

Project: Garfield County, CO  
 Site: NPM M33 496 Pad  
 Well: BJU M33 FED 13A-33 496  
 Wellbore: Wellbore #1  
 Design: Design #1  
 Latitude: 39.653685  
 Longitude: -108.177735  
 Ground Level: 8401.0  
 RKB @ 8431.0usft (H&P #329)

| FORMATION TOP DETAILS |         |               |  |
|-----------------------|---------|---------------|--|
| TVDPath               | MDPath  | Formation     |  |
| 2414.0                | 2510.5  | Wasatch       |  |
| 5414.0                | 5670.8  | Wasatch G     |  |
| 5668.0                | 5938.4  | Fort Union    |  |
| 7502.0                | 7848.6  | Ohio Creek    |  |
| 7775.0                | 8121.7  | TOG           |  |
| 7775.0                | 8121.7  | Williams Fork |  |
| 10377.0               | 10724.6 | Cameo         |  |
| 11012.0               | 11359.9 | Rollins       |  |

#### REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well BJU M33 FED 13A-33 496 - Slot BJU M33 FED 13A-33 496, True North  
 Vertical (TVD) Reference: RKB @ 8431.0usft (H&P #329)  
 Section (VS) Reference: Slot - BJU M33 FED 13A-33 496(0.0N, 0.0E)  
 Measured Depth Reference: RKB @ 8431.0usft (H&P #329)  
 Calculation Method: Minimum Curvature

#### WELL DETAILS: BJU M33 FED 13A-33 496

+N/-S 0.0 +E/-W 0.0 Northing 14412434.90 Easting 2434854.00 Latitude 39.653685 Longitude BJU M33 FED 13A-33 496

#### PROJECT DETAILS: Garfield County, CO

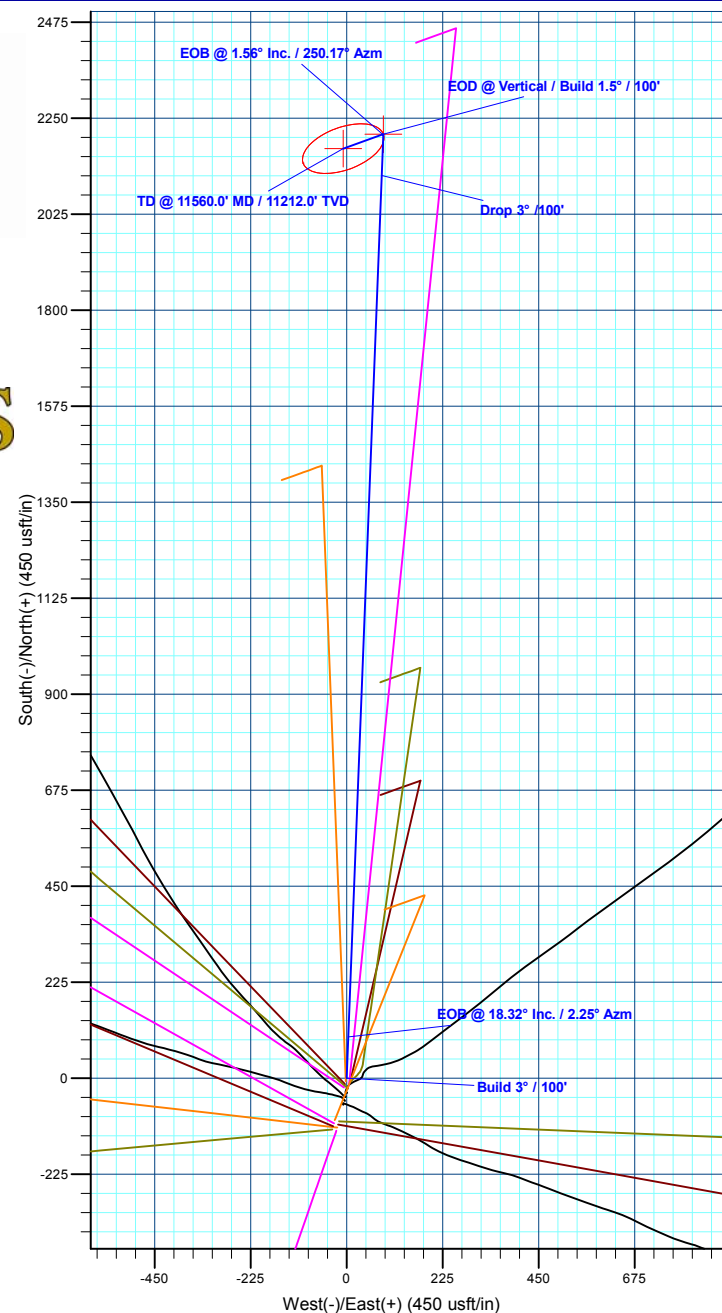
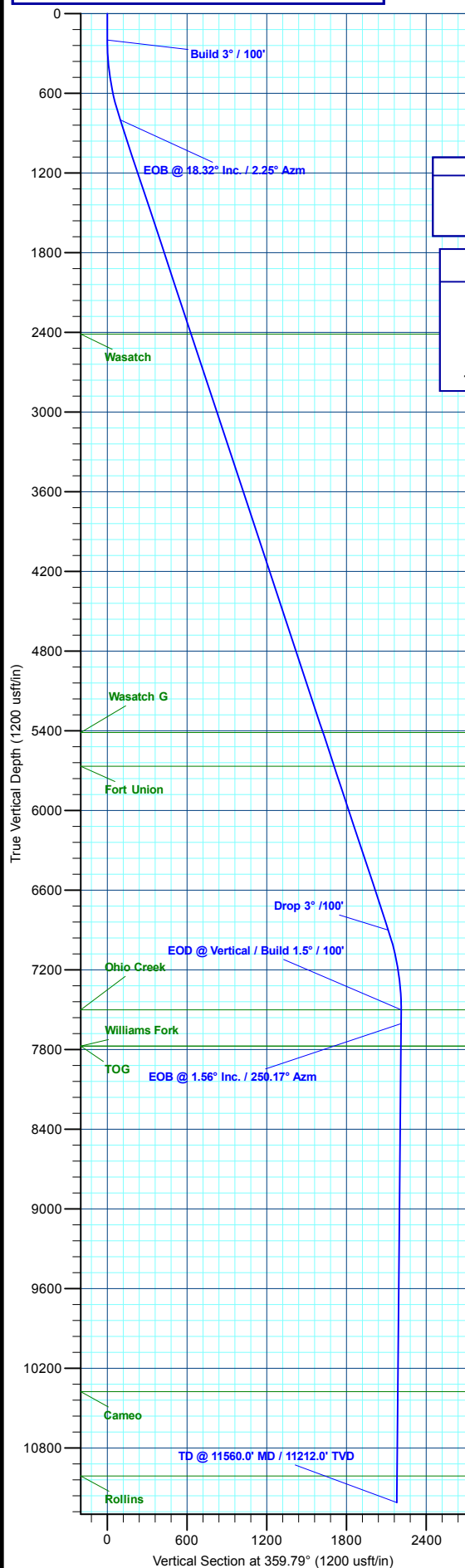
Geodetic System: Universal Transverse Mercator (US Survey Feet)  
 Datum: NAD 1927 - Western US  
 Ellipsoid: Clarke 1866  
 Zone: Zone 12N (114 W to 108 W)  
 System Datum: Mean Sea Level

