         | 679,790.77        |  |
| 4,500.0      | 1.08       | 276.91               | 4,498.1       | 989.8           | -12.7         | -54.3         | -52.5            | 0.30                | 592,584.46         | 679,788.64        |  |
| 4,600.0      | 0.91       | 272.07               | 4,598.1       | 1,089.8         | -12.6         | -56.0         | -54.3            | 0.19                | 592,584.60         | 679,786.91        |  |



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| <b>Project:</b>  | Eddy County (NAD83)        | <b>TVD Reference:</b>               | KB = 26 @ 3508.3usft (H&P 300) |
| <b>Site:</b>     | Bellatrix "28" Federal Com | <b>MD Reference:</b>                | KB = 26 @ 3508.3usft (H&P 300) |
| <b>Well:</b>     | #4H                        | <b>North Reference:</b>             | Grid                           |
| <b>Wellbore:</b> | OH                         | <b>Survey Calculation Method:</b>   | Minimum Curvature              |
| <b>Design:</b>   | OH                         | <b>Database:</b>                    | EDM 5000.1 Single User Db      |

| Survey       |            |                      |               |                 |               |               |                  |                     |                    |                   |  |
|--------------|------------|----------------------|---------------|-----------------|---------------|---------------|------------------|---------------------|--------------------|-------------------|--|
| MD<br>(usft) | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | TVDSS<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | V. Sec<br>(usft) | DLeg<br>(°/100usft) | Northing<br>(usft) | Easting<br>(usft) |  |
| 4,700.0      | 1.04       | 283.31               | 4,698.1       | 1,189.8         | -12.4         | -57.7         | -56.0            | 0.23                | 592,584.84         | 679,785.24        |  |
| 4,800.0      | 0.89       | 282.62               | 4,798.1       | 1,289.8         | -12.0         | -59.3         | -57.6            | 0.15                | 592,585.21         | 679,783.59        |  |
| 4,900.0      | 0.74       | 290.66               | 4,898.1       | 1,389.8         | -11.6         | -60.7         | -59.0            | 0.19                | 592,585.61         | 679,782.23        |  |
| 5,000.0      | 0.58       | 281.55               | 4,998.1       | 1,489.8         | -11.3         | -61.8         | -60.2            | 0.19                | 592,585.94         | 679,781.13        |  |
| 5,100.0      | 0.65       | 258.83               | 5,098.0       | 1,589.7         | -11.3         | -62.9         | -61.2            | 0.25                | 592,585.93         | 679,780.08        |  |
| 5,200.0      | 1.28       | 267.11               | 5,198.0       | 1,689.7         | -11.4         | -64.5         | -62.8            | 0.64                | 592,585.77         | 679,778.41        |  |
| 5,300.0      | 1.33       | 265.05               | 5,298.0       | 1,789.7         | -11.6         | -66.8         | -65.1            | 0.07                | 592,585.61         | 679,776.14        |  |
| 5,400.0      | 1.37       | 287.50               | 5,398.0       | 1,889.7         | -11.3         | -69.1         | -67.4            | 0.53                | 592,585.87         | 679,773.84        |  |
| 5,500.0      | 1.21       | 292.55               | 5,498.0       | 1,989.7         | -10.6         | -71.2         | -69.6            | 0.20                | 592,586.63         | 679,771.73        |  |
| 5,600.0      | 1.05       | 297.62               | 5,597.9       | 2,089.6         | -9.7          | -73.0         | -71.5            | 0.19                | 592,587.46         | 679,769.94        |  |
| 5,700.0      | 0.92       | 303.02               | 5,697.9       | 2,189.6         | -8.9          | -74.5         | -73.0            | 0.16                | 592,588.33         | 679,768.45        |  |
| 5,800.0      | 1.13       | 307.31               | 5,797.9       | 2,289.6         | -7.8          | -75.9         | -74.6            | 0.22                | 592,589.36         | 679,767.00        |  |
