

**Project:** Weld County, CO  
**Site:** SEC 33, T8N-R67W  
**Well:** Arkansas 8-67-33-4N  
**Wellbore:** Hz  
**Design:** Plan 2

## Reference Details

Geodetic System: US State Plane 1983  
 Datum: North American Datum 1983  
 Ellipsoid: GRS 1980  
 Latitude: 40° 37' 28.196 N  
 Longitude: 104° 54' 13.158 W  
 Grid Convergence: 0.39° West  
 Ground Elevation: 5176.0  
 KB Elevation: Well @ 5202.0usft



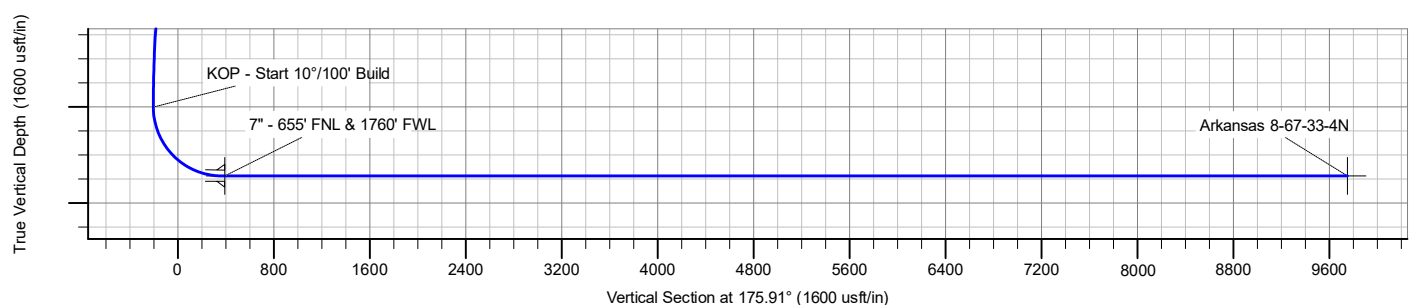
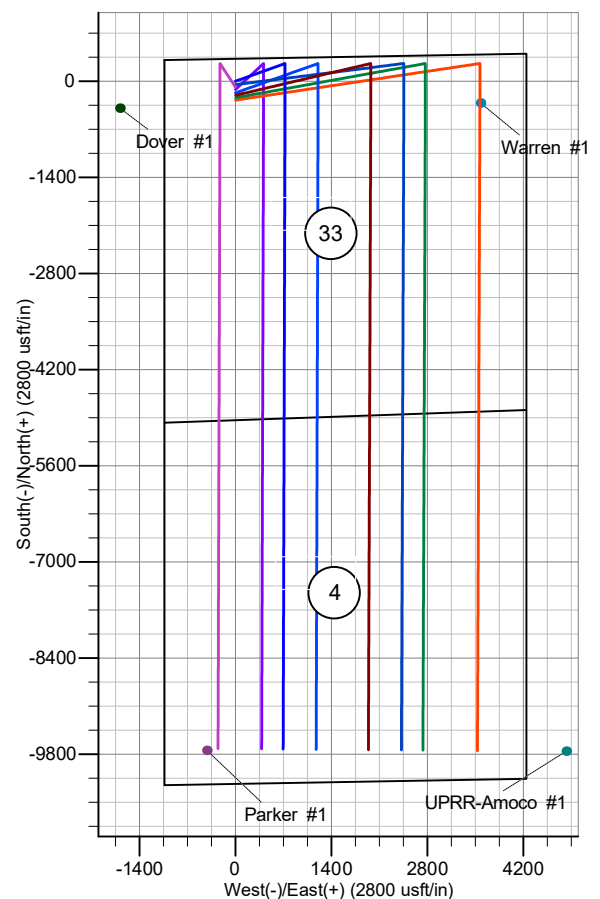
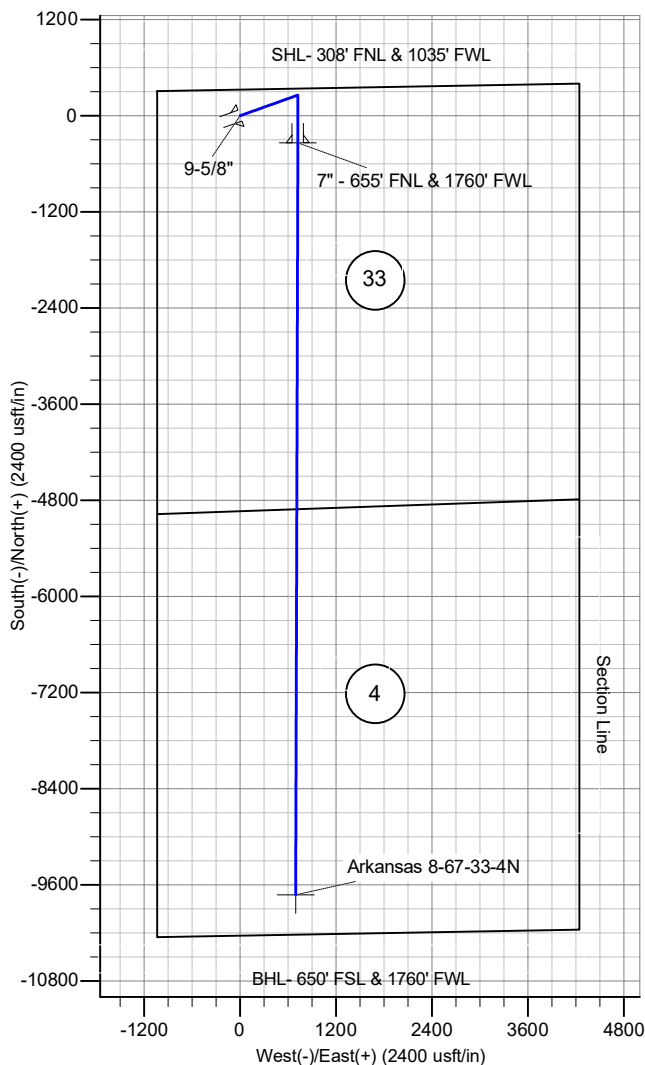
**RPM Consulting, Inc.**  
 1600 Broadway, Suite 1510  
 Denver, CO 80013  
 303-595-7625

