

# **WESTERN DIVISION**

**PBNM**

**Dzurisin**

**Thistle Unit 152H**

**Wellbore #1**

**Plan: Plan 1**

**HOBBS OCD**  
**FEB 09 2017**  
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## **Standard Planning Report**

**01 August, 2016**

# Devon Energy

## Planning Report

Database: EDM r5000 US Production  
 Company: WESTERN DIVISION  
 Project: PBNM  
 Site: Dzurisin  
 Well: Thistle Unit 152H  
 Wellbore: Wellbore #1  
 Design: Plan 1

Local Co-ordinate Reference: Well Thistle Unit 152H  
 TVD Reference: 1 @ 3685.00ft  
 MD Reference: 1 @ 3685.00ft  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature

|             |                |               |                |
|-------------|----------------|---------------|----------------|
| Project     | PBNM           |               |                |
| Map System: | Flat Earth     | System Datum: | Mean Sea Level |
| Geo Datum:  | WGS 1984       |               |                |
| Map Zone:   | No Conversions |               |                |

|                       |          |              |                 |                   |          |
|-----------------------|----------|--------------|-----------------|-------------------|----------|
| Site                  | Dzurisin |              |                 |                   |          |
| Site Position:        |          | Northing:    | 429,922.27 usft | Latitude:         | 0.000000 |
| From:                 | Map      | Easting:     | 725,391.41 usft | Longitude:        | 0.000000 |
| Position Uncertainty: | 0.00 ft  | Slot Radius: | 13-3/16 "       | Grid Convergence: |          |

|                      |                   |              |                     |                 |               |             |
|----------------------|-------------------|--------------|---------------------|-----------------|---------------|-------------|
| Well                 | Thistle Unit 152H |              |                     |                 |               |             |
| Well Position        | +N-S              | 27,337.71 ft | Northing:           | 457,259.92 usft | Latitude:     | 0.000000    |
|                      | +E-W              | 48,261.23 ft | Easting:            | 773,652.54 usft | Longitude:    | 0.000000    |
| Position Uncertainty | 0.00 ft           |              | Wellhead Elevation: | 0.00 ft         | Ground Level: | 3,661.50 ft |

|           |              |             |             |           |                |
|-----------|--------------|-------------|-------------|-----------|----------------|
| Wellbore  | Wellbore #1  |             |             |           |                |
| Magnetics | Model Name   | Sample Date | Declination | Dip Angle | Field Strength |
|           |              |             | (°)         | (°)       | (nT)           |
|           | User Defined | 7/28/2016   | 0.00        | 0.00      | 0              |

|                   |                  |           |               |           |
|-------------------|------------------|-----------|---------------|-----------|
| Design            | Plan 1           |           |               |           |
| Audit Notes:      |                  |           |               |           |
| Version:          | Phase:           | PROTOTYPE | Tie On Depth: | 0.00      |
| Vertical Section: | Depth From (TVD) | +N/-S     | +E/-W         | Direction |
|                   | (ft)             | (ft)      | (ft)          | (°)       |
|                   | 0.00             | 0.00      | 0.00          | 354.68    |

| Plan Sections  |             |         |                |          |         |             |             |             |         |                       |
|----------------|-------------|---------|----------------|----------|---------|-------------|-------------|-------------|---------|-----------------------|
| Measured Depth | Inclination | Azimuth | Vertical Depth | +N/-S    | +E/-W   | Dogleg Rate | Build Rate  | Turn Rate   | TFO     | Target                |
| (ft)           | (°)         | (°)     | (ft)           | (ft)     | (ft)    | (°/100usft) | (°/100usft) | (°/100usft) | (°)     |                       |
| 0.00           | 0.00        | 0.00    | 0.00           | 0.00     | 0.00    | 0.00        | 0.00        | 0.00        | 0.00    |                       |
| 2,000.00       | 0.00        | 0.00    | 2,000.00       | 0.00     | 0.00    | 0.00        | 0.00        | 0.00        | 0.00    |                       |
| 2,700.00       | 7.00        | 270.00  | 2,698.26       | 0.00     | -42.71  | 1.00        | 1.00        | 0.00        | 270.00  |                       |
| 8,500.00       | 7.00        | 270.00  | 8,455.03       | 0.00     | -749.55 | 0.00        | 0.00        | 0.00        | 0.00    |                       |
| 9,500.00       | 0.00        | 0.00    | 9,452.54       | 0.00     | -810.56 | 0.70        | -0.70       | 0.00        | 180.00  |                       |
| 9,605.00       | 0.00        | 0.00    | 9,557.54       | 0.00     | -810.56 | 0.00        | 0.00        | 0.00        | 0.00    |                       |
| 10,358.84      | 90.46       | 359.36  | 10,034.99      | 481.27   | -815.96 | 12.00       | 12.00       | 0.00        | 359.36  | Thistle Unit 152H BHI |
| 10,392.08      | 90.46       | 359.36  | 10,034.73      | 514.51   | -816.34 | 0.01        | -0.01       | 0.00        | -179.85 |                       |
| 19,720.15      | 90.46       | 359.36  | 9,960.38       | 9,841.70 | -921.07 | 0.00        | 0.00        | 0.00        | 0.00    |                       |
| 19,767.36      | 90.46       | 359.36  | 9,960.00       | 9,888.90 | -921.60 | 0.01        | 0.01        | 0.01        | 45.23   | Thistle Unit 152H BHI |

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 Design: Plan 1

Local Co-ordinate Reference: Well Thistle Unit 152H  
 TVD Reference: 1 @ 3685.00ft  
 MD Reference: 1 @ 3685.00ft  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature

