



**Scientific  
Drilling**

## Survey Certification

7327 West Barton Road  
Casper, WY 82604  
(307)-472-6621 Fax (307) 472-5439

|                            |                                |
|----------------------------|--------------------------------|
| <b>Operator</b>            | <u>OXY USA RMAT</u>            |
| <b>Well Name &amp; No.</b> | <u>Cascade Creek 697-15-26</u> |
| <b>County &amp; State</b>  | <u>Garfield County, CO</u>     |
| <b>SDI Job No.</b>         | <u>42DEF10121361</u>           |
| <b>Rig</b>                 | <u>H&amp;P 353</u>             |
| <b>Survey Date</b>         | <u>21-Dec-10</u>               |

I, Julie Cruse, having personal knowledge of all the facts, hereby  
certify that the attached directional survey run from a measured depth of 0 feet to a  
measured depth of 9235 feet is true and correct as determined from all available records.

Julie Cruse  
Signature

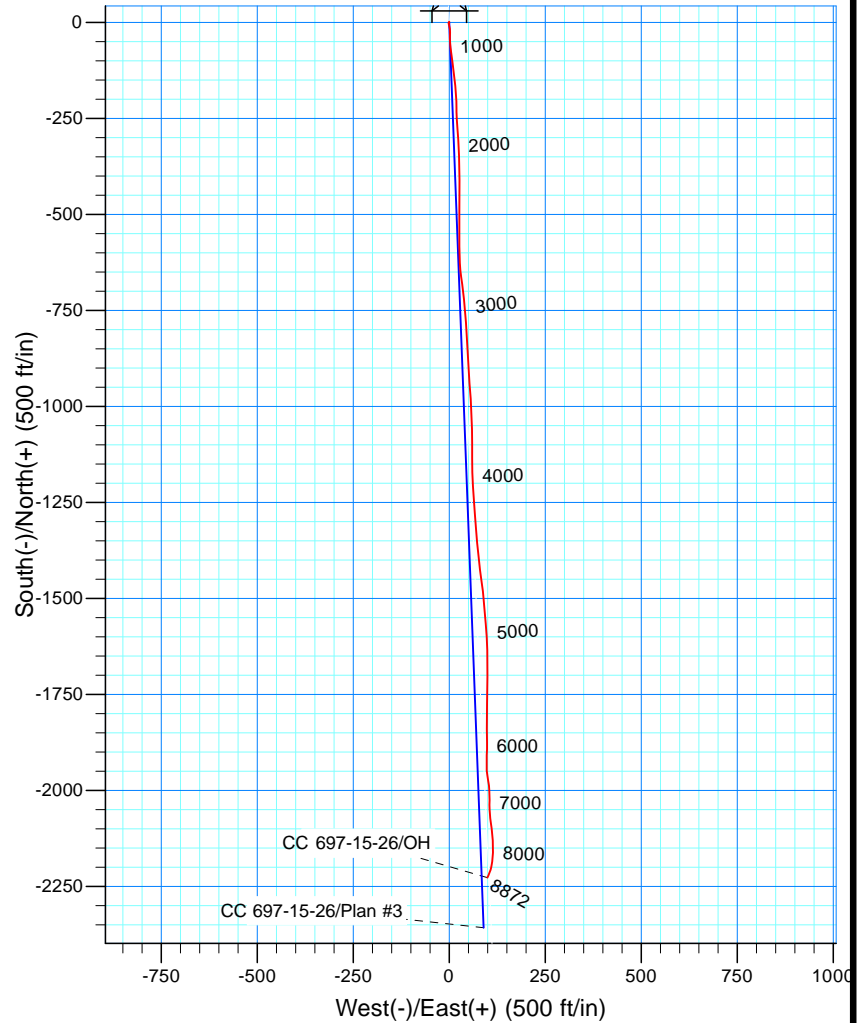
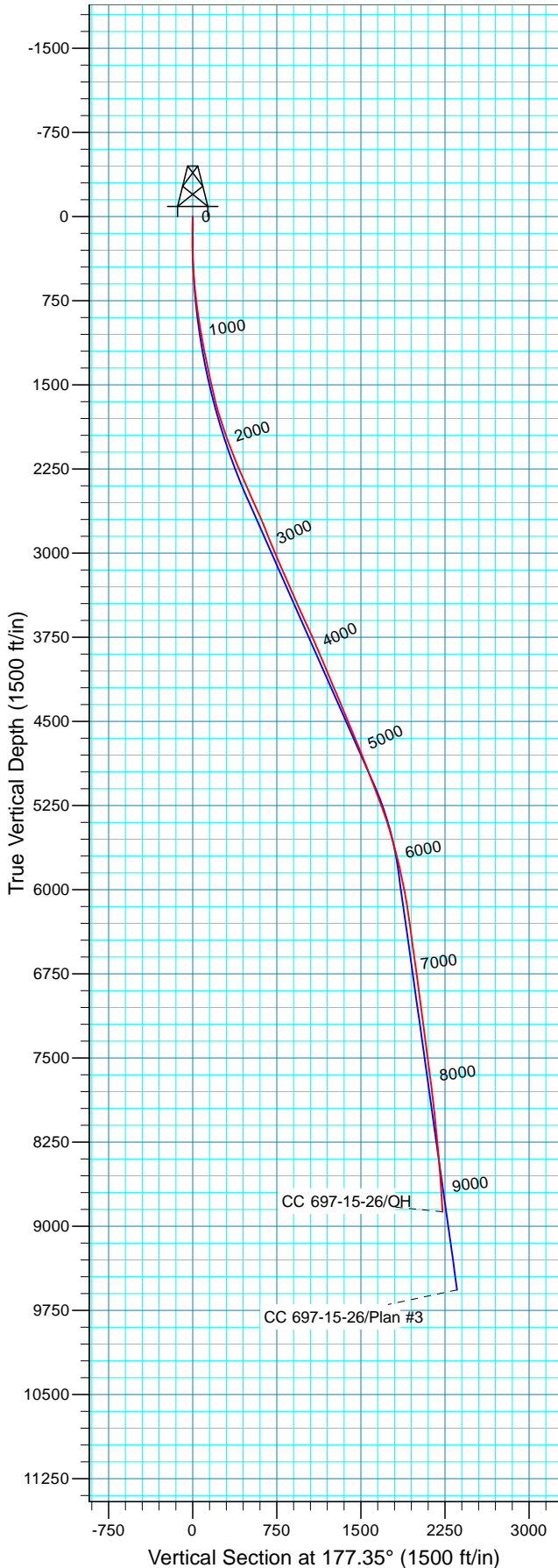
07-Feb-11  
Date

