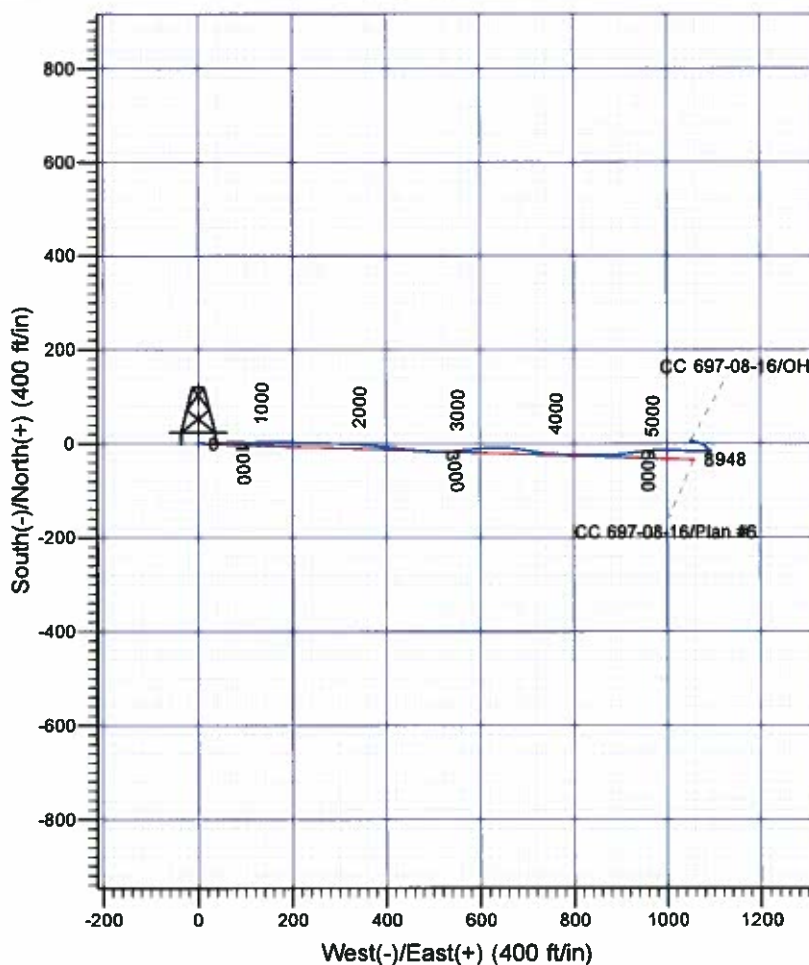
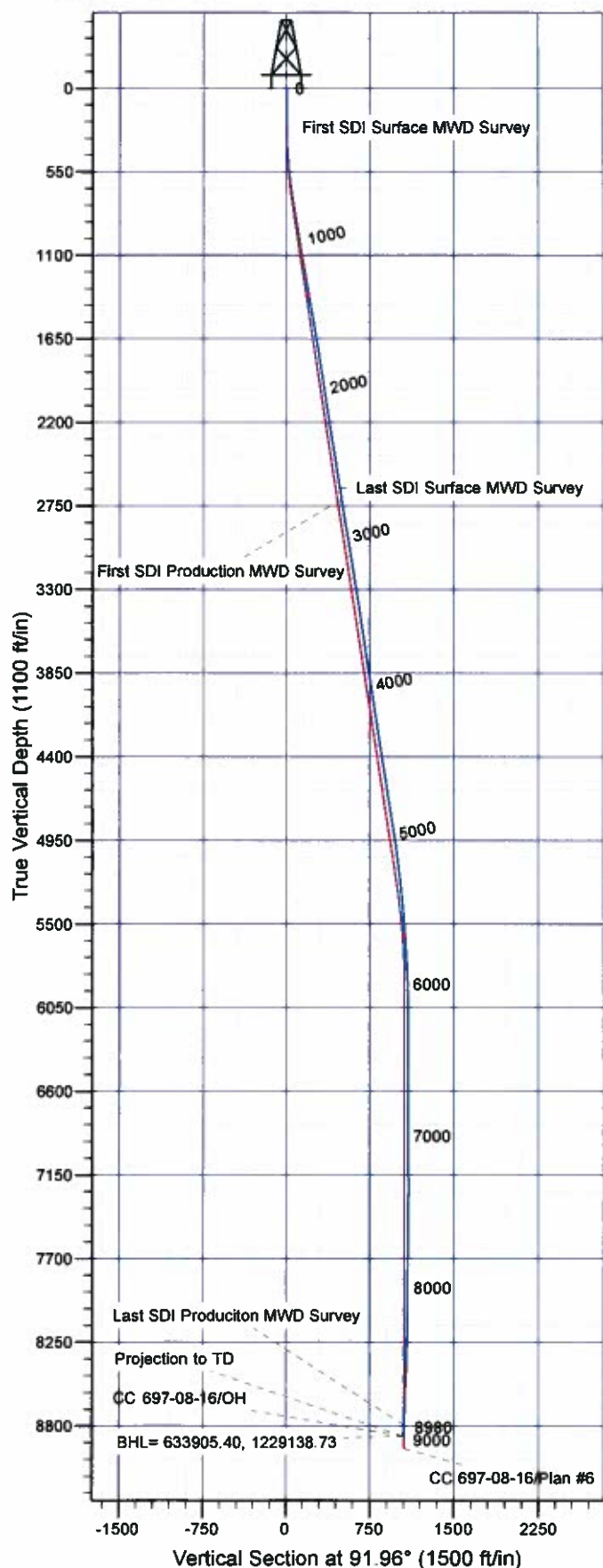