### Planned Survey

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-------------------------|------------------------|-----------------------|
| 0.00                | 0.00            | 0.00        | 0.00                | 0.00       | 0.00       | 0.00                  | 0.00                    | 0.00                   | 0.00                  |
| 100.00              | 0.00            | 0.00        | 100.00              | 0.00       | 0.00       | 0.00                  | 0.00                    | 0.00                   | 0.00                  |
| 200.00              | 0.00            | 0.00        | 200.00              | 0.00       | 0.00       | 0.00                  | 0.00                    | 0.00                   | 0.00                  |
| 300.00              | 0.00            | 0.00        | 300.00              | 0.00       | 0.00       | 0.00                  | 0.00                    | 0.00                   | 0.00                  |
| 400.00              | 0.00            | 0.00        | 400.00              | 0.00       | 0.00       | 0.00                  | 0.00                    | 0.00                   | 0.00                  |
| 500.00              | 0.00            | 0.00        | 500.00              | 0.00       | 0.00       | 0.00                  | 0.00                    | 0.00                   | 0.00                  |
| 600.00              | 0.00            | 0.00        | 600.00              | 0.00       | 0.00       | 0.00                  | 0.00                    | 0.00                   | 0.00                  |
| 700.00              | 0.00            | 0.00        | 700.00              | 0.00       | 0.00       | 0.00                  | 0.00                    | 0.00                   | 0.00                  |
| 800.00              | 0.00            | 0.00        | 800.00              | 0.00       | 0.00       | 0.00                  | 0.00                    | 0.00                   | 0.00                  |
| 900.00              | 0.00            | 0.00        | 900.00              | 0.00       | 0.00       | 0.00                  | 0.00                    | 0.00                   | 0.00                  |
| 1,000.00            | 0.00            | 0.00        | 1,000.00            | 0.00       | 0.00       | 0.00                  | 0.00                    | 0.00                   | 0.00                  |
| 1,100.00            | 0.00            | 0.00        | 1,100.00            | 0.00       | 0.00       | 0.00                  | 0.00                    | 0.00                   | 0.00                  |
| 1,200.00            | 0.00            | 0.00        | 1,200.00            | 0.00       | 0.00       | 0.00                  | 0.00                    | 0.00                   | 0.00                  |
| 1,300.00            | 0.00            | 0.00        | 1,300.00            | 0.00       | 0.00       | 0.00                  | 0.00                    | 0.00                   | 0.00                  |
| 1,400.00            | 0.00            | 0.00        | 1,400.00            | 0.00       | 0.00       | 0.00                  | 0.00                    | 0.00                   | 0.00                  |
| 1,500.00            | 0.00            | 0.00        | 1,500.00            | 0.00       | 0.00       | 0.00                  | 0.00                    | 0.00                   | 0.00                  |
| 1,600.00            | 0.00            | 0.00        | 1,600.00            | 0.00       | 0.00       | 0.00                  | 0.00                    | 0.00                   | 0.00                  |
| 1,700.00            | 0.00            | 0.00        | 1,700.00            | 0.00       | 0.00       | 0.00                  | 0.00                    | 0.00                   | 0.00                  |
| 1,800.00            | 0.00            | 0.00        | 1,800.00            | 0.00       | 0.00       | 0.00                  | 0.00                    | 0.00                   | 0.00                  |
| 1,900.00            | 0.00            | 0.00        | 1,900.00            | 0.00       | 0.00       | 0.00                  | 0.00                    | 0.00                   | 0.00                  |
| 2,000.00            | 0.00            | 0.00        | 2,000.00            | 0.00       | 0.00       | 0.00                  | 0.00                    | 0.00                   | 0.00                  |
| 2,100.00            | 1.00            | 270.00      | 2,099.99            | 0.00       | -0.87      | 0.08                  | 1.00                    | 1.00                   | 0.00                  |
| 2,200.00            | 2.00            | 270.00      | 2,199.96            | 0.00       | -3.49      | 0.32                  | 1.00                    | 1.00                   | 0.00                  |
| 2,300.00            | 3.00            | 270.00      | 2,299.86            | 0.00       | -7.85      | 0.73                  | 1.00                    | 1.00                   | 0.00                  |
| 2,400.00            | 4.00            | 270.00      | 2,399.68            | 0.00       | -13.96     | 1.30                  | 1.00                    | 1.00                   | 0.00                  |
| 2,500.00            | 5.00            | 270.00      | 2,499.37            | 0.00       | -21.80     | 2.02                  | 1.00                    | 1.00                   | 0.00                  |
| 2,600.00            | 6.00            | 270.00      | 2,598.90            | 0.00       | -31.39     | 2.91                  | 1.00                    | 1.00                   | 0.00                  |
| 2,700.00            | 7.00            | 270.00      | 2,698.26            | 0.00       | -42.71     | 3.96                  | 1.00                    | 1.00                   | 0.00                  |
| 2,800.00            | 7.00            | 270.00      | 2,797.51            | 0.00       | -54.89     | 5.09                  | 0.00                    | 0.00                   | 0.00                  |
| 2,900.00            | 7.00            | 270.00      | 2,896.77            | 0.00       | -67.08     | 6.22                  | 0.00                    | 0.00                   | 0.00                  |
| 3,000.00            | 7.00            | 270.00      | 2,996.02            | 0.00       | -79.27     | 7.36                  | 0.00                    | 0.00                   | 0.00                  |
| 3,100.00            | 7.00            | 270.00      | 3,095.28            | 0.00       | -91.46     | 8.49                  | 0.00                    | 0.00                   | 0.00                  |
| 3,200.00            | 7.00            | 270.00      | 3,194.53            | 0.00       | -103.64    | 9.62                  | 0.00                    | 0.00                   | 0.00                  |
| 3,300.00            | 7.00            | 270.00      | 3,293.79            | 0.00       | -115.83    | 10.75                 | 0.00                    | 0.00                   | 0.00                  |
| 3,400.00            | 7.00            | 270.00      | 3,393.04            | 0.00       | -128.02    | 11.88                 | 0.00                    | 0.00                   | 0.00                  |
| 3,500.00            | 7.00            | 270.00      | 3,492.30            | 0.00       | -140.20    | 13.01                 | 0.00                    | 0.00                   | 0.00                  |
| 3,600.00            | 7.00            | 270.00      | 3,591.55            | 0.00       | -152.39    | 14.14                 | 0.00                    | 0.00                   | 0.00                  |
| 3,700.00            | 7.00            | 270.00      | 3,690.81            | 0.00       | -164.58    | 15.27                 | 0.00                    | 0.00                   | 0.00                  |
| 3,800.00            | 7.00            | 270.00      | 3,790.06            | 0.00       | -176.76    | 16.40                 | 0.00                    | 0.00                   | 0.00                  |
| 3,900.00            | 7.00            | 270.00      | 3,889.32            | 0.00       | -188.95    | 17.53                 | 0.00                    | 0.00                   | 0.00                  |
| 4,000.00            | 7.00            | 270.00      | 3,988.57            | 0.00       | -201.14    | 18.66                 | 0.00                    | 0.00                   | 0.00                  |
| 4,100.00            | 7.00            | 270.00      | 4,087.82            | 0.00       | -213.32    | 19.80                 | 0.00                    | 0.00                   | 0.00                  |
| 4,200.00            | 7.00            | 270.00      | 4,187.08            | 0.00       | -225.51    | 20.93                 | 0.00                    | 0.00                   | 0.00                  |
| 4,300.00            | 7.00            | 270.00      | 4,286.33            | 0.00       | -237.70    | 22.06                 | 0.00                    | 0.00                   | 0.00                  |
| 4,400.00            | 7.00            | 270.00      | 4,385.59            | 0.00       | -249.89    | 23.19                 | 0.00                    | 0.00                   | 0.00                  |
| 4,500.00            | 7.00            | 270.00      | 4,484.84            | 0.00       | -262.07    | 24.32                 | 0.00                    | 0.00                   | 0.00                  |
| 4,600.00            | 7.00            | 270.00      | 4,584.10            | 0.00       | -274.26    | 25.45                 | 0.00                    | 0.00                   | 0.00                  |
| 4,700.00            | 7.00            | 270.00      | 4,683.35            | 0.00       | -286.45    | 26.58                 | 0.00                    | 0.00                   | 0.00                  |
| 4,800.00            | 7.00            | 270.00      | 4,782.61            | 0.00       | -298.63    | 27.71                 | 0.00                    | 0.00                   | 0.00                  |
| 4,900.00            | 7.00            | 270.00      | 4,881.86            | 0.00       | -310.82    | 28.84                 | 0.00                    | 0.00                   | 0.00                  |
| 5,000.00            | 7.00            | 270.00      | 4,981.12            | 0.00       | -323.01    | 29.97                 | 0.00                    | 0.00                   | 0.00                  |
| 5,100.00            | 7.00            | 270.00      | 5,080.37            | 0.00       | -335.19    | 31.10                 | 0.00                    | 0.00                   | 0.00                  |
| 5,200.00            | 7.00            | 270.00      | 5,179.63            | 0.00       | -347.38    | 32.23                 | 0.00                    | 0.00                   | 0.00                  |
| 5,300.00            | 7.00            | 270.00      | 5,278.88            | 0.00       | -359.57    | 33.37                 | 0.00                    | 0.00                   | 0.00                  |