**Julie Cruse**  
Rockies Region Engineer  
Scientific Drilling - Rocky Mountain District



Project: Garfield County, CO NAD27  
Site: Cascade Creek 697-15-01 Pad  
Well: CC 697-15-26  
Wellbore: OH  
Design: OH

OXY USA RMAT



WELL DETAILS: CC 697-15-26

|               | North                          | East      | Lat        | Long             |                   |
|---------------|--------------------------------|-----------|------------|------------------|-------------------|
| Ground Level: | GL 8348' & RKB 30' @ 8378.00ft |           |            |                  |                   |
| 0.00          | 0.00                           | 629170.50 | 1234989.82 | 39° 31' 46.322 N | 108° 12' 44.999 W |
|               |                                |           |            |                  | P                 |

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well CC 697-15-26 - Slot P, True North  
Vertical (TVD) Reference: GL 8348' & RKB 30' @ 8378.00ft  
Section (VS) Reference: Slot - P(0.00N, 0.00E)  
Measured Depth Reference: GL 8348' & RKB 30' @ 8378.00ft  
Calculation Method: Minimum Curvature  
Local North: True  
Location: Sec 15 T6S R97W

PROJECT DETAILS: Garfield County, CO NAD27

Design: OH (CC 697-15-26/OH)

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

Created By: Julie Cruse Date: 2011-02-07



## **OXY USA RMAT**

**Garfield County, CO NAD27  
Cascade Creek 697-15-01 Pad  
CC 697-15-26 - Slot P**

**OH**

**Design: OH**

## **Standard Survey Report**

**07 February, 2011**



|                  |                             |                                     |                                |
|------------------|-----------------------------|-------------------------------------|--------------------------------|
| <b>Company:</b>  | OXY USA RMAT                | <b>Local Co-ordinate Reference:</b> | Well CC 697-15-26 - Slot P     |
| <b>Project:</b>  | Garfield County, CO NAD27   | <b>TVD Reference:</b>               | GL 8348' & RKB 30' @ 8378.00ft |
| <b>Site:</b>     | Cascade Creek 697-15-01 Pad | <b>MD Reference:</b>                | GL 8348' & RKB 30' @ 8378.00ft |
| <b>Well:</b>     | CC 697-15-26                | <b>North Reference:</b>             | True                           |
| <b>Wellbore:</b> | OH                          | <b>Survey Calculation Method:</b>   | Minimum Curvature              |
| <b>Design:</b>   | OH                          | <b>Database:</b>                    | Rockies-R5000.1                |