## SECTION DETAILS

| MD      | Inc   | Azi    | TVD    | +N/-S   | +E/-W | Dleg  | TFace  | VSect  |
|---------|-------|--------|--------|---------|-------|-------|--------|--------|
| 0.0     | 0.00  | 0.00   | 0.0    | 0.0     | 0.0   | 0.00  | 0.00   | 0.0    |
| 1500.0  | 0.00  | 0.00   | 1500.0 | 0.0     | 0.0   | 0.00  | 0.00   | 0.0    |
| 2185.6  | 0.00  | 0.00   | 2185.6 | 0.0     | 0.0   | 0.00  | 0.00   | 0.0    |
| 2785.6  | 12.00 | 70.38  | 2781.2 | 21.0    | 59.0  | 2.00  | 70.38  | -16.8  |
| 5878.3  | 12.00 | 70.38  | 5806.4 | 237.0   | 664.6 | 0.00  | 0.00   | -188.9 |
| 6478.3  | 0.00  | 0.00   | 6402.0 | 258.0   | 723.6 | 2.00  | 180.00 | -205.7 |
| 7377.4  | 89.90 | 179.99 | 6975.0 | -314.0  | 723.7 | 10.00 | 179.99 | 364.8  |
| 7402.5  | 89.90 | 179.99 | 6975.0 | -339.2  | 723.7 | 0.00  | 0.00   | 390.0  |
| 7442.9  | 90.00 | 180.17 | 6975.0 | -379.5  | 723.6 | 0.50  | 60.87  | 430.2  |
| 16788.8 | 90.00 | 180.17 | 6975.0 | -9725.4 | 696.2 | 0.00  | 0.00   | 9750.3 |

## CASING DETAILS

| TVD    | MD     | Name         |
|--------|--------|--------------|
| 1500.0 | 1500.0 | Surface      |
| 6975.0 | 7402.5 | Intermediate |



# **Enerplus Resources (USA) Corporation**

**Weld County, CO  
SEC 33, T8N-R67W  
Arkansas 8-67-33-4N**

**Hz**

**Plan: Plan 2**

## **Standard Planning Report**

**06 November, 2017**

## Planning Report

|                  |                                      |                                     |                          |
|------------------|--------------------------------------|-------------------------------------|--------------------------|
| <b>Database:</b> | EDM Server Database                  | <b>Local Co-ordinate Reference:</b> | Well Arkansas 8-67-33-4N |
| <b>Company:</b>  | Enerplus Resources (USA) Corporation | <b>TVD Reference:</b>               | Well @ 5202.0usft        |
| <b>Project:</b>  | Weld County, CO                      | <b>MD Reference:</b>                | Well @ 5202.0usft        |
| <b>Site:</b>     | SEC 33, T8N-R67W                     | <b>North Reference:</b>             | True                     |
| <b>Well:</b>     | Arkansas 8-67-33-4N                  | <b>Survey Calculation Method:</b>   | Minimum Curvature        |
| <b>Wellbore:</b> | Hz                                   |                                     |                          |
| <b>Design:</b>   | Plan 2                               |                                     |                          |

|                    |                           |                      |                |
|--------------------|---------------------------|----------------------|----------------|
| <b>Project</b>     | Weld County, CO           |                      |                |
| <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>   | Colorado Northern Zone    |                      |                |

|                       |          |                  |                   |                   |                   |
|-----------------------|----------|------------------|-------------------|-------------------|-------------------|
| Site                  |          | SEC 33, T8N-R67W |                   |                   |                   |
| Site Position:        |          | Northing:        | 1,470,903.53 usft | Latitude:         | 40° 37' 28.196 N  |
| From:                 | Lat/Long | Easting:         | 3,165,536.99 usft | Longitude:        | 104° 54' 13.158 W |
| Position Uncertainty: | 0.0 usft | Slot Radius:     | 13-3/16 "         | Grid Convergence: | 0.39 °            |

|                      |                     |          |                     |                   |               |                   |
|----------------------|---------------------|----------|---------------------|-------------------|---------------|-------------------|
| Well                 | Arkansas 8-67-33-4N |          |                     |                   |               |                   |
| Well Position        | +N/-S               | 0.0 usft | Northing:           | 1,470,903.52 usft | Latitude:     | 40° 37' 28.196 N  |
|                      | +E/-W               | 0.0 usft | Easting:            | 3,165,536.99 usft | Longitude:    | 104° 54' 13.158 W |
| Position Uncertainty |                     | 0.0 usft | Wellhead Elevation: | 0.0 usft          | Ground Level: | 5,176.0 usft      |

|                  |                   |                    |                        |                      |                            |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| <b>Wellbore</b>  | Hz                |                    |                        |                      |                            |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination (°)</b> | <b>Dip Angle (°)</b> | <b>Field Strength (nT)</b> |
|                  | IGRF2010          | 2/7/2017           | 8.19                   | 67.01                | 52,636.13131984            |

|                          |                                |                     |                     |                      |     |
|--------------------------|--------------------------------|---------------------|---------------------|----------------------|-----|
| <b>Design</b>            | Plan 2                         |                     |                     |                      |     |
| <b>Audit Notes:</b>      |                                |                     |                     |                      |     |
| <b>Version:</b>          |                                | <b>Phase:</b>       | PROTOTYPE           | <b>Tie On Depth:</b> | 0.0 |
| <b>Vertical Section:</b> | <b>Depth From (TVD) (usft)</b> | <b>+N/-S (usft)</b> | <b>+E/-W (usft)</b> | <b>Direction (°)</b> |     |
|                          | 0.0                            | 0.0                 | 0.0                 | 175.91               |     |

|                                 |                        |                          |                  |                |  |
|---------------------------------|------------------------|--------------------------|------------------|----------------|--|
| <b>Plan Survey Tool Program</b> | <b>Date</b>            | 11/6/2017                |                  |                |  |
| <b>Depth From (usft)</b>        | <b>Depth To (usft)</b> | <b>Survey (Wellbore)</b> | <b>Tool Name</b> | <b>Remarks</b> |  |
| 1                               | 0.0                    | 16,788.8 Plan 2 (Hz)     | MWD              |                |  |
|                                 |                        |                          | Geolink MWD      |                |  |