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 Survey Calculation Method: Minimum Curvature

### Planned Survey

| Measured<br>Depth<br>(ft) | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(ft) | +N/-S<br>(ft) | +E/-W<br>(ft) | Vertical<br>Section<br>(ft) | Dogleg<br>Rate<br>(°/100usft) | Build<br>Rate<br>(°/100usft) | Turn<br>Rate<br>(°/100usft) |
|---------------------------|--------------------|----------------|---------------------------|---------------|---------------|-----------------------------|-------------------------------|------------------------------|-----------------------------|
| 5,400.00                  | 7.00               | 270.00         | 5,378.13                  | 0.00          | -371.75       | 34.50                       | 0.00                          | 0.00                         | 0.00                        |
| 5,500.00                  | 7.00               | 270.00         | 5,477.39                  | 0.00          | -383.94       | 35.63                       | 0.00                          | 0.00                         | 0.00                        |
| 5,600.00                  | 7.00               | 270.00         | 5,576.64                  | 0.00          | -396.13       | 36.76                       | 0.00                          | 0.00                         | 0.00                        |
| 5,700.00                  | 7.00               | 270.00         | 5,675.90                  | 0.00          | -408.32       | 37.89                       | 0.00                          | 0.00                         | 0.00                        |
| 5,800.00                  | 7.00               | 270.00         | 5,775.15                  | 0.00          | -420.50       | 39.02                       | 0.00                          | 0.00                         | 0.00                        |
| 5,900.00                  | 7.00               | 270.00         | 5,874.41                  | 0.00          | -432.69       | 40.15                       | 0.00                          | 0.00                         | 0.00                        |
| 6,000.00                  | 7.00               | 270.00         | 5,973.66                  | 0.00          | -444.88       | 41.28                       | 0.00                          | 0.00                         | 0.00                        |
| 6,100.00                  | 7.00               | 270.00         | 6,072.92                  | 0.00          | -457.06       | 42.41                       | 0.00                          | 0.00                         | 0.00                        |
| 6,200.00                  | 7.00               | 270.00         | 6,172.17                  | 0.00          | -469.25       | 43.54                       | 0.00                          | 0.00                         | 0.00                        |
| 6,300.00                  | 7.00               | 270.00         | 6,271.43                  | 0.00          | -481.44       | 44.67                       | 0.00                          | 0.00                         | 0.00                        |
| 6,400.00                  | 7.00               | 270.00         | 6,370.68                  | 0.00          | -493.62       | 45.81                       | 0.00                          | 0.00                         | 0.00                        |
| 6,500.00                  | 7.00               | 270.00         | 6,469.94                  | 0.00          | -505.81       | 46.94                       | 0.00                          | 0.00                         | 0.00                        |
| 6,600.00                  | 7.00               | 270.00         | 6,569.19                  | 0.00          | -518.00       | 48.07                       | 0.00                          | 0.00                         | 0.00                        |
| 6,700.00                  | 7.00               | 270.00         | 6,668.44                  | 0.00          | -530.18       | 49.20                       | 0.00                          | 0.00                         | 0.00                        |
| 6,800.00                  | 7.00               | 270.00         | 6,767.70                  | 0.00          | -542.37       | 50.33                       | 0.00                          | 0.00                         | 0.00                        |
| 6,900.00                  | 7.00               | 270.00         | 6,866.95                  | 0.00          | -554.56       | 51.46                       | 0.00                          | 0.00                         | 0.00                        |
| 7,000.00                  | 7.00               | 270.00         | 6,966.21                  | 0.00          | -566.75       | 52.59                       | 0.00                          | 0.00                         | 0.00                        |
| 7,100.00                  | 7.00               | 270.00         | 7,065.46                  | 0.00          | -578.93       | 53.72                       | 0.00                          | 0.00                         | 0.00                        |
| 7,200.00                  | 7.00               | 270.00         | 7,164.72                  | 0.00          | -591.12       | 54.85                       | 0.00                          | 0.00                         | 0.00                        |
| 7,300.00                  | 7.00               | 270.00         | 7,263.97                  | 0.00          | -603.31       | 55.98                       | 0.00                          | 0.00                         | 0.00                        |
| 7,400.00                  | 7.00               | 270.00         | 7,363.23                  | 0.00          | -615.49       | 57.11                       | 0.00                          | 0.00                         | 0.00                        |
| 7,500.00                  | 7.00               | 270.00         | 7,462.48                  | 0.00          | -627.68       | 58.24                       | 0.00                          | 0.00                         | 0.00                        |
| 7,600.00                  | 7.00               | 270.00         | 7,561.74                  | 0.00          | -639.87       | 59.38                       | 0.00                          | 0.00                         | 0.00                        |
| 7,700.00                  | 7.00               | 270.00         | 7,660.99                  | 0.00          | -652.05       | 60.51                       | 0.00                          | 0.00                         | 0.00                        |
| 7,800.00                  | 7.00               | 270.00         | 7,760.25                  | 0.00          | -664.24       | 61.64                       | 0.00                          | 0.00                         | 0.00                        |
| 7,900.00                  | 7.00               | 270.00         | 7,859.50                  | 0.00          | -676.43       | 62.77                       | 0.00                          | 0.00                         | 0.00                        |
| 8,000.00                  | 7.00               | 270.00         | 7,958.75                  | 0.00          | -688.61       | 63.90                       | 0.00                          | 0.00                         | 0.00                        |
| 8,100.00                  | 7.00               | 270.00         | 8,058.01                  | 0.00          | -700.80       | 65.03                       | 0.00                          | 0.00                         | 0.00                        |
| 8,200.00                  | 7.00               | 270.00         | 8,157.26                  | 0.00          | -712.99       | 66.16                       | 0.00                          | 0.00                         | 0.00                        |
| 8,300.00                  | 7.00               | 270.00         | 8,256.52                  | 0.00          | -725.18       | 67.29                       | 0.00                          | 0.00                         | 0.00                        |
| 8,400.00                  | 7.00               | 270.00         | 8,355.77                  | 0.00          | -737.36       | 68.42                       | 0.00                          | 0.00                         | 0.00                        |
| 8,500.00                  | 7.00               | 270.00         | 8,455.03                  | 0.00          | -749.55       | 69.55                       | 0.00                          | 0.00                         | 0.00                        |
| 8,600.00                  | 6.30               | 270.00         | 8,554.35                  | 0.00          | -761.13       | 70.63                       | 0.70                          | -0.70                        | 0.00                        |
| 8,700.00                  | 5.60               | 270.00         | 8,653.82                  | 0.00          | -771.50       | 71.59                       | 0.70                          | -0.70                        | 0.00                        |
| 8,800.00                  | 4.90               | 270.00         | 8,753.39                  | 0.00          | -780.65       | 72.44                       | 0.70                          | -0.70                        | 0.00                        |
| 8,900.00                  | 4.20               | 270.00         | 8,853.08                  | 0.00          | -788.58       | 73.17                       | 0.70                          | -0.70                        | 0.00                        |
| 9,000.00                  | 3.50               | 270.00         | 8,952.85                  | 0.00          | -795.29       | 73.80                       | 0.70                          | -0.70                        | 0.00                        |
| 9,100.00                  | 2.80               | 270.00         | 9,052.70                  | 0.00          | -800.79       | 74.31                       | 0.70                          | -0.70                        | 0.00                        |
| 9,200.00                  | 2.10               | 270.00         | 9,152.61                  | 0.00          | -805.06       | 74.70                       | 0.70                          | -0.70                        | 0.00                        |
| 9,300.00                  | 1.40               | 270.00         | 9,252.56                  | 0.00          | -808.12       | 74.99                       | 0.70                          | -0.70                        | 0.00                        |
| 9,400.00                  | 0.70               | 270.00         | 9,352.54                  | 0.00          | -809.95       | 75.16                       | 0.70                          | -0.70                        | 0.00                        |
| 9,500.00                  | 0.00               | 0.00           | 9,452.54                  | 0.00          | -810.56       | 75.21                       | 0.70                          | -0.70                        | 0.00                        |
| 9,605.00                  | 0.00               | 0.00           | 9,557.54                  | 0.00          | -810.56       | 75.21                       | 0.00                          | 0.00                         | 0.00                        |
| 9,625.00                  | 2.40               | 359.36         | 9,577.54                  | 0.42          | -810.56       | 75.63                       | 12.00                         | 12.00                        | 0.00                        |
| 9,650.00                  | 5.40               | 359.36         | 9,602.48                  | 2.12          | -810.58       | 77.33                       | 12.00                         | 12.00                        | 0.00                        |
| 9,675.00                  | 8.40               | 359.36         | 9,627.29                  | 5.12          | -810.62       | 80.32                       | 12.00                         | 12.00                        | 0.00                        |
| 9,700.00                  | 11.40              | 359.36         | 9,651.92                  | 9.42          | -810.67       | 84.60                       | 12.00                         | 12.00                        | 0.00                        |
| 9,725.00                  | 14.40              | 359.36         | 9,676.28                  | 15.00         | -810.73       | 90.17                       | 12.00                         | 12.00                        | 0.00                        |
| 9,750.00                  | 17.40              | 359.36         | 9,700.32                  | 21.85         | -810.81       | 96.99                       | 12.00                         | 12.00                        | 0.00                        |
| 9,775.00                  | 20.40              | 359.36         | 9,723.97                  | 29.94         | -810.90       | 105.06                      | 12.00                         | 12.00                        | 0.00                        |
| 9,800.00                  | 23.40              | 359.36         | 9,747.17                  | 39.27         | -811.00       | 114.35                      | 12.00                         | 12.00                        | 0.00                        |
| 9,825.00                  | 26.40              | 359.36         | 9,769.84                  | 49.79         | -811.12       | 124.84                      | 12.00                         | 12.00                        | 0.00                        |
| 9,850.00                  | 29.40              | 359.36         | 9,791.93                  | 61.49         | -811.25       | 136.50                      | 12.00                         | 12.00                        | 0.00                        |
| 9,875.00                  | 32.40              | 359.36         | 9,813.38                  | 74.32         | -811.39       | 149.29                      | 12.00                         | 12.00                        | 0.00                        |

