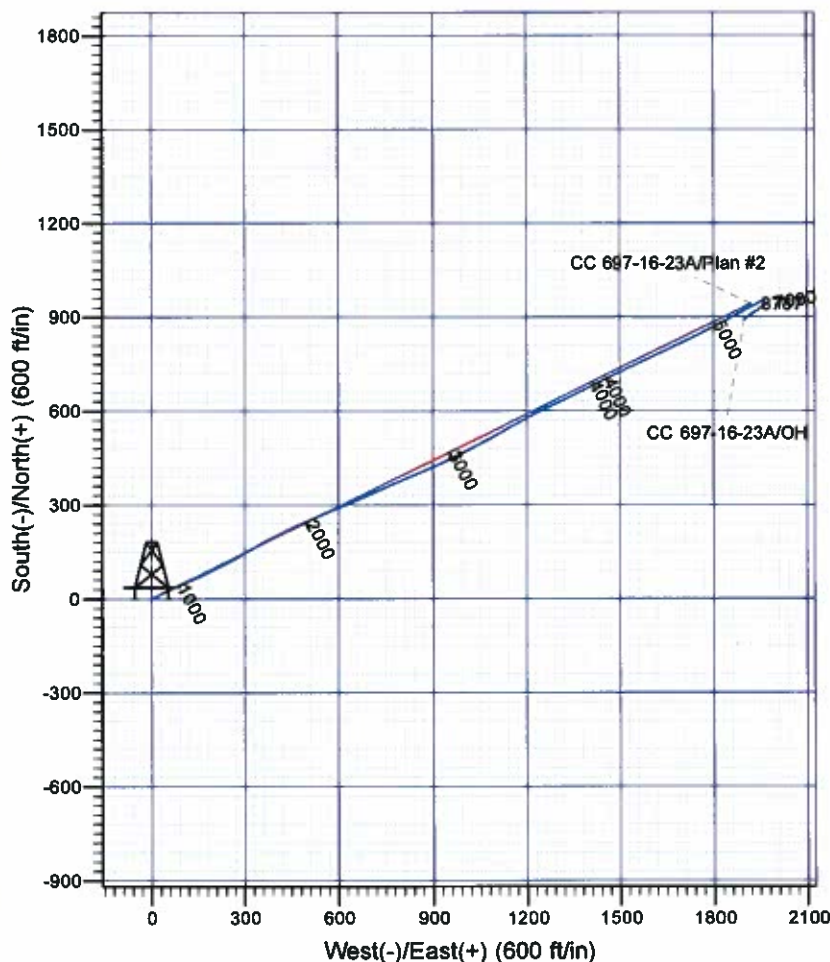
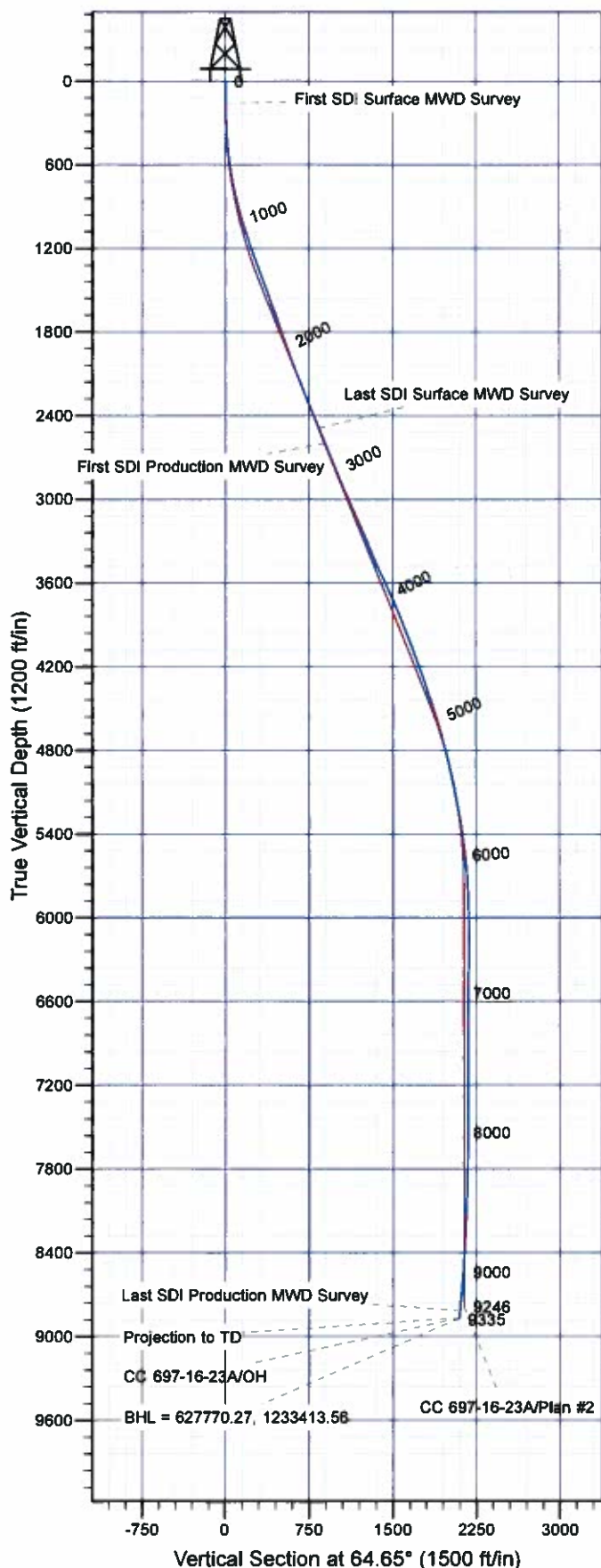