**Scientific Drilling**  
Rocky Mountain Operations

Company: OXY USA RMAT  
Project: Garfield County, CO NAD27  
Site: Cascade Creek 608-41 Pad  
Well: CC 697-08-16  
Wellbore: OH  
Design: OH



#### Well Details: CC 697-08-16

| +N/-S | +E/-W | North     | East       | Latitude         | Longitude         | Slot |
|-------|-------|-----------|------------|------------------|-------------------|------|
| 0.00  | 0.00  | 633932.91 | 1228088.71 | 39° 32' 31.325 N | 108° 14' 14.867 W | K    |

#### REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well CC 697-08-16 - Slot K, True North  
Vertical (TVD) Reference: GL 8407' & RKB 30' @ 8437.00ft (H&P)  
Section (VS) Reference: Slot - K(0.00N, 0.00E)  
Measured Depth Reference: GL 8407' & RKB 30' @ 8437.00ft (H&P)  
Calculation Method: Minimum Curvature

#### 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

Plan: OH

11:44, August 09 2011  
Created By: Janie Cooke

# **OXY USA RMAT**

**Garfield County, CO NAD27  
Cascade Creek 608-41 Pad  
CC 697-08-16 - Slot K**

**OH**

**Design: OH**

## **Standard Survey Report**

**09 August, 2011**





|                  |                           |                                     |                                      |
|------------------|---------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>  | OXY USA RMAT              | <b>Local Co-ordinate Reference:</b> | Well CC 697-08-16 - Slot K           |
| <b>Project:</b>  | Garfield County, CO NAD27 | <b>TVD Reference:</b>               | GL 8407' & RKB 30' @ 8437.00ft (H&P) |
| <b>Site:</b>     | Cascade Creek 608-41 Pad  | <b>MD Reference:</b>                | GL 8407' & RKB 30' @ 8437.00ft (H&P) |
| <b>Well:</b>     | CC 697-08-16              | <b>North Reference:</b>             | True                                 |
| <b>Wellbore:</b> | OH                        | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Design:</b>   | OH                        | <b>Database:</b>                    | Rockies Compass Server               |

|                    |                                      |                      |                |
|--------------------|--------------------------------------|----------------------|----------------|
| <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                 |                      |                |

