



**Scientific Drilling**  
Rocky Mountain Operations

Company: OXY USA RMAT  
Project: Garfield County, CO NAD27  
Site: Cascade Creek 697-04D Pad



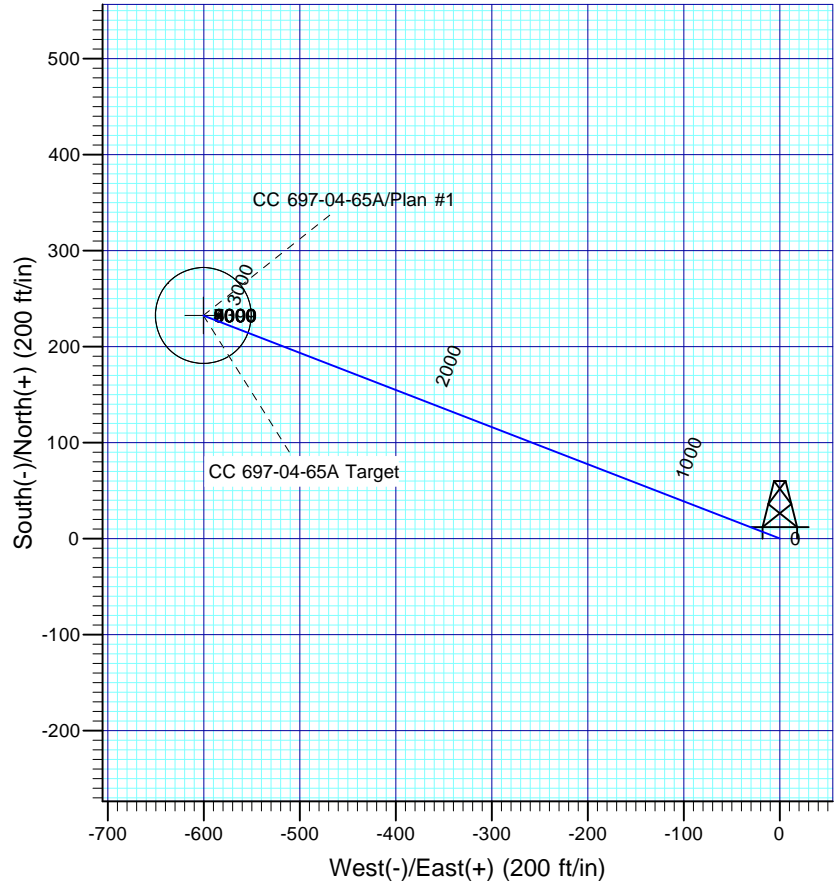
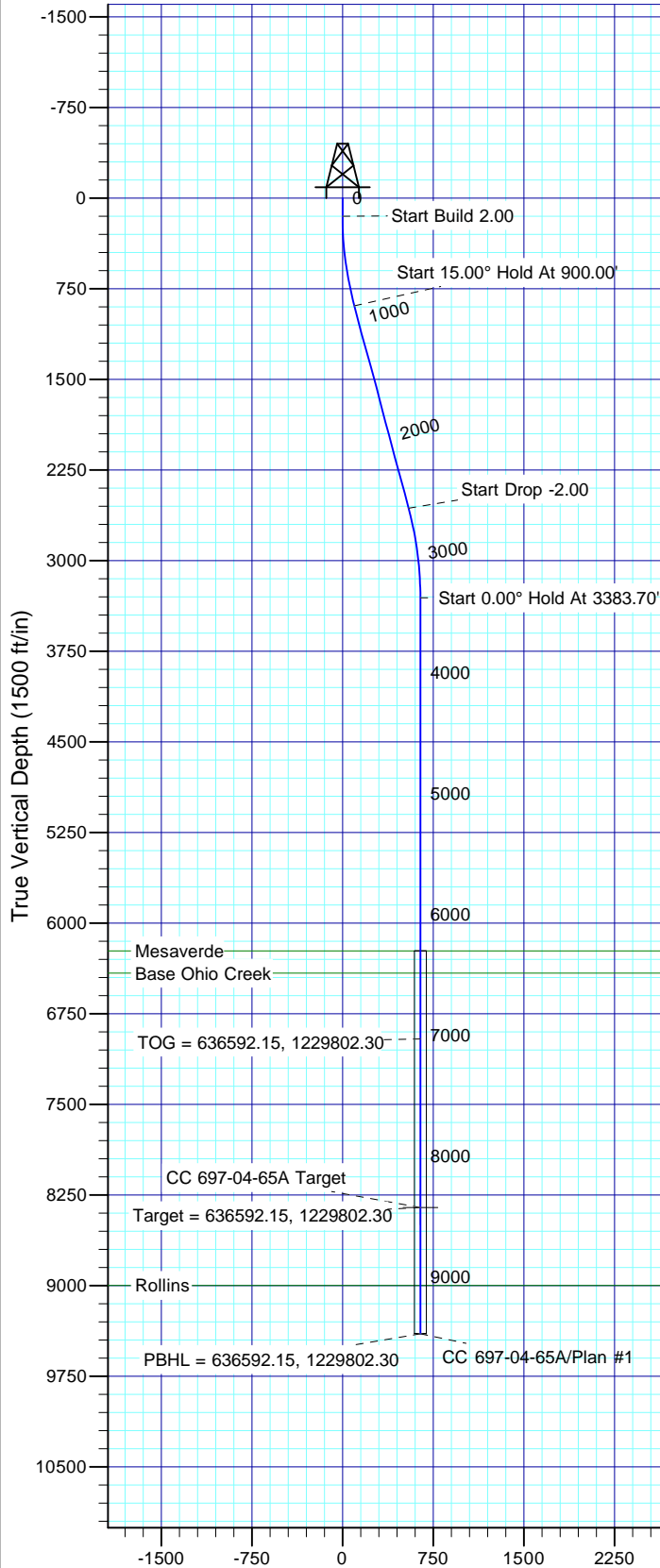
Well Details: CC 697-04-65A