| 5,900.0      | 0.97       | 308.18               | 5,897.9       | 2,389.6         | -6.7          | -77.4         | -76.2            | 0.16                | 592,590.48         | 679,765.55        |  |
| 6,000.0      | 1.12       | 316.62               | 5,997.9       | 2,489.6         | -5.5          | -78.7         | -77.6            | 0.21                | 592,591.72         | 679,764.21        |  |
| 6,100.0      | 1.02       | 309.43               | 6,097.9       | 2,589.6         | -4.2          | -80.1         | -79.1            | 0.17                | 592,592.99         | 679,762.85        |  |
| 6,200.0      | 0.80       | 317.98               | 6,197.8       | 2,689.5         | -3.1          | -81.2         | -80.4            | 0.26                | 592,594.07         | 679,761.70        |  |
| 6,300.0      | 0.97       | 332.50               | 6,297.8       | 2,789.5         | -1.9          | -82.1         | -81.4            | 0.28                | 592,595.34         | 679,760.84        |  |
| 6,400.0      | 1.08       | 326.70               | 6,397.8       | 2,889.5         | -0.3          | -83.0         | -82.5            | 0.15                | 592,596.88         | 679,759.93        |  |
| 6,500.0      | 1.03       | 342.29               | 6,497.8       | 2,989.5         | 1.3           | -83.8         | -83.4            | 0.29                | 592,598.53         | 679,759.14        |  |
| 6,600.0      | 1.16       | 329.15               | 6,597.8       | 3,089.5         | 3.1           | -84.6         | -84.4            | 0.28                | 592,600.25         | 679,758.35        |  |
| 6,700.0      | 1.16       | 337.11               | 6,697.8       | 3,189.5         | 4.9           | -85.5         | -85.5            | 0.16                | 592,602.05         | 679,757.43        |  |
| 6,800.0      | 0.95       | 348.51               | 6,797.7       | 3,289.4         | 6.6           | -86.1         | -86.3            | 0.30                | 592,603.80         | 679,756.87        |  |
| 6,900.0      | 1.18       | 354.64               | 6,897.7       | 3,389.4         | 8.4           | -86.3         | -86.7            | 0.26                | 592,605.64         | 679,756.61        |  |
| 7,000.0      | 1.06       | 356.44               | 6,997.7       | 3,489.4         | 10.4          | -86.5         | -87.1            | 0.13                | 592,607.58         | 679,756.46        |  |
| 7,100.0      | 1.03       | 352.64               | 7,097.7       | 3,589.4         | 12.2          | -86.7         | -87.5            | 0.08                | 592,609.40         | 679,756.29        |  |
| 7,200.0      | 1.23       | 336.80               | 7,197.7       | 3,689.4         | 14.1          | -87.2         | -88.2            | 0.37                | 592,611.28         | 679,755.75        |  |
| 7,300.0      | 1.20       | 309.02               | 7,297.6       | 3,789.3         | 15.7          | -88.4         | -89.6            | 0.58                | 592,612.92         | 679,754.51        |  |



A Schlumberger Company

# Pathfinder

Pathfinder X&Y Report



|                  |                            |                                     |                                |
|------------------|----------------------------|-------------------------------------|--------------------------------|
| <b>Company:</b>  | Devon Energy, Inc.         | <b>Local Co-ordinate Reference:</b> | Well #4H                       |
| <b>Project:</b>  | Eddy County (NAD83)        | <b>TVD Reference:</b>               | KB = 26 @ 3508.3usft (H&P 300) |
| <b>Site:</b>     | Bellatrix "28" Federal Com | <b>MD Reference:</b>                | KB = 26 @ 3508.3usft (H&P 300) |
| <b>Well:</b>     | #4H                        | <b>North Reference:</b>             | Grid                           |
| <b>Wellbore:</b> | OH                         | <b>Survey Calculation Method:</b>   | Minimum Curvature              |
| <b>Design:</b>   | OH                         | <b>Database:</b>                    | EDM 5000.1 Single User Db      |