|                              |  |                     |                   |                          |                   |
|------------------------------|--|---------------------|-------------------|--------------------------|-------------------|
| <b>Site</b>                  | Cascade Creek 608-41 Pad, SECTION 8 T6S R97W |                     |                   |                          |                   |
| <b>Site Position:</b>        |  | <b>Northing:</b>    | 633,966.95 usft   | <b>Latitude:</b>         | 39° 32' 31.685 N  |
| <b>From:</b>                 | Map  | <b>Easting:</b>     | 1,228,168.67 usft | <b>Longitude:</b>        | 108° 14' 13.859 W |
| <b>Position Uncertainty:</b> | 0.00 ft                                      | <b>Slot Radius:</b> | 13.200 in         | <b>Grid Convergence:</b> | -1.73 °           |

|                      |                        |         |                     |                   |               |                   |
|----------------------|------------------------|---------|---------------------|-------------------|---------------|-------------------|
| Well                 | CC 697-08-16 - Slot K, |         |                     |                   |               |                   |
| Well Position        | +N/-S                  | 0.00 ft | Northing:           | 633,932.91 usft   | Latitude:     | 39° 32' 31.325 N  |
|                      | +E/-W                  | 0.00 ft | Easting:            | 1,228,088.71 usft | Longitude:    | 108° 14' 14.867 W |
| Position Uncertainty |                        | 0.00 ft | Wellhead Elevation: | ft                | Ground Level: | 8,407.00 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       | 10/15/08           | 10.79                  | 65.81                | 52,516                     |

|                          |                              |                   |                   |                      |      |
|--------------------------|------------------------------|-------------------|-------------------|----------------------|------|
| <b>Design</b>            | OH                           |                   |                   |                      |      |
| <b>Audit Notes:</b>      |                              |                   |                   |                      |      |
| <b>Version:</b>          | 1.0                          | <b>Phase:</b>     | ACTUAL            | <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              | 91.96                |      |

|                       |                |                                 |                  |                       |  |
|-----------------------|----------------|---------------------------------|------------------|-----------------------|--|
| <b>Survey Program</b> | <b>Date</b>    | 08/09/11                        |                  |                       |  |
| <b>From (ft)</b>      | <b>To (ft)</b> | <b>Survey (Wellbore)</b>        | <b>Tool Name</b> | <b>Description</b>    |  |
| 253.00                | 2,685.00       | Survey #1 - Surface MWD (OH)    | MWD-SDI          | MWD - Standard ISCWSA |  |
| 2,763.00              | 8,980.00       | Survey #2 - Production MWD (OH) | MWD-SDI          | MWD - Standard ISCWSA |  |

|                            |                        |                    |                            |                   |                   |                              |                              |                             |                            |  |
|----------------------------|------------------------|--------------------|----------------------------|-------------------|-------------------|------------------------------|------------------------------|-----------------------------|----------------------------|--|
| <b>Survey</b>              |                        |                    |                            |                   |                   |                              |                              |                             |                            |  |
| <b>Measured Depth (ft)</b> | <b>Inclination (°)</b> | <b>Azimuth (°)</b> | <b>Vertical Depth (ft)</b> | <b>+N/-S (ft)</b> | <b>+E/-W (ft)</b> | <b>Vertical Section (ft)</b> | <b>Dogleg Rate (°/100ft)</b> | <b>Build Rate (°/100ft)</b> | <b>Turn Rate (°/100ft)</b> |  |
| 0.00                       | 0.00                   | 0.00               | 0.00                       | 0.00              | 0.00              | 0.00                         | 0.00                         | 0.00                        | 0.00                       |  |
| 253.00                     | 0.88                   | 63.07              | 252.99                     | 0.88              | 1.73              | 1.70                         | 0.35                         | 0.35                        | 0.00                       |  |
| <b>First Surface MWD</b>   |                        |                    |                            |                   |                   |                              |                              |                             |                            |  |
| 345.00                     | 2.51                   | 98.35              | 344.95                     | 0.91              | 4.36              | 4.32                         | 2.02                         | 1.77                        | 38.35                      |  |
| 436.00                     | 5.97                   | 94.75              | 435.69                     | 0.23              | 11.05             | 11.03                        | 3.81                         | 3.80                        | -3.96                      |  |
| 528.00                     | 7.03                   | 89.23              | 527.09                     | -0.09             | 21.44             | 21.43                        | 1.34                         | 1.15                        | -6.00                      |  |
| 620.00                     | 9.76                   | 86.77              | 618.10                     | 0.42              | 34.86             | 34.83                        | 2.99                         | 2.97                        | -2.67                      |  |
| 712.00                     | 12.24                  | 84.77              | 708.40                     | 1.75              | 52.36             | 52.27                        | 2.73                         | 2.70                        | -2.17                      |  |
| 804.00                     | 12.62                  | 90.73              | 798.25                     | 2.51              | 72.12             | 71.99                        | 1.45                         | 0.41                        | 6.48                       |  |
| 896.00                     | 13.58                  | 92.73              | 887.86                     | 1.87              | 92.96             | 92.84                        | 1.15                         | 1.04                        | 2.17                       |  |