TVD Reference: GL 8629' & RKB 30' @ 8659.00ft (H&P) Ground Level: 8629.00  
+N/-S 0.00 +E/-W 0.00 Northing 636341.89 Easting 1230395.62 Latitude 39° 32' 55.810 N Longitude 108° 13' 46.356 W Slot L



Azimuths to True North  
Magnetic North: 10.47°

Magnetic Field  
Strength: 52282.7snT  
Dip Angle: 65.76°  
Date: 2011/03/23  
Model: IGRF2005-10



#### FORMATION TOP DETAILS

| TVDPath | MDPath  | Formation       |
|---------|---------|-----------------|
| 6229.00 | 6305.15 | Mesaverde       |
| 6414.00 | 6490.15 | Base Ohio Creek |
| 8999.00 | 9075.15 | Rollins         |

Plan: Plan #1

15:03, March 29 2011  
Created By: Rex Hall

PROJECT DETAILS: Garfield County, CO NAD27

Geodetic System: US State Plane 1927 (Exact solution)  
Datum: NAD 1927 (NADCON CONUS)  
Ellipsoid: Clarke 1866  
Zone: Colorado Central 502

System Datum: Mean Sea Level

#### SECTION DETAILS

| Sec | MD      | Inc   | Azi    | TVD     | +N/-S  | +E/-W   | Dleg | TFace  | VSec   | Target               |
|-----|---------|-------|--------|---------|--------|---------|------|--------|--------|----------------------|
| 1   | 0.00    | 0.00  | 0.00   | 0.00    | 0.00   | 0.00    | 0.00 | 0.00   | 0.00   |                      |
| 2   | 150.00  | 0.00  | 0.00   | 150.00  | 0.00   | 0.00    | 0.00 | 0.00   | 0.00   |                      |
| 3   | 900.00  | 15.00 | 291.15 | 891.46  | 35.22  | -91.04  | 2.00 | 291.15 | 97.62  |                      |
| 4   | 2633.70 | 15.00 | 291.15 | 2566.08 | 197.11 | -509.53 | 0.00 | 0.00   | 546.33 |                      |
| 5   | 3383.70 | 0.00  | 0.00   | 3307.55 | 232.33 | -600.57 | 2.00 | 180.00 | 643.94 |                      |
| 6   | 8429.15 | 0.00  | 0.00   | 8353.00 | 232.33 | -600.57 | 0.00 | 0.00   | 643.94 | CC 697-04-65A Target |
| 7   | 9475.15 | 0.00  | 0.00   | 9399.00 | 232.33 | -600.57 | 0.00 | 0.00   | 643.94 |                      |

# **OXY USA RMAT**

**Garfield County, CO NAD27  
Cascade Creek 697-04D Pad  
CC 697-04-65A - Slot L**

**OH**

**Plan: Plan #1**

## **Standard Planning Report**

**29 March, 2011**

# Scientific Drilling International

## Planning Report

|                  |                           |                                     |                                      |
|------------------|---------------------------|-------------------------------------|--------------------------------------|
| <b>Database:</b> | EDM-RexH-Local            | <b>Local Co-ordinate Reference:</b> | Well CC 697-04-65A - Slot L          |
| <b>Company:</b>  | OXY USA RMAT              | <b>TVD Reference:</b>               | GL 8629' & RKB 30' @ 8659.00ft (H&P) |
| <b>Project:</b>  | Garfield County, CO NAD27 | <b>MD Reference:</b>                | GL 8629' & RKB 30' @ 8659.00ft (H&P) |
| <b>Site:</b>     | Cascade Creek 697-04D Pad | <b>North Reference:</b>             | True                                 |
| <b>Well:</b>     | CC 697-04-65A             | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Wellbore:</b> | OH                        |                                     |                                      |
| <b>Design:</b>   | Plan #1                   |                                     |                                      |

