

Project: Rio Blanco County, CO  
 Site: ELU O13 496 Pad  
 Well: ELU O13 FED 13A-13 496  
 Wellbore: Wellbore #1  
 Design: Design #1  
 Latitude: 39.698701  
 Longitude: -108.114962  
 Ground Level: 8118.0  
 RKB @ 8148.0usft (30')

PROJECT DETAILS: Rio Blanco 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

REFERENCE INFORMATION

Vertical (TVD) Reference: RKB @ 8148.0usft (30')  
 Section (VS) Reference: Slot - ELU O13 FED 13A-13 496(0.0N, 0.0E)  
 Measured Depth Reference: RKB @ 8148.0usft (30')  
 Calculation Method: Minimum Curvature

FORMATION TOP DETAILS

| TVDPath | MDPath  | Formation        |
|---------|---------|------------------|
| 4017.0  | 4182.1  | Wasatch          |
| 6417.0  | 6700.4  | Wasatch G        |
| 7017.0  | 7015.2  | Fort Union       |
| 8560.0  | 8929.7  | Ohio Creek / TOG |
| 9143.0  | 9512.9  | Williams Fork    |
| 11976.0 | 12346.7 | Cameo            |
| 12476.0 | 12846.9 | Rollins          |

SECTION DETAILS

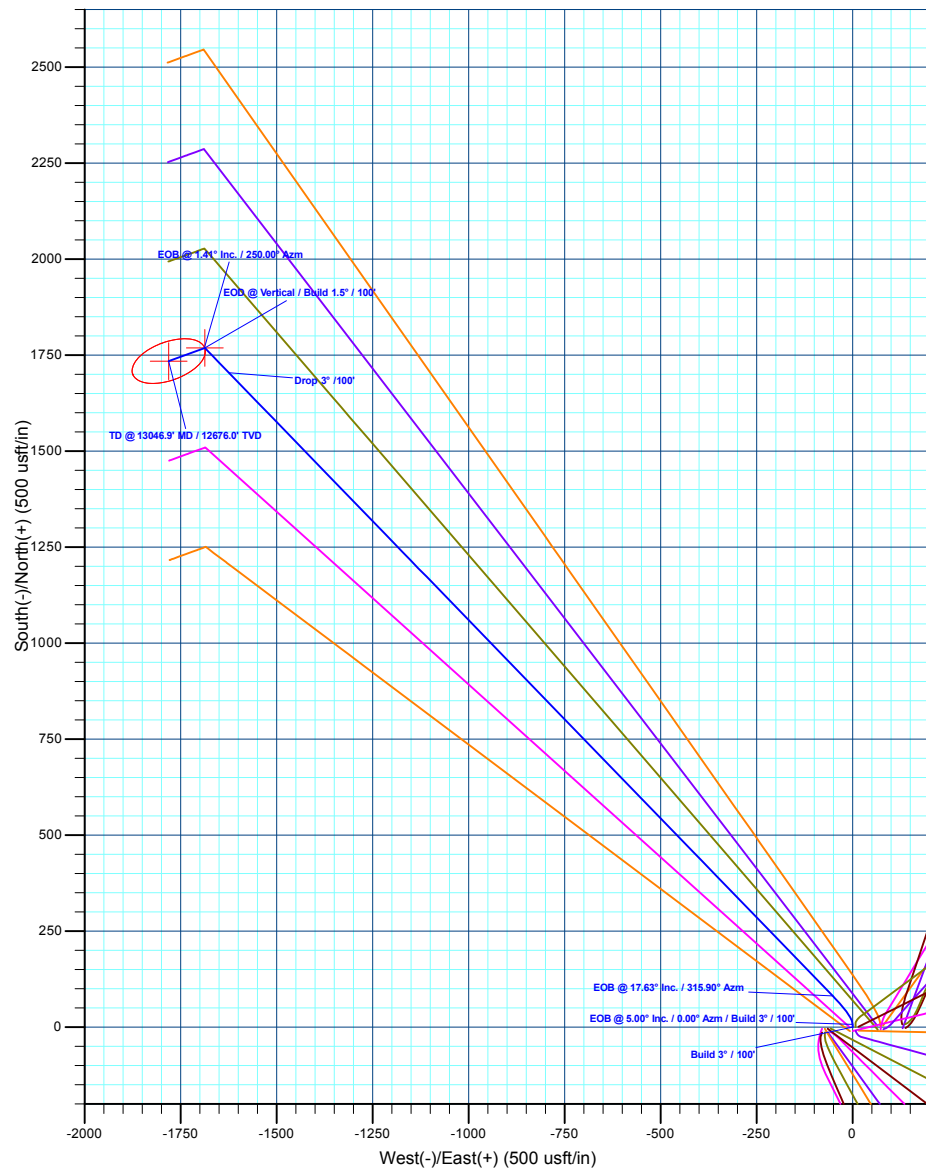
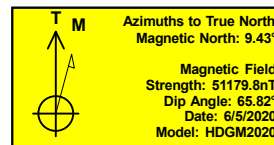
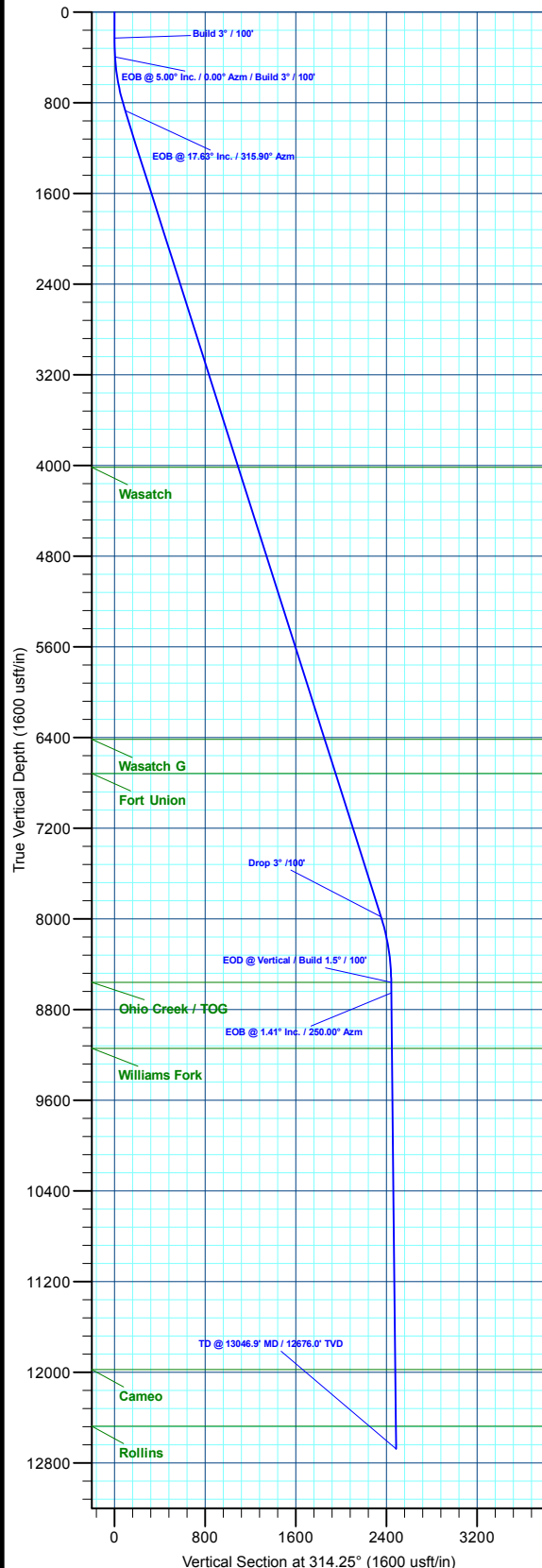
| MD      | Inc   | Azi    | TVD     | +N/-S  | +E/-W   | Dieg | TFace  | VSect  | Annotation                                     |
|---------|-------|--------|---------|--------|---------|------|--------|--------|--|
| 0.0     | 0.00  | 0.00   | 0.0     | 0.0    | 0.0     | 0.00 | 0.00   | 0.0    | Build 3° / 100'                                |
| 230.0   | 0.00  | 0.00   | 230.0   | 0.0    | 0.0     | 0.00 | 0.00   | 0.0    | EOB @ 5.00° Inc. / 0.00° Azm / Build 3° / 100' |
| 396.7   | 5.00  | 0.00   | 396.5   | 7.3    | 0.0     | 3.00 | 0.00   | 5.1    | EOB @ 17.63° Inc. / 315.90° Azm                |
| 878.4   | 17.63 | 315.90 | 868.4   | 81.0   | -51.0   | 3.00 | -57.63 | 93.1   | Drop 3° / 100'                                 |
| 8342.0  | 17.63 | 315.90 | 7981.6  | 1704.3 | -1624.2 | 0.00 | 0.00   | 2352.7 | EOB @ Vertical / Build 1.5° / 100'             |
| 8929.7  | 0.00  | 0.00   | 8560.0  | 1768.7 | -1686.6 | 3.00 | 180.00 | 2442.3 | EOB @ 1.41° Inc. / 250.00° Azm                 |
| 9023.6  | 1.41  | 250.00 | 8653.8  | 1768.3 | -1687.7 | 1.50 | 250.00 | 2442.8 | TD @ 13046.9' MD / 12676.0' TVD                |
| 13046.9 | 1.41  | 250.00 | 12676.0 | 1734.5 | -1780.6 | 0.00 | 0.00   | 2485.8 |  |