#### DESIGN TARGET DETAILS

| Name                          | TVD     | +N/-S  | +E/-W | Northing    | Easting    | Latitude  | Longitude   |
|-------------------------------|---------|--------|-------|-------------|------------|-----------|-------------|
| OHCR - BJU M33 FED 13A-33 496 | 7502.0  | 212.6  | 86.0  | 14414649.08 | 2434870.35 | 39.659758 | -108.177430 |
| PBHL - BJU M33 FED 13A-33 496 | 11212.0 | 2178.6 | -8.0  | 14414612.20 | 2434777.50 | 39.659665 | -108.177763 |

#### SECTION DETAILS

| MD      | Inc   | Azi    | TVD     | +N/-S  | +E/-W | Dleg | TFace  | VSect  | Annotation                         |
|---------|-------|--------|---------|--------|-------|------|--------|--------|------------------------------------|
| 0.0     | 0.00  | 0.00   | 0.0     | 0.0    | 0.0   | 0.00 | 0.00   | 0.0    |                                    |
| 200.0   | 0.00  | 0.00   | 200.0   | 0.0    | 0.0   | 0.00 | 0.00   | 0.0    | Build 3° / 100'                    |
| 810.8   | 18.32 | 2.23   | 800.4   | 96.8   | 3.8   | 3.00 | 2.23   | 96.8   | EOB @ 18.32° Inc. / 2.25° Azm      |
| 7237.8  | 18.32 | 2.23   | 6901.6  | 2115.8 | 82.2  | 0.00 | 0.00   | 2115.5 | Drop 3° / 100'                     |
| 7848.6  | 0.00  | 0.00   | 7502.0  | 212.6  | 86.0  | 3.00 | 180.00 | 2212.2 | EOD @ Vertical / Build 1.5° / 100' |
| 7952.9  | 1.56  | 250.14 | 7606.3  | 2212.1 | 84.6  | 1.50 | 250.14 | 2211.8 | EOB @ 1.56° Inc. / 250.17° Azm     |
| 11560.0 | 1.56  | 250.14 | 11212.0 | 2178.6 | -8.0  | 0.00 | 0.00   | 2178.6 | TD @ 11560.0° MD / 11212.0° TVD    |



Plan: Design #1 (BJU M33 FED 13A-33 496/Wellbore #1)

Created By: Will Jircik

Date: 11:55, December 16 2019



## **Caerus Oil & Gas**

**Garfield County, CO**

**NPM M33 496 Pad**

**BJU M33 FED 13A-33 496 - Slot BJU M33 FED 13A-33 496**

**Wellbore #1**

**Plan: Design #1**

## **QES Well Planning Report**

**16 December, 2019**



|                  |                           |                                     |   |
|------------------|---------------------------|-------------------------------------|---|
| <b>Database:</b> | EDM 5000.1 Single User Db | <b>Local Co-ordinate Reference:</b> | Well BJU M33 FED 13A-33 496 - Slot BJU M33 FED 13A-33 496 |
| <b>Company:</b>  | Caerus Oil & Gas          | <b>TVD Reference:</b>               | RKB @ 8431.0usft (H&P #329)                               |
| <b>Project:</b>  | Garfield County, CO       | <b>MD Reference:</b>                | RKB @ 8431.0usft (H&P #329)                               |
| <b>Site:</b>     | NPM M33 496 Pad           | <b>North Reference:</b>             | True  |
| <b>Well:</b>     | BJU M33 FED 13A-33 496    | <b>Survey Calculation Method:</b>   | Minimum Curvature   |
| <b>Wellbore:</b> | Wellbore #1               |                                     |   |
| <b>Design:</b>   | Design #1                 |                                     |   |

|                    |  |                      |                |
|--------------------|--|----------------------|----------------|
| <b>Project</b>     | Garfield County, CO                          |                      |                |
| <b>Map System:</b> | Universal Transverse Mercator (US Survey Fee | <b>System Datum:</b> | Mean Sea Level |
| <b>Geo Datum:</b>  | NAD 1927 - Western US                        |                      |                |
| <b>Map Zone:</b>   | Zone 12N (114 W to 108 W)                    |                      |                |

