**Bill Barrett Corporation**

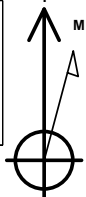
Plan: Plan 1 (RSU Anschutz Fed 4-61-05-0909CN/OH)

Created By: Seth Burstad


PROJECT DETAILS: Weld County, CO NAD 83

Geodetic System: US State Plane 1983  
Datum: North American Datum 1983  
Ellipsoid: GRS 1980  
Zone: Colorado Northern Zone  
System Datum: Mean Sea Level  
Local North: True

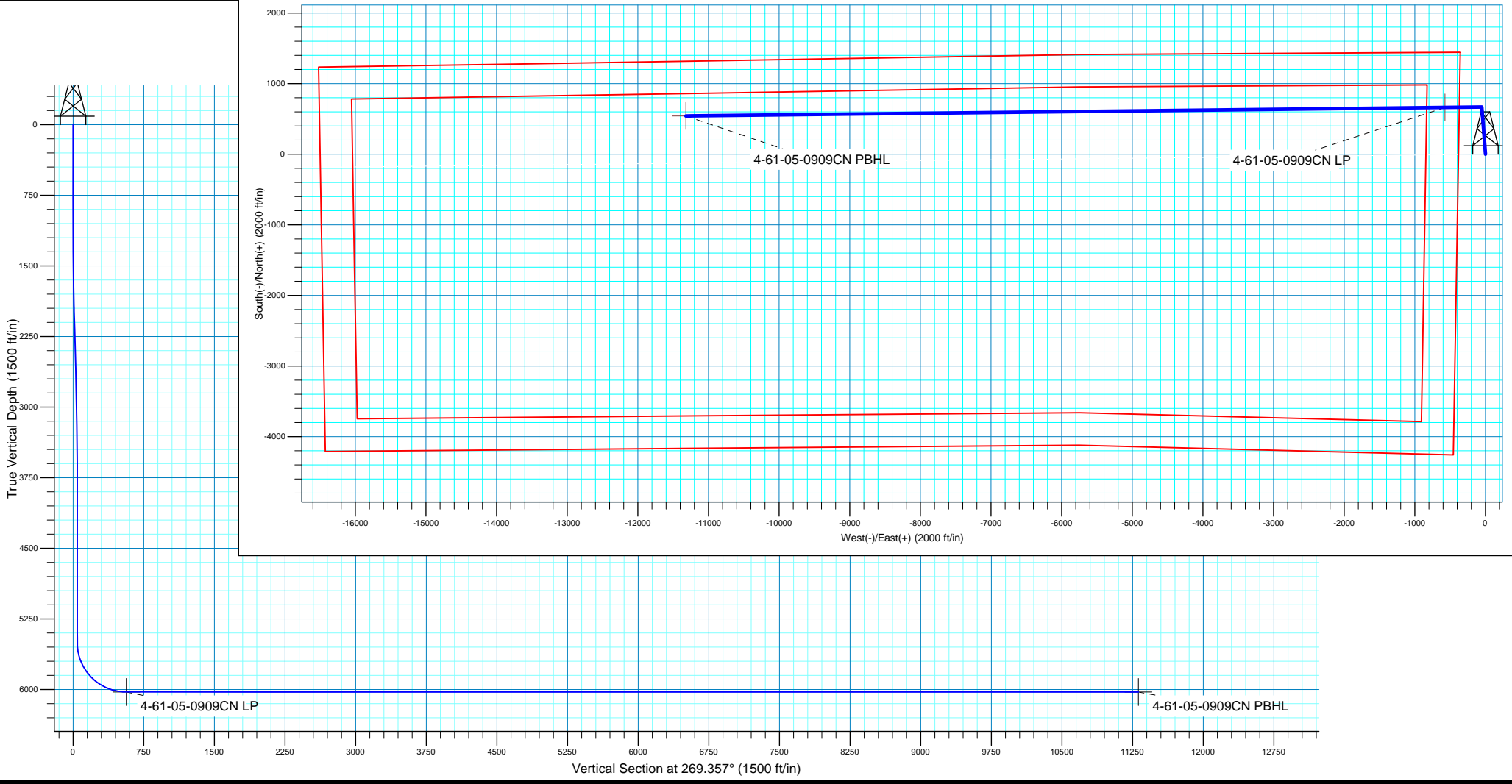
Project: Weld County, CO NAD 83  
Site: RSU Anschutz Fed 4-61-4 NW Pad  
Well: RSU Anschutz Fed 4-61-05-0909CN  
Wellbore: OH  
Design: Plan 1



Azimuths to True North  
Magnetic North: 8.22°  
  
Magnetic Field  
Strength: 52299.6nT  
Dip Angle: 67.00°  
Date: 2/12/2018  
Model: HDGM



| SECTION DETAILS |       |         |         |        |           |       |        |          | WELL DETAILS: RSU Anschutz Fed 4-61-05-0909CN |       |            |                   |
|-----------------|-------|---------|---------|--------|-----------|-------|--------|----------|---|-------|------------|-------------------|
| MD              | Inc   | Azi     | TVD     | +N/-S  | +E/-W     | Dleg  | TFace  | VSect    | GL 4501.5' & KB 20' @ 4521.50ft 4501.50       |       |            |                   |
| 0.00            | 0.00  | 0.000   | 0.00    | 0.00   | 0.00      | 0.00  | 0.00   | 0.00     | +N/-S   | +E/-W | Northing   | Longitude         |
| 1000.00         | 0.00  | 0.000   | 1000.00 | 0.00   | 0.00      | 0.00  | 0.00   | 0.00     | 0.00  | 0.00  | 1371453.71 | 104° 13' 27.221 W |
| 2172.62         | 23.45 | 355.565 | 2140.15 | 235.95 | -18.30    | 2.00  | 355.56 | 15.65    |   |       |            |                   |
| 2472.66         | 23.45 | 355.565 | 2415.40 | 355.00 | -27.54    | 0.00  | 0.00   | 23.55    |   |       |            |                   |
| 4036.15         | 0.00  | 0.000   | 3935.60 | 669.60 | -51.94    | 1.50  | 180.00 | 44.42    |   |       |            |                   |
| 5604.68         | 0.00  | 0.000   | 5504.13 | 669.60 | -51.94    | 0.00  | 0.00   | 44.42    |   |       |            |                   |
| 6422.86         | 90.00 | 269.357 | 6025.00 | 663.76 | -572.78   | 11.00 | 269.36 | 565.29   |   |       |            |                   |
| 17169.85        | 90.00 | 269.357 | 6025.00 | 543.22 | -11319.09 | 0.00  | 0.00   | 11312.28 |   |       |            |                   |