DESIGN TARGET DETAILS

| Name          | TVD     | +N/-S  | +E/-W   | Northing    | Easting    | Latitude  | Longitude   |
|---------------|---------|--------|---------|-------------|------------|-----------|-------------|
| OHCR - 13A-13 | 8560.0  | 1768.7 | -1686.6 | 14431105.21 | 2450256.42 | 39.703555 | -108.120954 |
| PBHL - 13A-13 | 12676.0 | 1734.5 | -1780.6 | 14431068.00 | 2450163.60 | 39.703461 | -108.121288 |

WELL DETAILS: ELU O13 FED 13A-13 496

| +N/-S | +E/-W | Ground Level : 8118.0 | Northing    | Easting    | Latitude  | Longitude   |
|-------|-------|-----------------------|-------------|------------|-----------|-------------|
| 0.0   | 0.0   |                       | 14429391.70 | 2451999.10 | 39.698701 | -108.114962 |



Plan: Design #1 (ELU O13 FED 13A-13 496/Wellbore #1)

Created By: Will Jircik

Date: 16:40, June 18 2020



## **Caerus Oil & Gas**

**Rio Blanco County, CO**

**ELU O13 496 Pad**

**ELU O13 FED 13A-13 496 - Slot ELU O13 FED 13A-13 496**

**Wellbore #1**

**Plan: Design #1**

## **QES Well Planning Report**

**18 June, 2020**



|                  |                           |                                     |   |
|------------------|---------------------------|-------------------------------------|---|
| <b>Database:</b> | EDM 5000.1 Single User Db | <b>Local Co-ordinate Reference:</b> | Well ELU O13 FED 13A-13 496 - Slot ELU O13 FED 13A-13 496 |
| <b>Company:</b>  | Caerus Oil & Gas          | <b>TVD Reference:</b>               | RKB @ 8148.0usft (30')                                    |
| <b>Project:</b>  | Rio Blanco County, CO     | <b>MD Reference:</b>                | RKB @ 8148.0usft (30')                                    |
| <b>Site:</b>     | ELU O13 496 Pad           | <b>North Reference:</b>             | True  |
| <b>Well:</b>     | ELU O13 FED 13A-13 496    | <b>Survey Calculation Method:</b>   | Minimum Curvature   |
| <b>Wellbore:</b> | Wellbore #1               |                                     |   |
| <b>Design:</b>   | Design #1                 |                                     |   |