Scientific Drilling

Rocky Mountain Operations

Company: OXY USA RMA
 Project: Garfield County, CO NAD27
 Site: Cascade Creek 697-16-28 Pad
 Well: CC 697-16-23A
 Wellbore: OH
 Design: OH



Well Details: CC 697-16-23A

| +N/-S | +E/-W | Northing | Easting | Latitude | Longitude | Slot |
|-------|-------|-----------|------------|------------------|-------------------|------|
| 0.00 | 0.00 | 626936.75 | 1231487.99 | 39° 31' 23.219 N | 108° 13' 28.817 W | M |

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well CC 697-16-23A - Slot M, True North
 Vertical (TVD) Reference: GL 8297' & RKB 30' @ 8327.00ft (H&P 353)
 Section (VS) Reference: Slot - M(0.00N, 0.00E)
 Measured Depth Reference: GL 8297' & RKB 30' @ 8327.00ft (H&P 353)
 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

11:52, September 21 2011
 Created By: Janie Cooke

OXY USA RMAT

Garfield County, CO NAD27

Cascade Creek 697-16-28 Pad

CC 697-16-23A - Slot M

OH

Design: OH

Standard Survey Report

21 September, 2011





| | | | |
|------------------|-----------------------------|-------------------------------------|--|
| Company: | OXY USA RMAT | Local Co-ordinate Reference: | Well CC 697-16-23A - Slot M |
| Project: | Garfield County, CO NAD27 | TVD Reference: | GL 8297' & RKB 30' @ 8327.00ft (H&P 353) |
| Site: | Cascade Creek 697-16-28 Pad | MD Reference: | GL 8297' & RKB 30' @ 8327.00ft (H&P 353) |
| Well: | CC 697-16-23A | North Reference: | True |
| Wellbore: | OH | Survey Calculation Method: | Minimum Curvature |
| Design: | OH | Database: | Rockies Compass Server |

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

| | | | | | |
|-----------------------|---------|---|-------------------|-------------------|-------------------|
| Site | | Cascade Creek 697-16-28 Pad, Sec. 16 T6N R97W | | | |
| Site Position: | | Northing: | 626,970.66 usft | Latitude: | 39° 31' 23.545 N |
| From: | Map | Easting: | 1,231,458.32 usft | Longitude: | 108° 13' 29.208 W |
| Position Uncertainty: | 0.00 ft | Slot Radius: | 0.000 in | Grid Convergence: | -1.72 ° |

| | | | | | | |
|----------------------|------------------------|---------|---------------------|-------------------|---------------|-------------------|
| Well | CC 697-16-23A - Slot M | | | | | |
| Well Position | +N/-S | 0.00 ft | Northing: | 626,936.75 usft | Latitude: | 39° 31' 23.219 N |
| | +E/-W | 0.00 ft | Easting: | 1,231,487.99 usft | Longitude: | 108° 13' 28.817 W |
| Position Uncertainty | | 0.00 ft | Wellhead Elevation: | ft | Ground Level: | 8,297.00 ft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | OH | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2005-10 | 02/04/2011 | 10.48 | 65.74 | 52,284 |