## Planning Report

|                  |                                      |                                     |                          |
|------------------|--------------------------------------|-------------------------------------|--------------------------|
| <b>Database:</b> | EDM Server Database                  | <b>Local Co-ordinate Reference:</b> | Well Arkansas 8-67-33-4N |
| <b>Company:</b>  | Enerplus Resources (USA) Corporation | <b>TVD Reference:</b>               | Well @ 5202.0usft        |
| <b>Project:</b>  | Weld County, CO                      | <b>MD Reference:</b>                | Well @ 5202.0usft        |
| <b>Site:</b>     | SEC 33, T8N-R67W                     | <b>North Reference:</b>             | True                     |
| <b>Well:</b>     | Arkansas 8-67-33-4N                  | <b>Survey Calculation Method:</b>   | Minimum Curvature        |
| <b>Wellbore:</b> | Hz                                   |                                     |                          |
| <b>Design:</b>   | Plan 2                               |                                     |                          |

| Plan Sections         |                 |             |                       |              |              |                         |                        |                       |         |                      |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|------------------------|-----------------------|---------|----------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | TFO (°) | Target               |
| 0.0                   | 0.00            | 0.00        | 0.0                   | 0.0          | 0.0          | 0.00                    | 0.00                   | 0.00                  | 0.00    |                      |
| 1,500.0               | 0.00            | 0.00        | 1,500.0               | 0.0          | 0.0          | 0.00                    | 0.00                   | 0.00                  | 0.00    |                      |
| 2,185.6               | 0.00            | 0.00        | 2,185.6               | 0.0          | 0.0          | 0.00                    | 0.00                   | 0.00                  | 0.00    |                      |
| 2,785.6               | 12.00           | 70.38       | 2,781.2               | 21.0         | 59.0         | 2.00                    | 2.00                   | 0.00                  | 70.38   |                      |
| 5,878.3               | 12.00           | 70.38       | 5,806.4               | 237.0        | 664.6        | 0.00                    | 0.00                   | 0.00                  | 0.00    |                      |
| 6,478.3               | 0.00            | 0.00        | 6,402.0               | 258.0        | 723.6        | 2.00                    | -2.00                  | 0.00                  | 180.00  |                      |
| 7,377.4               | 89.90           | 179.99      | 6,975.0               | -314.0       | 723.7        | 10.00                   | 10.00                  | 20.02                 | 179.99  |                      |
| 7,402.5               | 89.90           | 179.99      | 6,975.0               | -339.2       | 723.7        | 0.00                    | 0.00                   | 0.00                  | 0.00    | Arkansas Landing Poi |
| 7,442.9               | 90.00           | 180.17      | 6,975.0               | -379.5       | 723.6        | 0.50                    | 0.24                   | 0.44                  | 60.87   |                      |
| 16,788.8              | 90.00           | 180.17      | 6,975.0               | -9,725.4     | 696.2        | 0.00                    | 0.00                   | 0.00                  | 0.00    | Arkansas 8-67-33-4N  |

# Planning Report

|                  |                                      |                                     |                          |
|------------------|--------------------------------------|-------------------------------------|--------------------------|
| <b>Database:</b> | EDM Server Database                  | <b>Local Co-ordinate Reference:</b> | Well Arkansas 8-67-33-4N |
| <b>Company:</b>  | Enerplus Resources (USA) Corporation | <b>TVD Reference:</b>               | Well @ 5202.0usft        |
| <b>Project:</b>  | Weld County, CO                      | <b>MD Reference:</b>                | Well @ 5202.0usft        |
| <b>Site:</b>     | SEC 33, T8N-R67W                     | <b>North Reference:</b>             | True                     |
| <b>Well:</b>     | Arkansas 8-67-33-4N                  | <b>Survey Calculation Method:</b>   | Minimum Curvature        |
| <b>Wellbore:</b> | Hz                                   |                                     |                          |
| <b>Design:</b>   | Plan 2                               |                                     |                          |

| Planned Survey        |                 |             |                       |              |              |                         |                         |                        |                       |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 0.0                   | 0.00            | 0.00        | 0.0                   | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 100.0                 | 0.00            | 0.00        | 100.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 200.0                 | 0.00            | 0.00        | 200.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 300.0                 | 0.00            | 0.00        | 300.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 400.0                 | 0.00            | 0.00        | 400.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 500.0                 | 0.00            | 0.00        | 500.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 600.0                 | 0.00            | 0.00        | 600.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 700.0                 | 0.00            | 0.00        | 700.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 800.0                 | 0.00            | 0.00        | 800.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 900.0                 | 0.00            | 0.00        | 900.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,000.0               | 0.00            | 0.00        | 1,000.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,100.0               | 0.00            | 0.00        | 1,100.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,200.0               | 0.00            | 0.00        | 1,200.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,300.0               | 0.00            | 0.00        | 1,300.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,400.0               | 0.00            | 0.00        | 1,400.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,500.0               | 0.00            | 0.00        | 1,500.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 9-5/8" - Surface      |                 |             |                       |              |              |                         |                         |                        |                       |
| 1,600.0               | 0.00            | 0.00        | 1,600.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,700.0               | 0.00            | 0.00        | 1,700.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,800.0               | 0.00            | 0.00        | 1,800.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,900.0               | 0.00            | 0.00        | 1,900.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 2,000.0               | 0.00            | 0.00        | 2,000.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 2,100.0               | 0.00            | 0.00        | 2,100.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 2,185.6               | 0.00            | 0.00        | 2,185.6               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| Begin Nudge           |                 |             |                       |              |              |                         |                         |                        |                       |
| 2,200.0               | 0.29            | 70.38       | 2,200.0               | 0.0          | 0.0          | 0.0                     | 2.00                    | 2.00                   | 0.00                  |
| 2,300.0               | 2.29            | 70.38       | 2,300.0               | 0.8          | 2.2          | -0.6                    | 2.00                    | 2.00                   | 0.00                  |
| 2,400.0               | 4.29            | 70.38       | 2,399.8               | 2.7          | 7.6          | -2.1                    | 2.00                    | 2.00                   | 0.00                  |
| 2,500.0               | 6.29            | 70.38       | 2,499.4               | 5.8          | 16.2         | -4.6                    | 2.00                    | 2.00                   | 0.00                  |
| 2,600.0               | 8.29            | 70.38       | 2,598.6               | 10.0         | 28.2         | -8.0                    | 2.00                    | 2.00                   | 0.00                  |
| 2,700.0               | 10.29           | 70.38       | 2,697.2               | 15.5         | 43.4         | -12.3                   | 2.00                    | 2.00                   | 0.00                  |
| 2,785.6               | 12.00           | 70.38       | 2,781.2               | 21.0         | 59.0         | -16.8                   | 2.00                    | 2.00                   | 0.00                  |
| 2,800.0               | 12.00           | 70.38       | 2,795.3               | 22.0         | 61.8         | -17.6                   | 0.00                    | 0.00                   | 0.00                  |
| 2,900.0               | 12.00           | 70.38       | 2,893.1               | 29.0         | 81.4         | -23.1                   | 0.00                    | 0.00                   | 0.00                  |
| 3,000.0               | 12.00           | 70.38       | 2,990.9               | 36.0         | 101.0        | -28.7                   | 0.00                    | 0.00                   | 0.00                  |
| 3,100.0               | 12.00           | 70.38       | 3,088.8               | 43.0         | 120.5        | -34.3                   | 0.00                    | 0.00                   | 0.00                  |
| 3,200.0               | 12.00           | 70.38       | 3,186.6               | 50.0         | 140.1        | -39.8                   | 0.00                    | 0.00                   | 0.00                  |
| 3,300.0               | 12.00           | 70.38       | 3,284.4               | 56.9         | 159.7        | -45.4                   | 0.00                    | 0.00                   | 0.00                  |
| 3,400.0               | 12.00           | 70.38       | 3,382.2               | 63.9         | 179.3        | -51.0                   | 0.00                    | 0.00                   | 0.00                  |
| 3,500.0               | 12.00           | 70.38       | 3,480.0               | 70.9         | 198.9        | -56.5                   | 0.00                    | 0.00                   | 0.00                  |
| 3,600.0               | 12.00           | 70.38       | 3,577.8               | 77.9         | 218.5        | -62.1                   | 0.00                    | 0.00                   | 0.00                  |
| 3,700.0               | 12.00           | 70.38       | 3,675.6               | 84.9         | 238.0        | -67.7                   | 0.00                    | 0.00                   | 0.00                  |
| 3,800.0               | 12.00           | 70.38       | 3,773.5               | 91.9         | 257.6        | -73.2                   | 0.00                    | 0.00                   | 0.00                  |
| 3,900.0               | 12.00           | 70.38       | 3,871.3               | 98.8         | 277.2        | -78.8                   | 0.00                    | 0.00                   | 0.00                  |
| 4,000.0               | 12.00           | 70.38       | 3,969.1               | 105.8        | 296.8        | -84.4                   | 0.00                    | 0.00                   | 0.00                  |
| 4,100.0               | 12.00           | 70.38       | 4,066.9               | 112.8        | 316.4        | -89.9                   | 0.00                    | 0.00                   | 0.00                  |
| 4,200.0               | 12.00           | 70.38       | 4,164.7               | 119.8        | 336.0        | -95.5                   | 0.00                    | 0.00                   | 0.00                  |
| 4,300.0               | 12.00           | 70.38       | 4,262.5               | 126.8        | 355.5        | -101.1                  | 0.00                    | 0.00                   | 0.00                  |
| 4,400.0               | 12.00           | 70.38       | 4,360.3               | 133.7        | 375.1        | -106.6                  | 0.00                    | 0.00                   | 0.00                  |
| 4,500.0               | 12.00           | 70.38       | 4,458.2               | 140.7        | 394.7        | -112.2                  | 0.00                    | 0.00                   | 0.00                  |
| 4,600.0               | 12.00           | 70.38       | 4,556.0               | 147.7        | 414.3        | -117.8                  | 0.00                    | 0.00                   | 0.00                  |
| 4,700.0               | 12.00           | 70.38       | 4,653.8               | 154.7        | 433.9        | -123.3                  | 0.00                    | 0.00                   | 0.00                  |
| 4,800.0               | 12.00           | 70.38       | 4,751.6               | 161.7        | 453.5        | -128.9                  | 0.00                    | 0.00                   | 0.00                  |
| 4,900.0               | 12.00           | 70.38       | 4,849.4               | 168.7        | 473.0        | -134.5                  | 0.00                    | 0.00                   | 0.00                  |