|                  |                           |                                     |                                      |
|------------------|---------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>  | OXY USA RMAT              | <b>Local Co-ordinate Reference:</b> | Well CC 697-08-16 - Slot K           |
| <b>Project:</b>  | Garfield County, CO NAD27 | <b>TVD Reference:</b>               | GL 8407' & RKB 30' @ 8437.00ft (H&P) |
| <b>Site:</b>     | Cascade Creek 608-41 Pad  | <b>MD Reference:</b>                | GL 8407' & RKB 30' @ 8437.00ft (H&P) |
| <b>Well:</b>     | CC 697-08-16              | <b>North Reference:</b>             | True                                 |
| <b>Wellbore:</b> | OH                        | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Design:</b>   | OH                        | <b>Database:</b>                    | Rockies Compass Server               |

## 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) |
|--|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| 988.00                                 | 12.49           | 88.18       | 977.49              | 1.67       | 113.69     | 113.57                | 1.63                  | -1.18                | -4.95               |
| 1,083.00                               | 13.28           | 87.03       | 1,070.09            | 2.56       | 134.86     | 134.69                | 0.87                  | 0.83                 | -1.21               |
| 1,177.00                               | 13.28           | 90.29       | 1,161.58            | 3.07       | 156.44     | 156.24                | 0.80                  | 0.00                 | 3.47                |
| 1,272.00                               | 14.25           | 90.11       | 1,253.85            | 2.99       | 179.04     | 178.83                | 1.02                  | 1.02                 | -0.19               |
| 1,366.00                               | 13.19           | 93.54       | 1,345.17            | 2.30       | 201.32     | 201.12                | 1.42                  | -1.13                | 3.65                |
| 1,461.00                               | 13.72           | 91.43       | 1,437.56            | 1.35       | 223.40     | 223.22                | 0.76                  | 0.56                 | -2.22               |
| 1,556.00                               | 13.37           | 91.08       | 1,529.92            | 0.86       | 245.64     | 245.47                | 0.38                  | -0.37                | -0.37               |
| 1,650.00                               | 13.72           | 90.46       | 1,621.30            | 0.57       | 267.65     | 267.48                | 0.40                  | 0.37                 | -0.66               |
| 1,745.00                               | 12.05           | 93.27       | 1,713.91            | -0.09      | 288.82     | 288.66                | 1.88                  | -1.76                | 2.96                |
| 1,839.00                               | 11.70           | 92.83       | 1,805.90            | -1.12      | 308.14     | 307.99                | 0.38                  | -0.37                | -0.47               |
| 1,934.00                               | 12.05           | 89.67       | 1,898.87            | -1.53      | 327.67     | 327.53                | 0.78                  | 0.37                 | -3.33               |
| 2,028.00                               | 12.13           | 96.44       | 1,990.79            | -2.59      | 347.30     | 347.19                | 1.51                  | 0.09                 | 7.20                |
| 2,123.00                               | 11.78           | 96.09       | 2,083.73            | -4.73      | 366.86     | 366.81                | 0.38                  | -0.37                | -0.37               |
| 2,217.00                               | 11.17           | 94.77       | 2,175.85            | -6.51      | 385.48     | 385.47                | 0.71                  | -0.65                | -1.40               |
| 2,312.00                               | 12.66           | 95.38       | 2,268.80            | -8.25      | 405.01     | 405.06                | 1.57                  | 1.57                 | 0.64                |
| 2,407.00                               | 12.84           | 97.32       | 2,361.45            | -10.57     | 425.85     | 425.96                | 0.49                  | 0.19                 | 2.04                |
| 2,501.00                               | 12.66           | 97.93       | 2,453.14            | -13.32     | 446.41     | 446.60                | 0.24                  | -0.19                | 0.65                |
| 2,596.00                               | 11.87           | 93.54       | 2,545.97            | -15.36     | 466.47     | 466.72                | 1.29                  | -0.83                | -4.62               |
| 2,685.00                               | 11.61           | 94.15       | 2,633.11            | -16.58     | 484.54     | 484.82                | 0.32                  | -0.29                | 0.69                |