| | | | | | |
|--------------------------|------------------------------|-------------------|-------------------|----------------------|-------|
| Design | OH | | | | |
| Audit Notes: | | | | | |
| Version: | 1.0 | Phase: | ACTUAL | Tie On Depth: | 0.00 |
| Vertical Section: | Depth From (TVD) (ft) | +N/-S (ft) | +E/-W (ft) | Direction (°) | |
| | 0.00 | 0.00 | 0.00 | | 64.65 |

| | | | | | |
|-----------------------|----------------|---------------------------------|------------------|-----------------------|--|
| Survey Program | Date | 09/21/2011 | | | |
| From (ft) | To (ft) | Survey (Wellbore) | Tool Name | Description | |
| 158.00 | 2,663.00 | Survey #1 - Surface MWD (OH) | MWD-SDI | MWD - Standard ISCWSA | |
| 2,783.00 | 9,335.00 | Survey #2 - Production MWD (OH) | MWD-SDI | MWD - Standard ISCWSA | |

| | | | | | | | | | |
|-------------------------------------|------------------------|--------------------|----------------------------|-------------------|-------------------|------------------------------|------------------------------|-----------------------------|----------------------------|
| 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 |
| 158.00 | 1.50 | 72.15 | 157.98 | 0.63 | 1.97 | 2.05 | 0.95 | 0.95 | 0.00 |
| First SDI Surface MWD Survey | | | | | | | | | |
| 250.00 | 2.01 | 78.85 | 249.94 | 1.32 | 4.70 | 4.81 | 0.60 | 0.55 | 7.28 |
| 341.00 | 2.75 | 70.63 | 340.86 | 2.35 | 8.32 | 8.53 | 0.89 | 0.81 | -9.03 |
| 433.00 | 5.74 | 55.69 | 432.60 | 5.67 | 14.21 | 15.27 | 3.44 | 3.25 | -16.24 |
| 526.00 | 8.53 | 62.23 | 524.87 | 11.51 | 24.15 | 26.76 | 3.12 | 3.00 | 7.03 |
| 619.00 | 10.64 | 59.24 | 616.57 | 19.12 | 37.64 | 42.20 | 2.33 | 2.27 | -3.22 |
| 713.00 | 12.84 | 65.48 | 708.60 | 27.89 | 54.60 | 61.28 | 2.70 | 2.34 | 6.64 |
| 805.00 | 15.30 | 68.03 | 797.83 | 36.68 | 75.16 | 83.62 | 2.76 | 2.67 | 2.77 |