|                    |  |                      |                |
|--------------------|--|----------------------|----------------|
| <b>Project</b>     | Rio Blanco 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>                  | ELU O13 496 Pad |                          |                    |
| <b>Site Position:</b>        |                 | <b>Northing:</b>         | 14,429,398.00 usft |
| <b>From:</b>                 | Map             | <b>Easting:</b>          | 2,452,071.40 usft  |
| <b>Position Uncertainty:</b> | 0.0 usft        | <b>Slot Radius:</b>      | 13-3/16 "          |
|                              |                 | <b>Latitude:</b>         | 39.698712          |
|                              |                 | <b>Longitude:</b>        | -108.114705        |
|                              |                 | <b>Grid Convergence:</b> | 1.84 °             |

|                             |  |            |                            |
|-----------------------------|--|------------|----------------------------|
| <b>Well</b>                 | ELU O13 FED 13A-13 496 - Slot ELU O13 FED 13A-13 496 |            |                            |
| <b>Well Position</b>        | <b>+N/-S</b>   | -4.0 usft  | <b>Northing:</b>           |
|                             | <b>+E/-W</b>   | -72.5 usft | <b>Easting:</b>            |
| <b>Position Uncertainty</b> |  | 0.0 usft   | <b>Wellhead Elevation:</b> |
|                             |  |            | <b>Latitude:</b>           |
|                             |  |            | <b>Longitude:</b>          |
|                             |  |            | <b>Ground Level:</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> |
|                  | HDGM2020          | 6/5/2020           | 9.43                   | 65.82                | 51,179.80000000            |

|                          |                                |                     |                      |                      |  |
|--------------------------|--------------------------------|---------------------|----------------------|----------------------|--|
| <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                  | 314.25               |  |

|                              |                        |                    |                              |                     |                     |                                |                               |                              |                |               |
|------------------------------|------------------------|--------------------|------------------------------|---------------------|---------------------|--------------------------------|-------------------------------|------------------------------|----------------|---------------|
| <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           |               |
| 230.0                        | 0.00                   | 0.00               | 230.0                        | 0.0                 | 0.0                 | 0.00                           | 0.00                          | 0.00                         | 0.00           |               |
| 396.7                        | 5.00                   | 0.00               | 396.5                        | 7.3                 | 0.0                 | 3.00                           | 3.00                          | 0.00                         | 0.00           |               |
| 878.4                        | 17.63                  | 315.90             | 868.4                        | 81.0                | -51.0               | 3.00                           | 2.62                          | -9.16                        | -57.63         |               |
| 8,342.0                      | 17.63                  | 315.90             | 7,981.6                      | 1,704.3             | -1,624.2            | 0.00                           | 0.00                          | 0.00                         | 0.00           |               |
| 8,929.7                      | 0.00                   | 0.00               | 8,560.0                      | 1,768.7             | -1,686.6            | 3.00                           | -3.00                         | 0.00                         | 180.00         | OHCR - 13A-13 |
| 9,023.6                      | 1.41                   | 250.00             | 8,653.8                      | 1,768.3             | -1,687.7            | 1.50                           | 1.50                          | -117.20                      | 250.00         |               |
| 13,046.9                     | 1.41                   | 250.00             | 12,676.0                     | 1,734.5             | -1,780.6            | 0.00                           | 0.00                          | 0.00                         | 0.00           | PBHL - 13A-13 |