# Planning Report

|                  |                                      |                                     |                          |
|------------------|--------------------------------------|-------------------------------------|--------------------------|
| <b>Database:</b> | EDM Server Database                  | <b>Local Co-ordinate Reference:</b> | Well Arkansas 8-67-33-4N |
| <b>Company:</b>  | Enerplus Resources (USA) Corporation | <b>TVD Reference:</b>               | Well @ 5202.0usft        |
| <b>Project:</b>  | Weld County, CO                      | <b>MD Reference:</b>                | Well @ 5202.0usft        |
| <b>Site:</b>     | SEC 33, T8N-R67W                     | <b>North Reference:</b>             | True                     |
| <b>Well:</b>     | Arkansas 8-67-33-4N                  | <b>Survey Calculation Method:</b>   | Minimum Curvature        |
| <b>Wellbore:</b> | Hz                                   |                                     |                          |
| <b>Design:</b>   | Plan 2                               |                                     |                          |

| Planned Survey  |                    |                |                             |                 |                 |                               |                               |                              |                             |  |
|---|--------------------|----------------|-----------------------------|-----------------|-----------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|--|
| Measured<br>Depth<br>(usft)                                       | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Vertical<br>Section<br>(usft) | Dogleg<br>Rate<br>(°/100usft) | Build<br>Rate<br>(°/100usft) | Turn<br>Rate<br>(°/100usft) |  |
| 5,000.0   | 12.00              | 70.38          | 4,947.2                     | 175.6           | 492.6           | -140.0                        | 0.00                          | 0.00                         | 0.00                        |  |
| 5,100.0   | 12.00              | 70.38          | 5,045.0                     | 182.6           | 512.2           | -145.6                        | 0.00                          | 0.00                         | 0.00                        |  |
| 5,200.0   | 12.00              | 70.38          | 5,142.9                     | 189.6           | 531.8           | -151.2                        | 0.00                          | 0.00                         | 0.00                        |  |
| 5,300.0   | 12.00              | 70.38          | 5,240.7                     | 196.6           | 551.4           | -156.7                        | 0.00                          | 0.00                         | 0.00                        |  |
| 5,400.0   | 12.00              | 70.38          | 5,338.5                     | 203.6           | 571.0           | -162.3                        | 0.00                          | 0.00                         | 0.00                        |  |
| 5,500.0   | 12.00              | 70.38          | 5,436.3                     | 210.6           | 590.5           | -167.9                        | 0.00                          | 0.00                         | 0.00                        |  |
| 5,600.0   | 12.00              | 70.38          | 5,534.1                     | 217.5           | 610.1           | -173.4                        | 0.00                          | 0.00                         | 0.00                        |  |
| 5,700.0   | 12.00              | 70.38          | 5,631.9                     | 224.5           | 629.7           | -179.0                        | 0.00                          | 0.00                         | 0.00                        |  |
| 5,800.0   | 12.00              | 70.38          | 5,729.8                     | 231.5           | 649.3           | -184.6                        | 0.00                          | 0.00                         | 0.00                        |  |
| 5,878.3   | 12.00              | 70.38          | 5,806.4                     | 237.0           | 664.6           | -188.9                        | 0.00                          | 0.00                         | 0.00                        |  |
| 5,900.0   | 11.57              | 70.38          | 5,827.6                     | 238.5           | 668.8           | -190.1                        | 2.00                          | -2.00                        | 0.00                        |  |
| 6,000.0   | 9.57               | 70.38          | 5,925.9                     | 244.6           | 686.1           | -195.0                        | 2.00                          | -2.00                        | 0.00                        |  |
| 6,100.0   | 7.57               | 70.38          | 6,024.8                     | 249.6           | 700.1           | -199.0                        | 2.00                          | -2.00                        | 0.00                        |  |
| 6,200.0   | 5.57               | 70.38          | 6,124.1                     | 253.5           | 710.9           | -202.1                        | 2.00                          | -2.00                        | 0.00                        |  |
| 6,300.0   | 3.57               | 70.38          | 6,223.8                     | 256.1           | 718.4           | -204.2                        | 2.00                          | -2.00                        | 0.00                        |  |
| 6,400.0   | 1.57               | 70.38          | 6,323.7                     | 257.6           | 722.6           | -205.4                        | 2.00                          | -2.00                        | 0.00                        |  |
| 6,478.3   | 0.00               | 70.38          | 6,402.0                     | 258.0           | 723.6           | -205.7                        | 2.00                          | -2.00                        | 0.00                        |  |
| KOP - Start 10°/100' Build  |                    |                |                             |                 |                 |                               |                               |                              |                             |  |
| 6,500.0   | 2.17               | 179.99         | 6,423.7                     | 257.6           | 723.6           | -205.3                        | 9.98                          | 9.98                         | 505.14                      |  |
| 6,600.0   | 12.17              | 179.99         | 6,522.8                     | 245.1           | 723.6           | -192.8                        | 10.00                         | 10.00                        | 0.00                        |  |
| 6,700.0   | 22.17              | 179.99         | 6,618.2                     | 215.7           | 723.6           | -163.4                        | 10.00                         | 10.00                        | 0.00                        |  |
| 6,800.0   | 32.17              | 179.99         | 6,707.0                     | 170.1           | 723.6           | -118.0                        | 10.00                         | 10.00                        | 0.00                        |  |
| 6,900.0   | 42.17              | 179.99         | 6,786.6                     | 109.7           | 723.6           | -57.8                         | 10.00                         | 10.00                        | 0.00                        |  |