| | | | |
|------------------|-----------------------------|-------------------------------------|--|
| Company: | OXY USA RMAT | Local Co-ordinate Reference: | Well CC 697-16-23A - Slot M |
| Project: | Garfield County, CO NAD27 | TVD Reference: | GL 8297' & RKB 30' @ 8327.00ft (H&P 353) |
| Site: | Cascade Creek 697-16-28 Pad | MD Reference: | GL 8297' & RKB 30' @ 8327.00ft (H&P 353) |
| Well: | CC 697-16-23A | North Reference: | True |
| Wellbore: | OH | Survey Calculation Method: | Minimum Curvature |
| Design: | OH | Database: | 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) |
|--|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| 894.00 | 17.76 | 67.24 | 883.15 | 46.32 | 98.57 | 108.91 | 2.78 | 2.76 | -0.89 |
| 987.00 | 19.52 | 66.97 | 971.27 | 57.89 | 125.95 | 138.61 | 1.89 | 1.89 | -0.29 |
| 1,080.00 | 21.90 | 64.86 | 1,058.25 | 71.34 | 155.95 | 171.48 | 2.68 | 2.56 | -2.27 |
| 1,175.00 | 23.13 | 64.69 | 1,146.01 | 86.84 | 188.86 | 207.86 | 1.30 | 1.29 | -0.18 |
| 1,269.00 | 24.18 | 63.81 | 1,232.11 | 103.23 | 222.83 | 245.57 | 1.18 | 1.12 | -0.94 |
| 1,364.00 | 24.97 | 61.17 | 1,318.51 | 121.49 | 257.85 | 285.04 | 1.42 | 0.83 | -2.78 |
| 1,458.00 | 25.85 | 60.47 | 1,403.41 | 141.16 | 293.07 | 325.28 | 0.99 | 0.94 | -0.74 |
| 1,553.00 | 25.06 | 61.08 | 1,489.19 | 161.09 | 328.70 | 366.02 | 0.88 | -0.83 | 0.64 |
| 1,647.00 | 23.65 | 60.38 | 1,574.82 | 180.04 | 362.52 | 404.69 | 1.53 | -1.50 | -0.74 |
| 1,742.00 | 23.74 | 61.61 | 1,661.82 | 198.55 | 395.90 | 442.79 | 0.53 | 0.09 | 1.29 |
| 1,836.00 | 23.83 | 64.25 | 1,747.83 | 215.80 | 429.65 | 480.68 | 1.14 | 0.10 | 2.81 |
| 1,931.00 | 23.04 | 66.97 | 1,835.00 | 231.41 | 464.05 | 518.44 | 1.41 | -0.83 | 2.86 |
| 2,025.00 | 23.92 | 66.09 | 1,921.22 | 246.33 | 498.40 | 555.88 | 1.01 | 0.94 | -0.94 |
| 2,120.00 | 25.24 | 65.65 | 2,007.61 | 262.49 | 534.46 | 595.38 | 1.40 | 1.39 | -0.46 |
| 2,214.00 | 26.38 | 68.03 | 2,092.23 | 278.56 | 572.09 | 636.27 | 1.64 | 1.21 | 2.53 |
| 2,309.00 | 27.26 | 67.06 | 2,177.01 | 294.94 | 611.70 | 679.08 | 1.03 | 0.93 | -1.02 |
| 2,404.00 | 26.64 | 67.32 | 2,261.69 | 311.63 | 651.39 | 722.09 | 0.66 | -0.65 | 0.27 |
| 2,498.00 | 28.31 | 65.30 | 2,345.09 | 329.07 | 691.08 | 765.43 | 2.03 | 1.78 | -2.15 |
| 2,592.00 | 27.70 | 65.65 | 2,428.08 | 347.40 | 731.24 | 809.56 | 0.67 | -0.65 | 0.37 |
| 2,663.00 | 27.00 | 66.45 | 2,491.15 | 360.64 | 761.05 | 842.17 | 1.11 | -0.99 | 1.13 |
| Last SDI Surface MWD Survey | | | | | | | | | |
| 2,783.00 | 26.02 | 66.65 | 2,598.53 | 381.96 | 810.18 | 895.70 | 0.82 | -0.82 | 0.17 |
| First SDI Production MWD Survey | | | | | | | | | |
| 2,877.00 | 27.27 | 66.58 | 2,682.54 | 398.69 | 848.88 | 937.83 | 1.33 | 1.33 | -0.07 |
| 2,972.00 | 27.17 | 66.62 | 2,767.02 | 415.95 | 888.76 | 981.26 | 0.11 | -0.11 | 0.04 |
| 3,066.00 | 27.79 | 65.04 | 2,850.42 | 433.71 | 928.32 | 1,024.62 | 1.02 | 0.66 | -1.68 |
| 3,161.00 | 27.26 | 63.11 | 2,934.67 | 452.89 | 967.81 | 1,068.52 | 1.09 | -0.56 | -2.03 |
| 3,255.00 | 29.99 | 63.28 | 3,017.17 | 473.20 | 1,008.00 | 1,113.53 | 2.91 | 2.90 | 0.18 |
| 3,350.00 | 29.63 | 62.31 | 3,099.60 | 494.79 | 1,050.00 | 1,160.74 | 0.63 | -0.38 | -1.02 |
| 3,444.00 | 28.67 | 61.26 | 3,181.69 | 516.43 | 1,090.35 | 1,206.46 | 1.16 | -1.02 | -1.12 |
| 3,539.00 | 27.52 | 60.73 | 3,265.50 | 538.12 | 1,129.48 | 1,251.11 | 1.24 | -1.21 | -0.56 |
| 3,633.00 | 26.20 | 60.47 | 3,349.35 | 558.96 | 1,166.48 | 1,293.47 | 1.41 | -1.40 | -0.28 |
| 3,728.00 | 27.96 | 62.67 | 3,433.94 | 579.53 | 1,204.51 | 1,336.65 | 2.13 | 1.85 | 2.32 |
| 3,822.00 | 31.22 | 64.25 | 3,515.67 | 600.23 | 1,246.04 | 1,383.05 | 3.57 | 3.47 | 1.68 |
| 3,916.00 | 29.99 | 64.69 | 3,596.57 | 620.86 | 1,289.23 | 1,430.90 | 1.33 | -1.31 | 0.47 |
| 4,011.00 | 29.11 | 64.07 | 3,679.22 | 641.12 | 1,331.47 | 1,477.76 | 0.98 | -0.93 | -0.65 |
| 4,105.00 | 28.31 | 64.07 | 3,761.66 | 660.86 | 1,372.08 | 1,522.91 | 0.85 | -0.85 | 0.00 |
| 4,200.00 | 27.70 | 64.42 | 3,845.53 | 680.25 | 1,412.26 | 1,567.51 | 0.66 | -0.64 | 0.37 |
| 4,294.00 | 26.20 | 63.54 | 3,929.32 | 698.93 | 1,450.54 | 1,610.11 | 1.65 | -1.60 | -0.94 |
| 4,389.00 | 25.15 | 63.63 | 4,014.94 | 717.24 | 1,487.40 | 1,651.26 | 1.11 | -1.11 | 0.09 |
| 4,483.00 | 25.59 | 64.69 | 4,099.88 | 734.79 | 1,523.65 | 1,691.54 | 0.67 | 0.47 | 1.13 |
| 4,578.00 | 24.36 | 64.16 | 4,185.99 | 752.10 | 1,559.83 | 1,731.65 | 1.32 | -1.29 | -0.56 |
| 4,672.00 | 25.15 | 65.48 | 4,271.36 | 768.84 | 1,595.46 | 1,771.00 | 1.03 | 0.84 | 1.40 |