|                  |                           |                                     |   |
|------------------|---------------------------|-------------------------------------|---|
| <b>Database:</b> | EDM 5000.1 Single User Db | <b>Local Co-ordinate Reference:</b> | Well ELU O13 FED 13A-13 496 - Slot ELU O13 FED 13A-13 496 |
| <b>Company:</b>  | Caerus Oil & Gas          | <b>TVD Reference:</b>               | RKB @ 8148.0usft (30')                                    |
| <b>Project:</b>  | Rio Blanco County, CO     | <b>MD Reference:</b>                | RKB @ 8148.0usft (30')                                    |
| <b>Site:</b>     | ELU O13 496 Pad           | <b>North Reference:</b>             | True  |
| <b>Well:</b>     | ELU O13 FED 13A-13 496    | <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                  |
| 200.0   | 0.00            | 0.00        | 200.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| <b>Build 3° / 100'</b>                                |                 |             |                       |              |              |                         |                         |                        |                       |
| 230.0   | 0.00            | 0.00        | 230.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 300.0   | 2.10            | 0.00        | 300.0                 | 1.3          | 0.0          | 0.9                     | 3.00                    | 3.00                   | 0.00                  |
| <b>EOB @ 5.00° Inc. / 0.00° Azm / Build 3° / 100'</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 396.7   | 5.00            | 0.00        | 396.5                 | 7.3          | 0.0          | 5.1                     | 3.00                    | 3.00                   | 0.00                  |
| 400.0   | 5.05            | 359.04      | 399.8                 | 7.6          | 0.0          | 5.3                     | 3.00                    | 1.63                   | -28.76                |
| 500.0   | 7.15            | 338.49      | 499.2                 | 17.8         | -2.4         | 14.1                    | 3.00                    | 2.10                   | -20.56                |
| 600.0   | 9.74            | 327.95      | 598.1                 | 30.7         | -9.1         | 28.0                    | 3.00                    | 2.58                   | -10.54                |
| 700.0   | 12.51           | 321.91      | 696.2                 | 46.4         | -20.3        | 46.9                    | 3.00                    | 2.77                   | -6.04                 |
| 800.0   | 15.36           | 318.05      | 793.3                 | 64.8         | -35.8        | 70.9                    | 3.00                    | 2.85                   | -3.85                 |
| <b>EOB @ 17.63° Inc. / 315.90° Azm</b>                |                 |             |                       |              |              |                         |                         |                        |                       |
| 878.4   | 17.63           | 315.90      | 868.4                 | 81.0         | -51.0        | 93.1                    | 3.00                    | 2.90                   | -2.75                 |
| 900.0   | 17.63           | 315.90      | 889.0                 | 85.7         | -55.6        | 99.7                    | 0.00                    | 0.00                   | 0.00                  |
| 1,000.0   | 17.63           | 315.90      | 984.4                 | 107.5        | -76.7        | 129.9                   | 0.00                    | 0.00                   | 0.00                  |
| 1,100.0   | 17.63           | 315.90      | 1,079.7               | 129.2        | -97.8        | 160.2                   | 0.00                    | 0.00                   | 0.00                  |
| 1,200.0   | 17.63           | 315.90      | 1,175.0               | 151.0        | -118.8       | 190.5                   | 0.00                    | 0.00                   | 0.00                  |
| 1,300.0   | 17.63           | 315.90      | 1,270.3               | 172.7        | -139.9       | 220.7                   | 0.00                    | 0.00                   | 0.00                  |
| 1,400.0   | 17.63           | 315.90      | 1,365.6               | 194.5        | -161.0       | 251.0                   | 0.00                    | 0.00                   | 0.00                  |
| 1,500.0   | 17.63           | 315.90      | 1,460.9               | 216.2        | -182.1       | 281.3                   | 0.00                    | 0.00                   | 0.00                  |
| 1,600.0   | 17.63           | 315.90      | 1,556.2               | 238.0        | -203.1       | 311.6                   | 0.00                    | 0.00                   | 0.00                  |
| 1,700.0   | 17.63           | 315.90      | 1,651.5               | 259.7        | -224.2       | 341.8                   | 0.00                    | 0.00                   | 0.00                  |
| 1,800.0   | 17.63           | 315.90      | 1,746.8               | 281.5        | -245.3       | 372.1                   | 0.00                    | 0.00                   | 0.00                  |
| 1,900.0   | 17.63           | 315.90      | 1,842.1               | 303.2        | -266.4       | 402.4                   | 0.00                    | 0.00                   | 0.00                  |
| 2,000.0   | 17.63           | 315.90      | 1,937.4               | 325.0        | -287.5       | 432.7                   | 0.00                    | 0.00                   | 0.00                  |
| 2,100.0   | 17.63           | 315.90      | 2,032.7               | 346.7        | -308.5       | 462.9                   | 0.00                    | 0.00                   | 0.00                  |
| 2,200.0   | 17.63           | 315.90      | 2,128.0               | 368.5        | -329.6       | 493.2                   | 0.00                    | 0.00                   | 0.00                  |
| 2,300.0   | 17.63           | 315.90      | 2,223.3               | 390.2        | -350.7       | 523.5                   | 0.00                    | 0.00                   | 0.00                  |
| 2,400.0   | 17.63           | 315.90      | 2,318.6               | 412.0        | -371.8       | 553.8                   | 0.00                    | 0.00                   | 0.00                  |
| 2,500.0   | 17.63           | 315.90      | 2,413.9               | 433.7        | -392.8       | 584.0                   | 0.00                    | 0.00                   | 0.00                  |
| 2,600.0   | 17.63           | 315.90      | 2,509.2               | 455.5        | -413.9       | 614.3                   | 0.00                    | 0.00                   | 0.00                  |
| 2,700.0   | 17.63           | 315.90      | 2,604.5               | 477.2        | -435.0       | 644.6                   | 0.00                    | 0.00                   | 0.00                  |
| 2,800.0   | 17.63           | 315.90      | 2,699.8               | 499.0        | -456.1       | 674.9                   | 0.00                    | 0.00                   | 0.00                  |
| 2,900.0   | 17.63           | 315.90      | 2,795.1               | 520.7        | -477.2       | 705.1                   | 0.00                    | 0.00                   | 0.00                  |
| 3,000.0   | 17.63           | 315.90      | 2,890.4               | 542.5        | -498.2       | 735.4                   | 0.00                    | 0.00                   | 0.00                  |
| 3,100.0   | 17.63           | 315.90      | 2,985.7               | 564.2        | -519.3       | 765.7                   | 0.00                    | 0.00                   | 0.00                  |
| 3,200.0   | 17.63           | 315.90      | 3,081.0               | 586.0        | -540.4       | 796.0                   | 0.00                    | 0.00                   | 0.00                  |
| 3,300.0   | 17.63           | 315.90      | 3,176.3               | 607.7        | -561.5       | 826.2                   | 0.00                    | 0.00                   | 0.00                  |
| 3,400.0   | 17.63           | 315.90      | 3,271.6               | 629.5        | -582.5       | 856.5                   | 0.00                    | 0.00                   | 0.00                  |
| 3,500.0   | 17.63           | 315.90      | 3,366.9               | 651.2        | -603.6       | 886.8                   | 0.00                    | 0.00                   | 0.00                  |
| 3,600.0   | 17.63           | 315.90      | 3,462.2               | 673.0        | -624.7       | 917.0                   | 0.00                    | 0.00                   | 0.00                  |
| 3,700.0   | 17.63           | 315.90      | 3,557.5               | 694.7        | -645.8       | 947.3                   | 0.00                    | 0.00                   | 0.00                  |
| 3,800.0   | 17.63           | 315.90      | 3,652.8               | 716.4        | -666.9       | 977.6                   | 0.00                    | 0.00                   | 0.00                  |
| 3,900.0   | 17.63           | 315.90      | 3,748.1               | 738.2        | -687.9       | 1,007.9                 | 0.00                    | 0.00                   | 0.00                  |
| 4,000.0   | 17.63           | 315.90      | 3,843.5               | 759.9        | -709.0       | 1,038.1                 | 0.00                    | 0.00                   | 0.00                  |
| 4,100.0   | 17.63           | 315.90      | 3,938.8               | 781.7        | -730.1       | 1,068.4                 | 0.00                    | 0.00                   | 0.00                  |
| <b>Wasatch</b>  |                 |             |                       |              |              |                         |                         |                        |                       |
| 4,182.1   | 17.63           | 315.90      | 4,017.0               | 799.5        | -747.4       | 1,093.3                 | 0.00                    | 0.00                   | 0.00                  |
| 4,200.0   | 17.63           | 315.90      | 4,034.1               | 803.4        | -751.2       | 1,098.7                 | 0.00                    | 0.00                   | 0.00                  |
| 4,300.0   | 17.63           | 315.90      | 4,129.4               | 825.2        | -772.2       | 1,129.0                 | 0.00                    | 0.00                   | 0.00                  |
| 4,400.0   | 17.63           | 315.90      | 4,224.7               | 846.9        | -793.3       | 1,159.2                 | 0.00                    | 0.00                   | 0.00                  |