|                    |                                      |                      |                |
|--------------------|--------------------------------------|----------------------|----------------|
| <b>Project</b>     | Garfield County, CO NAD27            |                      |                |
| <b>Map System:</b> | US State Plane 1927 (Exact solution) | <b>System Datum:</b> | Mean Sea Level |
| <b>Geo Datum:</b>  | NAD 1927 (NADCON CONUS)              |                      |                |
| <b>Map Zone:</b>   | Colorado Central 502                 |                      |                |

|                       |         |                           |                   |                   |                   |
|-----------------------|---------|---------------------------|-------------------|-------------------|-------------------|
| Site                  |         | Cascade Creek 697-04D Pad |                   |                   |                   |
| Site Position:        |         | Northing:                 | 635,530.62 usft   | Latitude:         | 39° 32' 47.760 N  |
| From:                 | Map     | Easting:                  | 1,230,276.10 usft | Longitude:        | 108° 13' 47.570 W |
| Position Uncertainty: | 0.00 ft | Slot Radius:              | 13.200 in         | Grid Convergence: | -1.72 °           |

|                      |                        |           |                     |                   |               |                   |
|----------------------|------------------------|-----------|---------------------|-------------------|---------------|-------------------|
| Well                 | CC 697-04-65A - Slot L |           |                     |                   |               |                   |
| Well Position        | +N/-S                  | 814.50 ft | Northing:           | 636,341.89 usft   | Latitude:     | 39° 32' 55.810 N  |
|                      | +E/-W                  | 95.09 ft  | Easting:            | 1,230,395.62 usft | Longitude:    | 108° 13' 46.356 W |
| Position Uncertainty |                        | 0.00 ft   | Wellhead Elevation: |                   | Ground Level: | 8,629.00 ft       |

|                  |                   |                    |                        |                      |                            |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| <b>Wellbore</b>  | OH                |                    |                        |                      |                            |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination (°)</b> | <b>Dip Angle (°)</b> | <b>Field Strength (nT)</b> |
|                  | IGRF2005-10       | 2011/03/23         | 10.47                  | 65.76                | 52,283                     |

|                          |                              |                   |                      |                      |
|--------------------------|------------------------------|-------------------|----------------------|----------------------|
| <b>Design</b>            | Plan #1                      |                   |                      |                      |
| <b>Audit Notes:</b>      |                              |                   |                      |                      |
| <b>Version:</b>          | <b>Phase:</b>                | PLAN              | <b>Tie On Depth:</b> | 0.00                 |
| <b>Vertical Section:</b> | <b>Depth From (TVD) (ft)</b> | <b>+N/-S (ft)</b> | <b>+E/-W (ft)</b>    | <b>Direction (°)</b> |
|                          | 0.00                         | 0.00              | 0.00                 | 291.15               |

| <b>Plan Sections</b> |                 |             |                     |            |            |                       |                      |                     |         |                      |
|----------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|----------------------|---------------------|---------|----------------------|
| Measured Depth (ft)  | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) | TFO (°) | Target               |
| 0.00                 | 0.00            | 0.00        | 0.00                | 0.00       | 0.00       | 0.00                  | 0.00                 | 0.00                | 0.00    |                      |
| 150.00               | 0.00            | 0.00        | 150.00              | 0.00       | 0.00       | 0.00                  | 0.00                 | 0.00                | 0.00    |                      |
| 900.00               | 15.00           | 291.15      | 891.46              | 35.22      | -91.04     | 2.00                  | 2.00                 | 0.00                | 291.15  |                      |
| 2,633.70             | 15.00           | 291.15      | 2,566.08            | 197.11     | -509.53    | 0.00                  | 0.00                 | 0.00                | 0.00    |                      |
| 3,383.70             | 0.00            | 0.00        | 3,307.55            | 232.33     | -600.57    | 2.00                  | -2.00                | 0.00                | 180.00  |                      |
| 8,429.15             | 0.00            | 0.00        | 8,353.00            | 232.33     | -600.57    | 0.00                  | 0.00                 | 0.00                | 0.00    | CC 697-04-65A Target |
| 9,475.15             | 0.00            | 0.00        | 9,399.00            | 232.33     | -600.57    | 0.00                  | 0.00                 | 0.00                | 0.00    |                      |