# Devon Energy

## Planning Report

Database: EDM r5000 US Production  
Company: WESTERN DIVISION  
Project: PBNM  
Site: Dzurisin  
Well: Thistle Unit 152H  
Wellbore: Wellbore #1  
Design: Plan 1

Local Co-ordinate Reference: Well Thistle Unit 152H  
TVD Reference: 1 @ 3685.00ft  
MD Reference: 1 @ 3685.00ft  
North Reference: Grid  
Survey Calculation Method: Minimum Curvature

### Planned Survey

| Measured<br>Depth<br>(ft) | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(ft) | +N/-S<br>(ft) | +E/-W<br>(ft) | Vertical<br>Section<br>(ft) | Dogleg<br>Rate<br>(°/100usft) | Build<br>Rate<br>(°/100usft) | Turn<br>Rate<br>(°/100usft) |
|---------------------------|--------------------|----------------|---------------------------|---------------|---------------|-----------------------------|-------------------------------|------------------------------|-----------------------------|
| 9,900.00                  | 35.40              | 359.36         | 9,834.13                  | 88.26         | -811.55       | 163.19                      | 12.00                         | 12.00                        | 0.00                        |
| 9,925.00                  | 38.40              | 359.36         | 9,854.12                  | 103.27        | -811.72       | 178.15                      | 12.00                         | 12.00                        | 0.00                        |
| 9,950.00                  | 41.40              | 359.36         | 9,873.30                  | 119.31        | -811.90       | 194.13                      | 12.00                         | 12.00                        | 0.00                        |
| 9,975.00                  | 44.40              | 359.36         | 9,891.61                  | 136.32        | -812.09       | 211.09                      | 12.00                         | 12.00                        | 0.00                        |
| 10,000.00                 | 47.40              | 359.36         | 9,909.00                  | 154.27        | -812.29       | 228.98                      | 12.00                         | 12.00                        | 0.00                        |
| 10,025.00                 | 50.40              | 359.36         | 9,925.44                  | 173.11        | -812.50       | 247.75                      | 12.00                         | 12.00                        | 0.00                        |
| 10,050.00                 | 53.40              | 359.36         | 9,940.86                  | 192.78        | -812.72       | 267.36                      | 12.00                         | 12.00                        | 0.00                        |
| 10,075.00                 | 56.40              | 359.36         | 9,955.23                  | 213.23        | -812.95       | 287.74                      | 12.00                         | 12.00                        | 0.00                        |
| 10,100.00                 | 59.40              | 359.36         | 9,968.52                  | 234.40        | -813.19       | 308.85                      | 12.00                         | 12.00                        | 0.00                        |
| 10,125.00                 | 62.40              | 359.36         | 9,980.67                  | 256.24        | -813.44       | 330.62                      | 12.00                         | 12.00                        | 0.00                        |
| 10,150.00                 | 65.40              | 359.36         | 9,991.67                  | 278.69        | -813.69       | 352.99                      | 12.00                         | 12.00                        | 0.00                        |
| 10,175.00                 | 68.40              | 359.36         | 10,001.48                 | 301.68        | -813.95       | 375.91                      | 12.00                         | 12.00                        | 0.00                        |
| 10,200.00                 | 71.40              | 359.36         | 10,010.07                 | 325.15        | -814.21       | 399.30                      | 12.00                         | 12.00                        | 0.00                        |
| 10,225.00                 | 74.40              | 359.36         | 10,017.42                 | 349.04        | -814.48       | 423.11                      | 12.00                         | 12.00                        | 0.00                        |
| 10,250.00                 | 77.40              | 359.36         | 10,023.51                 | 373.29        | -814.75       | 447.28                      | 12.00                         | 12.00                        | 0.00                        |
| 10,275.00                 | 80.40              | 359.36         | 10,028.32                 | 397.81        | -815.03       | 471.73                      | 12.00                         | 12.00                        | 0.00                        |
| 10,300.00                 | 83.40              | 359.36         | 10,031.84                 | 422.56        | -815.31       | 496.39                      | 12.00                         | 12.00                        | 0.00                        |
| 10,325.00                 | 86.40              | 359.36         | 10,034.07                 | 447.46        | -815.58       | 521.21                      | 12.00                         | 12.00                        | 0.00                        |
| 10,350.00                 | 89.40              | 359.36         | 10,034.98                 | 472.43        | -815.87       | 546.10                      | 12.00                         | 12.00                        | 0.00                        |
| 10,358.84                 | 90.46              | 359.36         | 10,034.99                 | 481.27        | -815.96       | 554.91                      | 12.00                         | 12.00                        | 0.00                        |
| 10,392.08                 | 90.46              | 359.36         | 10,034.73                 | 514.51        | -816.34       | 588.04                      | 0.01                          | -0.01                        | 0.00                        |
| 10,400.00                 | 90.46              | 359.36         | 10,034.66                 | 522.43        | -816.43       | 595.93                      | 0.00                          | 0.00                         | 0.00                        |
| 10,500.00                 | 90.46              | 359.36         | 10,033.87                 | 622.42        | -817.55       | 695.60                      | 0.00                          | 0.00                         | 0.00                        |
| 10,600.00                 | 90.46              | 359.36         | 10,033.07                 | 722.41        | -818.67       | 795.26                      | 0.00                          | 0.00                         | 0.00                        |
| 10,700.00                 | 90.46              | 359.36         | 10,032.27                 | 822.40        | -819.79       | 894.92                      | 0.00                          | 0.00                         | 0.00                        |