|                              |                 |                          |                    |
|------------------------------|-----------------|--------------------------|--------------------|
| <b>Site</b>                  | NPM M33 496 Pad |                          |                    |
| <b>Site Position:</b>        |                 | <b>Northing:</b>         | 14,415,354.00 usft |
| <b>From:</b>                 | Map             | <b>Easting:</b>          | 2,447,010.80 usft  |
| <b>Position Uncertainty:</b> | 0.0 usft        | <b>Slot Radius:</b>      | 13-3/16 "          |
|                              |                 | <b>Latitude:</b>         | 39.660635          |
|                              |                 | <b>Longitude:</b>        | -108.134267        |
|                              |                 | <b>Grid Convergence:</b> | 1.83 °             |

|                             |  |                |                                     |
|-----------------------------|--|----------------|-------------------------------------|
| <b>Well</b>                 | BJU M33 FED 13A-33 496 - Slot BJU M33 FED 13A-33 496 |                |                                     |
| <b>Well Position</b>        | <b>+N/-S</b>   | -2,529.4 usft  | <b>Northing:</b> 14,412,434.90 usft |
|                             | <b>+E/-W</b>   | -12,243.8 usft | <b>Easting:</b> 2,434,854.00 usft   |
| <b>Position Uncertainty</b> |  | 0.0 usft       | <b>Latitude:</b> 39.653686          |
|                             |  |                | <b>Longitude:</b> -108.177735       |
|                             |  |                | <b>Ground Level:</b> 8,401.0 usft   |
|                             |  |                | <b>Wellhead Elevation:</b>          |

|                  |                   |                    |                        |                      |                            |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| <b>Wellbore</b>  | Wellbore #1       |                    |                        |                      |                            |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination (°)</b> | <b>Dip Angle (°)</b> | <b>Field Strength (nT)</b> |
|                  | HDGM_FILE         | 12/11/2019         | 9.48                   | 65.82                | 51,258.40000000            |

|                          |                                |                     |                      |                      |
|--------------------------|--------------------------------|---------------------|----------------------|----------------------|
| <b>Design</b>            | Design #1                      |                     |                      |                      |
| <b>Audit Notes:</b>      |                                |                     |                      |                      |
| <b>Version:</b>          | <b>Phase:</b>                  | PLAN                | <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                  | 359.79               |

|                              |                        |                    |                              |                     |                     |                                |                               |                              |                |                   |
|------------------------------|------------------------|--------------------|------------------------------|---------------------|---------------------|--------------------------------|-------------------------------|------------------------------|----------------|-------------------|
| <b>Plan Sections</b>         |                        |                    |                              |                     |                     |                                |                               |                              |                |                   |
| <b>Measured Depth (usft)</b> | <b>Inclination (°)</b> | <b>Azimuth (°)</b> | <b>Vertical Depth (usft)</b> | <b>+N/-S (usft)</b> | <b>+E/-W (usft)</b> | <b>Dogleg Rate (°/100usft)</b> | <b>Build Rate (°/100usft)</b> | <b>Turn Rate (°/100usft)</b> | <b>TFO (°)</b> | <b>Target</b>     |
| 0.0                          | 0.00                   | 0.00               | 0.0                          | 0.0                 | 0.0                 | 0.00                           | 0.00                          | 0.00                         | 0.00           |                   |
| 200.0                        | 0.00                   | 0.00               | 200.0                        | 0.0                 | 0.0                 | 0.00                           | 0.00                          | 0.00                         | 0.00           |                   |
| 810.8                        | 18.32                  | 2.23               | 800.4                        | 96.8                | 3.8                 | 3.00                           | 3.00                          | 0.00                         | 2.23           |                   |
| 7,237.8                      | 18.32                  | 2.23               | 6,901.6                      | 2,115.8             | 82.2                | 0.00                           | 0.00                          | 0.00                         | 0.00           |                   |
| 7,848.6                      | 0.00                   | 0.00               | 7,502.0                      | 2,212.6             | 86.0                | 3.00                           | -3.00                         | 0.00                         | 180.00         | OHCR - BJU M33 F  |
| 7,952.9                      | 1.56                   | 250.14             | 7,606.3                      | 2,212.1             | 84.6                | 1.50                           | 1.50                          | -105.33                      | 250.14         |                   |
| 11,560.0                     | 1.56                   | 250.14             | 11,212.0                     | 2,178.6             | -8.0                | 0.00                           | 0.00                          | 0.00                         | 0.00           | PBHL - BJU M33 FI |

|                  |                           |                                     |   |
|------------------|---------------------------|-------------------------------------|---|
| <b>Database:</b> | EDM 5000.1 Single User Db | <b>Local Co-ordinate Reference:</b> | Well BJU M33 FED 13A-33 496 - Slot BJU M33 FED 13A-33 496 |
| <b>Company:</b>  | Caerus Oil & Gas          | <b>TVD Reference:</b>               | RKB @ 8431.0usft (H&P #329)                               |
| <b>Project:</b>  | Garfield County, CO       | <b>MD Reference:</b>                | RKB @ 8431.0usft (H&P #329)                               |
| <b>Site:</b>     | NPM M33 496 Pad           | <b>North Reference:</b>             | True  |
| <b>Well:</b>     | BJU M33 FED 13A-33 496    | <b>Survey Calculation Method:</b>   | Minimum Curvature   |
| <b>Wellbore:</b> | Wellbore #1               |                                     |   |
| <b>Design:</b>   | Design #1                 |                                     |   |