| 7,000.0   | 52.17              | 179.99         | 6,854.5                     | 36.5            | 723.6           | 15.3                          | 10.00                         | 10.00                        | 0.00                        |  |
| 7,100.0   | 62.17              | 179.99         | 6,908.7                     | -47.4           | 723.6           | 99.0                          | 10.00                         | 10.00                        | 0.00                        |  |
| 7,200.0   | 72.17              | 179.99         | 6,947.4                     | -139.5          | 723.7           | 190.8                         | 10.00                         | 10.00                        | 0.00                        |  |
| 7,300.0   | 82.17              | 179.99         | 6,969.6                     | -236.9          | 723.7           | 287.9                         | 10.00                         | 10.00                        | 0.00                        |  |
| 7,377.4   | 89.90              | 179.99         | 6,975.0                     | -314.0          | 723.7           | 364.8                         | 10.00                         | 10.00                        | 0.00                        |  |
| 7,400.0   | 89.90              | 179.99         | 6,975.0                     | -336.6          | 723.7           | 387.4                         | 0.00                          | 0.00                         | 0.00                        |  |
| 7,402.5   | 89.90              | 179.99         | 6,975.0                     | -339.2          | 723.7           | 390.0                         | 0.00                          | 0.00                         | 0.00                        |  |
| 7" - 655' FNL & 1760' FWL - Intermediate - Arkansas Landing Point |                    |                |                             |                 |                 |                               |                               |                              |                             |  |
| 7,442.9   | 90.00              | 180.17         | 6,975.0                     | -379.5          | 723.6           | 430.2                         | 0.50                          | 0.24                         | 0.44                        |  |
| 7,500.0   | 90.00              | 180.17         | 6,975.0                     | -436.6          | 723.5           | 487.2                         | 0.00                          | 0.00                         | 0.00                        |  |
| 7,600.0   | 90.00              | 180.17         | 6,975.0                     | -536.6          | 723.2           | 586.9                         | 0.00                          | 0.00                         | 0.00                        |  |
| 7,700.0   | 90.00              | 180.17         | 6,975.0                     | -636.6          | 722.9           | 686.6                         | 0.00                          | 0.00                         | 0.00                        |  |
| 7,800.0   | 90.00              | 180.17         | 6,975.0                     | -736.6          | 722.6           | 786.3                         | 0.00                          | 0.00                         | 0.00                        |  |
| 7,900.0   | 90.00              | 180.17         | 6,975.0                     | -836.6          | 722.3           | 886.1                         | 0.00                          | 0.00                         | 0.00                        |  |
| 8,000.0   | 90.00              | 180.17         | 6,975.0                     | -936.6          | 722.0           | 985.8                         | 0.00                          | 0.00                         | 0.00                        |  |
| 8,100.0   | 90.00              | 180.17         | 6,975.0                     | -1,036.6        | 721.7           | 1,085.5                       | 0.00                          | 0.00                         | 0.00                        |  |
| 8,200.0   | 90.00              | 180.17         | 6,975.0                     | -1,136.6        | 721.4           | 1,185.2                       | 0.00                          | 0.00                         | 0.00                        |  |
| 8,300.0   | 90.00              | 180.17         | 6,975.0                     | -1,236.6        | 721.1           | 1,284.9                       | 0.00                          | 0.00                         | 0.00                        |  |
| 8,400.0   | 90.00              | 180.17         | 6,975.0                     | -1,336.6        | 720.8           | 1,384.7                       | 0.00                          | 0.00                         | 0.00                        |  |
| 8,500.0   | 90.00              | 180.17         | 6,975.0                     | -1,436.6        | 720.5           | 1,484.4                       | 0.00                          | 0.00                         | 0.00                        |  |
| 8,600.0   | 90.00              | 180.17         | 6,975.0                     | -1,536.6        | 720.2           | 1,584.1                       | 0.00                          | 0.00                         | 0.00                        |  |
| 8,700.0   | 90.00              | 180.17         | 6,975.0                     | -1,636.6        | 719.9           | 1,683.8                       | 0.00                          | 0.00                         | 0.00                        |  |
| 8,800.0   | 90.00              | 180.17         | 6,975.0                     | -1,736.6        | 719.6           | 1,783.6                       | 0.00                          | 0.00                         | 0.00                        |  |
| 8,900.0   | 90.00              | 180.17         | 6,975.0                     | -1,836.6        | 719.3           | 1,883.3                       | 0.00                          | 0.00                         | 0.00                        |  |
| 9,000.0   | 90.00              | 180.17         | 6,975.0                     | -1,936.6        | 719.1           | 1,983.0                       | 0.00                          | 0.00                         | 0.00                        |  |
| 9,100.0   | 90.00              | 180.17         | 6,975.0                     | -2,036.6        | 718.8           | 2,082.7                       | 0.00                          | 0.00                         | 0.00                        |  |
| 9,200.0   | 90.00              | 180.17         | 6,975.0                     | -2,136.6        | 718.5           | 2,182.5                       | 0.00                          | 0.00                         | 0.00                        |  |
| 9,300.0   | 90.00              | 180.17         | 6,975.0                     | -2,236.6        | 718.2           | 2,282.2                       | 0.00                          | 0.00                         | 0.00                        |  |
| 9,400.0   | 90.00              | 180.17         | 6,975.0                     | -2,336.6        | 717.9           | 2,381.9                       | 0.00                          | 0.00                         | 0.00                        |  |
| 9,500.0   | 90.00              | 180.17         | 6,975.0                     | -2,436.6        | 717.6           | 2,481.6                       | 0.00                          | 0.00                         | 0.00                        |  |
| 9,600.0   | 90.00              | 180.17         | 6,975.0                     | -2,536.6        | 717.3           | 2,581.4                       | 0.00                          | 0.00                         | 0.00                        |  |