| | | | |
|------------------|-----------------------------|-------------------------------------|--|
| Company: | OXY USA RMAT | Local Co-ordinate Reference: | Well CC 697-16-23A - Slot M |
| Project: | Garfield County, CO NAD27 | TVD Reference: | GL 8297' & RKB 30' @ 8327.00ft (H&P 353) |
| Site: | Cascade Creek 697-16-28 Pad | MD Reference: | GL 8297' & RKB 30' @ 8327.00ft (H&P 353) |
| Well: | CC 697-16-23A | North Reference: | True |
| Wellbore: | OH | Survey Calculation Method: | Minimum Curvature |
| Design: | OH | Database: | 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) |
|---------------------------|--------------------|----------------|---------------------------|---------------|---------------|-----------------------------|-----------------------------|----------------------------|---------------------------|
| 4,767.00 | 23.48 | 64.34 | 4,357.93 | 785.41 | 1,630.88 | 1,810.12 | 1.83 | -1.76 | -1.20 |
| 4,862.00 | 22.34 | 65.39 | 4,445.43 | 801.13 | 1,664.36 | 1,847.10 | 1.27 | -1.20 | 1.11 |
| 4,956.00 | 21.28 | 64.25 | 4,532.70 | 815.98 | 1,695.97 | 1,882.02 | 1.21 | -1.13 | -1.21 |
| 5,051.00 | 19.87 | 63.37 | 4,621.64 | 830.71 | 1,725.93 | 1,915.40 | 1.52 | -1.48 | -0.93 |
| 5,145.00 | 18.29 | 63.37 | 4,710.47 | 844.48 | 1,753.39 | 1,946.12 | 1.68 | -1.68 | 0.00 |
| 5,240.00 | 17.50 | 63.28 | 4,800.88 | 857.58 | 1,779.48 | 1,975.30 | 0.83 | -0.83 | -0.09 |
| 5,334.00 | 16.18 | 62.23 | 4,890.84 | 870.04 | 1,803.69 | 2,002.52 | 1.44 | -1.40 | -1.12 |
| 5,429.00 | 15.30 | 62.23 | 4,982.28 | 882.05 | 1,826.49 | 2,028.27 | 0.93 | -0.93 | 0.00 |
| 5,523.00 | 14.60 | 62.31 | 5,073.10 | 893.33 | 1,847.96 | 2,052.49 | 0.75 | -0.74 | 0.09 |
| 5,617.00 | 13.45 | 62.14 | 5,164.29 | 903.94 | 1,868.11 | 2,075.25 | 1.22 | -1.22 | -0.18 |
| 5,712.00 | 12.75 | 61.79 | 5,256.82 | 914.06 | 1,887.12 | 2,096.76 | 0.74 | -0.74 | -0.37 |
| 5,807.00 | 11.61 | 60.38 | 5,349.68 | 923.74 | 1,904.67 | 2,116.77 | 1.24 | -1.20 | -1.48 |
| 5,901.00 | 9.94 | 65.74 | 5,442.02 | 931.75 | 1,920.29 | 2,134.31 | 2.07 | -1.78 | 5.70 |
| 5,996.00 | 7.83 | 61.96 | 5,535.88 | 938.16 | 1,933.48 | 2,148.97 | 2.30 | -2.22 | -3.98 |
| 6,091.00 | 6.86 | 63.28 | 5,630.10 | 943.76 | 1,944.26 | 2,161.11 | 1.04 | -1.02 | 1.39 |
| 6,185.00 | 4.31 | 63.72 | 5,723.64 | 947.85 | 1,952.44 | 2,170.26 | 2.71 | -2.71 | 0.47 |
| 6,280.00 | 4.04 | 58.89 | 5,818.39 | 951.16 | 1,958.51 | 2,177.16 | 0.47 | -0.28 | -5.08 |