| <b>Last Surface MWD</b>                |                 |             |                     |            |            |                       |                       |                      |                     |
| 2,763.00                               | 10.84           | 92.49       | 2,709.62            | -17.46     | 499.70     | 500.00                | 1.07                  | -0.99                | -2.13               |
| <b>First SDI Production MWD Survey</b> |                 |             |                     |            |            |                       |                       |                      |                     |
| 2,858.00                               | 12.22           | 90.19       | 2,802.70            | -17.88     | 518.68     | 518.98                | 1.53                  | 1.45                 | -2.42               |
| 2,952.00                               | 13.28           | 85.97       | 2,894.38            | -17.16     | 539.39     | 539.67                | 1.50                  | 1.13                 | -4.49               |
| 3,047.00                               | 12.49           | 82.46       | 2,986.99            | -15.04     | 560.46     | 560.65                | 1.17                  | -0.83                | -3.69               |
| 3,141.00                               | 12.66           | 84.83       | 3,078.73            | -12.78     | 580.80     | 580.90                | 0.58                  | 0.18                 | 2.52                |
| 3,236.00                               | 12.05           | 84.66       | 3,171.53            | -10.92     | 601.04     | 601.06                | 0.64                  | -0.64                | -0.18               |
| 3,331.00                               | 13.28           | 90.54       | 3,264.22            | -10.10     | 621.83     | 621.81                | 1.87                  | 1.29                 | 6.19                |
| 3,425.00                               | 12.40           | 90.72       | 3,355.87            | -10.33     | 642.71     | 642.69                | 0.94                  | -0.94                | 0.19                |
| 3,520.00                               | 11.70           | 90.02       | 3,448.78            | -10.46     | 662.55     | 662.52                | 0.75                  | -0.74                | -0.74               |
| 3,614.00                               | 11.52           | 99.86       | 3,540.86            | -12.07     | 681.33     | 681.34                | 2.11                  | -0.19                | 10.47               |
| 3,709.00                               | 10.11           | 100.04      | 3,634.18            | -15.15     | 698.88     | 698.99                | 1.48                  | -1.48                | 0.19                |
| 3,803.00                               | 11.61           | 99.07       | 3,726.49            | -18.08     | 716.35     | 716.55                | 1.61                  | 1.60                 | -1.03               |
| 3,897.00                               | 12.57           | 97.58       | 3,818.40            | -20.92     | 735.83     | 736.11                | 1.07                  | 1.02                 | -1.59               |
| 3,992.00                               | 12.05           | 93.53       | 3,911.22            | -22.89     | 755.97     | 756.32                | 1.06                  | -0.55                | -4.26               |
| 4,087.00                               | 11.17           | 93.18       | 4,004.28            | -24.02     | 775.06     | 775.43                | 0.93                  | -0.93                | -0.37               |
| 4,181.00                               | 12.40           | 90.02       | 4,096.29            | -24.52     | 794.24     | 794.62                | 1.48                  | 1.31                 | -3.36               |
| 4,276.00                               | 11.61           | 89.58       | 4,189.22            | -24.46     | 814.00     | 814.36                | 0.84                  | -0.83                | -0.46               |
| 4,370.00                               | 11.61           | 92.48       | 4,281.29            | -24.80     | 832.91     | 833.27                | 0.62                  | 0.00                 | 3.09                |
| 4,465.00                               | 12.40           | 89.75       | 4,374.22            | -25.17     | 852.66     | 853.02                | 1.02                  | 0.83                 | -2.87               |
| 4,559.00                               | 11.17           | 88.70       | 4,466.23            | -24.92     | 871.86     | 872.20                | 1.33                  | -1.31                | -1.12               |
| 4,654.00                               | 12.57           | 86.24       | 4,559.20            | -24.03     | 891.37     | 891.67                | 1.57                  | 1.47                 | -2.59               |
| 4,749.00                               | 12.05           | 84.04       | 4,652.01            | -22.32     | 911.55     | 911.78                | 0.74                  | -0.55                | -2.32               |