## 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                  |
| <b>Build 3° / 100'</b>               |                 |             |                       |              |              |                         |                         |                        |                       |
| 200.0                                | 0.00            | 0.00        | 200.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 300.0                                | 3.00            | 2.23        | 300.0                 | 2.6          | 0.1          | 2.6                     | 3.00                    | 3.00                   | 0.00                  |
| 400.0                                | 6.00            | 2.23        | 399.6                 | 10.5         | 0.4          | 10.5                    | 3.00                    | 3.00                   | 0.00                  |
| 500.0                                | 9.00            | 2.23        | 498.8                 | 23.5         | 0.9          | 23.5                    | 3.00                    | 3.00                   | 0.00                  |
| 600.0                                | 12.00           | 2.23        | 597.1                 | 41.7         | 1.6          | 41.7                    | 3.00                    | 3.00                   | 0.00                  |
| 700.0                                | 15.00           | 2.23        | 694.3                 | 65.0         | 2.5          | 65.0                    | 3.00                    | 3.00                   | 0.00                  |
| 800.0                                | 18.00           | 2.23        | 790.2                 | 93.4         | 3.6          | 93.4                    | 3.00                    | 3.00                   | 0.00                  |
| <b>EOB @ 18.32° Inc. / 2.25° Azm</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 810.8                                | 18.32           | 2.23        | 800.4                 | 96.8         | 3.8          | 96.8                    | 3.00                    | 3.00                   | 0.00                  |
| 900.0                                | 18.32           | 2.23        | 885.1                 | 124.8        | 4.8          | 124.8                   | 0.00                    | 0.00                   | 0.00                  |
| 1,000.0                              | 18.32           | 2.23        | 980.0                 | 156.2        | 6.1          | 156.2                   | 0.00                    | 0.00                   | 0.00                  |
| 1,100.0                              | 18.32           | 2.23        | 1,075.0               | 187.6        | 7.3          | 187.6                   | 0.00                    | 0.00                   | 0.00                  |
| 1,200.0                              | 18.32           | 2.23        | 1,169.9               | 219.0        | 8.5          | 219.0                   | 0.00                    | 0.00                   | 0.00                  |
| 1,300.0                              | 18.32           | 2.23        | 1,264.8               | 250.5        | 9.7          | 250.4                   | 0.00                    | 0.00                   | 0.00                  |
| 1,400.0                              | 18.32           | 2.23        | 1,359.8               | 281.9        | 11.0         | 281.8                   | 0.00                    | 0.00                   | 0.00                  |
| 1,500.0                              | 18.32           | 2.23        | 1,454.7               | 313.3        | 12.2         | 313.2                   | 0.00                    | 0.00                   | 0.00                  |
| 1,600.0                              | 18.32           | 2.23        | 1,549.6               | 344.7        | 13.4         | 344.6                   | 0.00                    | 0.00                   | 0.00                  |
| 1,700.0                              | 18.32           | 2.23        | 1,644.6               | 376.1        | 14.6         | 376.1                   | 0.00                    | 0.00                   | 0.00                  |
| 1,800.0                              | 18.32           | 2.23        | 1,739.5               | 407.5        | 15.8         | 407.5                   | 0.00                    | 0.00                   | 0.00                  |
| 1,900.0                              | 18.32           | 2.23        | 1,834.4               | 438.9        | 17.1         | 438.9                   | 0.00                    | 0.00                   | 0.00                  |
| 2,000.0                              | 18.32           | 2.23        | 1,929.3               | 470.4        | 18.3         | 470.3                   | 0.00                    | 0.00                   | 0.00                  |
| 2,100.0                              | 18.32           | 2.23        | 2,024.3               | 501.8        | 19.5         | 501.7                   | 0.00                    | 0.00                   | 0.00                  |
| 2,200.0                              | 18.32           | 2.23        | 2,119.2               | 533.2        | 20.7         | 533.1                   | 0.00                    | 0.00                   | 0.00                  |
| 2,300.0                              | 18.32           | 2.23        | 2,214.1               | 564.6        | 21.9         | 564.5                   | 0.00                    | 0.00                   | 0.00                  |
| 2,400.0                              | 18.32           | 2.23        | 2,309.1               | 596.0        | 23.2         | 595.9                   | 0.00                    | 0.00                   | 0.00                  |
| 2,500.0                              | 18.32           | 2.23        | 2,404.0               | 627.4        | 24.4         | 627.3                   | 0.00                    | 0.00                   | 0.00                  |
| <b>Wasatch</b>                       |                 |             |                       |              |              |                         |                         |                        |                       |
| 2,510.5                              | 18.32           | 2.23        | 2,414.0               | 630.7        | 24.5         | 630.6                   | 0.00                    | 0.00                   | 0.00                  |
| 2,600.0                              | 18.32           | 2.23        | 2,498.9               | 658.8        | 25.6         | 658.7                   | 0.00                    | 0.00                   | 0.00                  |
| 2,700.0                              | 18.32           | 2.23        | 2,593.8               | 690.3        | 26.8         | 690.2                   | 0.00                    | 0.00                   | 0.00                  |
| 2,800.0                              | 18.32           | 2.23        | 2,688.8               | 721.7        | 28.0         | 721.6                   | 0.00                    | 0.00                   | 0.00                  |
| 2,900.0                              | 18.32           | 2.23        | 2,783.7               | 753.1        | 29.3         | 753.0                   | 0.00                    | 0.00                   | 0.00                  |
| 3,000.0                              | 18.32           | 2.23        | 2,878.6               | 784.5        | 30.5         | 784.4                   | 0.00                    | 0.00                   | 0.00                  |
| 3,100.0                              | 18.32           | 2.23        | 2,973.6               | 815.9        | 31.7         | 815.8                   | 0.00                    | 0.00                   | 0.00                  |
| 3,200.0                              | 18.32           | 2.23        | 3,068.5               | 847.3        | 32.9         | 847.2                   | 0.00                    | 0.00                   | 0.00                  |
| 3,300.0                              | 18.32           | 2.23        | 3,163.4               | 878.7        | 34.1         | 878.6                   | 0.00                    | 0.00                   | 0.00                  |
| 3,400.0                              | 18.32           | 2.23        | 3,258.4               | 910.2        | 35.4         | 910.0                   | 0.00                    | 0.00                   | 0.00                  |
| 3,500.0                              | 18.32           | 2.23        | 3,353.3               | 941.6        | 36.6         | 941.4                   | 0.00                    | 0.00                   | 0.00                  |
| 3,600.0                              | 18.32           | 2.23        | 3,448.2               | 973.0        | 37.8         | 972.8                   | 0.00                    | 0.00                   | 0.00                  |
| 3,700.0                              | 18.32           | 2.23        | 3,543.1               | 1,004.4      | 39.0         | 1,004.3                 | 0.00                    | 0.00                   | 0.00                  |
| 3,800.0                              | 18.32           | 2.23        | 3,638.1               | 1,035.8      | 40.2         | 1,035.7                 | 0.00                    | 0.00                   | 0.00                  |
| 3,900.0                              | 18.32           | 2.23        | 3,733.0               | 1,067.2      | 41.5         | 1,067.1                 | 0.00                    | 0.00                   | 0.00                  |
| 4,000.0                              | 18.32           | 2.23        | 3,827.9               | 1,098.7      | 42.7         | 1,098.5                 | 0.00                    | 0.00                   | 0.00                  |
| 4,100.0                              | 18.32           | 2.23        | 3,922.9               | 1,130.1      | 43.9         | 1,129.9                 | 0.00                    | 0.00                   | 0.00                  |
| 4,200.0                              | 18.32           | 2.23        | 4,017.8               | 1,161.5      | 45.1         | 1,161.3                 | 0.00                    | 0.00                   | 0.00                  |
| 4,300.0                              | 18.32           | 2.23        | 4,112.7               | 1,192.9      | 46.3         | 1,192.7                 | 0.00                    | 0.00                   | 0.00                  |
| 4,400.0                              | 18.32           | 2.23        | 4,207.7               | 1,224.3      | 47.6         | 1,224.1                 | 0.00                    | 0.00                   | 0.00                  |
| 4,500.0                              | 18.32           | 2.23        | 4,302.6               | 1,255.7      | 48.8         | 1,255.5                 | 0.00                    | 0.00                   | 0.00                  |
| 4,600.0                              | 18.32           | 2.23        | 4,397.5               | 1,287.1      | 50.0         | 1,286.9                 | 0.00                    | 0.00                   | 0.00                  |
| 4,700.0                              | 18.32           | 2.23        | 4,492.4               | 1,318.6      | 51.2         | 1,318.4                 | 0.00                    | 0.00                   | 0.00                  |