| Survey       |            |                      |               |                 |               |               |                  |                     |                    |                   |  |
|--------------|------------|----------------------|---------------|-----------------|---------------|---------------|------------------|---------------------|--------------------|-------------------|--|
| MD<br>(usft) | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | TVDSS<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | V. Sec<br>(usft) | DLeg<br>(°/100usft) | Northing<br>(usft) | Easting<br>(usft) |  |
| 7,400.0      | 0.95       | 274.14               | 7,397.6       | 3,889.3         | 16.4          | -90.1         | -91.3            | 0.69                | 592,613.64         | 679,752.87        |  |
| 7,500.0      | 0.22       | 204.01               | 7,497.6       | 3,989.3         | 16.3          | -91.0         | -92.2            | 0.90                | 592,613.53         | 679,751.97        |  |
| 7,600.0      | 0.56       | 226.76               | 7,597.6       | 4,089.3         | 15.8          | -91.4         | -92.6            | 0.37                | 592,613.02         | 679,751.53        |  |
| 7,700.0      | 0.48       | 221.56               | 7,697.6       | 4,189.3         | 15.2          | -92.0         | -93.2            | 0.09                | 592,612.37         | 679,750.90        |  |
| 7,800.0      | 0.90       | 261.33               | 7,797.6       | 4,289.3         | 14.7          | -93.1         | -94.2            | 0.61                | 592,611.94         | 679,749.85        |  |
| 7,900.0      | 0.87       | 301.88               | 7,897.6       | 4,389.3         | 15.0          | -94.5         | -95.6            | 0.61                | 592,612.22         | 679,748.42        |  |
| 8,000.0      | 1.24       | 315.88               | 7,997.6       | 4,489.3         | 16.2          | -95.9         | -97.1            | 0.45                | 592,613.40         | 679,747.03        |  |
| 8,100.0      | 1.54       | 354.63               | 8,097.6       | 4,589.3         | 18.3          | -96.8         | -98.2            | 0.96                | 592,615.51         | 679,746.15        |  |
| 8,200.0      | 1.73       | 12.03                | 8,197.5       | 4,689.2         | 21.1          | -96.6         | -98.4            | 0.53                | 592,618.33         | 679,746.34        |  |
| 8,300.0      | 1.52       | 9.91                 | 8,297.5       | 4,789.2         | 23.9          | -96.1         | -98.1            | 0.22                | 592,621.11         | 679,746.88        |  |
| 8,380.0      | 1.40       | 341.17               | 8,377.5       | 4,869.2         | 25.9          | -96.2         | -98.5            | 0.92                | 592,623.08         | 679,746.75        |  |
| 8,477.0      | 1.49       | 36.54                | 8,474.4       | 4,966.1         | 28.0          | -95.8         | -98.4            | 1.39                | 592,625.21         | 679,747.11        |  |
| 8,508.0      | 1.49       | 74.95                | 8,505.4       | 4,997.1         | 28.4          | -95.2         | -97.8            | 3.16                | 592,625.64         | 679,747.74        |  |
| 8,540.0      | 3.96       | 134.54               | 8,537.4       | 5,029.1         | 27.8          | -94.0         | -96.5            | 10.79               | 592,624.97         | 679,748.93        |  |
| 8,571.0      | 8.00       | 144.64               | 8,568.2       | 5,059.9         | 25.3          | -92.0         | -94.2            | 13.42               | 592,622.46         | 679,750.95        |  |
| 8,602.0      | 12.40      | 145.70               | 8,598.7       | 5,090.4         | 20.8          | -88.9         | -90.6            | 14.21               | 592,617.95         | 679,754.07        |  |
| 8,634.0      | 16.88      | 146.84               | 8,629.7       | 5,121.4         | 14.0          | -84.4         | -85.4            | 14.03               | 592,611.22         | 679,758.55        |  |
| 8,665.0      | 20.05      | 149.39               | 8,659.1       | 5,150.8         | 5.7           | -79.2         | -79.4            | 10.55               | 592,602.88         | 679,763.72        |  |
| 8,697.0      | 21.02      | 151.76               | 8,689.0       | 5,180.7         | -4.1          | -73.7         | -72.8            | 3.99                | 592,593.10         | 679,769.23        |  |
| 8,728.0      | 23.74      | 152.82               | 8,717.7       | 5,209.4         | -14.6         | -68.2         | -66.2            | 8.87                | 592,582.65         | 679,774.71        |  |
| 8,760.0      | 27.26      | 153.26               | 8,746.6       | 5,238.3         | -26.8         | -62.0         | -58.6            | 11.02               | 592,570.37         | 679,780.95        |  |
| 8,791.0      | 29.19      | 152.73               | 8,773.9       | 5,265.6         | -39.9         | -55.3         | -50.5            | 6.28                | 592,557.31         | 679,787.61        |  |
| 8,823.0      | 31.30      | 153.43               | 8,801.5       | 5,293.2         | -54.3         | -48.0         | -41.7            | 6.69                | 592,542.94         | 679,794.91        |  |
| 8,854.0      | 34.21      | 155.01               | 8,827.6       | 5,319.3         | -69.4         | -40.7         | -32.7            | 9.78                | 592,527.83         | 679,802.19        |  |
| 8,886.0      | 37.72      | 154.66               | 8,853.5       | 5,345.2         | -86.4         | -32.8         | -22.9            | 10.99               | 592,510.83         | 679,810.18        |  |
| 8,917.0      | 41.33      | 154.57               | 8,877.4       | 5,369.1         | -104.2        | -24.3         | -12.5            | 11.65               | 592,493.01         | 679,818.64        |  |
| 8,949.0      | 45.02      | 155.28               | 8,900.7       | 5,392.4         | -124.0        | -15.0         | -1.1             | 11.63               | 592,473.18         | 679,827.91        |  |