**Bill Barrett Corporation**

## **Bill Barrett Corp.**

Weld County, CO NAD 83

RSU Anschutz Fed 4-61-4 NW Pad

RSU Anschutz Fed 4-61-05-0909CN

OH

Plan: Plan 1

## **Standard Planning Report**

13 February, 2018



**Scientific Drilling**

[www.scientificdrilling.com](http://www.scientificdrilling.com)



|                  |                                 |                                     |                                      |
|------------------|---------------------------------|-------------------------------------|--------------------------------------|
| <b>Database:</b> | Casper District                 | <b>Local Co-ordinate Reference:</b> | Well RSU Anschutz Fed 4-61-05-0909CN |
| <b>Company:</b>  | Bill Barrett Corp.              | <b>TVD Reference:</b>               | GL 4501.5' & KB 20' @ 4521.50ft      |
| <b>Project:</b>  | Weld County, CO NAD 83          | <b>MD Reference:</b>                | GL 4501.5' & KB 20' @ 4521.50ft      |
| <b>Site:</b>     | RSU Anschutz Fed 4-61-4 NW Pad  | <b>North Reference:</b>             | True                                 |
| <b>Well:</b>     | RSU Anschutz Fed 4-61-05-0909CN | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Wellbore:</b> | OH                              |                                     |                                      |
| <b>Design:</b>   | Plan 1                          |                                     |                                      |

|                    |                           |                      |                |
|--------------------|---------------------------|----------------------|----------------|
| <b>Project</b>     | Weld County, CO NAD 83    |                      |                |
| <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                  | RSU Anschutz Fed 4-61-4 NW Pad, Site Center : RSU Anschutz Fed 4-61-04-0808C |              |                   |                   |                   |
| Site Position:        |  | Northing:    | 1,371,469.36 usft | Latitude:         | 40° 20' 45.852 N  |
| From:                 | Lat/Long   | Easting:     | 3,355,406.34 usft | Longitude:        | 104° 13' 29.543 W |
| Position Uncertainty: | 0.00 ft  | Slot Radius: | 13.200 in         | Grid Convergence: | 0.82              |

|                      |  |           |                     |                   |               |                   |
|----------------------|--|-----------|---------------------|-------------------|---------------|-------------------|
| Well                 | RSU Anschutz Fed 4-61-05-0909CN, 1447' FNL 385' FWL Sec 4 T4N R61W |           |                     |                   |               |                   |
| Well Position        | +N/-S  | -18.23 ft | Northing:           | 1,371,453.71 usft | Latitude:     | 40° 20' 45.672 N  |
|                      | +E/-W  | 179.78 ft | Easting:            | 3,355,586.36 usft | Longitude:    | 104° 13' 27.221 W |
| Position Uncertainty |  | 0.00 ft   | Wellhead Elevation: | 0.00 ft           | Ground Level: | 4,501.50 ft       |

|                  |                   |                    |                        |                      |                            |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| <b>Wellbore</b>  | OH                |                    |                        |                      |                            |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination (°)</b> | <b>Dip Angle (°)</b> | <b>Field Strength (nT)</b> |
|                  | HDGM              | 2/12/2018          | 8.22                   | 67.00                | 52,300                     |

|                          |                              |                   |                      |                      |
|--------------------------|------------------------------|-------------------|----------------------|----------------------|
| <b>Design</b>            | Plan 1                       |                   |                      |                      |
| <b>Audit Notes:</b>      |                              |                   |                      |                      |
| <b>Version:</b>          | <b>Phase:</b>                | PLAN              | <b>Tie On Depth:</b> | 0.00                 |
| <b>Vertical Section:</b> | <b>Depth From (TVD) (ft)</b> | <b>+N/-S (ft)</b> | <b>+E/-W (ft)</b>    | <b>Direction (°)</b> |
|                          | 0.00                         | 0.00              | 0.00                 | 269.357              |

| <b>Plan Sections</b> |                 |             |                     |            |            |                       |                      |                     |         |                    |
|----------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|----------------------|---------------------|---------|--------------------|
| Measured Depth (ft)  | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) | TFO (°) | Target             |
| 0.00                 | 0.00            | 0.000       | 0.00                | 0.00       | 0.00       | 0.00                  | 0.00                 | 0.00                | 0.00    |                    |
| 1,000.00             | 0.00            | 0.000       | 1,000.00            | 0.00       | 0.00       | 0.00                  | 0.00                 | 0.00                | 0.00    |                    |
| 2,172.62             | 23.45           | 355.565     | 2,140.15            | 235.95     | -18.30     | 2.00                  | 2.00                 | 0.00                | 355.56  |                    |
| 2,472.66             | 23.45           | 355.565     | 2,415.40            | 355.00     | -27.54     | 0.00                  | 0.00                 | 0.00                | 0.00    |                    |
| 4,036.15             | 0.00            | 0.000       | 3,935.60            | 669.60     | -51.94     | 1.50                  | -1.50                | 0.00                | 180.00  |                    |
| 5,604.68             | 0.00            | 0.000       | 5,504.13            | 669.60     | -51.94     | 0.00                  | 0.00                 | 0.00                | 0.00    |                    |
| 6,422.86             | 90.00           | 269.357     | 6,025.00            | 663.76     | -572.78    | 11.00                 | 11.00                | -11.08              | 269.36  |                    |
| 17,169.85            | 90.00           | 269.357     | 6,025.00            | 543.22     | -11,319.09 | 0.00                  | 0.00                 | 0.00                | 0.00    | 4-61-05-0909CN PBF |