|                  |                           |                                     |   |
|------------------|---------------------------|-------------------------------------|---|
| <b>Database:</b> | EDM 5000.1 Single User Db | <b>Local Co-ordinate Reference:</b> | Well BJU M33 FED 13A-33 496 - Slot BJU M33 FED 13A-33 496 |
| <b>Company:</b>  | Caerus Oil & Gas          | <b>TVD Reference:</b>               | RKB @ 8431.0usft (H&P #329)                               |
| <b>Project:</b>  | Garfield County, CO       | <b>MD Reference:</b>                | RKB @ 8431.0usft (H&P #329)                               |
| <b>Site:</b>     | NPM M33 496 Pad           | <b>North Reference:</b>             | True  |
| <b>Well:</b>     | BJU M33 FED 13A-33 496    | <b>Survey Calculation Method:</b>   | Minimum Curvature   |
| <b>Wellbore:</b> | Wellbore #1               |                                     |   |
| <b>Design:</b>   | Design #1                 |                                     |   |

**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) |
|--|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 4,800.0  | 18.32           | 2.23        | 4,587.4               | 1,350.0      | 52.5         | 1,349.8                 | 0.00                    | 0.00                   | 0.00                  |
| 4,900.0  | 18.32           | 2.23        | 4,682.3               | 1,381.4      | 53.7         | 1,381.2                 | 0.00                    | 0.00                   | 0.00                  |
| 5,000.0  | 18.32           | 2.23        | 4,777.2               | 1,412.8      | 54.9         | 1,412.6                 | 0.00                    | 0.00                   | 0.00                  |
| 5,100.0  | 18.32           | 2.23        | 4,872.2               | 1,444.2      | 56.1         | 1,444.0                 | 0.00                    | 0.00                   | 0.00                  |
| 5,200.0  | 18.32           | 2.23        | 4,967.1               | 1,475.6      | 57.3         | 1,475.4                 | 0.00                    | 0.00                   | 0.00                  |
| 5,300.0  | 18.32           | 2.23        | 5,062.0               | 1,507.0      | 58.6         | 1,506.8                 | 0.00                    | 0.00                   | 0.00                  |
| 5,400.0  | 18.32           | 2.23        | 5,156.9               | 1,538.5      | 59.8         | 1,538.2                 | 0.00                    | 0.00                   | 0.00                  |
| 5,500.0  | 18.32           | 2.23        | 5,251.9               | 1,569.9      | 61.0         | 1,569.6                 | 0.00                    | 0.00                   | 0.00                  |
| 5,600.0  | 18.32           | 2.23        | 5,346.8               | 1,601.3      | 62.2         | 1,601.1                 | 0.00                    | 0.00                   | 0.00                  |
| <b>Wasatch G</b>                                       |                 |             |                       |              |              |                         |                         |                        |                       |
| 5,670.8  | 18.32           | 2.23        | 5,414.0               | 1,623.5      | 63.1         | 1,623.3                 | 0.00                    | 0.00                   | 0.00                  |
| 5,700.0  | 18.32           | 2.23        | 5,441.7               | 1,632.7      | 63.4         | 1,632.5                 | 0.00                    | 0.00                   | 0.00                  |
| 5,800.0  | 18.32           | 2.23        | 5,536.7               | 1,664.1      | 64.7         | 1,663.9                 | 0.00                    | 0.00                   | 0.00                  |
| 5,900.0  | 18.32           | 2.23        | 5,631.6               | 1,695.5      | 65.9         | 1,695.3                 | 0.00                    | 0.00                   | 0.00                  |
| <b>Fort Union</b>                                      |                 |             |                       |              |              |                         |                         |                        |                       |
| 5,938.4  | 18.32           | 2.23        | 5,668.0               | 1,707.6      | 66.3         | 1,707.3                 | 0.00                    | 0.00                   | 0.00                  |
| 6,000.0  | 18.32           | 2.23        | 5,726.5               | 1,726.9      | 67.1         | 1,726.7                 | 0.00                    | 0.00                   | 0.00                  |
| 6,100.0  | 18.32           | 2.23        | 5,821.5               | 1,758.4      | 68.3         | 1,758.1                 | 0.00                    | 0.00                   | 0.00                  |
| 6,200.0  | 18.32           | 2.23        | 5,916.4               | 1,789.8      | 69.5         | 1,789.5                 | 0.00                    | 0.00                   | 0.00                  |
| 6,300.0  | 18.32           | 2.23        | 6,011.3               | 1,821.2      | 70.8         | 1,820.9                 | 0.00                    | 0.00                   | 0.00                  |
| 6,400.0  | 18.32           | 2.23        | 6,106.2               | 1,852.6      | 72.0         | 1,852.3                 | 0.00                    | 0.00                   | 0.00                  |
| 6,500.0  | 18.32           | 2.23        | 6,201.2               | 1,884.0      | 73.2         | 1,883.7                 | 0.00                    | 0.00                   | 0.00                  |
| 6,600.0  | 18.32           | 2.23        | 6,296.1               | 1,915.4      | 74.4         | 1,915.2                 | 0.00                    | 0.00                   | 0.00                  |