|                  |                           |                                     |   |
|------------------|---------------------------|-------------------------------------|---|
| <b>Database:</b> | EDM 5000.1 Single User Db | <b>Local Co-ordinate Reference:</b> | Well ELU O13 FED 13A-13 496 - Slot ELU O13 FED 13A-13 496 |
| <b>Company:</b>  | Caerus Oil & Gas          | <b>TVD Reference:</b>               | RKB @ 8148.0usft (30')                                    |
| <b>Project:</b>  | Rio Blanco County, CO     | <b>MD Reference:</b>                | RKB @ 8148.0usft (30')                                    |
| <b>Site:</b>     | ELU O13 496 Pad           | <b>North Reference:</b>             | True  |
| <b>Well:</b>     | ELU O13 FED 13A-13 496    | <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) |
| 4,500.0  | 17.63           | 315.90      | 4,320.0               | 868.7        | -814.4       | 1,189.5                 | 0.00                    | 0.00                   | 0.00                  |
| 4,600.0  | 17.63           | 315.90      | 4,415.3               | 890.4        | -835.5       | 1,219.8                 | 0.00                    | 0.00                   | 0.00                  |
| 4,700.0  | 17.63           | 315.90      | 4,510.6               | 912.2        | -856.6       | 1,250.1                 | 0.00                    | 0.00                   | 0.00                  |
| 4,800.0  | 17.63           | 315.90      | 4,605.9               | 933.9        | -877.6       | 1,280.3                 | 0.00                    | 0.00                   | 0.00                  |
| 4,900.0  | 17.63           | 315.90      | 4,701.2               | 955.7        | -898.7       | 1,310.6                 | 0.00                    | 0.00                   | 0.00                  |
| 5,000.0  | 17.63           | 315.90      | 4,796.5               | 977.4        | -919.8       | 1,340.9                 | 0.00                    | 0.00                   | 0.00                  |
| 5,100.0  | 17.63           | 315.90      | 4,891.8               | 999.2        | -940.9       | 1,371.2                 | 0.00                    | 0.00                   | 0.00                  |
| 5,200.0  | 17.63           | 315.90      | 4,987.1               | 1,020.9      | -961.9       | 1,401.4                 | 0.00                    | 0.00                   | 0.00                  |
| 5,300.0  | 17.63           | 315.90      | 5,082.4               | 1,042.7      | -983.0       | 1,431.7                 | 0.00                    | 0.00                   | 0.00                  |
| 5,400.0  | 17.63           | 315.90      | 5,177.7               | 1,064.4      | -1,004.1     | 1,462.0                 | 0.00                    | 0.00                   | 0.00                  |
| 5,500.0  | 17.63           | 315.90      | 5,273.0               | 1,086.2      | -1,025.2     | 1,492.3                 | 0.00                    | 0.00                   | 0.00                  |
| 5,600.0  | 17.63           | 315.90      | 5,368.3               | 1,107.9      | -1,046.3     | 1,522.5                 | 0.00                    | 0.00                   | 0.00                  |
| 5,700.0  | 17.63           | 315.90      | 5,463.6               | 1,129.7      | -1,067.3     | 1,552.8                 | 0.00                    | 0.00                   | 0.00                  |
| 5,800.0  | 17.63           | 315.90      | 5,558.9               | 1,151.4      | -1,088.4     | 1,583.1                 | 0.00                    | 0.00                   | 0.00                  |
| 5,900.0  | 17.63           | 315.90      | 5,654.2               | 1,173.2      | -1,109.5     | 1,613.4                 | 0.00                    | 0.00                   | 0.00                  |
| 6,000.0  | 17.63           | 315.90      | 5,749.5               | 1,194.9      | -1,130.6     | 1,643.6                 | 0.00                    | 0.00                   | 0.00                  |
| 6,100.0  | 17.63           | 315.90      | 5,844.8               | 1,216.7      | -1,151.6     | 1,673.9                 | 0.00                    | 0.00                   | 0.00                  |
| 6,200.0  | 17.63           | 315.90      | 5,940.1               | 1,238.4      | -1,172.7     | 1,704.2                 | 0.00                    | 0.00                   | 0.00                  |
| 6,300.0  | 17.63           | 315.90      | 6,035.4               | 1,260.2      | -1,193.8     | 1,734.4                 | 0.00                    | 0.00                   | 0.00                  |
| 6,400.0  | 17.63           | 315.90      | 6,130.7               | 1,281.9      | -1,214.9     | 1,764.7                 | 0.00                    | 0.00                   | 0.00                  |
| 6,500.0  | 17.63           | 315.90      | 6,226.0               | 1,303.7      | -1,236.0     | 1,795.0                 | 0.00                    | 0.00                   | 0.00                  |
| 6,600.0  | 17.63           | 315.90      | 6,321.3               | 1,325.4      | -1,257.0     | 1,825.3                 | 0.00                    | 0.00                   | 0.00                  |
| 6,700.0  | 17.63           | 315.90      | 6,416.6               | 1,347.2      | -1,278.1     | 1,855.5                 | 0.00                    | 0.00                   | 0.00                  |
| <b>Wasatch G</b>   |                 |             |                       |              |              |                         |                         |                        |                       |
| 6,700.4  | 17.63           | 315.90      | 6,417.0               | 1,347.2      | -1,278.2     | 1,855.7                 | 0.00                    | 0.00                   | 0.00                  |
| 6,800.0  | 17.63           | 315.90      | 6,511.9               | 1,368.9      | -1,299.2     | 1,885.8                 | 0.00                    | 0.00                   | 0.00                  |
| 6,900.0  | 17.63           | 315.90      | 6,607.2               | 1,390.7      | -1,320.3     | 1,916.1                 | 0.00                    | 0.00                   | 0.00                  |
| 7,000.0  | 17.63           | 315.90      | 6,702.6               | 1,412.4      | -1,341.3     | 1,946.4                 | 0.00                    | 0.00                   | 0.00                  |
| <b>Fort Union</b>  |                 |             |                       |              |              |                         |                         |                        |                       |
| 7,015.2  | 17.63           | 315.90      | 6,717.0               | 1,415.7      | -1,344.5     | 1,951.0                 | 0.00                    | 0.00                   | 0.00                  |
| 7,100.0  | 17.63           | 315.90      | 6,797.9               | 1,434.2      | -1,362.4     | 1,976.6                 | 0.00                    | 0.00                   | 0.00                  |
| 7,200.0  | 17.63           | 315.90      | 6,893.2               | 1,455.9      | -1,383.5     | 2,006.9                 | 0.00                    | 0.00                   | 0.00                  |
| 7,300.0  | 17.63           | 315.90      | 6,988.5               | 1,477.7      | -1,404.6     | 2,037.2                 | 0.00                    | 0.00                   | 0.00                  |
| 7,400.0  | 17.63           | 315.90      | 7,083.8               | 1,499.4      | -1,425.7     | 2,067.5                 | 0.00                    | 0.00                   | 0.00                  |
| 7,500.0  | 17.63           | 315.90      | 7,179.1               | 1,521.1      | -1,446.7     | 2,097.7                 | 0.00                    | 0.00                   | 0.00                  |
| 7,600.0  | 17.63           | 315.90      | 7,274.4               | 1,542.9      | -1,467.8     | 2,128.0                 | 0.00                    | 0.00                   | 0.00                  |
| 7,700.0  | 17.63           | 315.90      | 7,369.7               | 1,564.6      | -1,488.9     | 2,158.3                 | 0.00                    | 0.00                   | 0.00                  |
| 7,800.0  | 17.63           | 315.90      | 7,465.0               | 1,586.4      | -1,510.0     | 2,188.6                 | 0.00                    | 0.00                   | 0.00                  |
| 7,900.0  | 17.63           | 315.90      | 7,560.3               | 1,608.1      | -1,531.0     | 2,218.8                 | 0.00                    | 0.00                   | 0.00                  |
| 8,000.0  | 17.63           | 315.90      | 7,655.6               | 1,629.9      | -1,552.1     | 2,249.1                 | 0.00                    | 0.00                   | 0.00                  |
| 8,100.0  | 17.63           | 315.90      | 7,750.9               | 1,651.6      | -1,573.2     | 2,279.4                 | 0.00                    | 0.00                   | 0.00                  |
| 8,200.0  | 17.63           | 315.90      | 7,846.2               | 1,673.4      | -1,594.3     | 2,309.7                 | 0.00                    | 0.00                   | 0.00                  |
| 8,300.0  | 17.63           | 315.90      | 7,941.5               | 1,695.1      | -1,615.4     | 2,339.9                 | 0.00                    | 0.00                   | 0.00                  |
| <b>Drop 3° /100'</b>   |                 |             |                       |              |              |                         |                         |                        |                       |
| 8,342.0  | 17.63           | 315.90      | 7,981.6               | 1,704.3      | -1,624.2     | 2,352.7                 | 0.00                    | 0.00                   | 0.00                  |
| 8,400.0  | 15.89           | 315.90      | 8,037.1               | 1,716.3      | -1,635.8     | 2,369.4                 | 3.00                    | -3.00                  | 0.00                  |
| 8,500.0  | 12.89           | 315.90      | 8,133.9               | 1,734.1      | -1,653.1     | 2,394.2                 | 3.00                    | -3.00                  | 0.00                  |
| 8,600.0  | 9.89            | 315.90      | 8,231.9               | 1,748.3      | -1,666.9     | 2,413.9                 | 3.00                    | -3.00                  | 0.00                  |
| 8,700.0  | 6.89            | 315.90      | 8,330.8               | 1,758.8      | -1,677.0     | 2,428.5                 | 3.00                    | -3.00                  | 0.00                  |
| 8,800.0  | 3.89            | 315.90      | 8,430.4               | 1,765.5      | -1,683.6     | 2,437.9                 | 3.00                    | -3.00                  | 0.00                  |
| 8,900.0  | 0.89            | 315.90      | 8,530.3               | 1,768.5      | -1,686.5     | 2,442.1                 | 3.00                    | -3.00                  | 0.00                  |
| <b>EOD @ Vertical / Build 1.5° / 100' - Ohio Creek / TOG</b> |                 |             |                       |              |              |                         |                         |                        |                       |