|                  |                                 |                                     |                                      |
|------------------|---------------------------------|-------------------------------------|--------------------------------------|
| <b>Database:</b> | Casper District                 | <b>Local Co-ordinate Reference:</b> | Well RSU Anschutz Fed 4-61-05-0909CN |
| <b>Company:</b>  | Bill Barrett Corp.              | <b>TVD Reference:</b>               | GL 4501.5' & KB 20' @ 4521.50ft      |
| <b>Project:</b>  | Weld County, CO NAD 83          | <b>MD Reference:</b>                | GL 4501.5' & KB 20' @ 4521.50ft      |
| <b>Site:</b>     | RSU Anschutz Fed 4-61-4 NW Pad  | <b>North Reference:</b>             | True                                 |
| <b>Well:</b>     | RSU Anschutz Fed 4-61-05-0909CN | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Wellbore:</b> | OH                              |                                     |                                      |
| <b>Design:</b>   | Plan 1                          |                                     |                                      |

| Planned Survey                          |                 |             |                     |            |            |                       |                       |                      |                     |
|---|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| Measured Depth (ft)                     | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 0.00                                    | 0.00            | 0.000       | 0.00                | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 100.00                                  | 0.00            | 0.000       | 100.00              | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 200.00                                  | 0.00            | 0.000       | 200.00              | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 300.00                                  | 0.00            | 0.000       | 300.00              | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 400.00                                  | 0.00            | 0.000       | 400.00              | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 500.00                                  | 0.00            | 0.000       | 500.00              | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 600.00                                  | 0.00            | 0.000       | 600.00              | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 700.00                                  | 0.00            | 0.000       | 700.00              | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 800.00                                  | 0.00            | 0.000       | 800.00              | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 900.00                                  | 0.00            | 0.000       | 900.00              | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 1,000.00                                | 0.00            | 0.000       | 1,000.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| <b>Start Build 2.00</b>                 |                 |             |                     |            |            |                       |                       |                      |                     |
| 1,100.00                                | 2.00            | 355.565     | 1,099.98            | 1.74       | -0.13      | 0.12                  | 2.00                  | 2.00                 | 0.00                |
| 1,200.00                                | 4.00            | 355.565     | 1,199.84            | 6.96       | -0.54      | 0.46                  | 2.00                  | 2.00                 | 0.00                |
| 1,300.00                                | 6.00            | 355.565     | 1,299.45            | 15.65      | -1.21      | 1.04                  | 2.00                  | 2.00                 | 0.00                |
| 1,400.00                                | 8.00            | 355.565     | 1,398.70            | 27.80      | -2.16      | 1.84                  | 2.00                  | 2.00                 | 0.00                |
| 1,500.00                                | 10.00           | 355.565     | 1,497.47            | 43.39      | -3.37      | 2.88                  | 2.00                  | 2.00                 | 0.00                |
| 1,600.00                                | 12.00           | 355.565     | 1,595.62            | 62.42      | -4.84      | 4.14                  | 2.00                  | 2.00                 | 0.00                |
| 1,700.00                                | 14.00           | 355.565     | 1,693.06            | 84.84      | -6.58      | 5.63                  | 2.00                  | 2.00                 | 0.00                |
| 1,800.00                                | 16.00           | 355.565     | 1,789.64            | 110.64     | -8.58      | 7.34                  | 2.00                  | 2.00                 | 0.00                |
| 1,900.00                                | 18.00           | 355.565     | 1,885.27            | 139.79     | -10.84     | 9.27                  | 2.00                  | 2.00                 | 0.00                |
| 2,000.00                                | 20.00           | 355.565     | 1,979.82            | 172.25     | -13.36     | 11.43                 | 2.00                  | 2.00                 | 0.00                |
| 2,100.00                                | 22.00           | 355.565     | 2,073.17            | 207.98     | -16.13     | 13.80                 | 2.00                  | 2.00                 | 0.00                |
| 2,172.62                                | 23.45           | 355.565     | 2,140.15            | 235.95     | -18.30     | 15.65                 | 2.00                  | 2.00                 | 0.00                |
| <b>Start 300.04 hold at 2172.62 MD</b>  |                 |             |                     |            |            |                       |                       |                      |                     |
| 2,200.00                                | 23.45           | 355.565     | 2,165.27            | 246.81     | -19.14     | 16.37                 | 0.00                  | 0.00                 | 0.00                |
| 2,300.00                                | 23.45           | 355.565     | 2,257.01            | 286.49     | -22.22     | 19.01                 | 0.00                  | 0.00                 | 0.00                |
| 2,400.00                                | 23.45           | 355.565     | 2,348.75            | 326.17     | -25.30     | 21.64                 | 0.00                  | 0.00                 | 0.00                |
| 2,472.66                                | 23.45           | 355.565     | 2,415.40            | 355.00     | -27.54     | 23.55                 | 0.00                  | 0.00                 | 0.00                |
| <b>Start Drop -1.50</b>                 |                 |             |                     |            |            |                       |                       |                      |                     |
| 2,500.00                                | 23.04           | 355.565     | 2,440.52            | 365.76     | -28.37     | 24.27                 | 1.50                  | -1.50                | 0.00                |
| 2,600.00                                | 21.54           | 355.565     | 2,533.05            | 403.58     | -31.31     | 26.77                 | 1.50                  | -1.50                | 0.00                |
| 2,700.00                                | 20.04           | 355.565     | 2,626.53            | 438.97     | -34.05     | 29.12                 | 1.50                  | -1.50                | 0.00                |
| 2,800.00                                | 18.54           | 355.565     | 2,720.91            | 471.91     | -36.61     | 31.31                 | 1.50                  | -1.50                | 0.00                |
| 2,900.00                                | 17.04           | 355.565     | 2,816.13            | 502.37     | -38.97     | 33.33                 | 1.50                  | -1.50                | 0.00                |
| 3,000.00                                | 15.54           | 355.565     | 2,912.11            | 530.34     | -41.14     | 35.18                 | 1.50                  | -1.50                | 0.00                |
| 3,100.00                                | 14.04           | 355.565     | 3,008.79            | 555.80     | -43.11     | 36.87                 | 1.50                  | -1.50                | 0.00                |
| 3,200.00                                | 12.54           | 355.565     | 3,106.11            | 578.72     | -44.89     | 38.39                 | 1.50                  | -1.50                | 0.00                |
| 3,300.00                                | 11.04           | 355.565     | 3,204.00            | 599.09     | -46.47     | 39.74                 | 1.50                  | -1.50                | 0.00                |
| 3,400.00                                | 9.54            | 355.565     | 3,302.39            | 616.91     | -47.85     | 40.93                 | 1.50                  | -1.50                | 0.00                |
| 3,500.00                                | 8.04            | 355.565     | 3,401.21            | 632.15     | -49.03     | 41.94                 | 1.50                  | -1.50                | 0.00                |
| 3,600.00                                | 6.54            | 355.565     | 3,500.40            | 644.80     | -50.02     | 42.78                 | 1.50                  | -1.50                | 0.00                |
| 3,700.00                                | 5.04            | 355.565     | 3,599.88            | 654.86     | -50.80     | 43.44                 | 1.50                  | -1.50                | 0.00                |
| 3,800.00                                | 3.54            | 355.565     | 3,699.60            | 662.32     | -51.38     | 43.94                 | 1.50                  | -1.50                | 0.00                |
| 3,900.00                                | 2.04            | 355.565     | 3,799.48            | 667.18     | -51.75     | 44.26                 | 1.50                  | -1.50                | 0.00                |
| 4,000.00                                | 0.54            | 355.565     | 3,899.45            | 669.43     | -51.93     | 44.41                 | 1.50                  | -1.50                | 0.00                |
| 4,036.15                                | 0.00            | 0.000       | 3,935.60            | 669.60     | -51.94     | 44.42                 | 1.50                  | -1.50                | 0.00                |
| <b>Start 1568.53 hold at 4036.15 MD</b> |                 |             |                     |            |            |                       |                       |                      |                     |
| 4,100.00                                | 0.00            | 0.000       | 3,999.45            | 669.60     | -51.94     | 44.42                 | 0.00                  | 0.00                 | 0.00                |
| 4,200.00                                | 0.00            | 0.000       | 4,099.45            | 669.60     | -51.94     | 44.42                 | 0.00                  | 0.00                 | 0.00                |
| 4,300.00                                | 0.00            | 0.000       | 4,199.45            | 669.60     | -51.94     | 44.42                 | 0.00                  | 0.00                 | 0.00                |
| 4,400.00                                | 0.00            | 0.000       | 4,299.45            | 669.60     | -51.94     | 44.42                 | 0.00                  | 0.00                 | 0.00                |
| 4,500.00                                | 0.00            | 0.000       | 4,399.45            | 669.60     | -51.94     | 44.42                 | 0.00                  | 0.00                 | 0.00                |
| 4,600.00                                | 0.00            | 0.000       | 4,499.45            | 669.60     | -51.94     | 44.42                 | 0.00                  | 0.00                 | 0.00                |

