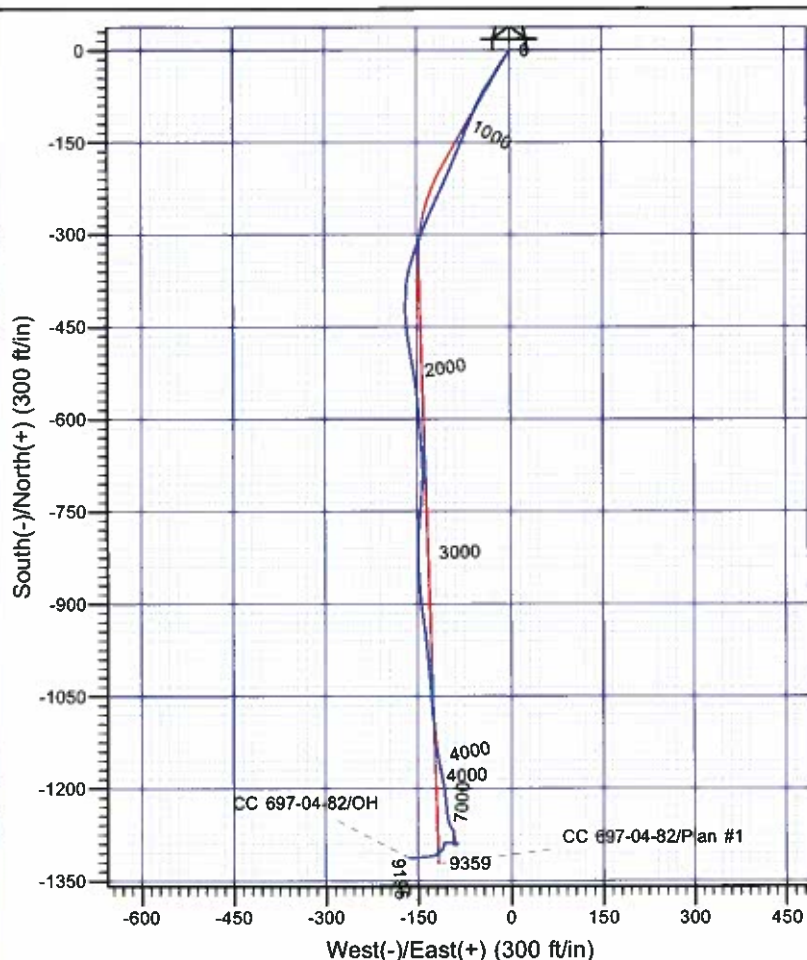
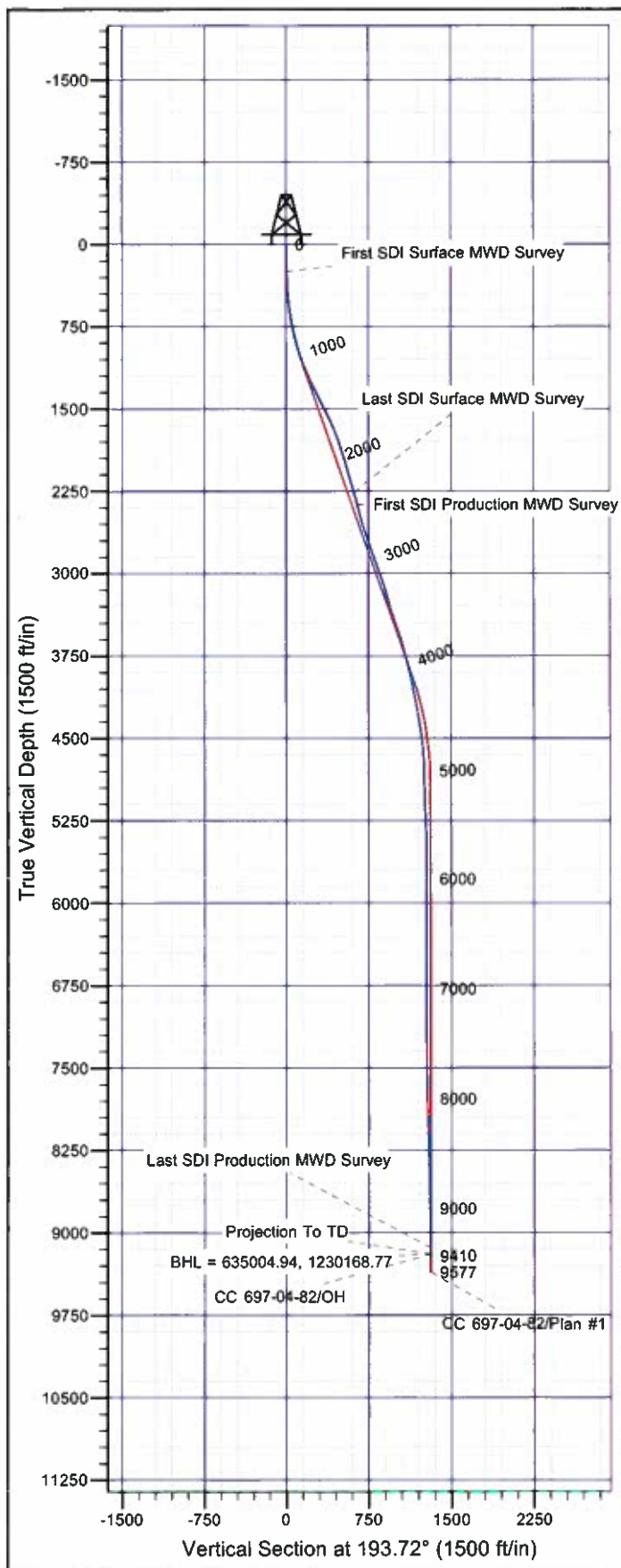