| 10,800.00                 | 90.46              | 359.36         | 10,031.48                 | 922.39        | -820.92       | 994.59                      | 0.00                          | 0.00                         | 0.00                        |
| 10,900.00                 | 90.46              | 359.36         | 10,030.68                 | 1,022.38      | -822.04       | 1,094.25                    | 0.00                          | 0.00                         | 0.00                        |
| 11,000.00                 | 90.46              | 359.36         | 10,029.88                 | 1,122.37      | -823.16       | 1,193.91                    | 0.00                          | 0.00                         | 0.00                        |
| 11,100.00                 | 90.46              | 359.36         | 10,029.08                 | 1,222.36      | -824.29       | 1,293.58                    | 0.00                          | 0.00                         | 0.00                        |
| 11,200.00                 | 90.46              | 359.36         | 10,028.29                 | 1,322.35      | -825.41       | 1,393.24                    | 0.00                          | 0.00                         | 0.00                        |
| 11,300.00                 | 90.46              | 359.36         | 10,027.49                 | 1,422.34      | -826.53       | 1,492.90                    | 0.00                          | 0.00                         | 0.00                        |
| 11,400.00                 | 90.46              | 359.36         | 10,026.69                 | 1,522.34      | -827.65       | 1,592.57                    | 0.00                          | 0.00                         | 0.00                        |
| 11,500.00                 | 90.46              | 359.36         | 10,025.90                 | 1,622.33      | -828.78       | 1,692.23                    | 0.00                          | 0.00                         | 0.00                        |
| 11,600.00                 | 90.46              | 359.36         | 10,025.10                 | 1,722.32      | -829.90       | 1,791.89                    | 0.00                          | 0.00                         | 0.00                        |
| 11,700.00                 | 90.46              | 359.36         | 10,024.30                 | 1,822.31      | -831.02       | 1,891.56                    | 0.00                          | 0.00                         | 0.00                        |
| 11,800.00                 | 90.46              | 359.36         | 10,023.50                 | 1,922.30      | -832.15       | 1,991.22                    | 0.00                          | 0.00                         | 0.00                        |
| 11,900.00                 | 90.46              | 359.36         | 10,022.71                 | 2,022.29      | -833.27       | 2,090.88                    | 0.00                          | 0.00                         | 0.00                        |
| 12,000.00                 | 90.46              | 359.36         | 10,021.91                 | 2,122.28      | -834.39       | 2,190.55                    | 0.00                          | 0.00                         | 0.00                        |
| 12,100.00                 | 90.46              | 359.36         | 10,021.11                 | 2,222.27      | -835.51       | 2,290.21                    | 0.00                          | 0.00                         | 0.00                        |
| 12,200.00                 | 90.46              | 359.36         | 10,020.32                 | 2,322.26      | -836.64       | 2,389.87                    | 0.00                          | 0.00                         | 0.00                        |
| 12,300.00                 | 90.46              | 359.36         | 10,019.52                 | 2,422.25      | -837.76       | 2,489.54                    | 0.00                          | 0.00                         | 0.00                        |
| 12,400.00                 | 90.46              | 359.36         | 10,018.72                 | 2,522.24      | -838.88       | 2,589.20                    | 0.00                          | 0.00                         | 0.00                        |
| 12,500.00                 | 90.46              | 359.36         | 10,017.93                 | 2,622.23      | -840.01       | 2,688.86                    | 0.00                          | 0.00                         | 0.00                        |
| 12,600.00                 | 90.46              | 359.36         | 10,017.13                 | 2,722.22      | -841.13       | 2,788.53                    | 0.00                          | 0.00                         | 0.00                        |
| 12,700.00                 | 90.46              | 359.36         | 10,016.33                 | 2,822.21      | -842.25       | 2,888.19                    | 0.00                          | 0.00                         | 0.00                        |
| 12,800.00                 | 90.46              | 359.36         | 10,015.53                 | 2,922.20      | -843.37       | 2,987.85                    | 0.00                          | 0.00                         | 0.00                        |
| 12,900.00                 | 90.46              | 359.36         | 10,014.74                 | 3,022.19      | -844.50       | 3,087.52                    | 0.00                          | 0.00                         | 0.00                        |
| 13,000.00                 | 90.46              | 359.36         | 10,013.94                 | 3,122.18      | -845.62       | 3,187.18                    | 0.00                          | 0.00                         | 0.00                        |
| 13,100.00                 | 90.46              | 359.36         | 10,013.14                 | 3,222.17      | -846.74       | 3,286.84                    | 0.00                          | 0.00                         | 0.00                        |
| 13,200.00                 | 90.46              | 359.36         | 10,012.35                 | 3,322.16      | -847.86       | 3,386.51                    | 0.00                          | 0.00                         | 0.00                        |
| 13,300.00                 | 90.46              | 359.36         | 10,011.55                 | 3,422.16      | -848.99       | 3,486.17                    | 0.00                          | 0.00                         | 0.00                        |
| 13,400.00                 | 90.46              | 359.36         | 10,010.75                 | 3,522.15      | -850.11       | 3,585.83                    | 0.00                          | 0.00                         | 0.00                        |
| 13,500.00                 | 90.46              | 359.36         | 10,009.96                 | 3,622.14      | -851.23       | 3,685.50                    | 0.00                          | 0.00                         | 0.00                        |
| 13,600.00                 | 90.46              | 359.36         | 10,009.16                 | 3,722.13      | -852.36       | 3,785.16                    | 0.00                          | 0.00                         | 0.00                        |