| 6,700.0  | 18.32           | 2.23        | 6,391.0               | 1,946.9      | 75.6         | 1,946.6                 | 0.00                    | 0.00                   | 0.00                  |
| 6,800.0  | 18.32           | 2.23        | 6,486.0               | 1,978.3      | 76.9         | 1,978.0                 | 0.00                    | 0.00                   | 0.00                  |
| 6,900.0  | 18.32           | 2.23        | 6,580.9               | 2,009.7      | 78.1         | 2,009.4                 | 0.00                    | 0.00                   | 0.00                  |
| 7,000.0  | 18.32           | 2.23        | 6,675.8               | 2,041.1      | 79.3         | 2,040.8                 | 0.00                    | 0.00                   | 0.00                  |
| 7,100.0  | 18.32           | 2.23        | 6,770.7               | 2,072.5      | 80.5         | 2,072.2                 | 0.00                    | 0.00                   | 0.00                  |
| 7,200.0  | 18.32           | 2.23        | 6,865.7               | 2,103.9      | 81.7         | 2,103.6                 | 0.00                    | 0.00                   | 0.00                  |
| <b>Drop 3° /100'</b>                                   |                 |             |                       |              |              |                         |                         |                        |                       |
| 7,237.8  | 18.32           | 2.23        | 6,901.6               | 2,115.8      | 82.2         | 2,115.5                 | 0.00                    | 0.00                   | 0.00                  |
| 7,300.0  | 16.46           | 2.23        | 6,960.9               | 2,134.4      | 82.9         | 2,134.1                 | 3.00                    | -3.00                  | 0.00                  |
| 7,400.0  | 13.46           | 2.23        | 7,057.5               | 2,160.2      | 83.9         | 2,159.8                 | 3.00                    | -3.00                  | 0.00                  |
| 7,500.0  | 10.46           | 2.23        | 7,155.3               | 2,180.9      | 84.7         | 2,180.5                 | 3.00                    | -3.00                  | 0.00                  |
| 7,600.0  | 7.46            | 2.23        | 7,254.1               | 2,196.4      | 85.3         | 2,196.1                 | 3.00                    | -3.00                  | 0.00                  |
| 7,700.0  | 4.46            | 2.23        | 7,353.6               | 2,206.8      | 85.7         | 2,206.5                 | 3.00                    | -3.00                  | 0.00                  |
| 7,800.0  | 1.46            | 2.23        | 7,453.4               | 2,212.0      | 85.9         | 2,211.6                 | 3.00                    | -3.00                  | 0.00                  |
| <b>EOD @ Vertical / Build 1.5° / 100' - Ohio Creek</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 7,848.6  | 0.00            | 0.00        | 7,502.0               | 2,212.6      | 86.0         | 2,212.2                 | 3.00                    | -3.00                  | 0.00                  |
| 7,900.0  | 0.77            | 250.14      | 7,553.4               | 2,212.5      | 85.6         | 2,212.1                 | 1.50                    | 1.50                   | 0.00                  |
| <b>EOB @ 1.56° Inc. / 250.17° Azm</b>                  |                 |             |                       |              |              |                         |                         |                        |                       |
| 7,952.9  | 1.56            | 250.14      | 7,606.3               | 2,212.1      | 84.6         | 2,211.8                 | 1.50                    | 1.50                   | 0.00                  |
| 8,000.0  | 1.56            | 250.14      | 7,653.4               | 2,211.7      | 83.4         | 2,211.3                 | 0.00                    | 0.00                   | 0.00                  |
| 8,100.0  | 1.56            | 250.14      | 7,753.3               | 2,210.7      | 80.9         | 2,210.4                 | 0.00                    | 0.00                   | 0.00                  |
| <b>Williams Fork - TOG</b>                             |                 |             |                       |              |              |                         |                         |                        |                       |
| 8,121.7  | 1.56            | 250.14      | 7,775.0               | 2,210.5      | 80.3         | 2,210.2                 | 0.00                    | 0.00                   | 0.00                  |
| 8,200.0  | 1.56            | 250.14      | 7,853.3               | 2,209.8      | 78.3         | 2,209.5                 | 0.00                    | 0.00                   | 0.00                  |
| 8,300.0  | 1.56            | 250.14      | 7,953.3               | 2,208.9      | 75.7         | 2,208.6                 | 0.00                    | 0.00                   | 0.00                  |
| 8,400.0  | 1.56            | 250.14      | 8,053.2               | 2,207.9      | 73.1         | 2,207.7                 | 0.00                    | 0.00                   | 0.00                  |
| 8,500.0  | 1.56            | 250.14      | 8,153.2               | 2,207.0      | 70.6         | 2,206.7                 | 0.00                    | 0.00                   | 0.00                  |
| 8,600.0  | 1.56            | 250.14      | 8,253.1               | 2,206.1      | 68.0         | 2,205.8                 | 0.00                    | 0.00                   | 0.00                  |
| 8,700.0  | 1.56            | 250.14      | 8,353.1               | 2,205.2      | 65.4         | 2,204.9                 | 0.00                    | 0.00                   | 0.00                  |