# Scientific Drilling International

## Planning Report

|                  |                           |                                     |                                      |
|------------------|---------------------------|-------------------------------------|--------------------------------------|
| <b>Database:</b> | EDM-RexH-Local            | <b>Local Co-ordinate Reference:</b> | Well CC 697-04-65A - Slot L          |
| <b>Company:</b>  | OXY USA RMAT              | <b>TVD Reference:</b>               | GL 8629' & RKB 30' @ 8659.00ft (H&P) |
| <b>Project:</b>  | Garfield County, CO NAD27 | <b>MD Reference:</b>                | GL 8629' & RKB 30' @ 8659.00ft (H&P) |
| <b>Site:</b>     | Cascade Creek 697-04D Pad | <b>North Reference:</b>             | True                                 |
| <b>Well:</b>     | CC 697-04-65A             | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Wellbore:</b> | OH                        |                                     |                                      |
| <b>Design:</b>   | Plan #1                   |                                     |                                      |

| Planned Survey               |                 |             |                     |            |            |                       |                       |                      |                     |
|------------------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| Measured Depth (ft)          | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 0.00                         | 0.00            | 0.00        | 0.00                | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 100.00                       | 0.00            | 0.00        | 100.00              | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 150.00                       | 0.00            | 0.00        | 150.00              | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| Start Build 2.00             |                 |             |                     |            |            |                       |                       |                      |                     |
| 200.00                       | 1.00            | 291.15      | 200.00              | 0.16       | -0.41      | 0.44                  | 2.00                  | 2.00                 | 0.00                |
| 300.00                       | 3.00            | 291.15      | 299.93              | 1.42       | -3.66      | 3.93                  | 2.00                  | 2.00                 | 0.00                |
| 400.00                       | 5.00            | 291.15      | 399.68              | 3.93       | -10.17     | 10.90                 | 2.00                  | 2.00                 | 0.00                |
| 500.00                       | 7.00            | 291.15      | 499.13              | 7.70       | -19.92     | 21.35                 | 2.00                  | 2.00                 | 0.00                |
| 600.00                       | 9.00            | 291.15      | 598.15              | 12.73      | -32.89     | 35.27                 | 2.00                  | 2.00                 | 0.00                |
| 700.00                       | 11.00           | 291.15      | 696.63              | 18.99      | -49.09     | 52.63                 | 2.00                  | 2.00                 | 0.00                |
| 800.00                       | 13.00           | 291.15      | 794.44              | 26.49      | -68.48     | 73.42                 | 2.00                  | 2.00                 | 0.00                |
| 900.00                       | 15.00           | 291.15      | 891.46              | 35.22      | -91.04     | 97.62                 | 2.00                  | 2.00                 | 0.00                |
| Start 15.00° Hold At 900.00' |                 |             |                     |            |            |                       |                       |                      |                     |
| 1,000.00                     | 15.00           | 291.15      | 988.05              | 44.56      | -115.18    | 123.50                | 0.00                  | 0.00                 | 0.00                |
| 1,100.00                     | 15.00           | 291.15      | 1,084.65            | 53.89      | -139.32    | 149.38                | 0.00                  | 0.00                 | 0.00                |
| 1,200.00                     | 15.00           | 291.15      | 1,181.24            | 63.23      | -163.46    | 175.26                | 0.00                  | 0.00                 | 0.00                |
| 1,300.00                     | 15.00           | 291.15      | 1,277.83            | 72.57      | -187.60    | 201.14                | 0.00                  | 0.00                 | 0.00                |
| 1,400.00                     | 15.00           | 291.15      | 1,374.42            | 81.91      | -211.73    | 227.02                | 0.00                  | 0.00                 | 0.00                |
| 1,500.00                     | 15.00           | 291.15      | 1,471.02            | 91.25      | -235.87    | 252.91                | 0.00                  | 0.00                 | 0.00                |
| 1,600.00                     | 15.00           | 291.15      | 1,567.61            | 100.58     | -260.01    | 278.79                | 0.00                  | 0.00                 | 0.00                |
| 1,700.00                     | 15.00           | 291.15      | 1,664.20            | 109.92     | -284.15    | 304.67                | 0.00                  | 0.00                 | 0.00                |
| 1,800.00                     | 15.00           | 291.15      | 1,760.80            | 119.26     | -308.29    | 330.55                | 0.00                  | 0.00                 | 0.00                |
| 1,900.00                     | 15.00           | 291.15      | 1,857.39            | 128.60     | -332.43    | 356.43                | 0.00                  | 0.00                 | 0.00                |
| 2,000.00                     | 15.00           | 291.15      | 1,953.98            | 137.93     | -356.57    | 382.32                | 0.00                  | 0.00                 | 0.00                |