|                  |                                 |                                     |                                      |
|------------------|---------------------------------|-------------------------------------|--------------------------------------|
| <b>Database:</b> | Casper District                 | <b>Local Co-ordinate Reference:</b> | Well RSU Anschutz Fed 4-61-05-0909CN |
| <b>Company:</b>  | Bill Barrett Corp.              | <b>TVD Reference:</b>               | GL 4501.5' & KB 20' @ 4521.50ft      |
| <b>Project:</b>  | Weld County, CO NAD 83          | <b>MD Reference:</b>                | GL 4501.5' & KB 20' @ 4521.50ft      |
| <b>Site:</b>     | RSU Anschutz Fed 4-61-4 NW Pad  | <b>North Reference:</b>             | True                                 |
| <b>Well:</b>     | RSU Anschutz Fed 4-61-05-0909CN | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Wellbore:</b> | OH                              |                                     |                                      |
| <b>Design:</b>   | Plan 1                          |                                     |                                      |

| Planned Survey                           |                 |             |                     |            |            |                       |                       |                      |                     |
|--|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| Measured Depth (ft)                      | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 4,700.00                                 | 0.00            | 0.000       | 4,599.45            | 669.60     | -51.94     | 44.42                 | 0.00                  | 0.00                 | 0.00                |
| 4,800.00                                 | 0.00            | 0.000       | 4,699.45            | 669.60     | -51.94     | 44.42                 | 0.00                  | 0.00                 | 0.00                |
| 4,900.00                                 | 0.00            | 0.000       | 4,799.45            | 669.60     | -51.94     | 44.42                 | 0.00                  | 0.00                 | 0.00                |
| 5,000.00                                 | 0.00            | 0.000       | 4,899.45            | 669.60     | -51.94     | 44.42                 | 0.00                  | 0.00                 | 0.00                |
| 5,100.00                                 | 0.00            | 0.000       | 4,999.45            | 669.60     | -51.94     | 44.42                 | 0.00                  | 0.00                 | 0.00                |
| 5,200.00                                 | 0.00            | 0.000       | 5,099.45            | 669.60     | -51.94     | 44.42                 | 0.00                  | 0.00                 | 0.00                |
| 5,300.00                                 | 0.00            | 0.000       | 5,199.45            | 669.60     | -51.94     | 44.42                 | 0.00                  | 0.00                 | 0.00                |
| 5,400.00                                 | 0.00            | 0.000       | 5,299.45            | 669.60     | -51.94     | 44.42                 | 0.00                  | 0.00                 | 0.00                |
| 5,500.00                                 | 0.00            | 0.000       | 5,399.45            | 669.60     | -51.94     | 44.42                 | 0.00                  | 0.00                 | 0.00                |
| 5,600.00                                 | 0.00            | 0.000       | 5,499.45            | 669.60     | -51.94     | 44.42                 | 0.00                  | 0.00                 | 0.00                |
| 5,604.68                                 | 0.00            | 0.000       | 5,504.13            | 669.60     | -51.94     | 44.42                 | 0.00                  | 0.00                 | 0.00                |
| <b>Start DLS 11.00 TFO 269.36</b>        |                 |             |                     |            |            |                       |                       |                      |                     |
| 5,700.00                                 | 10.49           | 269.357     | 5,598.92            | 669.50     | -60.64     | 53.12                 | 11.00                 | 11.00                | 0.00                |
| 5,800.00                                 | 21.49           | 269.357     | 5,694.90            | 669.19     | -88.13     | 80.62                 | 11.00                 | 11.00                | 0.00                |
| 5,900.00                                 | 32.49           | 269.357     | 5,783.88            | 668.69     | -133.43    | 125.92                | 11.00                 | 11.00                | 0.00                |
| 6,000.00                                 | 43.49           | 269.357     | 5,862.58            | 668.00     | -194.88    | 187.37                | 11.00                 | 11.00                | 0.00                |
| 6,100.00                                 | 54.49           | 269.357     | 5,928.10            | 667.15     | -270.21    | 262.71                | 11.00                 | 11.00                | 0.00                |
| 6,200.00                                 | 65.49           | 269.357     | 5,978.05            | 666.18     | -356.67    | 349.17                | 11.00                 | 11.00                | 0.00                |
| 6,300.00                                 | 76.49           | 269.357     | 6,010.58            | 665.12     | -451.06    | 443.57                | 11.00                 | 11.00                | 0.00                |
| 6,400.00                                 | 87.49           | 269.357     | 6,024.50            | 664.01     | -549.92    | 542.44                | 11.00                 | 11.00                | 0.00                |
| 6,422.86                                 | 90.00           | 269.357     | 6,025.00            | 663.76     | -572.78    | 565.29                | 11.00                 | 11.00                | 0.00                |
| <b>Start 10746.98 hold at 6422.86 MD</b> |                 |             |                     |            |            |                       |                       |                      |                     |
| 6,500.00                                 | 90.00           | 269.357     | 6,025.00            | 662.89     | -649.91    | 642.43                | 0.00                  | 0.00                 | 0.00                |