|                  |                           |                                     |   |
|------------------|---------------------------|-------------------------------------|---|
| <b>Database:</b> | EDM 5000.1 Single User Db | <b>Local Co-ordinate Reference:</b> | Well BJU M33 FED 13A-33 496 - Slot BJU M33 FED 13A-33 496 |
| <b>Company:</b>  | Caerus Oil & Gas          | <b>TVD Reference:</b>               | RKB @ 8431.0usft (H&P #329)                               |
| <b>Project:</b>  | Garfield County, CO       | <b>MD Reference:</b>                | RKB @ 8431.0usft (H&P #329)                               |
| <b>Site:</b>     | NPM M33 496 Pad           | <b>North Reference:</b>             | True  |
| <b>Well:</b>     | BJU M33 FED 13A-33 496    | <b>Survey Calculation Method:</b>   | Minimum Curvature   |
| <b>Wellbore:</b> | Wellbore #1               |                                     |   |
| <b>Design:</b>   | Design #1                 |                                     |   |

| 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) |  |
| 8,800.0                         | 1.56            | 250.14      | 8,453.1               | 2,204.2      | 62.9         | 2,204.0                 | 0.00                    | 0.00                   | 0.00                  |  |
| 8,900.0                         | 1.56            | 250.14      | 8,553.0               | 2,203.3      | 60.3         | 2,203.1                 | 0.00                    | 0.00                   | 0.00                  |  |
| 9,000.0                         | 1.56            | 250.14      | 8,653.0               | 2,202.4      | 57.7         | 2,202.1                 | 0.00                    | 0.00                   | 0.00                  |  |
| 9,100.0                         | 1.56            | 250.14      | 8,753.0               | 2,201.4      | 55.2         | 2,201.2                 | 0.00                    | 0.00                   | 0.00                  |  |
| 9,200.0                         | 1.56            | 250.14      | 8,852.9               | 2,200.5      | 52.6         | 2,200.3                 | 0.00                    | 0.00                   | 0.00                  |  |
| 9,300.0                         | 1.56            | 250.14      | 8,952.9               | 2,199.6      | 50.0         | 2,199.4                 | 0.00                    | 0.00                   | 0.00                  |  |
| 9,400.0                         | 1.56            | 250.14      | 9,052.9               | 2,198.7      | 47.5         | 2,198.5                 | 0.00                    | 0.00                   | 0.00                  |  |
| 9,500.0                         | 1.56            | 250.14      | 9,152.8               | 2,197.7      | 44.9         | 2,197.6                 | 0.00                    | 0.00                   | 0.00                  |  |
| 9,600.0                         | 1.56            | 250.14      | 9,252.8               | 2,196.8      | 42.3         | 2,196.6                 | 0.00                    | 0.00                   | 0.00                  |  |
| 9,700.0                         | 1.56            | 250.14      | 9,352.7               | 2,195.9      | 39.8         | 2,195.7                 | 0.00                    | 0.00                   | 0.00                  |  |
| 9,800.0                         | 1.56            | 250.14      | 9,452.7               | 2,195.0      | 37.2         | 2,194.8                 | 0.00                    | 0.00                   | 0.00                  |  |
| 9,900.0                         | 1.56            | 250.14      | 9,552.7               | 2,194.0      | 34.6         | 2,193.9                 | 0.00                    | 0.00                   | 0.00                  |  |
| 10,000.0                        | 1.56            | 250.14      | 9,652.6               | 2,193.1      | 32.1         | 2,193.0                 | 0.00                    | 0.00                   | 0.00                  |  |
| 10,100.0                        | 1.56            | 250.14      | 9,752.6               | 2,192.2      | 29.5         | 2,192.0                 | 0.00                    | 0.00                   | 0.00                  |  |
| 10,200.0                        | 1.56            | 250.14      | 9,852.6               | 2,191.2      | 26.9         | 2,191.1                 | 0.00                    | 0.00                   | 0.00                  |  |
| 10,300.0                        | 1.56            | 250.14      | 9,952.5               | 2,190.3      | 24.4         | 2,190.2                 | 0.00                    | 0.00                   | 0.00                  |  |
| 10,400.0                        | 1.56            | 250.14      | 10,052.5              | 2,189.4      | 21.8         | 2,189.3                 | 0.00                    | 0.00                   | 0.00                  |  |
| 10,500.0                        | 1.56            | 250.14      | 10,152.4              | 2,188.5      | 19.2         | 2,188.4                 | 0.00                    | 0.00                   | 0.00                  |  |
| 10,600.0                        | 1.56            | 250.14      | 10,252.4              | 2,187.5      | 16.7         | 2,187.5                 | 0.00                    | 0.00                   | 0.00                  |  |
| 10,700.0                        | 1.56            | 250.14      | 10,352.4              | 2,186.6      | 14.1         | 2,186.5                 | 0.00                    | 0.00                   | 0.00                  |  |
| Cameo                           |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 10,724.6                        | 1.56            | 250.14      | 10,377.0              | 2,186.4      | 13.5         | 2,186.3                 | 0.00                    | 0.00                   | 0.00                  |  |
| 10,800.0                        | 1.56            | 250.14      | 10,452.3              | 2,185.7      | 11.5         | 2,185.6                 | 0.00                    | 0.00                   | 0.00                  |  |
| 10,900.0                        | 1.56            | 250.14      | 10,552.3              | 2,184.8      | 9.0          | 2,184.7                 | 0.00                    | 0.00                   | 0.00                  |  |
| 11,000.0                        | 1.56            | 250.14      | 10,652.3              | 2,183.8      | 6.4          | 2,183.8                 | 0.00                    | 0.00                   | 0.00                  |  |
| 11,100.0                        | 1.56            | 250.14      | 10,752.2              | 2,182.9      | 3.8          | 2,182.9                 | 0.00                    | 0.00                   | 0.00                  |  |
| 11,200.0                        | 1.56            | 250.14      | 10,852.2              | 2,182.0      | 1.2          | 2,181.9                 | 0.00                    | 0.00                   | 0.00                  |  |
| 11,300.0                        | 1.56            | 250.14      | 10,952.1              | 2,181.0      | -1.3         | 2,181.0                 | 0.00                    | 0.00                   | 0.00                  |  |
| Rollins                         |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 11,359.9                        | 1.56            | 250.14      | 11,012.0              | 2,180.5      | -2.9         | 2,180.5                 | 0.00                    | 0.00                   | 0.00                  |  |
| 11,400.0                        | 1.56            | 250.14      | 11,052.1              | 2,180.1      | -3.9         | 2,180.1                 | 0.00                    | 0.00                   | 0.00                  |  |
| 11,500.0                        | 1.56            | 250.14      | 11,152.1              | 2,179.2      | -6.5         | 2,179.2                 | 0.00                    | 0.00                   | 0.00                  |  |
| TD @ 11560.0' MD / 11212.0' TVD |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 11,560.0                        | 1.56            | 250.14      | 11,212.0              | 2,178.6      | -8.0         | 2,178.6                 | 0.00                    | 0.00                   | 0.00                  |  |