| 2,100.00                     | 15.00           | 291.15      | 2,050.57            | 147.27     | -380.71    | 408.20                | 0.00                  | 0.00                 | 0.00                |
| 2,200.00                     | 15.00           | 291.15      | 2,147.17            | 156.61     | -404.84    | 434.08                | 0.00                  | 0.00                 | 0.00                |
| 2,300.00                     | 15.00           | 291.15      | 2,243.76            | 165.95     | -428.98    | 459.96                | 0.00                  | 0.00                 | 0.00                |
| 2,400.00                     | 15.00           | 291.15      | 2,340.35            | 175.29     | -453.12    | 485.84                | 0.00                  | 0.00                 | 0.00                |
| 2,500.00                     | 15.00           | 291.15      | 2,436.94            | 184.62     | -477.26    | 511.73                | 0.00                  | 0.00                 | 0.00                |
| 2,600.00                     | 15.00           | 291.15      | 2,533.54            | 193.96     | -501.40    | 537.61                | 0.00                  | 0.00                 | 0.00                |
| 2,633.70                     | 15.00           | 291.15      | 2,566.08            | 197.11     | -509.53    | 546.33                | 0.00                  | 0.00                 | 0.00                |
| Start Drop -2.00             |                 |             |                     |            |            |                       |                       |                      |                     |
| 2,700.00                     | 13.67           | 291.15      | 2,630.32            | 203.03     | -524.85    | 562.75                | 2.00                  | -2.00                | 0.00                |
| 2,800.00                     | 11.67           | 291.15      | 2,727.88            | 210.95     | -545.31    | 584.69                | 2.00                  | -2.00                | 0.00                |
| 2,900.00                     | 9.67            | 291.15      | 2,826.14            | 217.63     | -562.58    | 603.21                | 2.00                  | -2.00                | 0.00                |
| 3,000.00                     | 7.67            | 291.15      | 2,925.00            | 223.07     | -576.64    | 618.29                | 2.00                  | -2.00                | 0.00                |
| 3,100.00                     | 5.67            | 291.15      | 3,024.31            | 227.26     | -587.48    | 629.91                | 2.00                  | -2.00                | 0.00                |
| 3,200.00                     | 3.67            | 291.15      | 3,123.98            | 230.20     | -595.08    | 638.06                | 2.00                  | -2.00                | 0.00                |
| 3,300.00                     | 1.67            | 291.15      | 3,223.86            | 231.88     | -599.43    | 642.72                | 2.00                  | -2.00                | 0.00                |
| 3,383.70                     | 0.00            | 0.00        | 3,307.55            | 232.33     | -600.57    | 643.94                | 2.00                  | -2.00                | 0.00                |
| Start 0.00° Hold At 3383.70' |                 |             |                     |            |            |                       |                       |                      |                     |
| 3,400.00                     | 0.00            | 0.00        | 3,323.85            | 232.33     | -600.57    | 643.94                | 0.00                  | 0.00                 | 0.00                |
| 3,500.00                     | 0.00            | 0.00        | 3,423.85            | 232.33     | -600.57    | 643.94                | 0.00                  | 0.00                 | 0.00                |
| 3,600.00                     | 0.00            | 0.00        | 3,523.85            | 232.33     | -600.57    | 643.94                | 0.00                  | 0.00                 | 0.00                |
| 3,700.00                     | 0.00            | 0.00        | 3,623.85            | 232.33     | -600.57    | 643.94                | 0.00                  | 0.00                 | 0.00                |
| 3,800.00                     | 0.00            | 0.00        | 3,723.85            | 232.33     | -600.57    | 643.94                | 0.00                  | 0.00                 | 0.00                |
| 3,900.00                     | 0.00            | 0.00        | 3,823.85            | 232.33     | -600.57    | 643.94                | 0.00                  | 0.00                 | 0.00                |
| 4,000.00                     | 0.00            | 0.00        | 3,923.85            | 232.33     | -600.57    | 643.94                | 0.00                  | 0.00                 | 0.00                |
| 4,100.00                     | 0.00            | 0.00        | 4,023.85            | 232.33     | -600.57    | 643.94                | 0.00                  | 0.00                 | 0.00                |
| 4,200.00                     | 0.00            | 0.00        | 4,123.85            | 232.33     | -600.57    | 643.94                | 0.00                  | 0.00                 | 0.00                |
| 4,300.00                     | 0.00            | 0.00        | 4,223.85            | 232.33     | -600.57    | 643.94                | 0.00                  | 0.00                 | 0.00                |
| 4,400.00                     | 0.00            | 0.00        | 4,323.85            | 232.33     | -600.57    | 643.94                | 0.00                  | 0.00                 | 0.00                |
| 4,500.00                     | 0.00            | 0.00        | 4,423.85            | 232.33     | -600.57    | 643.94                | 0.00                  | 0.00                 | 0.00                |
| 4,600.00                     | 0.00            | 0.00        | 4,523.85            | 232.33     | -600.57    | 643.94                | 0.00                  | 0.00                 | 0.00                |