# Planning Report

|                  |                                      |                                     |                          |
|------------------|--------------------------------------|-------------------------------------|--------------------------|
| <b>Database:</b> | EDM Server Database                  | <b>Local Co-ordinate Reference:</b> | Well Arkansas 8-67-33-4N |
| <b>Company:</b>  | Enerplus Resources (USA) Corporation | <b>TVD Reference:</b>               | Well @ 5202.0usft        |
| <b>Project:</b>  | Weld County, CO                      | <b>MD Reference:</b>                | Well @ 5202.0usft        |
| <b>Site:</b>     | SEC 33, T8N-R67W                     | <b>North Reference:</b>             | True                     |
| <b>Well:</b>     | Arkansas 8-67-33-4N                  | <b>Survey Calculation Method:</b>   | Minimum Curvature        |
| <b>Wellbore:</b> | Hz                                   |                                     |                          |
| <b>Design:</b>   | Plan 2                               |                                     |                          |

| Planned Survey        |                 |             |                       |              |              |                         |                         |                        |                       |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 9,700.0               | 90.00           | 180.17      | 6,975.0               | -2,636.6     | 717.0        | 2,681.1                 | 0.00                    | 0.00                   | 0.00                  |
| 9,800.0               | 90.00           | 180.17      | 6,975.0               | -2,736.6     | 716.7        | 2,780.8                 | 0.00                    | 0.00                   | 0.00                  |
| 9,900.0               | 90.00           | 180.17      | 6,975.0               | -2,836.6     | 716.4        | 2,880.5                 | 0.00                    | 0.00                   | 0.00                  |
| 10,000.0              | 90.00           | 180.17      | 6,975.0               | -2,936.6     | 716.1        | 2,980.2                 | 0.00                    | 0.00                   | 0.00                  |
| 10,100.0              | 90.00           | 180.17      | 6,975.0               | -3,036.6     | 715.8        | 3,080.0                 | 0.00                    | 0.00                   | 0.00                  |
| 10,200.0              | 90.00           | 180.17      | 6,975.0               | -3,136.6     | 715.5        | 3,179.7                 | 0.00                    | 0.00                   | 0.00                  |
| 10,300.0              | 90.00           | 180.17      | 6,975.0               | -3,236.6     | 715.2        | 3,279.4                 | 0.00                    | 0.00                   | 0.00                  |
| 10,400.0              | 90.00           | 180.17      | 6,975.0               | -3,336.6     | 714.9        | 3,379.1                 | 0.00                    | 0.00                   | 0.00                  |
| 10,500.0              | 90.00           | 180.17      | 6,975.0               | -3,436.6     | 714.7        | 3,478.9                 | 0.00                    | 0.00                   | 0.00                  |
| 10,600.0              | 90.00           | 180.17      | 6,975.0               | -3,536.6     | 714.4        | 3,578.6                 | 0.00                    | 0.00                   | 0.00                  |
| 10,700.0              | 90.00           | 180.17      | 6,975.0               | -3,636.6     | 714.1        | 3,678.3                 | 0.00                    | 0.00                   | 0.00                  |
| 10,800.0              | 90.00           | 180.17      | 6,975.0               | -3,736.6     | 713.8        | 3,778.0                 | 0.00                    | 0.00                   | 0.00                  |
| 10,900.0              | 90.00           | 180.17      | 6,975.0               | -3,836.6     | 713.5        | 3,877.8                 | 0.00                    | 0.00                   | 0.00                  |
| 11,000.0              | 90.00           | 180.17      | 6,975.0               | -3,936.6     | 713.2        | 3,977.5                 | 0.00                    | 0.00                   | 0.00                  |
| 11,100.0              | 90.00           | 180.17      | 6,975.0               | -4,036.6     | 712.9        | 4,077.2                 | 0.00                    | 0.00                   | 0.00                  |
| 11,200.0              | 90.00           | 180.17      | 6,975.0               | -4,136.6     | 712.6        | 4,176.9                 | 0.00                    | 0.00                   | 0.00                  |
| 11,300.0              | 90.00           | 180.17      | 6,975.0               | -4,236.6     | 712.3        | 4,276.6                 | 0.00                    | 0.00                   | 0.00                  |
| 11,400.0              | 90.00           | 180.17      | 6,975.0               | -4,336.6     | 712.0        | 4,376.4                 | 0.00                    | 0.00                   | 0.00                  |
| 11,500.0              | 90.00           | 180.17      | 6,975.0               | -4,436.6     | 711.7        | 4,476.1                 | 0.00                    | 0.00                   | 0.00                  |
| 11,600.0              | 90.00           | 180.17      | 6,975.0               | -4,536.6     | 711.4        | 4,575.8                 | 0.00                    | 0.00                   | 0.00                  |
| 11,700.0              | 90.00           | 180.17      | 6,975.0               | -4,636.6     | 711.1        | 4,675.5                 | 0.00                    | 0.00                   | 0.00                  |
| 11,800.0              | 90.00           | 180.17      | 6,975.0               | -4,736.6     | 710.8        | 4,775.3                 | 0.00                    | 0.00                   | 0.00                  |
| 11,900.0              | 90.00           | 180.17      | 6,975.0               | -4,836.6     | 710.5        | 4,875.0                 | 0.00                    | 0.00                   | 0.00                  |
| 12,000.0              | 90.00           | 180.17      | 6,975.0               | -4,936.6     | 710.2        | 4,974.7                 | 0.00                    | 0.00                   | 0.00                  |