| Design Targets                               |               |              |            |              |              |                 |                |           |  |             |
|--|---------------|--------------|------------|--------------|--------------|-----------------|----------------|-----------|--|-------------|
| Target Name                                  |               |              |            |              |              |                 |                |           |  |             |
| - hit/miss target                            | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude  |  | Longitude   |
| - Shape                                      |               |              |            |              |              |                 |                |           |  |             |
| OHCR - BJU M33 FEI                           | 0.00          | 0.00         | 7,502.0    | 2,212.6      | 86.0         | 14,414,649.08   | 2,434,870.35   | 39.659758 |  | -108.177430 |
| - plan hits target center                    |               |              |            |              |              |                 |                |           |  |             |
| - Point                                      |               |              |            |              |              |                 |                |           |  |             |
| PBHL - BJU M33 FED                           | 0.00          | 0.00         | 11,212.0   | 2,178.6      | -8.0         | 14,414,612.20   | 2,434,777.50   | 39.659665 |  | -108.177763 |
| - plan hits target center                    |               |              |            |              |              |                 |                |           |  |             |
| - Ellipse (radii L100.0 W50.0 on 250.00 azi) |               |              |            |              |              |                 |                |           |  |             |

|                  |                           |                                     |   |
|------------------|---------------------------|-------------------------------------|---|
| <b>Database:</b> | EDM 5000.1 Single User Db | <b>Local Co-ordinate Reference:</b> | Well BJU M33 FED 13A-33 496 - Slot BJU M33 FED 13A-33 496 |
| <b>Company:</b>  | Caerus Oil & Gas          | <b>TVD Reference:</b>               | RKB @ 8431.0usft (H&P #329)                               |
| <b>Project:</b>  | Garfield County, CO       | <b>MD Reference:</b>                | RKB @ 8431.0usft (H&P #329)                               |
| <b>Site:</b>     | NPM M33 496 Pad           | <b>North Reference:</b>             | True  |
| <b>Well:</b>     | BJU M33 FED 13A-33 496    | <b>Survey Calculation Method:</b>   | Minimum Curvature   |
| <b>Wellbore:</b> | Wellbore #1               |                                     |   |
| <b>Design:</b>   | Design #1                 |                                     |   |

#### Formations

| Measured Depth (usft) | Vertical Depth (usft) | Name          | Lithology | Dip (°) | Dip Direction (°) |
|-----------------------|-----------------------|---------------|-----------|---------|-------------------|
| 2,510.5               | 2,414.0               | Wasatch       |           |         |                   |
| 5,670.8               | 5,414.0               | Wasatch G     |           |         |                   |
| 5,938.4               | 5,668.0               | Fort Union    |           |         |                   |
| 7,848.6               | 7,502.0               | Ohio Creek    |           |         |                   |
| 8,121.7               | 7,775.0               | Williams Fork |           |         |                   |
| 8,121.7               | 7,775.0               | TOG           |           |         |                   |
| 10,724.6              | 10,377.0              | Cameo         |           |         |                   |
| 11,359.9              | 11,012.0              | Rollins       |           |         |                   |

#### Plan Annotations

| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates |              | Comment                            |
|-----------------------|-----------------------|-------------------|--------------|------------------------------------|
|                       |                       | +N/-S (usft)      | +E/-W (usft) |                                    |
| 200.0                 | 200.0                 | 0.0               | 0.0          | Build 3° / 100'                    |
| 810.8                 | 800.4                 | 96.8              | 3.8          | EOB @ 18.32° Inc. / 2.25° Azm      |
| 7,237.8               | 6,901.6               | 2,115.8           | 82.2         | Drop 3° / 100'                     |
| 7,848.6               | 7,502.0               | 2,212.6           | 86.0         | EOD @ Vertical / Build 1.5° / 100' |
| 7,952.9               | 7,606.3               | 2,212.1           | 84.6         | EOB @ 1.56° Inc. / 250.17° Azm     |
| 11,560.0              | 11,212.0              | 2,178.6           | -8.0         | TD @ 11560.0' MD / 11212.0' TVD    |