# Scientific Drilling International

## Planning Report

|                  |                           |                                     |                                      |
|------------------|---------------------------|-------------------------------------|--------------------------------------|
| <b>Database:</b> | EDM-RexH-Local            | <b>Local Co-ordinate Reference:</b> | Well CC 697-04-65A - Slot L          |
| <b>Company:</b>  | OXY USA RMAT              | <b>TVD Reference:</b>               | GL 8629' & RKB 30' @ 8659.00ft (H&P) |
| <b>Project:</b>  | Garfield County, CO NAD27 | <b>MD Reference:</b>                | GL 8629' & RKB 30' @ 8659.00ft (H&P) |
| <b>Site:</b>     | Cascade Creek 697-04D Pad | <b>North Reference:</b>             | True                                 |
| <b>Well:</b>     | CC 697-04-65A             | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Wellbore:</b> | OH                        |                                     |                                      |
| <b>Design:</b>   | Plan #1                   |                                     |                                      |

| Planned Survey                        |                 |             |                     |            |            |                       |                       |                      |                     |
|---------------------------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| Measured Depth (ft)                   | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 4,700.00                              | 0.00            | 0.00        | 4,623.85            | 232.33     | -600.57    | 643.94                | 0.00                  | 0.00                 | 0.00                |
| 4,800.00                              | 0.00            | 0.00        | 4,723.85            | 232.33     | -600.57    | 643.94                | 0.00                  | 0.00                 | 0.00                |
| 4,900.00                              | 0.00            | 0.00        | 4,823.85            | 232.33     | -600.57    | 643.94                | 0.00                  | 0.00                 | 0.00                |
| 5,000.00                              | 0.00            | 0.00        | 4,923.85            | 232.33     | -600.57    | 643.94                | 0.00                  | 0.00                 | 0.00                |
| 5,100.00                              | 0.00            | 0.00        | 5,023.85            | 232.33     | -600.57    | 643.94                | 0.00                  | 0.00                 | 0.00                |
| 5,200.00                              | 0.00            | 0.00        | 5,123.85            | 232.33     | -600.57    | 643.94                | 0.00                  | 0.00                 | 0.00                |
| 5,300.00                              | 0.00            | 0.00        | 5,223.85            | 232.33     | -600.57    | 643.94                | 0.00                  | 0.00                 | 0.00                |
| 5,400.00                              | 0.00            | 0.00        | 5,323.85            | 232.33     | -600.57    | 643.94                | 0.00                  | 0.00                 | 0.00                |
| 5,500.00                              | 0.00            | 0.00        | 5,423.85            | 232.33     | -600.57    | 643.94                | 0.00                  | 0.00                 | 0.00                |
| 5,600.00                              | 0.00            | 0.00        | 5,523.85            | 232.33     | -600.57    | 643.94                | 0.00                  | 0.00                 | 0.00                |
| 5,700.00                              | 0.00            | 0.00        | 5,623.85            | 232.33     | -600.57    | 643.94                | 0.00                  | 0.00                 | 0.00                |
| 5,800.00                              | 0.00            | 0.00        | 5,723.85            | 232.33     | -600.57    | 643.94                | 0.00                  | 0.00                 | 0.00                |
| 5,900.00                              | 0.00            | 0.00        | 5,823.85            | 232.33     | -600.57    | 643.94                | 0.00                  | 0.00                 | 0.00                |
| 6,000.00                              | 0.00            | 0.00        | 5,923.85            | 232.33     | -600.57    | 643.94                | 0.00                  | 0.00                 | 0.00                |
| 6,100.00                              | 0.00            | 0.00        | 6,023.85            | 232.33     | -600.57    | 643.94                | 0.00                  | 0.00                 | 0.00                |
| 6,200.00                              | 0.00            | 0.00        | 6,123.85            | 232.33     | -600.57    | 643.94                | 0.00                  | 0.00                 | 0.00                |
| 6,300.00                              | 0.00            | 0.00        | 6,223.85            | 232.33     | -600.57    | 643.94                | 0.00                  | 0.00                 | 0.00                |
| 6,305.15                              | 0.00            | 0.00        | 6,229.00            | 232.33     | -600.57    | 643.94                | 0.00                  | 0.00                 | 0.00                |
| <b>Mesaverde</b>                      |                 |             |                     |            |            |                       |                       |                      |                     |
| 6,400.00                              | 0.00            | 0.00        | 6,323.85            | 232.33     | -600.57    | 643.94                | 0.00                  | 0.00                 | 0.00                |
| 6,490.15                              | 0.00            | 0.00        | 6,414.00            | 232.33     | -600.57    | 643.94                | 0.00                  | 0.00                 | 0.00                |
| <b>Base Ohio Creek</b>                |                 |             |                     |            |            |                       |                       |                      |                     |
| 6,500.00                              | 0.00            | 0.00        | 6,423.85            | 232.33     | -600.57    | 643.94                | 0.00                  | 0.00                 | 0.00                |