# Devon Energy

## Planning Report

Database: EDM r5000 US Production  
Company: WESTERN DIVISION  
Project: PBNM  
Site: Dzurisin  
Well: Thistle Unit 152H  
Wellbore: Wellbore #1  
Design: Plan 1

Local Co-ordinate Reference: Well Thistle Unit 152H  
TVD Reference: 1 @ 3685.00ft  
MD Reference: 1 @ 3685.00ft  
North Reference: Grid  
Survey Calculation Method: Minimum Curvature

### Planned Survey

| Measured<br>Depth<br>(ft) | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(ft) | +N/-S<br>(ft) | +E/-W<br>(ft) | Vertical<br>Section<br>(ft) | Dogleg<br>Rate<br>(°/100usft) | Build<br>Rate<br>(°/100usft) | Turn<br>Rate<br>(°/100usft) |
|---------------------------|--------------------|----------------|---------------------------|---------------|---------------|-----------------------------|-------------------------------|------------------------------|-----------------------------|
| 13,700.00                 | 90.46              | 359.36         | 10,008.36                 | 3,822.12      | -853.48       | 3,884.82                    | 0.00                          | 0.00                         | 0.00                        |
| 13,800.00                 | 90.46              | 359.36         | 10,007.56                 | 3,922.11      | -854.60       | 3,984.49                    | 0.00                          | 0.00                         | 0.00                        |
| 13,900.00                 | 90.46              | 359.36         | 10,006.77                 | 4,022.10      | -855.72       | 4,084.15                    | 0.00                          | 0.00                         | 0.00                        |
| 14,000.00                 | 90.46              | 359.36         | 10,005.97                 | 4,122.09      | -856.85       | 4,183.81                    | 0.00                          | 0.00                         | 0.00                        |
| 14,100.00                 | 90.46              | 359.36         | 10,005.17                 | 4,222.08      | -857.97       | 4,283.48                    | 0.00                          | 0.00                         | 0.00                        |
| 14,200.00                 | 90.46              | 359.36         | 10,004.38                 | 4,322.07      | -859.09       | 4,383.14                    | 0.00                          | 0.00                         | 0.00                        |
| 14,300.00                 | 90.46              | 359.36         | 10,003.58                 | 4,422.06      | -860.22       | 4,482.80                    | 0.00                          | 0.00                         | 0.00                        |
| 14,400.00                 | 90.46              | 359.36         | 10,002.78                 | 4,522.05      | -861.34       | 4,582.47                    | 0.00                          | 0.00                         | 0.00                        |
| 14,500.00                 | 90.46              | 359.36         | 10,001.98                 | 4,622.04      | -862.46       | 4,682.13                    | 0.00                          | 0.00                         | 0.00                        |
| 14,600.00                 | 90.46              | 359.36         | 10,001.19                 | 4,722.03      | -863.58       | 4,781.79                    | 0.00                          | 0.00                         | 0.00                        |
| 14,700.00                 | 90.46              | 359.36         | 10,000.39                 | 4,822.02      | -864.71       | 4,881.46                    | 0.00                          | 0.00                         | 0.00                        |
| 14,800.00                 | 90.46              | 359.36         | 9,999.59                  | 4,922.01      | -865.83       | 4,981.12                    | 0.00                          | 0.00                         | 0.00                        |
| 14,900.00                 | 90.46              | 359.36         | 9,998.80                  | 5,022.00      | -866.95       | 5,080.78                    | 0.00                          | 0.00                         | 0.00                        |
| 15,000.00                 | 90.46              | 359.36         | 9,998.00                  | 5,121.99      | -868.08       | 5,180.45                    | 0.00                          | 0.00                         | 0.00                        |
| 15,100.00                 | 90.46              | 359.36         | 9,997.20                  | 5,221.98      | -869.20       | 5,280.11                    | 0.00                          | 0.00                         | 0.00                        |
| 15,200.00                 | 90.46              | 359.36         | 9,996.41                  | 5,321.98      | -870.32       | 5,379.77                    | 0.00                          | 0.00                         | 0.00                        |
| 15,300.00                 | 90.46              | 359.36         | 9,995.61                  | 5,421.97      | -871.44       | 5,479.44                    | 0.00                          | 0.00                         | 0.00                        |
| 15,400.00                 | 90.46              | 359.36         | 9,994.81                  | 5,521.96      | -872.57       | 5,579.10                    | 0.00                          | 0.00                         | 0.00                        |
| 15,500.00                 | 90.46              | 359.36         | 9,994.01                  | 5,621.95      | -873.69       | 5,678.76                    | 0.00                          | 0.00                         | 0.00                        |
| 15,600.00                 | 90.46              | 359.36         | 9,993.22                  | 5,721.94      | -874.81       | 5,778.43                    | 0.00                          | 0.00                         | 0.00                        |
| 15,700.00                 | 90.46              | 359.36         | 9,992.42                  | 5,821.93      | -875.93       | 5,878.09                    | 0.00                          | 0.00                         | 0.00                        |
| 15,800.00                 | 90.46              | 359.36         | 9,991.62                  | 5,921.92      | -877.06       | 5,977.75                    | 0.00                          | 0.00                         | 0.00                        |
| 15,900.00                 | 90.46              | 359.36         | 9,990.83                  | 6,021.91      | -878.18       | 6,077.42                    | 0.00                          | 0.00                         | 0.00                        |
| 16,000.00                 | 90.46              | 359.36         | 9,990.03                  | 6,121.90      | -879.30       | 6,177.08                    | 0.00                          | 0.00                         | 0.00                        |
| 16,100.00                 | 90.46              | 359.36         | 9,989.23                  | 6,221.89      | -880.43       | 6,276.74                    | 0.00                          | 0.00                         | 0.00                        |