| 6,600.00                                 | 90.00           | 269.357     | 6,025.00            | 661.77     | -749.90    | 742.43                | 0.00                  | 0.00                 | 0.00                |
| 6,700.00                                 | 90.00           | 269.357     | 6,025.00            | 660.65     | -849.90    | 842.43                | 0.00                  | 0.00                 | 0.00                |
| 6,800.00                                 | 90.00           | 269.357     | 6,025.00            | 659.53     | -949.89    | 942.43                | 0.00                  | 0.00                 | 0.00                |
| 6,900.00                                 | 90.00           | 269.357     | 6,025.00            | 658.41     | -1,049.88  | 1,042.43              | 0.00                  | 0.00                 | 0.00                |
| 7,000.00                                 | 90.00           | 269.357     | 6,025.00            | 657.28     | -1,149.88  | 1,142.43              | 0.00                  | 0.00                 | 0.00                |
| 7,100.00                                 | 90.00           | 269.357     | 6,025.00            | 656.16     | -1,249.87  | 1,242.43              | 0.00                  | 0.00                 | 0.00                |
| 7,200.00                                 | 90.00           | 269.357     | 6,025.00            | 655.04     | -1,349.87  | 1,342.43              | 0.00                  | 0.00                 | 0.00                |
| 7,300.00                                 | 90.00           | 269.357     | 6,025.00            | 653.92     | -1,449.86  | 1,442.43              | 0.00                  | 0.00                 | 0.00                |
| 7,400.00                                 | 90.00           | 269.357     | 6,025.00            | 652.80     | -1,549.85  | 1,542.43              | 0.00                  | 0.00                 | 0.00                |
| 7,500.00                                 | 90.00           | 269.357     | 6,025.00            | 651.68     | -1,649.85  | 1,642.43              | 0.00                  | 0.00                 | 0.00                |
| 7,600.00                                 | 90.00           | 269.357     | 6,025.00            | 650.56     | -1,749.84  | 1,742.43              | 0.00                  | 0.00                 | 0.00                |
| 7,700.00                                 | 90.00           | 269.357     | 6,025.00            | 649.43     | -1,849.83  | 1,842.43              | 0.00                  | 0.00                 | 0.00                |
| 7,800.00                                 | 90.00           | 269.357     | 6,025.00            | 648.31     | -1,949.83  | 1,942.43              | 0.00                  | 0.00                 | 0.00                |
| 7,900.00                                 | 90.00           | 269.357     | 6,025.00            | 647.19     | -2,049.82  | 2,042.43              | 0.00                  | 0.00                 | 0.00                |
| 8,000.00                                 | 90.00           | 269.357     | 6,025.00            | 646.07     | -2,149.82  | 2,142.43              | 0.00                  | 0.00                 | 0.00                |
| 8,100.00                                 | 90.00           | 269.357     | 6,025.00            | 644.95     | -2,249.81  | 2,242.43              | 0.00                  | 0.00                 | 0.00                |
| 8,200.00                                 | 90.00           | 269.357     | 6,025.00            | 643.83     | -2,349.80  | 2,342.43              | 0.00                  | 0.00                 | 0.00                |
| 8,300.00                                 | 90.00           | 269.357     | 6,025.00            | 642.70     | -2,449.80  | 2,442.43              | 0.00                  | 0.00                 | 0.00                |
| 8,400.00                                 | 90.00           | 269.357     | 6,025.00            | 641.58     | -2,549.79  | 2,542.43              | 0.00                  | 0.00                 | 0.00                |
| 8,500.00                                 | 90.00           | 269.357     | 6,025.00            | 640.46     | -2,649.78  | 2,642.43              | 0.00                  | 0.00                 | 0.00                |
| 8,600.00                                 | 90.00           | 269.357     | 6,025.00            | 639.34     | -2,749.78  | 2,742.43              | 0.00                  | 0.00                 | 0.00                |
| 8,700.00                                 | 90.00           | 269.357     | 6,025.00            | 638.22     | -2,849.77  | 2,842.43              | 0.00                  | 0.00                 | 0.00                |
| 8,800.00                                 | 90.00           | 269.357     | 6,025.00            | 637.10     | -2,949.77  | 2,942.43              | 0.00                  | 0.00                 | 0.00                |
| 8,900.00                                 | 90.00           | 269.357     | 6,025.00            | 635.97     | -3,049.76  | 3,042.43              | 0.00                  | 0.00                 | 0.00                |
| 9,000.00                                 | 90.00           | 269.357     | 6,025.00            | 634.85     | -3,149.75  | 3,142.43              | 0.00                  | 0.00                 | 0.00                |
| 9,100.00                                 | 90.00           | 269.357     | 6,025.00            | 633.73     | -3,249.75  | 3,242.43              | 0.00                  | 0.00                 | 0.00                |
| 9,200.00                                 | 90.00           | 269.357     | 6,025.00            | 632.61     | -3,349.74  | 3,342.43              | 0.00                  | 0.00                 | 0.00                |
| 9,300.00                                 | 90.00           | 269.357     | 6,025.00            | 631.49     | -3,449.73  | 3,442.43              | 0.00                  | 0.00                 | 0.00                |
| 9,400.00                                 | 90.00           | 269.357     | 6,025.00            | 630.37     | -3,549.73  | 3,542.43              | 0.00                  | 0.00                 | 0.00                |
| 9,500.00                                 | 90.00           | 269.357     | 6,025.00            | 629.24     | -3,649.72  | 3,642.43              | 0.00                  | 0.00                 | 0.00                |