|                  |                           |                                     |   |
|------------------|---------------------------|-------------------------------------|---|
| <b>Database:</b> | EDM 5000.1 Single User Db | <b>Local Co-ordinate Reference:</b> | Well ELU O13 FED 13A-13 496 - Slot ELU O13 FED 13A-13 496 |
| <b>Company:</b>  | Caerus Oil & Gas          | <b>TVD Reference:</b>               | RKB @ 8148.0usft (30')                                    |
| <b>Project:</b>  | Rio Blanco County, CO     | <b>MD Reference:</b>                | RKB @ 8148.0usft (30')                                    |
| <b>Site:</b>     | ELU O13 496 Pad           | <b>North Reference:</b>             | True  |
| <b>Well:</b>     | ELU O13 FED 13A-13 496    | <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) |
|--|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 8,929.7                                | 0.00            | 0.00        | 8,560.0               | 1,768.7      | -1,686.6     | 2,442.3                 | 3.00                    | -3.00                  | 0.00                  |
| 9,000.0                                | 1.05            | 250.00      | 8,630.3               | 1,768.5      | -1,687.3     | 2,442.6                 | 1.50                    | 1.50                   | 0.00                  |
| <b>EOB @ 1.41° Inc. / 250.00° Azm</b>  |                 |             |                       |              |              |                         |                         |                        |                       |
| 9,023.6                                | 1.41            | 250.00      | 8,653.8               | 1,768.3      | -1,687.7     | 2,442.8                 | 1.50                    | 1.50                   | 0.00                  |
| 9,100.0                                | 1.41            | 250.00      | 8,730.3               | 1,767.7      | -1,689.5     | 2,443.6                 | 0.00                    | 0.00                   | 0.00                  |
| 9,200.0                                | 1.41            | 250.00      | 8,830.2               | 1,766.8      | -1,691.8     | 2,444.7                 | 0.00                    | 0.00                   | 0.00                  |
| 9,300.0                                | 1.41            | 250.00      | 8,930.2               | 1,766.0      | -1,694.1     | 2,445.8                 | 0.00                    | 0.00                   | 0.00                  |
| 9,400.0                                | 1.41            | 250.00      | 9,030.2               | 1,765.1      | -1,696.4     | 2,446.8                 | 0.00                    | 0.00                   | 0.00                  |
| 9,500.0                                | 1.41            | 250.00      | 9,130.1               | 1,764.3      | -1,698.7     | 2,447.9                 | 0.00                    | 0.00                   | 0.00                  |
| <b>Williams Fork</b>                   |                 |             |                       |              |              |                         |                         |                        |                       |
| 9,512.9                                | 1.41            | 250.00      | 9,143.0               | 1,764.2      | -1,699.0     | 2,448.0                 | 0.00                    | 0.00                   | 0.00                  |
| 9,600.0                                | 1.41            | 250.00      | 9,230.1               | 1,763.5      | -1,701.0     | 2,449.0                 | 0.00                    | 0.00                   | 0.00                  |
| 9,700.0                                | 1.41            | 250.00      | 9,330.1               | 1,762.6      | -1,703.3     | 2,450.0                 | 0.00                    | 0.00                   | 0.00                  |
| 9,800.0                                | 1.41            | 250.00      | 9,430.0               | 1,761.8      | -1,705.7     | 2,451.1                 | 0.00                    | 0.00                   | 0.00                  |
| 9,900.0                                | 1.41            | 250.00      | 9,530.0               | 1,760.9      | -1,708.0     | 2,452.2                 | 0.00                    | 0.00                   | 0.00                  |
| 10,000.0                               | 1.41            | 250.00      | 9,630.0               | 1,760.1      | -1,710.3     | 2,453.2                 | 0.00                    | 0.00                   | 0.00                  |
| 10,100.0                               | 1.41            | 250.00      | 9,730.0               | 1,759.3      | -1,712.6     | 2,454.3                 | 0.00                    | 0.00                   | 0.00                  |
| 10,200.0                               | 1.41            | 250.00      | 9,829.9               | 1,758.4      | -1,714.9     | 2,455.4                 | 0.00                    | 0.00                   | 0.00                  |
| 10,300.0                               | 1.41            | 250.00      | 9,929.9               | 1,757.6      | -1,717.2     | 2,456.4                 | 0.00                    | 0.00                   | 0.00                  |
| 10,400.0                               | 1.41            | 250.00      | 10,029.9              | 1,756.7      | -1,719.5     | 2,457.5                 | 0.00                    | 0.00                   | 0.00                  |
| 10,500.0                               | 1.41            | 250.00      | 10,129.8              | 1,755.9      | -1,721.8     | 2,458.6                 | 0.00                    | 0.00                   | 0.00                  |
| 10,600.0                               | 1.41            | 250.00      | 10,229.8              | 1,755.1      | -1,724.1     | 2,459.6                 | 0.00                    | 0.00                   | 0.00                  |
| 10,700.0                               | 1.41            | 250.00      | 10,329.8              | 1,754.2      | -1,726.4     | 2,460.7                 | 0.00                    | 0.00                   | 0.00                  |
| 10,800.0                               | 1.41            | 250.00      | 10,429.7              | 1,753.4      | -1,728.7     | 2,461.8                 | 0.00                    | 0.00                   | 0.00                  |