A Schlumberger Company

# Pathfinder

Pathfinder X&Y Report



|                  |                            |                                     |                                |
|------------------|----------------------------|-------------------------------------|--------------------------------|
| <b>Company:</b>  | Devon Energy, Inc.         | <b>Local Co-ordinate Reference:</b> | Well #4H                       |
| <b>Project:</b>  | Eddy County (NAD83)        | <b>TVD Reference:</b>               | KB = 26 @ 3508.3usft (H&P 300) |
| <b>Site:</b>     | Bellatrix "28" Federal Com | <b>MD Reference:</b>                | KB = 26 @ 3508.3usft (H&P 300) |
| <b>Well:</b>     | #4H                        | <b>North Reference:</b>             | Grid                           |
| <b>Wellbore:</b> | OH                         | <b>Survey Calculation Method:</b>   | Minimum Curvature              |
| <b>Design:</b>   | OH                         | <b>Database:</b>                    | EDM 5000.1 Single User Db      |

| Survey       |            |                      |               |                 |               |               |                  |                     |                    |                   |  |
|--------------|------------|----------------------|---------------|-----------------|---------------|---------------|------------------|---------------------|--------------------|-------------------|--|
| MD<br>(usft) | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | TVDSS<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | V. Sec<br>(usft) | DLeg<br>(°/100usft) | Northing<br>(usft) | Easting<br>(usft) |  |
| 8,980.0      | 48.80      | 154.57               | 8,921.9       | 5,413.6         | -144.5        | -5.4          | 10.8             | 12.31               | 592,452.68         | 679,837.51        |  |
| 9,012.0      | 53.02      | 153.78               | 8,942.1       | 5,433.8         | -166.9        | 5.4           | 24.0             | 13.33               | 592,430.33         | 679,848.33        |  |
| 9,043.0      | 58.04      | 153.26               | 8,959.6       | 5,451.3         | -189.7        | 16.8          | 37.9             | 16.25               | 592,407.46         | 679,859.73        |  |
| 9,075.0      | 61.99      | 153.61               | 8,975.6       | 5,467.3         | -214.5        | 29.2          | 53.0             | 12.38               | 592,382.67         | 679,872.12        |  |
| 9,106.0      | 65.51      | 153.26               | 8,989.3       | 5,481.0         | -239.4        | 41.6          | 68.1             | 11.40               | 592,357.81         | 679,884.55        |  |
| 9,138.0      | 69.56      | 152.64               | 9,001.5       | 5,493.2         | -265.7        | 55.1          | 84.4             | 12.78               | 592,331.48         | 679,898.00        |  |
| 9,169.0      | 72.72      | 152.55               | 9,011.6       | 5,503.3         | -291.8        | 68.6          | 100.8            | 10.20               | 592,305.44         | 679,911.50        |  |
| 9,201.0      | 75.36      | 150.09               | 9,020.4       | 5,512.1         | -318.7        | 83.3          | 118.5            | 11.08               | 592,278.46         | 679,926.27        |  |
| 9,232.0      | 76.59      | 146.40               | 9,027.9       | 5,519.6         | -344.3        | 99.2          | 137.0            | 12.21               | 592,252.89         | 679,942.09        |  |