|                  |                                 |                                     |                                      |
|------------------|---------------------------------|-------------------------------------|--------------------------------------|
| <b>Database:</b> | Casper District                 | <b>Local Co-ordinate Reference:</b> | Well RSU Anschutz Fed 4-61-05-0909CN |
| <b>Company:</b>  | Bill Barrett Corp.              | <b>TVD Reference:</b>               | GL 4501.5' & KB 20' @ 4521.50ft      |
| <b>Project:</b>  | Weld County, CO NAD 83          | <b>MD Reference:</b>                | GL 4501.5' & KB 20' @ 4521.50ft      |
| <b>Site:</b>     | RSU Anschutz Fed 4-61-4 NW Pad  | <b>North Reference:</b>             | True                                 |
| <b>Well:</b>     | RSU Anschutz Fed 4-61-05-0909CN | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Wellbore:</b> | OH                              |                                     |                                      |
| <b>Design:</b>   | Plan 1                          |                                     |                                      |

| Planned Survey      |                 |             |                     |            |            |                       |                       |                      |                     |  |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|--|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |  |
| 9,600.00            | 90.00           | 269.357     | 6,025.00            | 628.12     | -3,749.71  | 3,742.43              | 0.00                  | 0.00                 | 0.00                |  |
| 9,700.00            | 90.00           | 269.357     | 6,025.00            | 627.00     | -3,849.71  | 3,842.43              | 0.00                  | 0.00                 | 0.00                |  |
| 9,800.00            | 90.00           | 269.357     | 6,025.00            | 625.88     | -3,949.70  | 3,942.43              | 0.00                  | 0.00                 | 0.00                |  |
| 9,900.00            | 90.00           | 269.357     | 6,025.00            | 624.76     | -4,049.70  | 4,042.43              | 0.00                  | 0.00                 | 0.00                |  |
| 10,000.00           | 90.00           | 269.357     | 6,025.00            | 623.64     | -4,149.69  | 4,142.43              | 0.00                  | 0.00                 | 0.00                |  |
| 10,100.00           | 90.00           | 269.357     | 6,025.00            | 622.52     | -4,249.68  | 4,242.43              | 0.00                  | 0.00                 | 0.00                |  |
| 10,200.00           | 90.00           | 269.357     | 6,025.00            | 621.39     | -4,349.68  | 4,342.43              | 0.00                  | 0.00                 | 0.00                |  |
| 10,300.00           | 90.00           | 269.357     | 6,025.00            | 620.27     | -4,449.67  | 4,442.43              | 0.00                  | 0.00                 | 0.00                |  |
| 10,400.00           | 90.00           | 269.357     | 6,025.00            | 619.15     | -4,549.66  | 4,542.43              | 0.00                  | 0.00                 | 0.00                |  |
| 10,500.00           | 90.00           | 269.357     | 6,025.00            | 618.03     | -4,649.66  | 4,642.43              | 0.00                  | 0.00                 | 0.00                |  |
| 10,600.00           | 90.00           | 269.357     | 6,025.00            | 616.91     | -4,749.65  | 4,742.43              | 0.00                  | 0.00                 | 0.00                |  |
| 10,700.00           | 90.00           | 269.357     | 6,025.00            | 615.79     | -4,849.65  | 4,842.43              | 0.00                  | 0.00                 | 0.00                |  |
| 10,800.00           | 90.00           | 269.357     | 6,025.00            | 614.66     | -4,949.64  | 4,942.43              | 0.00                  | 0.00                 | 0.00                |  |
| 10,900.00           | 90.00           | 269.357     | 6,025.00            | 613.54     | -5,049.63  | 5,042.43              | 0.00                  | 0.00                 | 0.00                |  |
| 11,000.00           | 90.00           | 269.357     | 6,025.00            | 612.42     | -5,149.63  | 5,142.43              | 0.00                  | 0.00                 | 0.00                |  |
| 11,100.00           | 90.00           | 269.357     | 6,025.00            | 611.30     | -5,249.62  | 5,242.43              | 0.00                  | 0.00                 | 0.00                |  |
| 11,200.00           | 90.00           | 269.357     | 6,025.00            | 610.18     | -5,349.61  | 5,342.43              | 0.00                  | 0.00                 | 0.00                |  |
| 11,300.00           | 90.00           | 269.357     | 6,025.00            | 609.06     | -5,449.61  | 5,442.43              | 0.00                  | 0.00                 | 0.00                |  |
| 11,400.00           | 90.00           | 269.357     | 6,025.00            | 607.93     | -5,549.60  | 5,542.43              | 0.00                  | 0.00                 | 0.00                |  |
| 11,500.00           | 90.00           | 269.357     | 6,025.00            | 606.81     | -5,649.60  | 5,642.43              | 0.00                  | 0.00                 | 0.00                |  |
| 11,600.00           | 90.00           | 269.357     | 6,025.00            | 605.69     | -5,749.59  | 5,742.43              | 0.00                  | 0.00                 | 0.00                |  |
| 11,700.00           | 90.00           | 269.357     | 6,025.00            | 604.57     | -5,849.58  | 5,842.43              | 0.00                  | 0.00                 | 0.00                |  |
| 11,800.00           | 90.00           | 269.357     | 6,025.00            | 603.45     | -5,949.58  | 5,942.43              | 0.00                  | 0.00                 | 0.00                |  |
| 11,900.00           | 90.00           | 269.357     | 6,025.00            | 602.33     | -6,049.57  | 6,042.43              | 0.00                  | 0.00                 | 0.00                |  |
| 12,000.00           | 90.00           | 269.357     | 6,025.00            | 601.20     | -6,149.56  | 6,142.43              | 0.00                  | 0.00                 | 0.00                |  |
| 12,100.00           | 90.00           | 269.357     | 6,025.00            | 600.08     | -6,249.56  | 6,242.43              | 0.00                  | 0.00                 | 0.00                |  |