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

|                              |  |                          |                   |
|------------------------------|--|--------------------------|-------------------|
| <b>Site</b>                  | Cascade Creek 697-15-01 Pad, Sec 15 T6S R97W |                          |                   |
| <b>Site Position:</b>        |  | <b>Northing:</b>         | 629,156.97 usft   |
| <b>From:</b>                 | Map  | <b>Easting:</b>          | 1,234,961.93 usft |
| <b>Position Uncertainty:</b> | 0.00 ft                                      | <b>Slot Radius:</b>      | 13.200 in         |
|                              |  | <b>Latitude:</b>         | 39° 31' 46.180 N  |
|                              |  | <b>Longitude:</b>        | 108° 12' 45.350 W |
|                              |  | <b>Grid Convergence:</b> | -1.71 °           |

|                             |                       |                            |                                   |
|-----------------------------|-----------------------|----------------------------|-----------------------------------|
| <b>Well</b>                 | CC 697-15-26 - Slot P |                            |                                   |
| <b>Well Position</b>        | <b>+N/-S</b>          | 0.00 ft                    | <b>Northing:</b> 629,170.50 usft  |
|                             | <b>+E/-W</b>          | 0.00 ft                    | <b>Easting:</b> 1,234,989.82 usft |
| <b>Position Uncertainty</b> | 0.00 ft               | <b>Wellhead Elevation:</b> | ft                                |
|                             |                       | <b>Latitude:</b>           | 39° 31' 46.322 N                  |
|                             |                       | <b>Longitude:</b>          | 108° 12' 44.999 W                 |
|                             |                       | <b>Ground Level:</b>       | 8,348.00 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> |
|                  | IGRF2010          | 2010-11-24         | 10.52                  | 65.74                | 52,277                     |

|                          |                              |                   |                   |                      |      |
|--------------------------|------------------------------|-------------------|-------------------|----------------------|------|
| <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              | 177.35               |      |

|                       |                |                               |                     |                                    |  |
|-----------------------|----------------|-------------------------------|---------------------|------------------------------------|--|
| <b>Survey Program</b> | <b>Date</b>    | 2011-02-07                    |                     |                                    |  |
| <b>From (ft)</b>      | <b>To (ft)</b> | <b>Survey (Wellbore)</b>      | <b>Tool Name</b>    | <b>Description</b>                 |  |
| 109.00                | 478.00         | Survey #1 - Surface Gyro (OH) | Standard Keeper 103 | Standard Wireline Keeper ver 1.0.3 |  |
| 525.00                | 2,671.00       | Survey #2 - Surface MWD (OH)  | MWD-SDI             | MWD - Standard ISCWSA              |  |
| 2,789.00              | 9,235.00       | Survey #3 - Production (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                       |  |
| 109.00                       | 0.92                   | 359.49             | 109.00                     | 0.88              | -0.01             | -0.87                        | 0.84                         | 0.84                        | 0.00                       |  |
| <b>First SDI Gyro Survey</b> |                        |                    |                            |                   |                   |                              |                              |                             |                            |  |
| 140.00                       | 0.61                   | 2.21               | 139.99                     | 1.29              | 0.00              | -1.29                        | 1.01                         | -1.00                       | 8.77                       |  |
| 170.00                       | 0.47                   | 319.70             | 169.99                     | 1.54              | -0.08             | -1.54                        | 1.38                         | -0.47                       | -141.70                    |  |
| 201.00                       | 0.46                   | 227.16             | 200.99                     | 1.55              | -0.25             | -1.56                        | 2.17                         | -0.03                       | -298.52                    |  |
| 232.00                       | 0.88                   | 230.04             | 231.99                     | 1.32              | -0.52             | -1.34                        | 1.36                         | 1.35                        | 9.29                       |  |
| 263.00                       | 1.09                   | 217.86             | 262.98                     | 0.93              | -0.89             | -0.97                        | 0.95                         | 0.68                        | -39.29                     |  |
| 293.00                       | 1.40                   | 215.70             | 292.98                     | 0.41              | -1.28             | -0.47                        | 1.04                         | 1.03                        | -7.20                      |  |