| 9,264.0      | 77.65      | 142.09               | 9,035.0       | 5,526.7         | -369.6        | 117.4         | 158.0            | 13.54               | 592,227.58         | 679,960.32        |  |
| 9,295.0      | 78.35      | 138.40               | 9,041.5       | 5,533.2         | -392.9        | 136.8         | 179.9            | 11.86               | 592,204.28         | 679,979.71        |  |
| 9,327.0      | 79.67      | 135.59               | 9,047.6       | 5,539.3         | -415.9        | 158.2         | 203.7            | 9.56                | 592,181.31         | 680,001.13        |  |
| 9,358.0      | 79.84      | 134.10               | 9,053.1       | 5,544.8         | -437.4        | 179.8         | 227.6            | 4.76                | 592,159.80         | 680,022.76        |  |
| 9,390.0      | 80.46      | 130.84               | 9,058.6       | 5,550.3         | -458.7        | 203.1         | 253.1            | 10.22               | 592,138.51         | 680,046.01        |  |
| 9,421.0      | 80.64      | 127.86               | 9,063.6       | 5,555.3         | -478.1        | 226.7         | 278.8            | 9.50                | 592,119.13         | 680,069.66        |  |
| 9,452.0      | 81.51      | 123.81               | 9,068.5       | 5,560.2         | -496.0        | 251.5         | 305.4            | 13.21               | 592,101.20         | 680,094.48        |  |
| 9,484.0      | 81.95      | 120.12               | 9,073.1       | 5,564.8         | -512.8        | 278.4         | 334.0            | 11.49               | 592,084.44         | 680,121.34        |  |
| 9,515.0      | 82.22      | 115.55               | 9,077.3       | 5,569.0         | -527.1        | 305.5         | 362.6            | 14.63               | 592,070.11         | 680,148.48        |  |
| 9,547.0      | 82.39      | 111.51               | 9,081.6       | 5,573.3         | -539.7        | 334.6         | 392.9            | 12.52               | 592,057.45         | 680,177.55        |  |
| 9,578.0      | 82.39      | 107.99               | 9,085.7       | 5,577.4         | -550.1        | 363.5         | 422.8            | 11.25               | 592,047.07         | 680,206.47        |  |
| 9,610.0      | 83.45      | 104.92               | 9,089.7       | 5,581.4         | -559.1        | 394.0         | 454.0            | 10.08               | 592,038.08         | 680,236.92        |  |
| 9,641.0      | 85.03      | 101.75               | 9,092.8       | 5,584.5         | -566.2        | 424.0         | 484.7            | 11.38               | 592,030.96         | 680,266.93        |  |
| 9,673.0      | 86.44      | 99.47                | 9,095.2       | 5,586.9         | -572.1        | 455.4         | 516.5            | 8.36                | 592,025.09         | 680,298.29        |  |
| 9,696.0      | 87.32      | 98.32                | 9,096.4       | 5,588.1         | -575.7        | 478.0         | 539.4            | 6.29                | 592,021.54         | 680,320.98        |  |
| 9,790.0      | 89.60      | 93.40                | 9,098.9       | 5,590.6         | -585.2        | 571.5         | 633.4            | 5.77                | 592,011.95         | 680,414.42        |  |
| 9,885.0      | 89.43      | 91.12                | 9,099.7       | 5,591.4         | -589.0        | 666.4         | 728.1            | 2.41                | 592,008.20         | 680,509.34        |  |
| 9,979.0      | 88.55      | 89.89                | 9,101.4       | 5,593.1         | -589.8        | 760.4         | 821.6            | 1.61                | 592,007.38         | 680,603.32        |  |