| 12,200.00           | 90.00           | 269.357     | 6,025.00            | 598.96     | -6,349.55  | 6,342.43              | 0.00                  | 0.00                 | 0.00                |  |
| 12,300.00           | 90.00           | 269.357     | 6,025.00            | 597.84     | -6,449.54  | 6,442.43              | 0.00                  | 0.00                 | 0.00                |  |
| 12,400.00           | 90.00           | 269.357     | 6,025.00            | 596.72     | -6,549.54  | 6,542.43              | 0.00                  | 0.00                 | 0.00                |  |
| 12,500.00           | 90.00           | 269.357     | 6,025.00            | 595.60     | -6,649.53  | 6,642.43              | 0.00                  | 0.00                 | 0.00                |  |
| 12,600.00           | 90.00           | 269.357     | 6,025.00            | 594.48     | -6,749.53  | 6,742.43              | 0.00                  | 0.00                 | 0.00                |  |
| 12,700.00           | 90.00           | 269.357     | 6,025.00            | 593.35     | -6,849.52  | 6,842.43              | 0.00                  | 0.00                 | 0.00                |  |
| 12,800.00           | 90.00           | 269.357     | 6,025.00            | 592.23     | -6,949.51  | 6,942.43              | 0.00                  | 0.00                 | 0.00                |  |
| 12,900.00           | 90.00           | 269.357     | 6,025.00            | 591.11     | -7,049.51  | 7,042.43              | 0.00                  | 0.00                 | 0.00                |  |
| 13,000.00           | 90.00           | 269.357     | 6,025.00            | 589.99     | -7,149.50  | 7,142.43              | 0.00                  | 0.00                 | 0.00                |  |
| 13,100.00           | 90.00           | 269.357     | 6,025.00            | 588.87     | -7,249.49  | 7,242.43              | 0.00                  | 0.00                 | 0.00                |  |
| 13,200.00           | 90.00           | 269.357     | 6,025.00            | 587.75     | -7,349.49  | 7,342.43              | 0.00                  | 0.00                 | 0.00                |  |
| 13,300.00           | 90.00           | 269.357     | 6,025.00            | 586.62     | -7,449.48  | 7,442.43              | 0.00                  | 0.00                 | 0.00                |  |
| 13,400.00           | 90.00           | 269.357     | 6,025.00            | 585.50     | -7,549.48  | 7,542.43              | 0.00                  | 0.00                 | 0.00                |  |
| 13,500.00           | 90.00           | 269.357     | 6,025.00            | 584.38     | -7,649.47  | 7,642.43              | 0.00                  | 0.00                 | 0.00                |  |
| 13,600.00           | 90.00           | 269.357     | 6,025.00            | 583.26     | -7,749.46  | 7,742.43              | 0.00                  | 0.00                 | 0.00                |  |
| 13,700.00           | 90.00           | 269.357     | 6,025.00            | 582.14     | -7,849.46  | 7,842.43              | 0.00                  | 0.00                 | 0.00                |  |
| 13,800.00           | 90.00           | 269.357     | 6,025.00            | 581.02     | -7,949.45  | 7,942.43              | 0.00                  | 0.00                 | 0.00                |  |
| 13,900.00           | 90.00           | 269.357     | 6,025.00            | 579.89     | -8,049.44  | 8,042.43              | 0.00                  | 0.00                 | 0.00                |  |
| 14,000.00           | 90.00           | 269.357     | 6,025.00            | 578.77     | -8,149.44  | 8,142.43              | 0.00                  | 0.00                 | 0.00                |  |
| 14,100.00           | 90.00           | 269.357     | 6,025.00            | 577.65     | -8,249.43  | 8,242.43              | 0.00                  | 0.00                 | 0.00                |  |
| 14,200.00           | 90.00           | 269.357     | 6,025.00            | 576.53     | -8,349.43  | 8,342.43              | 0.00                  | 0.00                 | 0.00                |  |
| 14,300.00           | 90.00           | 269.357     | 6,025.00            | 575.41     | -8,449.42  | 8,442.43              | 0.00                  | 0.00                 | 0.00                |  |
| 14,400.00           | 90.00           | 269.357     | 6,025.00            | 574.29     | -8,549.41  | 8,542.43              | 0.00                  | 0.00                 | 0.00                |  |
| 14,500.00           | 90.00           | 269.357     | 6,025.00            | 573.16     | -8,649.41  | 8,642.43              | 0.00                  | 0.00                 | 0.00                |  |
| 14,600.00           | 90.00           | 269.357     | 6,025.00            | 572.04     | -8,749.40  | 8,742.43              | 0.00                  | 0.00                 | 0.00                |  |
| 14,700.00           | 90.00           | 269.357     | 6,025.00            | 570.92     | -8,849.39  | 8,842.43              | 0.00                  | 0.00                 | 0.00                |  |
| 14,800.00           | 90.00           | 269.357     | 6,025.00            | 569.80     | -8,949.39  | 8,942.43              | 0.00                  | 0.00                 | 0.00                |  |
| 14,900.00           | 90.00           | 269.357     | 6,025.00            | 568.68     | -9,049.38  | 9,042.43              | 0.00                  | 0.00                 | 0.00                |  |

|                  |                                 |                                     |                                      |
|------------------|---------------------------------|-------------------------------------|--------------------------------------|
| <b>Database:</b> | Casper District                 | <b>Local Co-ordinate Reference:</b> | Well RSU Anschutz Fed 4-61-05-0909CN |
| <b>Company:</b>  | Bill Barrett Corp.              | <b>TVD Reference:</b>               | GL 4501.5' & KB 20' @ 4521.50ft      |
| <b>Project:</b>  | Weld County, CO NAD 83          | <b>MD Reference:</b>                | GL 4501.5' & KB 20' @ 4521.50ft      |
| <b>Site:</b>     | RSU Anschutz Fed 4-61-4 NW Pad  | <b>North Reference:</b>             | True                                 |
| <b>Well:</b>     | RSU Anschutz Fed 4-61-05-0909CN | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Wellbore:</b> | OH                              |                                     |                                      |
| <b>Design:</b>   | Plan 1                          |                                     |                                      |