| 6,600.00                              | 0.00            | 0.00        | 6,523.85            | 232.33     | -600.57    | 643.94                | 0.00                  | 0.00                 | 0.00                |
| 6,700.00                              | 0.00            | 0.00        | 6,623.85            | 232.33     | -600.57    | 643.94                | 0.00                  | 0.00                 | 0.00                |
| 6,800.00                              | 0.00            | 0.00        | 6,723.85            | 232.33     | -600.57    | 643.94                | 0.00                  | 0.00                 | 0.00                |
| 6,900.00                              | 0.00            | 0.00        | 6,823.85            | 232.33     | -600.57    | 643.94                | 0.00                  | 0.00                 | 0.00                |
| 7,000.00                              | 0.00            | 0.00        | 6,923.85            | 232.33     | -600.57    | 643.94                | 0.00                  | 0.00                 | 0.00                |
| 7,035.15                              | 0.00            | 0.00        | 6,959.00            | 232.33     | -600.57    | 643.94                | 0.00                  | 0.00                 | 0.00                |
| <b>TOG = 636592.15, 1229802.30</b>    |                 |             |                     |            |            |                       |                       |                      |                     |
| 7,100.00                              | 0.00            | 0.00        | 7,023.85            | 232.33     | -600.57    | 643.94                | 0.00                  | 0.00                 | 0.00                |
| 7,200.00                              | 0.00            | 0.00        | 7,123.85            | 232.33     | -600.57    | 643.94                | 0.00                  | 0.00                 | 0.00                |
| 7,300.00                              | 0.00            | 0.00        | 7,223.85            | 232.33     | -600.57    | 643.94                | 0.00                  | 0.00                 | 0.00                |
| 7,400.00                              | 0.00            | 0.00        | 7,323.85            | 232.33     | -600.57    | 643.94                | 0.00                  | 0.00                 | 0.00                |
| 7,500.00                              | 0.00            | 0.00        | 7,423.85            | 232.33     | -600.57    | 643.94                | 0.00                  | 0.00                 | 0.00                |
| 7,600.00                              | 0.00            | 0.00        | 7,523.85            | 232.33     | -600.57    | 643.94                | 0.00                  | 0.00                 | 0.00                |
| 7,700.00                              | 0.00            | 0.00        | 7,623.85            | 232.33     | -600.57    | 643.94                | 0.00                  | 0.00                 | 0.00                |
| 7,800.00                              | 0.00            | 0.00        | 7,723.85            | 232.33     | -600.57    | 643.94                | 0.00                  | 0.00                 | 0.00                |
| 7,900.00                              | 0.00            | 0.00        | 7,823.85            | 232.33     | -600.57    | 643.94                | 0.00                  | 0.00                 | 0.00                |
| 8,000.00                              | 0.00            | 0.00        | 7,923.85            | 232.33     | -600.57    | 643.94                | 0.00                  | 0.00                 | 0.00                |
| 8,100.00                              | 0.00            | 0.00        | 8,023.85            | 232.33     | -600.57    | 643.94                | 0.00                  | 0.00                 | 0.00                |
| 8,200.00                              | 0.00            | 0.00        | 8,123.85            | 232.33     | -600.57    | 643.94                | 0.00                  | 0.00                 | 0.00                |
| 8,300.00                              | 0.00            | 0.00        | 8,223.85            | 232.33     | -600.57    | 643.94                | 0.00                  | 0.00                 | 0.00                |
| 8,400.00                              | 0.00            | 0.00        | 8,323.85            | 232.33     | -600.57    | 643.94                | 0.00                  | 0.00                 | 0.00                |
| 8,429.15                              | 0.00            | 0.00        | 8,353.00            | 232.33     | -600.57    | 643.94                | 0.00                  | 0.00                 | 0.00                |
| <b>Target = 636592.15, 1229802.30</b> |                 |             |                     |            |            |                       |                       |                      |                     |
| 8,500.00                              | 0.00            | 0.00        | 8,423.85            | 232.33     | -600.57    | 643.94                | 0.00                  | 0.00                 | 0.00                |
| 8,600.00                              | 0.00            | 0.00        | 8,523.85            | 232.33     | -600.57    | 643.94                | 0.00                  | 0.00                 | 0.00                |
| 8,700.00                              | 0.00            | 0.00        | 8,623.85            | 232.33     | -600.57    | 643.94                | 0.00                  | 0.00                 | 0.00                |
| 8,800.00                              | 0.00            | 0.00        | 8,723.85            | 232.33     | -600.57    | 643.94                | 0.00                  | 0.00                 | 0.00                |
| 8,900.00                              | 0.00            | 0.00        | 8,823.85            | 232.33     | -600.57    | 643.94                | 0.00                  | 0.00                 | 0.00                |
| 9,000.00                              | 0.00            | 0.00        | 8,923.85            | 232.33     | -600.57    | 643.94                | 0.00                  | 0.00                 | 0.00                |
| 9,075.15                              | 0.00            | 0.00        | 8,999.00            | 232.33     | -600.57    | 643.94                | 0.00                  | 0.00                 | 0.00                |