A Schlumberger Company

# Pathfinder

Pathfinder X&Y Report



|                  |                            |                                     |                                |
|------------------|----------------------------|-------------------------------------|--------------------------------|
| <b>Company:</b>  | Devon Energy, Inc.         | <b>Local Co-ordinate Reference:</b> | Well #4H                       |
| <b>Project:</b>  | Eddy County (NAD83)        | <b>TVD Reference:</b>               | KB = 26 @ 3508.3usft (H&P 300) |
| <b>Site:</b>     | Bellatrix "28" Federal Com | <b>MD Reference:</b>                | KB = 26 @ 3508.3usft (H&P 300) |
| <b>Well:</b>     | #4H                        | <b>North Reference:</b>             | Grid                           |
| <b>Wellbore:</b> | OH                         | <b>Survey Calculation Method:</b>   | Minimum Curvature              |
| <b>Design:</b>   | OH                         | <b>Database:</b>                    | EDM 5000.1 Single User Db      |

| Survey       |            |                      |               |                 |               |               |                  |                     |                     |                   |  |
|--------------|------------|----------------------|---------------|-----------------|---------------|---------------|------------------|---------------------|---------------------|-------------------|--|
| MD<br>(usft) | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | TVDSS<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | V. Sec<br>(usft) | DLeg<br>(°/100usft) | Northings<br>(usft) | Easting<br>(usft) |  |
| 10,074.0     | 90.40      | 89.45                | 9,102.3       | 5,594.0         | -589.3        | 855.4         | 915.9            | 2.00                | 592,007.92          | 680,698.31        |  |
| 10,168.0     | 90.66      | 88.22                | 9,101.4       | 5,593.1         | -587.4        | 949.3         | 1,009.1          | 1.34                | 592,009.83          | 680,792.28        |  |
| 10,262.0     | 90.31      | 87.25                | 9,100.6       | 5,592.3         | -583.7        | 1,043.3       | 1,102.0          | 1.10                | 592,013.55          | 680,886.20        |  |
| 10,357.0     | 89.25      | 87.69                | 9,101.0       | 5,592.7         | -579.5        | 1,138.2       | 1,195.8          | 1.21                | 592,017.74          | 680,981.11        |  |
| 10,452.0     | 88.64      | 88.83                | 9,102.7       | 5,594.4         | -576.6        | 1,233.1       | 1,289.9          | 1.36                | 592,020.63          | 681,076.04        |  |
| 10,546.0     | 89.25      | 89.89                | 9,104.5       | 5,596.2         | -575.5        | 1,327.1       | 1,383.1          | 1.30                | 592,021.68          | 681,170.02        |  |
| 10,640.0     | 89.87      | 91.12                | 9,105.2       | 5,596.9         | -576.4        | 1,421.1       | 1,476.6          | 1.47                | 592,020.85          | 681,264.01        |  |
| 10,735.0     | 90.13      | 91.47                | 9,105.2       | 5,596.9         | -578.5        | 1,516.0       | 1,571.2          | 0.46                | 592,018.70          | 681,358.99        |  |
| 10,829.0     | 90.22      | 90.50                | 9,104.9       | 5,596.6         | -580.1        | 1,610.0       | 1,664.8          | 1.04                | 592,017.09          | 681,452.97        |  |