|                  |                             |                                     |                                |
|------------------|-----------------------------|-------------------------------------|--------------------------------|
| <b>Company:</b>  | OXY USA RMAT                | <b>Local Co-ordinate Reference:</b> | Well CC 697-15-26 - Slot P     |
| <b>Project:</b>  | Garfield County, CO NAD27   | <b>TVD Reference:</b>               | GL 8348' & RKB 30' @ 8378.00ft |
| <b>Site:</b>     | Cascade Creek 697-15-01 Pad | <b>MD Reference:</b>                | GL 8348' & RKB 30' @ 8378.00ft |
| <b>Well:</b>     | CC 697-15-26                | <b>North Reference:</b>             | True                           |
| <b>Wellbore:</b> | OH                          | <b>Survey Calculation Method:</b>   | Minimum Curvature              |
| <b>Design:</b>   | OH                          | <b>Database:</b>                    | Rockies-R5000.1                |

| 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) |
| 324.00                             | 1.44            | 204.40      | 323.97              | -0.25      | -1.66      | 0.18                  | 0.91                  | 0.13                 | -36.45              |
| 355.00                             | 1.53            | 192.50      | 354.96              | -1.01      | -1.91      | 0.92                  | 1.03                  | 0.29                 | -38.39              |
| 386.00                             | 1.70            | 175.74      | 385.94              | -1.88      | -1.96      | 1.78                  | 1.61                  | 0.55                 | -54.06              |
| 416.00                             | 2.38            | 169.69      | 415.93              | -2.93      | -1.82      | 2.84                  | 2.37                  | 2.27                 | -20.17              |
| 447.00                             | 2.79            | 165.83      | 446.89              | -4.30      | -1.52      | 4.22                  | 1.44                  | 1.32                 | -12.45              |
| 478.00                             | 3.61            | 163.60      | 477.85              | -5.96      | -1.06      | 5.91                  | 2.67                  | 2.65                 | -7.19               |
| <b>Last SDI Gyro Survey</b>        |                 |             |                     |            |            |                       |                       |                      |                     |
| 525.00                             | 4.91            | 165.17      | 524.71              | -9.33      | -0.13      | 9.31                  | 2.78                  | 2.77                 | 3.34                |
| <b>First SDI MWD Survey</b>        |                 |             |                     |            |            |                       |                       |                      |                     |
| 617.00                             | 5.63            | 172.13      | 616.33              | -17.60     | 1.50       | 17.66                 | 1.05                  | 0.78                 | 7.57                |
| 711.00                             | 5.98            | 180.22      | 709.85              | -27.07     | 2.11       | 27.14                 | 0.95                  | 0.37                 | 8.61                |
| 803.00                             | 7.12            | 182.86      | 801.24              | -37.56     | 1.81       | 37.60                 | 1.28                  | 1.24                 | 2.87                |
| 899.00                             | 9.15            | 176.70      | 896.27              | -51.12     | 1.95       | 51.16                 | 2.30                  | 2.11                 | -6.42               |
| 992.00                             | 10.20           | 174.07      | 987.95              | -66.69     | 3.23       | 66.77                 | 1.22                  | 1.13                 | -2.83               |
| 1,086.00                           | 10.38           | 170.55      | 1,080.44            | -83.33     | 5.48       | 83.49                 | 0.70                  | 0.19                 | -3.74               |
| 1,181.00                           | 10.99           | 173.10      | 1,173.79            | -100.76    | 7.97       | 101.02                | 0.81                  | 0.64                 | 2.68                |
| 1,275.00                           | 11.17           | 174.77      | 1,266.04            | -118.72    | 9.88       | 119.05                | 0.39                  | 0.19                 | 1.78                |
| 1,370.00                           | 11.17           | 172.31      | 1,359.24            | -137.00    | 11.95      | 137.41                | 0.50                  | 0.00                 | -2.59               |
| 1,464.00                           | 12.57           | 173.19      | 1,451.23            | -156.18    | 14.38      | 156.68                | 1.50                  | 1.49                 | 0.94                |
| 1,559.00                           | 13.10           | 174.15      | 1,543.86            | -177.16    | 16.70      | 177.74                | 0.60                  | 0.56                 | 1.01                |