|                  |                           |                                     |                                      |
|------------------|---------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>  | OXY USA RMAT              | <b>Local Co-ordinate Reference:</b> | Well CC 697-08-16 - Slot K           |
| <b>Project:</b>  | Garfield County, CO NAD27 | <b>TVD Reference:</b>               | GL 8407' & RKB 30' @ 8437.00ft (H&P) |
| <b>Site:</b>     | Cascade Creek 608-41 Pad  | <b>MD Reference:</b>                | GL 8407' & RKB 30' @ 8437.00ft (H&P) |
| <b>Well:</b>     | CC 697-08-16              | <b>North Reference:</b>             | True                                 |
| <b>Wellbore:</b> | OH                        | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Design:</b>   | OH                        | <b>Database:</b>                    | Rockies Compass Server               |

## 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) |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| 4,843.00            | 11.52           | 81.05       | 4,744.03            | -19.84     | 930.58     | 930.72                | 0.86                  | -0.56                | -3.18               |
| 4,937.00            | 13.19           | 82.99       | 4,835.85            | -17.07     | 950.50     | 950.53                | 1.83                  | 1.78                 | 2.06                |
| 5,032.00            | 12.22           | 87.56       | 4,928.53            | -15.32     | 971.31     | 971.26                | 1.47                  | -1.02                | 4.81                |
| 5,126.00            | 10.11           | 90.54       | 5,020.75            | -14.98     | 989.50     | 989.43                | 2.33                  | -2.24                | 3.17                |
| 5,221.00            | 9.50            | 90.90       | 5,114.36            | -15.18     | 1,005.67   | 1,005.60              | 0.65                  | -0.64                | 0.38                |
| 5,315.00            | 9.41            | 90.46       | 5,207.08            | -15.36     | 1,021.11   | 1,021.04              | 0.12                  | -0.10                | -0.47               |
| 5,410.00            | 7.65            | 92.30       | 5,301.03            | -15.68     | 1,035.20   | 1,035.13              | 1.87                  | -1.85                | 1.94                |
| 5,504.00            | 7.39            | 93.01       | 5,394.22            | -16.25     | 1,047.49   | 1,047.43              | 0.29                  | -0.28                | 0.76                |
| 5,599.00            | 5.72            | 90.02       | 5,488.59            | -16.57     | 1,058.32   | 1,058.27              | 1.79                  | -1.78                | -3.15               |
| 5,694.00            | 5.36            | 89.23       | 5,583.15            | -16.51     | 1,067.49   | 1,067.44              | 0.39                  | -0.38                | -0.83               |
| 5,788.00            | 4.31            | 91.51       | 5,676.81            | -16.54     | 1,075.42   | 1,075.35              | 1.14                  | -1.12                | 2.43                |
| 5,883.00            | 3.78            | 88.52       | 5,771.58            | -16.56     | 1,082.12   | 1,082.05              | 0.60                  | -0.56                | -3.15               |
| 5,977.00            | 2.37            | 78.15       | 5,865.44            | -16.08     | 1,087.12   | 1,087.03              | 1.61                  | -1.50                | -11.03              |
| 6,072.00            | 1.14            | 75.34       | 5,960.39            | -15.44     | 1,089.95   | 1,089.84              | 1.30                  | -1.29                | -2.96               |
| 6,166.00            | 0.70            | 73.32       | 6,054.38            | -15.03     | 1,091.41   | 1,091.28              | 0.47                  | -0.47                | -2.15               |
| 6,261.00            | 0.35            | 85.53       | 6,149.38            | -14.85     | 1,092.25   | 1,092.12              | 0.38                  | -0.37                | 12.85               |
| 6,355.00            | 0.18            | 256.92      | 6,243.38            | -14.86     | 1,092.39   | 1,092.26              | 0.56                  | -0.18                | 182.33              |
| 6,450.00            | 0.53            | 117.26      | 6,338.38            | -15.09     | 1,092.64   | 1,092.52              | 0.71                  | 0.37                 | -147.01             |
| 6,544.00            | 0.26            | 66.81       | 6,432.37            | -15.21     | 1,093.22   | 1,093.10              | 0.44                  | -0.29                | -53.67              |