# Scientific Drilling International

## Planning Report

|                  |                           |                                     |                                      |
|------------------|---------------------------|-------------------------------------|--------------------------------------|
| <b>Database:</b> | EDM-RexH-Local            | <b>Local Co-ordinate Reference:</b> | Well CC 697-04-65A - Slot L          |
| <b>Company:</b>  | OXY USA RMAT              | <b>TVD Reference:</b>               | GL 8629' & RKB 30' @ 8659.00ft (H&P) |
| <b>Project:</b>  | Garfield County, CO NAD27 | <b>MD Reference:</b>                | GL 8629' & RKB 30' @ 8659.00ft (H&P) |
| <b>Site:</b>     | Cascade Creek 697-04D Pad | <b>North Reference:</b>             | True                                 |
| <b>Well:</b>     | CC 697-04-65A             | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Wellbore:</b> | OH                        |                                     |                                      |
| <b>Design:</b>   | Plan #1                   |                                     |                                      |

| Planned Survey      |                 |             |                     |            |            |                       |                       |                      |                     |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| <b>Rollins</b>      |                 |             |                     |            |            |                       |                       |                      |                     |
| 9,100.00            | 0.00            | 0.00        | 9,023.85            | 232.33     | -600.57    | 643.94                | 0.00                  | 0.00                 | 0.00                |
| 9,200.00            | 0.00            | 0.00        | 9,123.85            | 232.33     | -600.57    | 643.94                | 0.00                  | 0.00                 | 0.00                |
| 9,300.00            | 0.00            | 0.00        | 9,223.85            | 232.33     | -600.57    | 643.94                | 0.00                  | 0.00                 | 0.00                |
| 9,400.00            | 0.00            | 0.00        | 9,323.85            | 232.33     | -600.57    | 643.94                | 0.00                  | 0.00                 | 0.00                |
| 9,475.15            | 0.00            | 0.00        | 9,399.00            | 232.33     | -600.57    | 643.94                | 0.00                  | 0.00                 | 0.00                |

| Design Targets            |               |              |          |            |            |                 |                |                  |                   |
|---------------------------|---------------|--------------|----------|------------|------------|-----------------|----------------|------------------|-------------------|
| Target Name               | Dip Angle (°) | Dip Dir. (°) | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Northing (usft) | Easting (usft) | Latitude         | Longitude         |
| CC 697-04-65A Target      | 0.00          | 290.51       | 8,353.00 | 232.33     | -600.57    | 636,592.16      | 1,229,802.30   | 39° 32' 58.106 N | 108° 13' 54.023 W |
| - hit/miss target         |               |              |          |            |            |                 |                |                  |                   |
| - Shape                   |               |              |          |            |            |                 |                |                  |                   |
| - plan hits target center |               |              |          |            |            |                 |                |                  |                   |
| - Circle (radius 50.00)   |               |              |          |            |            |                 |                |                  |                   |

| Formations          |                     |                 |           |         |                   |
|---------------------|---------------------|-----------------|-----------|---------|-------------------|
| Measured Depth (ft) | Vertical Depth (ft) | Name            | Lithology | Dip (°) | Dip Direction (°) |
| 6,305.15            | 6,229.00            | Mesaverde       |           | 0.00    |                   |
| 6,490.15            | 6,414.00            | Base Ohio Creek |           | 0.00    |                   |
| 9,075.15            | 8,999.00            | Rollins         |           | 0.00    |                   |

| Plan Annotations    |                     |            |            |                                |
|---------------------|---------------------|------------|------------|--------------------------------|
| Measured Depth (ft) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Comment                        |
| 150.00              | 150.00              | 0.00       | 0.00       | Start Build 2.00               |
| 900.00              | 891.46              | 35.22      | -91.04     | Start 15.00° Hold At 900.00'   |
| 2,633.70            | 2,566.08            | 197.11     | -509.53    | Start Drop -2.00               |
| 3,383.70            | 3,307.55            | 232.33     | -600.57    | Start 0.00° Hold At 3383.70'   |
| 7,035.15            | 6,959.00            | 232.33     | -600.57    | TOG = 636592.15, 1229802.30    |
| 8,429.15            | 8,353.00            | 232.33     | -600.57    | Target = 636592.15, 1229802.30 |
| 9,475.15            | 9,399.00            | 232.33     | -600.57    | PBHL = 636592.15, 1229802.30   |