| 1,654.00                           | 13.98           | 178.02      | 1,636.22            | -199.34    | 18.20      | 199.96                | 1.33                  | 0.93                 | 4.07                |
| 1,748.00                           | 16.27           | 180.04      | 1,726.95            | -223.86    | 18.58      | 224.47                | 2.50                  | 2.44                 | 2.15                |
| 1,843.00                           | 18.11           | 176.62      | 1,817.71            | -251.91    | 19.44      | 252.53                | 2.21                  | 1.94                 | -3.60               |
| 1,937.00                           | 19.17           | 175.74      | 1,906.78            | -281.88    | 21.45      | 282.57                | 1.17                  | 1.13                 | -0.94               |
| 2,032.00                           | 19.79           | 177.23      | 1,996.34            | -313.50    | 23.38      | 314.25                | 0.84                  | 0.65                 | 1.57                |
| 2,126.00                           | 21.02           | 177.93      | 2,084.44            | -346.24    | 24.76      | 347.02                | 1.33                  | 1.31                 | 0.74                |
| 2,221.00                           | 21.90           | 177.67      | 2,172.85            | -380.97    | 26.10      | 381.77                | 0.93                  | 0.93                 | -0.27               |
| 2,315.00                           | 21.90           | 179.34      | 2,260.07            | -416.02    | 27.01      | 416.82                | 0.66                  | 0.00                 | 1.78                |
| 2,410.00                           | 24.62           | 181.27      | 2,347.34            | -453.53    | 26.78      | 454.28                | 2.97                  | 2.86                 | 2.03                |
| 2,505.00                           | 24.71           | 181.10      | 2,433.67            | -493.16    | 25.96      | 493.83                | 0.12                  | 0.09                 | -0.18               |
| 2,599.00                           | 24.27           | 179.43      | 2,519.22            | -532.12    | 25.77      | 532.75                | 0.87                  | -0.47                | -1.78               |
| 2,671.00                           | 24.09           | 179.78      | 2,584.90            | -561.61    | 25.98      | 562.21                | 0.32                  | -0.25                | 0.49                |
| <b>Last Survey in 14 3/4" Hole</b> |                 |             |                     |            |            |                       |                       |                      |                     |
| 2,789.00                           | 22.77           | 178.56      | 2,693.17            | -608.53    | 26.64      | 609.11                | 1.19                  | -1.12                | -1.03               |
| <b>First Survey in 8 3/4" Hole</b> |                 |             |                     |            |            |                       |                       |                      |                     |
| 2,883.00                           | 22.25           | 174.34      | 2,780.01            | -644.42    | 28.86      | 645.07                | 1.81                  | -0.55                | -4.49               |
| 2,978.00                           | 21.28           | 172.32      | 2,868.24            | -679.41    | 32.93      | 680.20                | 1.29                  | -1.02                | -2.13               |
| 3,072.00                           | 23.30           | 173.11      | 2,955.21            | -714.77    | 37.44      | 715.74                | 2.17                  | 2.15                 | 0.84                |
| 3,167.00                           | 22.86           | 175.48      | 3,042.61            | -751.82    | 41.15      | 752.92                | 1.08                  | -0.46                | 2.49                |
| 3,261.00                           | 23.92           | 176.36      | 3,128.89            | -789.04    | 43.80      | 790.22                | 1.19                  | 1.13                 | 0.94                |
| 3,356.00                           | 24.89           | 176.80      | 3,215.40            | -828.22    | 46.14      | 829.47                | 1.04                  | 1.02                 | 0.46                |
| 3,450.00                           | 23.04           | 176.98      | 3,301.29            | -866.35    | 48.21      | 867.65                | 1.97                  | -1.97                | 0.19                |
| 3,545.00                           | 24.01           | 176.80      | 3,388.39            | -904.21    | 50.27      | 905.57                | 1.02                  | 1.02                 | -0.19               |
| 3,639.00                           | 23.30           | 174.34      | 3,474.50            | -941.81    | 53.17      | 943.26                | 1.29                  | -0.76                | -2.62               |