| 10,900.0                               | 1.41            | 250.00      | 10,529.7              | 1,752.5      | -1,731.0     | 2,462.9                 | 0.00                    | 0.00                   | 0.00                  |
| 11,000.0                               | 1.41            | 250.00      | 10,629.7              | 1,751.7      | -1,733.4     | 2,463.9                 | 0.00                    | 0.00                   | 0.00                  |
| 11,100.0                               | 1.41            | 250.00      | 10,729.7              | 1,750.9      | -1,735.7     | 2,465.0                 | 0.00                    | 0.00                   | 0.00                  |
| 11,200.0                               | 1.41            | 250.00      | 10,829.6              | 1,750.0      | -1,738.0     | 2,466.1                 | 0.00                    | 0.00                   | 0.00                  |
| 11,300.0                               | 1.41            | 250.00      | 10,929.6              | 1,749.2      | -1,740.3     | 2,467.1                 | 0.00                    | 0.00                   | 0.00                  |
| 11,400.0                               | 1.41            | 250.00      | 11,029.6              | 1,748.3      | -1,742.6     | 2,468.2                 | 0.00                    | 0.00                   | 0.00                  |
| 11,500.0                               | 1.41            | 250.00      | 11,129.5              | 1,747.5      | -1,744.9     | 2,469.3                 | 0.00                    | 0.00                   | 0.00                  |
| 11,600.0                               | 1.41            | 250.00      | 11,229.5              | 1,746.7      | -1,747.2     | 2,470.3                 | 0.00                    | 0.00                   | 0.00                  |
| 11,700.0                               | 1.41            | 250.00      | 11,329.5              | 1,745.8      | -1,749.5     | 2,471.4                 | 0.00                    | 0.00                   | 0.00                  |
| 11,800.0                               | 1.41            | 250.00      | 11,429.4              | 1,745.0      | -1,751.8     | 2,472.5                 | 0.00                    | 0.00                   | 0.00                  |
| 11,900.0                               | 1.41            | 250.00      | 11,529.4              | 1,744.1      | -1,754.1     | 2,473.5                 | 0.00                    | 0.00                   | 0.00                  |
| 12,000.0                               | 1.41            | 250.00      | 11,629.4              | 1,743.3      | -1,756.4     | 2,474.6                 | 0.00                    | 0.00                   | 0.00                  |
| 12,100.0                               | 1.41            | 250.00      | 11,729.4              | 1,742.4      | -1,758.8     | 2,475.7                 | 0.00                    | 0.00                   | 0.00                  |
| 12,200.0                               | 1.41            | 250.00      | 11,829.3              | 1,741.6      | -1,761.1     | 2,476.7                 | 0.00                    | 0.00                   | 0.00                  |
| 12,300.0                               | 1.41            | 250.00      | 11,929.3              | 1,740.8      | -1,763.4     | 2,477.8                 | 0.00                    | 0.00                   | 0.00                  |
| <b>Cameo</b>                           |                 |             |                       |              |              |                         |                         |                        |                       |
| 12,346.7                               | 1.41            | 250.00      | 11,976.0              | 1,740.4      | -1,764.4     | 2,478.3                 | 0.00                    | 0.00                   | 0.00                  |
| 12,400.0                               | 1.41            | 250.00      | 12,029.3              | 1,739.9      | -1,765.7     | 2,478.9                 | 0.00                    | 0.00                   | 0.00                  |
| 12,500.0                               | 1.41            | 250.00      | 12,129.2              | 1,739.1      | -1,768.0     | 2,479.9                 | 0.00                    | 0.00                   | 0.00                  |
| 12,600.0                               | 1.41            | 250.00      | 12,229.2              | 1,738.2      | -1,770.3     | 2,481.0                 | 0.00                    | 0.00                   | 0.00                  |
| 12,700.0                               | 1.41            | 250.00      | 12,329.2              | 1,737.4      | -1,772.6     | 2,482.1                 | 0.00                    | 0.00                   | 0.00                  |
| 12,800.0                               | 1.41            | 250.00      | 12,429.1              | 1,736.6      | -1,774.9     | 2,483.1                 | 0.00                    | 0.00                   | 0.00                  |
| <b>Rollins</b>                         |                 |             |                       |              |              |                         |                         |                        |                       |
| 12,846.9                               | 1.41            | 250.00      | 12,476.0              | 1,736.2      | -1,776.0     | 2,483.6                 | 0.00                    | 0.00                   | 0.00                  |
| 12,900.0                               | 1.41            | 250.00      | 12,529.1              | 1,735.7      | -1,777.2     | 2,484.2                 | 0.00                    | 0.00                   | 0.00                  |
| 13,000.0                               | 1.41            | 250.00      | 12,629.1              | 1,734.9      | -1,779.5     | 2,485.3                 | 0.00                    | 0.00                   | 0.00                  |
| <b>TD @ 13046.9' MD / 12676.0' TVD</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 13,046.9                               | 1.41            | 250.00      | 12,676.0              | 1,734.5      | -1,780.6     | 2,485.8                 | 0.00                    | 0.00                   | 0.00                  |