| 10,923.0     | 93.39      | 89.98                | 9,101.9       | 5,593.6         | -580.5        | 1,704.0       | 1,758.2          | 3.42                | 592,016.69          | 681,546.91        |  |
| 11,018.0     | 91.54      | 89.89                | 9,097.8       | 5,589.5         | -580.4        | 1,798.9       | 1,852.5          | 1.95                | 592,016.80          | 681,641.82        |  |
| 11,112.0     | 91.28      | 89.36                | 9,095.5       | 5,587.2         | -579.8        | 1,892.8       | 1,945.8          | 0.63                | 592,017.41          | 681,735.79        |  |
| 11,206.0     | 90.84      | 90.06                | 9,093.8       | 5,585.5         | -579.3        | 1,986.8       | 2,039.2          | 0.88                | 592,017.89          | 681,829.77        |  |
| 11,301.0     | 90.13      | 89.98                | 9,093.0       | 5,584.7         | -579.3        | 2,081.8       | 2,133.6          | 0.75                | 592,017.86          | 681,924.77        |  |
| 11,395.0     | 90.57      | 90.77                | 9,092.4       | 5,584.1         | -580.0        | 2,175.8       | 2,227.0          | 0.96                | 592,017.24          | 682,018.76        |  |
| 11,490.0     | 90.31      | 91.12                | 9,091.7       | 5,583.4         | -581.5        | 2,270.8       | 2,321.6          | 0.46                | 592,015.67          | 682,113.75        |  |
| 11,584.0     | 90.66      | 90.41                | 9,090.9       | 5,582.6         | -582.8        | 2,364.8       | 2,415.1          | 0.84                | 592,014.42          | 682,207.73        |  |
| 11,679.0     | 90.66      | 89.54                | 9,089.8       | 5,581.5         | -582.7        | 2,459.8       | 2,509.5          | 0.92                | 592,014.46          | 682,302.73        |  |
| 11,773.0     | 90.31      | 89.01                | 9,089.0       | 5,580.7         | -581.5        | 2,553.8       | 2,602.8          | 0.68                | 592,015.65          | 682,396.72        |  |
| 11,867.0     | 89.87      | 88.22                | 9,088.8       | 5,580.5         | -579.3        | 2,647.7       | 2,695.9          | 0.96                | 592,017.92          | 682,490.69        |  |
| 11,962.0     | 89.60      | 88.04                | 9,089.3       | 5,581.0         | -576.2        | 2,742.7       | 2,789.9          | 0.34                | 592,021.02          | 682,585.64        |  |
| 12,056.0     | 88.99      | 87.69                | 9,090.4       | 5,582.1         | -572.7        | 2,836.6       | 2,882.9          | 0.75                | 592,024.52          | 682,679.56        |  |
| 12,150.0     | 89.08      | 88.47                | 9,092.0       | 5,583.7         | -569.5        | 2,930.6       | 2,975.9          | 0.84                | 592,027.67          | 682,773.50        |  |
| 12,245.0     | 89.08      | 88.43                | 9,093.6       | 5,585.3         | -567.0        | 3,025.5       | 3,069.9          | 0.04                | 592,030.24          | 682,868.45        |  |
| 12,339.0     | 88.99      | 88.78                | 9,095.1       | 5,586.8         | -564.7        | 3,119.5       | 3,163.1          | 0.38                | 592,032.53          | 682,962.41        |  |
| 12,434.0     | 89.52      | 89.19                | 9,096.4       | 5,588.1         | -563.0        | 3,214.4       | 3,257.2          | 0.71                | 592,034.21          | 683,057.38        |  |