|                  |                             |                                     |                                |
|------------------|-----------------------------|-------------------------------------|--------------------------------|
| <b>Company:</b>  | OXY USA RMAT                | <b>Local Co-ordinate Reference:</b> | Well CC 697-15-26 - Slot P     |
| <b>Project:</b>  | Garfield County, CO NAD27   | <b>TVD Reference:</b>               | GL 8348' & RKB 30' @ 8378.00ft |
| <b>Site:</b>     | Cascade Creek 697-15-01 Pad | <b>MD Reference:</b>                | GL 8348' & RKB 30' @ 8378.00ft |
| <b>Well:</b>     | CC 697-15-26                | <b>North Reference:</b>             | True                           |
| <b>Wellbore:</b> | OH                          | <b>Survey Calculation Method:</b>   | Minimum Curvature              |
| <b>Design:</b>   | OH                          | <b>Database:</b>                    | Rockies-R5000.1                |

| 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) |
| 3,734.00            | 24.01           | 177.59      | 3,561.52            | -979.81    | 55.84      | 981.35                | 1.56                  | 0.75                 | 3.42                |
| 3,828.00            | 25.50           | 177.86      | 3,646.88            | -1,019.14  | 57.40      | 1,020.71              | 1.59                  | 1.59                 | 0.29                |
| 3,923.00            | 24.09           | 177.77      | 3,733.12            | -1,058.95  | 58.92      | 1,060.55              | 1.48                  | -1.48                | -0.09               |
| 4,017.00            | 23.83           | 179.79      | 3,819.02            | -1,097.11  | 59.73      | 1,098.70              | 0.92                  | -0.28                | 2.15                |
| 4,112.00            | 22.95           | 180.49      | 3,906.21            | -1,134.83  | 59.64      | 1,136.37              | 0.97                  | -0.93                | 0.74                |
| 4,207.00            | 22.69           | 178.56      | 3,993.78            | -1,171.67  | 59.95      | 1,173.18              | 0.83                  | -0.27                | -2.03               |
| 4,301.00            | 23.13           | 175.92      | 4,080.36            | -1,208.21  | 61.72      | 1,209.77              | 1.19                  | 0.47                 | -2.81               |
| 4,396.00            | 21.98           | 176.01      | 4,168.10            | -1,244.55  | 64.28      | 1,246.20              | 1.21                  | -1.21                | 0.09                |
| 4,490.00            | 23.39           | 175.92      | 4,254.82            | -1,280.72  | 66.83      | 1,282.44              | 1.50                  | 1.50                 | -0.10               |
| 4,585.00            | 23.83           | 175.48      | 4,341.87            | -1,318.66  | 69.69      | 1,320.47              | 0.50                  | 0.46                 | -0.46               |
| 4,679.00            | 21.81           | 174.96      | 4,428.51            | -1,354.99  | 72.72      | 1,356.90              | 2.16                  | -2.15                | -0.55               |
| 4,774.00            | 21.72           | 174.16      | 4,516.74            | -1,390.05  | 76.06      | 1,392.08              | 0.33                  | -0.09                | -0.84               |
| 4,868.00            | 23.30           | 173.29      | 4,603.57            | -1,425.82  | 80.00      | 1,427.99              | 1.72                  | 1.68                 | -0.93               |
| 4,963.00            | 23.21           | 171.53      | 4,690.85            | -1,463.00  | 84.95      | 1,465.36              | 0.74                  | -0.09                | -1.85               |
| 5,057.00            | 22.16           | 175.04      | 4,777.58            | -1,498.98  | 89.21      | 1,501.50              | 1.82                  | -1.12                | 3.73                |
| 5,152.00            | 20.93           | 174.96      | 4,865.95            | -1,533.74  | 92.25      | 1,536.36              | 1.30                  | -1.29                | -0.08               |
| 5,246.00            | 20.31           | 175.39      | 4,953.92            | -1,566.72  | 95.04      | 1,569.44              | 0.68                  | -0.66                | 0.46                |
| 5,341.00            | 21.63           | 175.75      | 5,042.63            | -1,600.62  | 97.66      | 1,603.42              | 1.40                  | 1.39                 | 0.38                |
| 5,435.00            | 21.28           | 179.70      | 5,130.12            | -1,634.95  | 99.03      | 1,637.78              | 1.58                  | -0.37                | 4.20                |