| 16,200.00                 | 90.46              | 359.36         | 9,988.43                  | 6,321.88      | -881.55       | 6,376.41                    | 0.00                          | 0.00                         | 0.00                        |
| 16,300.00                 | 90.46              | 359.36         | 9,987.64                  | 6,421.87      | -882.67       | 6,476.07                    | 0.00                          | 0.00                         | 0.00                        |
| 16,400.00                 | 90.46              | 359.36         | 9,986.84                  | 6,521.86      | -883.79       | 6,575.73                    | 0.00                          | 0.00                         | 0.00                        |
| 16,500.00                 | 90.46              | 359.36         | 9,986.04                  | 6,621.85      | -884.92       | 6,675.40                    | 0.00                          | 0.00                         | 0.00                        |
| 16,600.00                 | 90.46              | 359.36         | 9,985.25                  | 6,721.84      | -886.04       | 6,775.06                    | 0.00                          | 0.00                         | 0.00                        |
| 16,700.00                 | 90.46              | 359.36         | 9,984.45                  | 6,821.83      | -887.16       | 6,874.72                    | 0.00                          | 0.00                         | 0.00                        |
| 16,800.00                 | 90.46              | 359.36         | 9,983.65                  | 6,921.82      | -888.29       | 6,974.39                    | 0.00                          | 0.00                         | 0.00                        |
| 16,900.00                 | 90.46              | 359.36         | 9,982.86                  | 7,021.81      | -889.41       | 7,074.05                    | 0.00                          | 0.00                         | 0.00                        |
| 17,000.00                 | 90.46              | 359.36         | 9,982.06                  | 7,121.80      | -890.53       | 7,173.71                    | 0.00                          | 0.00                         | 0.00                        |
| 17,100.00                 | 90.46              | 359.36         | 9,981.26                  | 7,221.79      | -891.65       | 7,273.38                    | 0.00                          | 0.00                         | 0.00                        |
| 17,200.00                 | 90.46              | 359.36         | 9,980.46                  | 7,321.79      | -892.78       | 7,373.04                    | 0.00                          | 0.00                         | 0.00                        |
| 17,300.00                 | 90.46              | 359.36         | 9,979.67                  | 7,421.78      | -893.90       | 7,472.70                    | 0.00                          | 0.00                         | 0.00                        |
| 17,400.00                 | 90.46              | 359.36         | 9,978.87                  | 7,521.77      | -895.02       | 7,572.37                    | 0.00                          | 0.00                         | 0.00                        |
| 17,500.00                 | 90.46              | 359.36         | 9,978.07                  | 7,621.76      | -896.15       | 7,672.03                    | 0.00                          | 0.00                         | 0.00                        |
| 17,600.00                 | 90.46              | 359.36         | 9,977.28                  | 7,721.75      | -897.27       | 7,771.69                    | 0.00                          | 0.00                         | 0.00                        |
| 17,700.00                 | 90.46              | 359.36         | 9,976.48                  | 7,821.74      | -898.39       | 7,871.36                    | 0.00                          | 0.00                         | 0.00                        |
| 17,800.00                 | 90.46              | 359.36         | 9,975.68                  | 7,921.73      | -899.51       | 7,971.02                    | 0.00                          | 0.00                         | 0.00                        |
| 17,900.00                 | 90.46              | 359.36         | 9,974.89                  | 8,021.72      | -900.64       | 8,070.68                    | 0.00                          | 0.00                         | 0.00                        |
| 18,000.00                 | 90.46              | 359.36         | 9,974.09                  | 8,121.71      | -901.76       | 8,170.34                    | 0.00                          | 0.00                         | 0.00                        |
| 18,100.00                 | 90.46              | 359.36         | 9,973.29                  | 8,221.70      | -902.88       | 8,270.01                    | 0.00                          | 0.00                         | 0.00                        |
| 18,200.00                 | 90.46              | 359.36         | 9,972.49                  | 8,321.69      | -904.00       | 8,369.67                    | 0.00                          | 0.00                         | 0.00                        |
| 18,300.00                 | 90.46              | 359.36         | 9,971.70                  | 8,421.68      | -905.13       | 8,469.33                    | 0.00                          | 0.00                         | 0.00                        |
| 18,400.00                 | 90.46              | 359.36         | 9,970.90                  | 8,521.67      | -906.25       | 8,569.00                    | 0.00                          | 0.00                         | 0.00                        |
| 18,500.00                 | 90.46              | 359.36         | 9,970.10                  | 8,621.66      | -907.37       | 8,668.66                    | 0.00                          | 0.00                         | 0.00                        |
| 18,600.00                 | 90.46              | 359.36         | 9,969.31                  | 8,721.65      | -908.50       | 8,768.32                    | 0.00                          | 0.00                         | 0.00                        |
| 18,700.00                 | 90.46              | 359.36         | 9,968.51                  | 8,821.64      | -909.62       | 8,867.99                    | 0.00                          | 0.00                         | 0.00                        |
| 18,800.00                 | 90.46              | 359.36         | 9,967.71                  | 8,921.63      | -910.74       | 8,967.65                    | 0.00                          | 0.00                         | 0.00                        |
| 18,900.00                 | 90.46              | 359.36         | 9,966.91                  | 9,021.62      | -911.86       | 9,067.31                    | 0.00                          | 0.00                         | 0.00                        |
| 19,000.00                 | 90.46              | 359.36         | 9,966.12                  | 9,121.61      | -912.99       | 9,166.98                    | 0.00                          | 0.00                         | 0.00                        |