A Schlumberger Company

**Pathfinder**  
Pathfinder X&Y Report



|                  |                            |                                     |                                |
|------------------|----------------------------|-------------------------------------|--------------------------------|
| <b>Company:</b>  | Devon Energy, Inc.         | <b>Local Co-ordinate Reference:</b> | Well #4H                       |
| <b>Project:</b>  | Eddy County (NAD83)        | <b>TVD Reference:</b>               | KB = 26 @ 3508.3usft (H&P 300) |
| <b>Site:</b>     | Bellatrix "28" Federal Com | <b>MD Reference:</b>                | KB = 26 @ 3508.3usft (H&P 300) |
| <b>Well:</b>     | #4H                        | <b>North Reference:</b>             | Grid                           |
| <b>Wellbore:</b> | OH                         | <b>Survey Calculation Method:</b>   | Minimum Curvature              |
| <b>Design:</b>   | OH                         | <b>Database:</b>                    | EDM 5000.1 Single User Db      |

| Survey                 |            |                      |               |                 |               |               |                  |                     |                    |                   |  |
|------------------------|------------|----------------------|---------------|-----------------|---------------|---------------|------------------|---------------------|--------------------|-------------------|--|
| MD<br>(usft)           | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | TVDSS<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | V. Sec<br>(usft) | DLeg<br>(°/100usft) | Northing<br>(usft) | Easting<br>(usft) |  |
| 12,473.7               | 90.15      | 89.79                | 9,096.5       | 5,588.2         | -562.6        | 3,254.2       | 3,296.7          | 2.18                | 592,034.57         | 683,097.11        |  |
| Mid-Pt (Bellatrix #4H) |            |                      |               |                 |               |               |                  |                     |                    |                   |  |
| 12,528.0               | 91.01      | 90.60                | 9,095.9       | 5,587.6         | -562.8        | 3,308.4       | 3,350.6          | 2.18                | 592,034.39         | 683,151.38        |  |
| 12,623.0               | 91.28      | 91.91                | 9,094.0       | 5,585.7         | -564.9        | 3,403.4       | 3,445.2          | 1.41                | 592,032.31         | 683,246.33        |  |
| 12,717.0               | 91.01      | 92.44                | 9,092.2       | 5,583.9         | -568.5        | 3,497.3       | 3,538.9          | 0.63                | 592,028.74         | 683,340.25        |  |
| 12,811.0               | 90.40      | 92.26                | 9,091.0       | 5,582.7         | -572.3        | 3,591.2       | 3,632.7          | 0.68                | 592,024.88         | 683,434.16        |  |
| 12,906.0               | 89.78      | 92.08                | 9,090.9       | 5,582.6         | -575.9        | 3,686.2       | 3,727.4          | 0.68                | 592,021.29         | 683,529.09        |  |
| 13,000.0               | 89.52      | 92.17                | 9,091.4       | 5,583.1         | -579.4        | 3,780.1       | 3,821.2          | 0.29                | 592,017.80         | 683,623.03        |  |
| 13,095.0               | 88.99      | 92.26                | 9,092.7       | 5,584.4         | -583.1        | 3,875.0       | 3,915.9          | 0.57                | 592,014.13         | 683,717.95        |  |
| 13,189.0               | 90.04      | 91.12                | 9,093.5       | 5,585.2         | -585.8        | 3,969.0       | 4,009.6          | 1.65                | 592,011.36         | 683,811.90        |  |
| 13,284.0               | 91.19      | 90.85                | 9,092.4       | 5,584.1         | -587.5        | 4,063.9       | 4,104.1          | 1.24                | 592,009.73         | 683,906.88        |  |
| 13,378.0               | 91.71      | 91.21                | 9,090.1       | 5,581.8         | -589.2        | 4,157.9       | 4,197.7          | 0.67                | 592,008.04         | 684,000.83        |  |
| 13,473.0               | 91.10      | 91.29                | 9,087.7       | 5,579.4         | -591.2        | 4,252.8       | 4,292.3          | 0.65                | 592,005.96         | 684,095.78        |  |
| 13,567.0               | 90.40      | 91.12                | 9,086.5       | 5,578.2         | -593.2        | 4,346.8       | 4,385.9          | 0.77                | 592,003.99         | 684,189.75        |  |
| PBHL (Bellatrix #4H)   |            |                      |               |                 |               |               |                  |                     |                    |                   |  |

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_