| 5,530.00            | 20.49           | 180.05      | 5,218.88            | -1,668.82  | 99.11      | 1,671.62              | 0.84                  | -0.83                | 0.37                |
| 5,624.00            | 19.70           | 179.79      | 5,307.15            | -1,701.12  | 99.15      | 1,703.88              | 0.85                  | -0.84                | -0.28               |
| 5,719.00            | 17.85           | 181.02      | 5,397.10            | -1,731.69  | 98.95      | 1,734.41              | 1.99                  | -1.95                | 1.29                |
| 5,813.00            | 16.88           | 182.25      | 5,486.81            | -1,759.73  | 98.16      | 1,762.39              | 1.10                  | -1.03                | 1.31                |
| 5,908.00            | 15.39           | 179.17      | 5,578.07            | -1,786.12  | 97.80      | 1,788.73              | 1.81                  | -1.57                | -3.24               |
| 6,002.00            | 14.33           | 179.26      | 5,668.92            | -1,810.22  | 98.13      | 1,812.82              | 1.13                  | -1.13                | 0.10                |
| 6,097.00            | 13.54           | 180.58      | 5,761.13            | -1,833.10  | 98.17      | 1,835.68              | 0.90                  | -0.83                | 1.39                |
| 6,192.00            | 12.57           | 180.14      | 5,853.67            | -1,854.56  | 98.03      | 1,857.11              | 1.03                  | -1.02                | -0.46               |
| 6,286.00            | 12.05           | 179.09      | 5,945.51            | -1,874.60  | 98.16      | 1,877.13              | 0.60                  | -0.55                | -1.12               |
| 6,381.00            | 10.02           | 180.67      | 6,038.75            | -1,892.78  | 98.23      | 1,895.30              | 2.16                  | -2.14                | 1.66                |
| 6,475.00            | 9.23            | 182.78      | 6,131.42            | -1,908.49  | 97.76      | 1,910.96              | 0.92                  | -0.84                | 2.24                |
| 6,570.00            | 8.27            | 178.56      | 6,225.32            | -1,922.93  | 97.57      | 1,925.38              | 1.22                  | -1.01                | -4.44               |
| 6,664.00            | 7.30            | 181.37      | 6,318.45            | -1,935.66  | 97.59      | 1,938.10              | 1.11                  | -1.03                | 2.99                |
| 6,759.00            | 7.56            | 177.94      | 6,412.65            | -1,947.93  | 97.67      | 1,950.37              | 0.54                  | 0.27                 | -3.61               |
| 6,853.00            | 8.62            | 170.30      | 6,505.72            | -1,961.06  | 99.08      | 1,963.54              | 1.60                  | 1.13                 | -8.13               |
| 6,948.00            | 7.91            | 170.56      | 6,599.73            | -1,974.52  | 101.36     | 1,977.10              | 0.75                  | -0.75                | 0.27                |
| 7,043.00            | 7.21            | 173.81      | 6,693.91            | -1,986.90  | 103.07     | 1,989.54              | 0.86                  | -0.74                | 3.42                |
| 7,137.00            | 7.74            | 176.89      | 6,787.11            | -1,999.09  | 104.05     | 2,001.76              | 0.71                  | 0.56                 | 3.28                |
| 7,232.00            | 8.44            | 177.59      | 6,881.16            | -2,012.44  | 104.69     | 2,015.13              | 0.74                  | 0.74                 | 0.74                |
| 7,326.00            | 7.47            | 180.93      | 6,974.26            | -2,025.44  | 104.88     | 2,028.12              | 1.14                  | -1.03                | 3.55                |
| 7,421.00            | 7.21            | 179.26      | 7,068.48            | -2,037.58  | 104.86     | 2,040.25              | 0.35                  | -0.27                | -1.76               |
| 7,515.00            | 7.21            | 178.73      | 7,161.73            | -2,049.37  | 105.06     | 2,052.04              | 0.07                  | 0.00                 | -0.56               |
| 7,610.00            | 6.95            | 175.75      | 7,256.01            | -2,061.06  | 105.62     | 2,063.74              | 0.47                  | -0.27                | -3.14               |
| 7,704.00            | 7.30            | 174.96      | 7,349.28            | -2,072.68  | 106.57     | 2,075.39              | 0.39                  | 0.37                 | -0.84               |