| 6,374.00 | 2.73 | 61.00 | 5,912.23 | 953.95 | 1,963.30 | 2,182.68 | 1.40 | -1.39 | 2.24 |
| 6,469.00 | 0.35 | 53.09 | 6,007.19 | 955.22 | 1,965.51 | 2,185.23 | 2.51 | -2.51 | -8.33 |
| 6,563.00 | 0.44 | 243.90 | 6,101.18 | 955.24 | 1,965.42 | 2,185.15 | 0.84 | 0.10 | -179.99 |
| 6,658.00 | 0.35 | 224.91 | 6,196.18 | 954.87 | 1,964.88 | 2,184.51 | 0.17 | -0.09 | -19.99 |
| 6,748.00 | 0.62 | 234.84 | 6,286.18 | 954.40 | 1,964.29 | 2,183.77 | 0.31 | 0.30 | 11.03 |
| 6,843.00 | 0.79 | 238.27 | 6,381.17 | 953.76 | 1,963.31 | 2,182.61 | 0.18 | 0.18 | 3.61 |
| 6,937.00 | 0.79 | 241.79 | 6,475.16 | 953.11 | 1,962.19 | 2,181.32 | 0.05 | 0.00 | 3.74 |
| 7,032.00 | 1.14 | 236.87 | 6,570.15 | 952.28 | 1,960.82 | 2,179.73 | 0.38 | 0.37 | -5.18 |
| 7,127.00 | 0.53 | 151.61 | 6,665.14 | 951.38 | 1,960.24 | 2,178.82 | 1.28 | -0.64 | -89.75 |
| 7,222.00 | 0.79 | 158.99 | 6,760.14 | 950.38 | 1,960.68 | 2,178.79 | 0.29 | 0.27 | 7.77 |
| 7,316.00 | 0.79 | 157.32 | 6,854.13 | 949.18 | 1,961.17 | 2,178.71 | 0.02 | 0.00 | -1.78 |
| 7,411.00 | 0.88 | 170.07 | 6,949.12 | 947.86 | 1,961.54 | 2,178.49 | 0.22 | 0.09 | 13.42 |
| 7,505.00 | 0.79 | 171.91 | 7,043.11 | 946.50 | 1,961.76 | 2,178.10 | 0.10 | -0.10 | 1.96 |
| 7,600.00 | 0.97 | 170.60 | 7,138.09 | 945.06 | 1,961.98 | 2,177.69 | 0.19 | 0.19 | -1.38 |
| 7,694.00 | 0.88 | 134.03 | 7,232.08 | 943.77 | 1,962.63 | 2,177.72 | 0.62 | -0.10 | -38.90 |
| 7,789.00 | 1.06 | 112.68 | 7,327.07 | 942.93 | 1,963.97 | 2,178.57 | 0.42 | 0.19 | -22.47 |
| 7,883.00 | 1.49 | 163.65 | 7,421.05 | 941.42 | 1,965.11 | 2,178.96 | 1.24 | 0.46 | 54.22 |
| 7,978.00 | 1.67 | 179.91 | 7,516.01 | 938.85 | 1,965.46 | 2,178.17 | 0.51 | 0.19 | 17.12 |
| 8,072.00 | 1.58 | 183.08 | 7,609.98 | 936.19 | 1,965.40 | 2,176.97 | 0.14 | -0.10 | 3.37 |
| 8,167.00 | 1.14 | 233.79 | 7,704.95 | 934.32 | 1,964.56 | 2,175.42 | 1.30 | -0.46 | 53.38 |
| 8,261.00 | 1.67 | 241.88 | 7,798.92 | 933.12 | 1,962.60 | 2,173.13 | 0.60 | 0.56 | 8.61 |
| 8,356.00 | 2.29 | 241.00 | 7,893.87 | 931.55 | 1,959.72 | 2,169.86 | 0.65 | 0.65 | -0.93 |
| 8,450.00 | 2.37 | 241.88 | 7,987.79 | 929.72 | 1,956.36 | 2,166.04 | 0.09 | 0.09 | 0.94 |
| 8,545.00 | 2.46 | 246.09 | 8,082.70 | 927.97 | 1,952.77 | 2,162.04 | 0.21 | 0.09 | 4.43 |
| 8,640.00 | 3.08 | 241.44 | 8,177.59 | 925.93 | 1,948.66 | 2,157.46 | 0.69 | 0.65 | -4.89 |
| 8,734.00 | 3.69 | 231.24 | 8,271.43 | 922.82 | 1,944.08 | 2,151.99 | 0.91 | 0.65 | -10.85 |
| 8,829.00 | 4.13 | 236.16 | 8,366.21 | 919.01 | 1,938.86 | 2,145.63 | 0.58 | 0.46 | 5.18 |