|                  |                           |                                     |   |
|------------------|---------------------------|-------------------------------------|---|
| <b>Database:</b> | EDM 5000.1 Single User Db | <b>Local Co-ordinate Reference:</b> | Well ELU O13 FED 13A-13 496 - Slot ELU O13 FED 13A-13 496 |
| <b>Company:</b>  | Caerus Oil & Gas          | <b>TVD Reference:</b>               | RKB @ 8148.0usft (30')                                    |
| <b>Project:</b>  | Rio Blanco County, CO     | <b>MD Reference:</b>                | RKB @ 8148.0usft (30')                                    |
| <b>Site:</b>     | ELU O13 496 Pad           | <b>North Reference:</b>             | True  |
| <b>Well:</b>     | ELU O13 FED 13A-13 496    | <b>Survey Calculation Method:</b>   | Minimum Curvature   |
| <b>Wellbore:</b> | Wellbore #1               |                                     |   |
| <b>Design:</b>   | Design #1                 |                                     |   |

#### Design Targets

##### Target Name

| - hit/miss target<br>- Shape   | Dip Angle<br>(°) | Dip Dir.<br>(°) | TVD<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Northing<br>(usft) | Easting<br>(usft) | Latitude  | Longitude   |
|--|------------------|-----------------|---------------|-----------------|-----------------|--------------------|-------------------|-----------|-------------|
| OHCR - 13A-13<br>- plan hits target center<br>- Point                                      | 0.00             | 0.00            | 8,560.0       | 1,768.7         | -1,686.6        | 14,431,105.21      | 2,450,256.42      | 39.703555 | -108.120954 |
| PBHL - 13A-13<br>- plan hits target center<br>- Ellipse (radii L100.0 W50.0 on 250.00 azi) | 0.00             | 0.00            | 12,676.0      | 1,734.5         | -1,780.6        | 14,431,068.00      | 2,450,163.60      | 39.703461 | -108.121288 |

#### Formations

| Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Name             | Lithology | Dip<br>(°) | Dip<br>Direction<br>(°) |
|-----------------------------|-----------------------------|------------------|-----------|------------|-------------------------|
| 4,182.1                     | 4,017.0                     | Wasatch          |           |            |                         |
| 6,700.4                     | 6,417.0                     | Wasatch G        |           |            |                         |
| 7,015.2                     | 6,717.0                     | Fort Union       |           |            |                         |
| 8,929.7                     | 8,560.0                     | Ohio Creek / TOG |           |            |                         |
| 9,512.9                     | 9,143.0                     | Williams Fork    |           |            |                         |
| 12,346.7                    | 11,976.0                    | Cameo            |           |            |                         |
| 12,846.9                    | 12,476.0                    | Rollins          |           |            |                         |

#### Plan Annotations

| Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Local Coordinates |                 | Comment  |
|-----------------------------|-----------------------------|-------------------|-----------------|--|
|                             |                             | +N/-S<br>(usft)   | +E/-W<br>(usft) |  |
| 230.0                       | 230.0                       | 0.0               | 0.0             | Build 3° / 100'                                |
| 396.7                       | 396.5                       | 7.3               | 0.0             | EOB @ 5.00° Inc. / 0.00° Azm / Build 3° / 100' |
| 878.4                       | 868.4                       | 81.0              | -51.0           | EOB @ 17.63° Inc. / 315.90° Azm                |
| 8,342.0                     | 7,981.6                     | 1,704.3           | -1,624.2        | Drop 3° / 100'                                 |
| 8,929.7                     | 8,560.0                     | 1,768.7           | -1,686.6        | EOD @ Vertical / Build 1.5° / 100'             |
| 9,023.6                     | 8,653.8                     | 1,768.3           | -1,687.7        | EOB @ 1.41° Inc. / 250.00° Azm                 |
| 13,046.9                    | 12,676.0                    | 1,734.5           | -1,780.6        | TD @ 13046.9' MD / 12676.0' TVD                |