| 12,100.0              | 90.00           | 180.17      | 6,975.0               | -5,036.6     | 710.0        | 5,074.4                 | 0.00                    | 0.00                   | 0.00                  |
| 12,200.0              | 90.00           | 180.17      | 6,975.0               | -5,136.6     | 709.7        | 5,174.2                 | 0.00                    | 0.00                   | 0.00                  |
| 12,300.0              | 90.00           | 180.17      | 6,975.0               | -5,236.6     | 709.4        | 5,273.9                 | 0.00                    | 0.00                   | 0.00                  |
| 12,400.0              | 90.00           | 180.17      | 6,975.0               | -5,336.6     | 709.1        | 5,373.6                 | 0.00                    | 0.00                   | 0.00                  |
| 12,500.0              | 90.00           | 180.17      | 6,975.0               | -5,436.6     | 708.8        | 5,473.3                 | 0.00                    | 0.00                   | 0.00                  |
| 12,600.0              | 90.00           | 180.17      | 6,975.0               | -5,536.6     | 708.5        | 5,573.1                 | 0.00                    | 0.00                   | 0.00                  |
| 12,700.0              | 90.00           | 180.17      | 6,975.0               | -5,636.6     | 708.2        | 5,672.8                 | 0.00                    | 0.00                   | 0.00                  |
| 12,800.0              | 90.00           | 180.17      | 6,975.0               | -5,736.6     | 707.9        | 5,772.5                 | 0.00                    | 0.00                   | 0.00                  |
| 12,900.0              | 90.00           | 180.17      | 6,975.0               | -5,836.6     | 707.6        | 5,872.2                 | 0.00                    | 0.00                   | 0.00                  |
| 13,000.0              | 90.00           | 180.17      | 6,975.0               | -5,936.6     | 707.3        | 5,971.9                 | 0.00                    | 0.00                   | 0.00                  |
| 13,100.0              | 90.00           | 180.17      | 6,975.0               | -6,036.6     | 707.0        | 6,071.7                 | 0.00                    | 0.00                   | 0.00                  |
| 13,200.0              | 90.00           | 180.17      | 6,975.0               | -6,136.6     | 706.7        | 6,171.4                 | 0.00                    | 0.00                   | 0.00                  |
| 13,300.0              | 90.00           | 180.17      | 6,975.0               | -6,236.6     | 706.4        | 6,271.1                 | 0.00                    | 0.00                   | 0.00                  |
| 13,400.0              | 90.00           | 180.17      | 6,975.0               | -6,336.6     | 706.1        | 6,370.8                 | 0.00                    | 0.00                   | 0.00                  |
| 13,500.0              | 90.00           | 180.17      | 6,975.0               | -6,436.6     | 705.8        | 6,470.6                 | 0.00                    | 0.00                   | 0.00                  |
| 13,600.0              | 90.00           | 180.17      | 6,975.0               | -6,536.6     | 705.5        | 6,570.3                 | 0.00                    | 0.00                   | 0.00                  |
| 13,700.0              | 90.00           | 180.17      | 6,975.0               | -6,636.6     | 705.3        | 6,670.0                 | 0.00                    | 0.00                   | 0.00                  |
| 13,800.0              | 90.00           | 180.17      | 6,975.0               | -6,736.6     | 705.0        | 6,769.7                 | 0.00                    | 0.00                   | 0.00                  |
| 13,900.0              | 90.00           | 180.17      | 6,975.0               | -6,836.6     | 704.7        | 6,869.5                 | 0.00                    | 0.00                   | 0.00                  |
| 14,000.0              | 90.00           | 180.17      | 6,975.0               | -6,936.6     | 704.4        | 6,969.2                 | 0.00                    | 0.00                   | 0.00                  |
| 14,100.0              | 90.00           | 180.17      | 6,975.0               | -7,036.6     | 704.1        | 7,068.9                 | 0.00                    | 0.00                   | 0.00                  |
| 14,200.0              | 90.00           | 180.17      | 6,975.0               | -7,136.6     | 703.8        | 7,168.6                 | 0.00                    | 0.00                   | 0.00                  |
| 14,300.0              | 90.00           | 180.17      | 6,975.0               | -7,236.6     | 703.5        | 7,268.4                 | 0.00                    | 0.00                   | 0.00                  |
| 14,400.0              | 90.00           | 180.17      | 6,975.0               | -7,336.6     | 703.2        | 7,368.1                 | 0.00                    | 0.00                   | 0.00                  |
| 14,500.0              | 90.00           | 180.17      | 6,975.0               | -7,436.6     | 702.9        | 7,467.8                 | 0.00                    | 0.00                   | 0.00                  |
| 14,600.0              | 90.00           | 180.17      | 6,975.0               | -7,536.6     | 702.6        | 7,567.5                 | 0.00                    | 0.00                   | 0.00                  |
| 14,700.0              | 90.00           | 180.17      | 6,975.0               | -7,636.6     | 702.3        | 7,667.2                 | 0.00                    | 0.00                   | 0.00                  |
| 14,800.0              | 90.00           | 180.17      | 6,975.0               | -7,736.6     | 702.0        | 7,767.0                 | 0.00                    | 0.00                   | 0.00                  |
| 14,900.0              | 90.00           | 180.17      | 6,975.0               | -7,836.6     | 701.7        | 7,866.7                 | 0.00                    | 0.00                   | 0.00                  |
| 15,000.0              | 90.00           | 180.17      | 6,975.0               | -7,936.6     | 701.4        | 7,966.4                 | 0.00                    | 0.00                   | 0.00                  |