# Devon Energy

## Planning Report

**Database:** EDM r5000 US Production  
**Company:** WESTERN DIVISION  
**Project:** PBNM  
**Site:** Dzurisin  
**Well:** Thistle Unit 152H  
**Wellbore:** Wellbore #1  
**Design:** Plan 1

**Local Co-ordinate Reference:** Well Thistle Unit 152H  
**TVD Reference:** 1 @ 3685.00ft  
**MD Reference:** 1 @ 3685.00ft  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature

### Planned Survey

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-------------------------|------------------------|-----------------------|
| 19,100.00           | 90.46           | 359.36      | 9,965.32            | 9,221.61   | -914.11    | 9,266.64              | 0.00                    | 0.00                   | 0.00                  |
| 19,200.00           | 90.46           | 359.36      | 9,964.52            | 9,321.60   | -915.23    | 9,366.30              | 0.00                    | 0.00                   | 0.00                  |
| 19,300.00           | 90.46           | 359.36      | 9,963.73            | 9,421.59   | -916.36    | 9,465.97              | 0.00                    | 0.00                   | 0.00                  |
| 19,400.00           | 90.46           | 359.36      | 9,962.93            | 9,521.58   | -917.48    | 9,565.63              | 0.00                    | 0.00                   | 0.00                  |
| 19,500.00           | 90.46           | 359.36      | 9,962.13            | 9,621.57   | -918.60    | 9,665.29              | 0.00                    | 0.00                   | 0.00                  |
| 19,600.00           | 90.46           | 359.36      | 9,961.34            | 9,721.56   | -919.72    | 9,764.96              | 0.00                    | 0.00                   | 0.00                  |
| 19,700.00           | 90.46           | 359.36      | 9,960.54            | 9,821.55   | -920.85    | 9,864.62              | 0.00                    | 0.00                   | 0.00                  |
| 19,720.15           | 90.46           | 359.36      | 9,960.38            | 9,841.70   | -921.07    | 9,884.71              | 0.00                    | 0.00                   | 0.00                  |
| 19,767.36           | 90.46           | 359.36      | 9,960.00            | 9,888.90   | -921.60    | 9,931.75              | 0.01                    | 0.01                   | 0.01                  |

### Design Targets

| Target Name               | Dip Angle (°) | Dip Dir. (°) | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Northing (usft) | Easting (usft) | Latitude | Longitude |
|---------------------------|---------------|--------------|----------|------------|------------|-----------------|----------------|----------|-----------|
| - hit/miss target         |               |              |          |            |            |                 |                |          |           |
| - Shape                   |               |              |          |            |            |                 |                |          |           |
| Thistle Unit 152H BHL     | 0.00          | 0.00         | 9,960.00 | 9,888.90   | -921.60    | 467,148.80      | 772,730.94     | 0.000000 | 0.000000  |
| - plan hits target center |               |              |          |            |            |                 |                |          |           |
| - Point                   |               |              |          |            |            |                 |                |          |           |