| 6,639.00            | 0.26            | 280.56      | 6,527.37            | -15.08     | 1,093.21   | 1,093.08              | 0.52                  | 0.00                 | -153.95             |
| 6,733.00            | 0.97            | 237.06      | 6,621.37            | -15.48     | 1,092.33   | 1,092.22              | 0.85                  | 0.76                 | -46.28              |
| 6,828.00            | 0.79            | 229.06      | 6,716.36            | -16.34     | 1,091.16   | 1,091.08              | 0.23                  | -0.19                | -8.42               |
| 6,922.00            | 0.97            | 176.24      | 6,810.35            | -17.56     | 1,090.72   | 1,090.69              | 0.85                  | 0.19                 | -56.19              |
| 7,017.00            | 1.32            | 171.49      | 6,905.33            | -19.45     | 1,090.94   | 1,090.97              | 0.38                  | 0.37                 | -5.00               |
| 7,111.00            | 1.41            | 145.74      | 6,999.30            | -21.47     | 1,091.75   | 1,091.85              | 0.65                  | 0.10                 | -27.39              |
| 7,206.00            | 1.14            | 112.69      | 7,094.28            | -22.80     | 1,093.28   | 1,093.42              | 0.81                  | -0.28                | -34.79              |
| 7,300.00            | 1.06            | 99.16       | 7,188.26            | -23.30     | 1,095.00   | 1,095.16              | 0.29                  | -0.09                | -14.39              |
| 7,395.00            | 0.44            | 225.46      | 7,283.26            | -23.70     | 1,095.61   | 1,095.78              | 1.44                  | -0.65                | 132.95              |
| 7,489.00            | 1.14            | 258.33      | 7,377.25            | -24.14     | 1,094.44   | 1,094.62              | 0.86                  | 0.74                 | 34.97               |
| 7,584.00            | 1.58            | 263.95      | 7,472.22            | -24.47     | 1,092.21   | 1,092.41              | 0.48                  | 0.46                 | 5.92                |
| 7,678.00            | 1.06            | 255.16      | 7,566.20            | -24.83     | 1,090.08   | 1,090.29              | 0.59                  | -0.55                | -9.35               |
| 7,773.00            | 0.26            | 229.78      | 7,661.19            | -25.19     | 1,089.06   | 1,089.29              | 0.88                  | -0.84                | -26.72              |
| 7,867.00            | 1.06            | 11.00       | 7,755.18            | -24.48     | 1,089.07   | 1,089.27              | 1.35                  | 0.85                 | 150.23              |
| 7,962.00            | 2.02            | 2.74        | 7,850.15            | -21.94     | 1,089.31   | 1,089.43              | 1.03                  | 1.01                 | -8.69               |
| 8,057.00            | 2.20            | 353.78      | 7,945.09            | -18.46     | 1,089.20   | 1,089.19              | 0.39                  | 0.19                 | -9.43               |
| 8,151.00            | 2.37            | 340.24      | 8,039.01            | -14.83     | 1,088.34   | 1,088.22              | 0.60                  | 0.18                 | -14.40              |
| 8,245.00            | 2.55            | 333.56      | 8,132.92            | -11.13     | 1,086.76   | 1,086.50              | 0.36                  | 0.19                 | -7.11               |
| 8,340.00            | 2.55            | 321.61      | 8,227.83            | -7.58      | 1,084.50   | 1,084.13              | 0.56                  | 0.00                 | -12.58              |
| 8,434.00            | 2.55            | 303.68      | 8,321.74            | -4.79      | 1,081.46   | 1,081.00              | 0.85                  | 0.00                 | -19.07              |
| 8,528.00            | 3.25            | 294.63      | 8,415.62            | -2.52      | 1,077.30   | 1,076.76              | 0.89                  | 0.74                 | -9.63               |
| 8,623.00            | 3.69            | 290.06      | 8,510.44            | -0.34      | 1,071.98   | 1,071.37              | 0.55                  | 0.46                 | -4.81               |
| 8,717.00            | 3.43            | 283.20      | 8,604.26            | 1.34       | 1,066.40   | 1,065.73              | 0.53                  | -0.28                | -7.30               |
| 8,811.00            | 3.43            | 277.49      | 8,698.10            | 2.34       | 1,060.88   | 1,060.18              | 0.36                  | 0.00                 | -6.07               |
| 8,906.00            | 3.69            | 280.48      | 8,792.91            | 3.27       | 1,055.05   | 1,054.33              | 0.34                  | 0.27                 | 3.15                |