| Planned Survey      |                 |             |                     |            |            |                       |                       |                      |                     |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 15,000.00           | 90.00           | 269.357     | 6,025.00            | 567.56     | -9,149.38  | 9,142.43              | 0.00                  | 0.00                 | 0.00                |
| 15,100.00           | 90.00           | 269.357     | 6,025.00            | 566.44     | -9,249.37  | 9,242.43              | 0.00                  | 0.00                 | 0.00                |
| 15,200.00           | 90.00           | 269.357     | 6,025.00            | 565.31     | -9,349.36  | 9,342.43              | 0.00                  | 0.00                 | 0.00                |
| 15,300.00           | 90.00           | 269.357     | 6,025.00            | 564.19     | -9,449.36  | 9,442.43              | 0.00                  | 0.00                 | 0.00                |
| 15,400.00           | 90.00           | 269.357     | 6,025.00            | 563.07     | -9,549.35  | 9,542.43              | 0.00                  | 0.00                 | 0.00                |
| 15,500.00           | 90.00           | 269.357     | 6,025.00            | 561.95     | -9,649.34  | 9,642.43              | 0.00                  | 0.00                 | 0.00                |
| 15,600.00           | 90.00           | 269.357     | 6,025.00            | 560.83     | -9,749.34  | 9,742.43              | 0.00                  | 0.00                 | 0.00                |
| 15,700.00           | 90.00           | 269.357     | 6,025.00            | 559.71     | -9,849.33  | 9,842.43              | 0.00                  | 0.00                 | 0.00                |
| 15,800.00           | 90.00           | 269.357     | 6,025.00            | 558.58     | -9,949.32  | 9,942.43              | 0.00                  | 0.00                 | 0.00                |
| 15,900.00           | 90.00           | 269.357     | 6,025.00            | 557.46     | -10,049.32 | 10,042.43             | 0.00                  | 0.00                 | 0.00                |
| 16,000.00           | 90.00           | 269.357     | 6,025.00            | 556.34     | -10,149.31 | 10,142.43             | 0.00                  | 0.00                 | 0.00                |
| 16,100.00           | 90.00           | 269.357     | 6,025.00            | 555.22     | -10,249.31 | 10,242.43             | 0.00                  | 0.00                 | 0.00                |
| 16,200.00           | 90.00           | 269.357     | 6,025.00            | 554.10     | -10,349.30 | 10,342.43             | 0.00                  | 0.00                 | 0.00                |
| 16,300.00           | 90.00           | 269.357     | 6,025.00            | 552.98     | -10,449.29 | 10,442.43             | 0.00                  | 0.00                 | 0.00                |
| 16,400.00           | 90.00           | 269.357     | 6,025.00            | 551.85     | -10,549.29 | 10,542.43             | 0.00                  | 0.00                 | 0.00                |
| 16,500.00           | 90.00           | 269.357     | 6,025.00            | 550.73     | -10,649.28 | 10,642.43             | 0.00                  | 0.00                 | 0.00                |
| 16,600.00           | 90.00           | 269.357     | 6,025.00            | 549.61     | -10,749.27 | 10,742.43             | 0.00                  | 0.00                 | 0.00                |
| 16,700.00           | 90.00           | 269.357     | 6,025.00            | 548.49     | -10,849.27 | 10,842.43             | 0.00                  | 0.00                 | 0.00                |
| 16,800.00           | 90.00           | 269.357     | 6,025.00            | 547.37     | -10,949.26 | 10,942.43             | 0.00                  | 0.00                 | 0.00                |
| 16,900.00           | 90.00           | 269.357     | 6,025.00            | 546.25     | -11,049.26 | 11,042.43             | 0.00                  | 0.00                 | 0.00                |
| 17,000.00           | 90.00           | 269.357     | 6,025.00            | 545.12     | -11,149.25 | 11,142.43             | 0.00                  | 0.00                 | 0.00                |
| 17,100.00           | 90.00           | 269.357     | 6,025.00            | 544.00     | -11,249.24 | 11,242.43             | 0.00                  | 0.00                 | 0.00                |
| 17,169.85           | 90.00           | 269.357     | 6,025.00            | 543.22     | -11,319.09 | 11,312.28             | 0.00                  | 0.00                 | 0.00                |
| TD at 17169.85      |                 |             |                     |            |            |                       |                       |                      |                     |

| Design Targets   |               |              |          |            |            |                 |                |                  |                   |
|--|---------------|--------------|----------|------------|------------|-----------------|----------------|------------------|-------------------|
| Target Name  | Dip Angle (°) | Dip Dir. (°) | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Northing (usft) | Easting (usft) | Latitude         | Longitude         |
| 4-61-05-0909CN LP  | 0.00          | 0.000        | 6,025.00 | 663.77     | -572.78    | 1,372,109.17    | 3,355,004.10   | 40° 20' 52.231 N | 104° 13' 34.619 W |
| - plan misses target center by 0.01ft at 6422.87ft MD (6025.00 TVD, 663.76 N, -572.78 E) |               |              |          |            |            |                 |                |                  |                   |
| - Point  |               |              |          |            |            |                 |                |                  |                   |
| 4-61-05-0909CN PBHL  | 0.00          | 0.000        | 6,025.00 | 543.22     | -11,319.09 | 1,371,834.03    | 3,344,260.66   | 40° 20' 51.014 N | 104° 15' 53.417 W |
| - plan hits target center  |               |              |          |            |            |                 |                |                  |                   |
| - Point  |               |              |          |            |            |                 |                |                  |                   |

| Plan Annotations    |                     |            |            |                                   |
|---------------------|---------------------|------------|------------|-----------------------------------|
| Measured Depth (ft) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Comment                           |
| 1,000.00            | 1,000.00            | 0.00       | 0.00       | Start Build 2.00                  |
| 2,172.62            | 2,140.15            | 235.95     | -18.30     | Start 300.04 hold at 2172.62 MD   |
| 2,472.66            | 2,415.40            | 355.00     | -27.54     | Start Drop -1.50                  |
| 4,036.15            | 3,935.60            | 669.60     | -51.94     | Start 1568.53 hold at 4036.15 MD  |
| 5,604.68            | 5,504.13            | 669.60     | -51.94     | Start DLS 11.00 TFO 269.36        |
| 6,422.86            | 6,025.00            | 663.76     | -572.78    | Start 10746.98 hold at 6422.86 MD |
| 17,169.85           | 6,025.00            | 543.22     | -11,319.09 | TD at 17169.85                    |