|                  |                             |                                     |                                |
|------------------|-----------------------------|-------------------------------------|--------------------------------|
| <b>Company:</b>  | OXY USA RMAT                | <b>Local Co-ordinate Reference:</b> | Well CC 697-15-26 - Slot P     |
| <b>Project:</b>  | Garfield County, CO NAD27   | <b>TVD Reference:</b>               | GL 8348' & RKB 30' @ 8378.00ft |
| <b>Site:</b>     | Cascade Creek 697-15-01 Pad | <b>MD Reference:</b>                | GL 8348' & RKB 30' @ 8378.00ft |
| <b>Well:</b>     | CC 697-15-26                | <b>North Reference:</b>             | True                           |
| <b>Wellbore:</b> | OH                          | <b>Survey Calculation Method:</b>   | Minimum Curvature              |
| <b>Design:</b>   | OH                          | <b>Database:</b>                    | Rockies-R5000.1                |

| 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) |
| 7,799.00  | 7.91            | 171.09      | 7,443.45            | -2,085.15  | 108.11     | 2,087.92              | 0.84                  | 0.64                 | -4.07               |
| 7,893.00  | 8.00            | 172.93      | 7,536.54            | -2,098.04  | 109.92     | 2,100.87              | 0.29                  | 0.10                 | 1.96                |
| 7,988.00  | 7.47            | 173.99      | 7,630.68            | -2,110.74  | 111.38     | 2,113.63              | 0.58                  | -0.56                | 1.12                |
| 8,083.00  | 7.21            | 174.34      | 7,724.90            | -2,122.81  | 112.61     | 2,125.75              | 0.28                  | -0.27                | 0.37                |
| 8,177.00  | 6.77            | 177.15      | 7,818.20            | -2,134.22  | 113.47     | 2,137.18              | 0.59                  | -0.47                | 2.99                |
| 8,272.00  | 6.42            | 180.67      | 7,912.57            | -2,145.12  | 113.69     | 2,148.08              | 0.56                  | -0.37                | 3.71                |
| 8,366.00  | 6.24            | 181.28      | 8,006.00            | -2,155.48  | 113.51     | 2,158.42              | 0.20                  | -0.19                | 0.65                |
| 8,461.00  | 5.89            | 183.13      | 8,100.47            | -2,165.51  | 113.13     | 2,168.42              | 0.42                  | -0.37                | 1.95                |
| 8,555.00  | 5.54            | 184.18      | 8,194.00            | -2,174.85  | 112.54     | 2,177.73              | 0.39                  | -0.37                | 1.12                |
| 8,650.00  | 5.01            | 182.78      | 8,288.60            | -2,183.57  | 112.00     | 2,186.41              | 0.57                  | -0.56                | -1.47               |
| 8,744.00  | 4.66            | 188.75      | 8,382.27            | -2,191.44  | 111.22     | 2,194.24              | 0.65                  | -0.37                | 6.35                |
| 8,839.00  | 4.92            | 192.89      | 8,476.93            | -2,199.23  | 109.72     | 2,201.95              | 0.46                  | 0.27                 | 4.36                |
| 8,934.00  | 4.57            | 197.81      | 8,571.61            | -2,206.80  | 107.66     | 2,209.42              | 0.56                  | -0.37                | 5.18                |
| 9,028.00  | 4.13            | 200.80      | 8,665.34            | -2,213.53  | 105.31     | 2,216.03              | 0.53                  | -0.47                | 3.18                |
| 9,123.00  | 4.13            | 204.31      | 8,760.09            | -2,219.85  | 102.69     | 2,222.22              | 0.27                  | 0.00                 | 3.69                |
| 9,172.00  | 4.04            | 208.71      | 8,808.97            | -2,222.97  | 101.13     | 2,225.27              | 0.67                  | -0.18                | 8.98                |
| <b>Last SDI MWD Survey</b>                                      |                 |             |                     |            |            |                       |                       |                      |                     |
| 9,235.00  | 4.04            | 208.71      | 8,871.81            | -2,226.86  | 99.00      | 2,229.06              | 0.00                  | 0.00                 | 0.00                |
| <b>Projection to TD - BHL = 626941.68 ft N, 1235022.30 ft E</b> |                 |             |                     |            |            |                       |                       |                      |                     |

| Design Annotations  |                     |                   |            |                                       |
|---------------------|---------------------|-------------------|------------|---------------------------------------|
| Measured Depth (ft) | Vertical Depth (ft) | Local Coordinates |            | Comment                               |
|                     |                     | +N/-S (ft)        | +E/-W (ft) |                                       |
| 109.00              | 109.00              | 0.88              | -0.01      | First SDI Gyro Survey                 |
| 478.00              | 477.85              | -5.96             | -1.06      | Last SDI Gyro Survey                  |
| 525.00              | 524.71              | -9.33             | -0.13      | First SDI MWD Survey                  |
| 2,671.00            | 2,584.90            | -561.61           | 25.98      | Last Survey in 14 3/4" Hole           |
| 2,789.00            | 2,693.17            | -608.53           | 26.64      | First Survey in 8 3/4" Hole           |
| 9,172.00            | 8,808.97            | -2,222.97         | 101.13     | Last SDI MWD Survey                   |
| 9,235.00            | 8,871.81            | -2,226.86         | 99.00      | Projection to TD                      |
| 9,235.00            | 8,871.81            | -2,226.86         | 99.00      | BHL = 626941.68 ft N, 1235022.30 ft E |

|                   |                    |             |
|-------------------|--------------------|-------------|
| Checked By: _____ | Approved By: _____ | Date: _____ |
|-------------------|--------------------|-------------|