|                  |                           |                                     |                                      |
|------------------|---------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>  | OXY USA RMAT              | <b>Local Co-ordinate Reference:</b> | Well CC 697-08-16 - Slot K           |
| <b>Project:</b>  | Garfield County, CO NAD27 | <b>TVD Reference:</b>               | GL 8407' & RKB 30' @ 8437.00ft (H&P) |
| <b>Site:</b>     | Cascade Creek 608-41 Pad  | <b>MD Reference:</b>                | GL 8407' & RKB 30' @ 8437.00ft (H&P) |
| <b>Well:</b>     | CC 697-08-16              | <b>North Reference:</b>             | True                                 |
| <b>Wellbore:</b> | OH                        | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Design:</b>   | OH                        | <b>Database:</b>                    | Rockies Compass Server               |

| 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>Last SDI Production MWD Survey</b>         |                 |             |                     |            |            |                       |                       |                      |                     |
| 8,980.00                                      | 3.69            | 280.48      | 8,866.76            | 4.14       | 1,050.37   | 1,049.62              | 0.00                  | 0.00                 | 0.00                |
| Projection to TD - BHL= 633905.40, 1229138.73 |                 |             |                     |            |            |                       |                       |                      |                     |

| Design Annotations  |                     |                   |            |                                 |  |
|---------------------|---------------------|-------------------|------------|---------------------------------|--|
| Measured Depth (ft) | Vertical Depth (ft) | Local Coordinates |            |                                 |  |
|                     |                     | +N/-S (ft)        | +E/-W (ft) | Comment                         |  |
| 253.00              | 252.99              | 0.88              | 1.73       | First Surface MWD               |  |
| 2,685.00            | 2,633.11            | -16.58            | 484.54     | Last Surface MWD                |  |
| 2,763.00            | 2,709.62            | -17.46            | 499.70     | First SDI Production MWD Survey |  |
| 8,906.00            | 8,792.91            | 3.27              | 1,055.05   | Last SDI Production MWD Survey  |  |
| 8,980.00            | 8,866.76            | 4.14              | 1,050.37   | Projection to TD                |  |
| 8,980.00            | 8,866.76            | 4.14              | 1,050.37   | BHL= 633905.40, 1229138.73      |  |

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_