| | | | |
|------------------|-----------------------------|-------------------------------------|--|
| Company: | OXY USA RMAT | Local Co-ordinate Reference: | Well CC 697-16-23A - Slot M |
| Project: | Garfield County, CO NAD27 | TVD Reference: | GL 8297' & RKB 30' @ 8327.00ft (H&P 353) |
| Site: | Cascade Creek 697-16-28 Pad | MD Reference: | GL 8297' & RKB 30' @ 8327.00ft (H&P 353) |
| Well: | CC 697-16-23A | North Reference: | True |
| Wellbore: | OH | Survey Calculation Method: | Minimum Curvature |
| Design: | OH | Database: | 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) |
|---|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| 8,923.00 | 4.48 | 236.25 | 8,459.94 | 915.08 | 1,933.00 | 2,138.65 | 0.37 | 0.37 | 0.10 |
| 9,018.00 | 5.36 | 236.43 | 8,554.59 | 910.57 | 1,926.21 | 2,130.59 | 0.93 | 0.93 | 0.19 |
| 9,112.00 | 5.80 | 234.23 | 8,648.15 | 905.36 | 1,918.70 | 2,121.58 | 0.52 | 0.47 | -2.34 |
| 9,207.00 | 6.33 | 233.88 | 8,742.61 | 899.47 | 1,910.58 | 2,111.71 | 0.56 | 0.56 | -0.37 |
| 9,281.00 | 6.16 | 230.80 | 8,816.18 | 894.55 | 1,904.20 | 2,103.85 | 0.51 | -0.23 | -4.16 |
| Last SDI Production MWD Survey | | | | | | | | | |
| 9,335.00 | 6.16 | 230.80 | 8,869.86 | 890.89 | 1,899.71 | 2,098.22 | 0.00 | 0.00 | 0.00 |
| Projection to TD - BHL = 627770.27, 1233413.56 | | | | | | | | | |

Design Annotations

| Measured Depth (ft) | Vertical Depth (ft) | Local Coordinates | | Comment |
|---------------------|---------------------|-------------------|------------|---------------------------------|
| | | +N/-S (ft) | +E/-W (ft) | |
| 158.00 | 157.98 | 0.63 | 1.97 | First SDI Surface MWD Survey |
| 2,663.00 | 2,491.15 | 360.64 | 761.05 | Last SDI Surface MWD Survey |
| 2,783.00 | 2,598.53 | 381.96 | 810.18 | First SDI Production MWD Survey |
| 9,281.00 | 8,816.18 | 894.55 | 1,904.20 | Last SDI Production MWD Survey |
| 9,335.00 | 8,869.86 | 890.89 | 1,899.71 | Projection to TD |
| 9,335.00 | 8,869.86 | 890.89 | 1,899.71 | BHL = 627770.27, 1233413.56 |

Checked By: _____ Approved By: _____ Date: _____