## Planning Report

|                  |                                      |                                     |                          |
|------------------|--------------------------------------|-------------------------------------|--------------------------|
| <b>Database:</b> | EDM Server Database                  | <b>Local Co-ordinate Reference:</b> | Well Arkansas 8-67-33-4N |
| <b>Company:</b>  | Enerplus Resources (USA) Corporation | <b>TVD Reference:</b>               | Well @ 5202.0usft        |
| <b>Project:</b>  | Weld County, CO                      | <b>MD Reference:</b>                | Well @ 5202.0usft        |
| <b>Site:</b>     | SEC 33, T8N-R67W                     | <b>North Reference:</b>             | True                     |
| <b>Well:</b>     | Arkansas 8-67-33-4N                  | <b>Survey Calculation Method:</b>   | Minimum Curvature        |
| <b>Wellbore:</b> | Hz                                   |                                     |                          |
| <b>Design:</b>   | Plan 2                               |                                     |                          |

| Planned Survey                    |                    |                |                             |                 |                 |                               |                               |                              |                             |  |
|-----------------------------------|--------------------|----------------|-----------------------------|-----------------|-----------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|--|
| Measured<br>Depth<br>(usft)       | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Vertical<br>Section<br>(usft) | Dogleg<br>Rate<br>(°/100usft) | Build<br>Rate<br>(°/100usft) | Turn<br>Rate<br>(°/100usft) |  |
| 15,100.0                          | 90.00              | 180.17         | 6,975.0                     | -8,036.6        | 701.1           | 8,066.1                       | 0.00                          | 0.00                         | 0.00                        |  |
| 15,200.0                          | 90.00              | 180.17         | 6,975.0                     | -8,136.6        | 700.9           | 8,165.9                       | 0.00                          | 0.00                         | 0.00                        |  |
| 15,300.0                          | 90.00              | 180.17         | 6,975.0                     | -8,236.6        | 700.6           | 8,265.6                       | 0.00                          | 0.00                         | 0.00                        |  |
| 15,400.0                          | 90.00              | 180.17         | 6,975.0                     | -8,336.6        | 700.3           | 8,365.3                       | 0.00                          | 0.00                         | 0.00                        |  |
| 15,500.0                          | 90.00              | 180.17         | 6,975.0                     | -8,436.6        | 700.0           | 8,465.0                       | 0.00                          | 0.00                         | 0.00                        |  |
| 15,600.0                          | 90.00              | 180.17         | 6,975.0                     | -8,536.6        | 699.7           | 8,564.8                       | 0.00                          | 0.00                         | 0.00                        |  |
| 15,700.0                          | 90.00              | 180.17         | 6,975.0                     | -8,636.6        | 699.4           | 8,664.5                       | 0.00                          | 0.00                         | 0.00                        |  |
| 15,800.0                          | 90.00              | 180.17         | 6,975.0                     | -8,736.6        | 699.1           | 8,764.2                       | 0.00                          | 0.00                         | 0.00                        |  |
| 15,900.0                          | 90.00              | 180.17         | 6,975.0                     | -8,836.6        | 698.8           | 8,863.9                       | 0.00                          | 0.00                         | 0.00                        |  |
| 16,000.0                          | 90.00              | 180.17         | 6,975.0                     | -8,936.6        | 698.5           | 8,963.6                       | 0.00                          | 0.00                         | 0.00                        |  |
| 16,100.0                          | 90.00              | 180.17         | 6,975.0                     | -9,036.6        | 698.2           | 9,063.4                       | 0.00                          | 0.00                         | 0.00                        |  |
| 16,200.0                          | 90.00              | 180.17         | 6,975.0                     | -9,136.6        | 697.9           | 9,163.1                       | 0.00                          | 0.00                         | 0.00                        |  |
| 16,300.0                          | 90.00              | 180.17         | 6,975.0                     | -9,236.6        | 697.6           | 9,262.8                       | 0.00                          | 0.00                         | 0.00                        |  |
| 16,400.0                          | 90.00              | 180.17         | 6,975.0                     | -9,336.6        | 697.3           | 9,362.5                       | 0.00                          | 0.00                         | 0.00                        |  |
| 16,500.0                          | 90.00              | 180.17         | 6,975.0                     | -9,436.6        | 697.0           | 9,462.3                       | 0.00                          | 0.00                         | 0.00                        |  |
| 16,600.0                          | 90.00              | 180.17         | 6,975.0                     | -9,536.6        | 696.7           | 9,562.0                       | 0.00                          | 0.00                         | 0.00                        |  |
| 16,700.0                          | 90.00              | 180.17         | 6,975.0                     | -9,636.6        | 696.4           | 9,661.7                       | 0.00                          | 0.00                         | 0.00                        |  |
| 16,788.8                          | 90.00              | 180.17         | 6,975.0                     | -9,725.4        | 696.2           | 9,750.3                       | 0.00                          | 0.00                         | 0.00                        |  |
| Total Depth - Arkansas 8-67-33-4N |                    |                |                             |                 |                 |                               |                               |                              |                             |  |

| Design Targets            |               |              |            |              |              |                 |                |                  |  |                  |
|---------------------------|---------------|--------------|------------|--------------|--------------|-----------------|----------------|------------------|--|------------------|
| Target Name               | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude         |  | Longitude        |
| - hit/miss target         |               |              |            |              |              |                 |                |                  |  |                  |
| - Shape                   |               |              |            |              |              |                 |                |                  |  |                  |
| Arkansas Landing Point    | 0.00          | 0.00         | 6,975.0    | -339.2       | 723.7        | 1,470,569.23    | 3,166,262.94   | 40° 37' 24.845 N |  | 104° 54' 3.773 W |
| - plan hits target center |               |              |            |              |              |                 |                |                  |  |                  |
| - Point                   |               |              |            |              |              |                 |                |                  |  |                  |
| Arkansas 8-67-33-4N       | 0.00          | 0.00         | 6,975.0    | -9,725.4     | 696.2        | 1,461,183.02    | 3,166,298.57   | 40° 35' 52.094 N |  | 104° 54' 4.133 W |
| - plan hits target center |               |              |            |              |              |                 |                |                  |  |                  |
| - Point                   |               |              |            |              |              |                 |                |                  |  |                  |

| Casing Points         |                       |              |                     |                   |  |
|-----------------------|-----------------------|--------------|---------------------|-------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Name         | Casing Diameter (") | Hole Diameter (") |  |
| 1,500.0               | 1,500.0               | Surface      | 9-5/8               | 9-5/8             |  |
| 7,402.5               | 6,975.0               | Intermediate | 7                   | 7                 |  |

| Plan Annotations      |                       |                   |              |                            |  |
|-----------------------|-----------------------|-------------------|--------------|----------------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates |              | Comment                    |  |
|                       |                       | +N/-S (usft)      | +E/-W (usft) |                            |  |
| 1,500.0               | 1,500.0               | 0.0               | 0.0          | 9-5/8"                     |  |
| 2,185.6               | 2,185.6               | 0.0               | 0.0          | Begin Nudge                |  |
| 6,478.3               | 6,402.0               | 258.0             | 723.6        | KOP - Start 10°/100' Build |  |
| 7,402.5               | 6,975.0               | -339.1            | 723.7        | 7" - 655' FNL & 1760' FWL  |  |
| 16,788.8              | 6,975.0               | -9,725.4          | 696.2        | Total Depth                |  |