Scientific Drilling

Company: OXY USA RMAT
 Project: Garfield County, CO NAD27
 Site: Cascade Creek 697-04D Pad
 Well: CC 697-04-82
 Wellbore: OH
 Design: OH



Well Details: CC 697-04-82

| TVD Reference: GL 8629' & RKB 30' @ 8659.00ft (H&P) | | GL 8629' & RKB 30' @ 8659.00ft (H&P) | | GL 8629' & RKB 30' @ 8659.00ft (H&P) | | GL 8629' & RKB 30' @ 8659.00ft (H&P) | | GL 8629' & RKB 30' @ 8659.00ft (H&P) | |
|---|-------|--------------------------------------|------------|--------------------------------------|-------------------|--------------------------------------|------|--------------------------------------|------|
| +N/-S | +E/-W | North | East | Lat | Long | Lat | Long | Lat | Long |
| 0.00 | 0.00 | 636313.04 | 1230371.66 | 39° 32' 55.518 N | 108° 13' 46.651 W | | | | |

Slot V

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well CC 697-04-82 - Slot V, True North
 Vertical (TVD) Reference: GL 8629' & RKB 30' @ 8659.00ft (H&P)
 Section (VS) Reference: Slot - V(0.00N, 0.00E)
 Measured Depth Reference: GL 8629' & RKB 30' @ 8659.00ft (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

10:54, February 06 2012
 Created By: Rex Hall

OXY USA RMAT

**Garfield County, CO NAD27
Cascade Creek 697-04D Pad
CC 697-04-82 - Slot V**

OH

Design: OH

Standard Survey Report

06 February, 2012

Scientific Drilling International

Survey Report

| | | | |
|------------------|---------------------------|-------------------------------------|--------------------------------------|
| Company: | OXY USA RMAT | Local Co-ordinate Reference: | Well CC 697-04-82 - Slot V |
| Project: | Garfield County, CO NAD27 | TVD Reference: | GL 8629' & RKB 30' @ 8659.00ft (H&P) |
| Site: | Cascade Creek 697-04D Pad | MD Reference: | GL 8629' & RKB 30' @ 8659.00ft (H&P) |
| Well: | CC 697-04-82 | 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 697-04D Pad | | | |
| Site Position: | | Northing: | 635,530.62 usft | Latitude: | 39° 32' 47.760 N |
| From: | Map | Easting: | 1,230,276.10 usft | Longitude: | 108° 13' 47.570 W |
| Position Uncertainty: | 0.00 ft | Slot Radius: | 13.200 in | Grid Convergence: | -1.72 ° |

| | | | | | | |
|----------------------|-----------------------|---------|---------------------|-------------------|---------------|-------------------|
| Well | CC 697-04-82 - Slot V | | | | | |
| Well Position | +N/-S | 0.00 ft | Northing: | 636,313.04 usft | Latitude: | 39° 32' 55.518 N |
| | +E/-W | 0.00 ft | Easting: | 1,230,371.66 usft | Longitude: | 108° 13' 46.651 W |
| Position Uncertainty | | 0.00 ft | Wellhead Elevation: | ft | Ground Level: | 8,629.00 ft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | OH | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2005-10 | 03/18/11 | 10.47 | 65.76 | 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 | 193.72 | |

| | | | | | |
|-----------------------|----------------|---------------------------------|------------------|-----------------------|--|
| Survey Program | Date | 01/23/12 | | | |
| From (ft) | To (ft) | Survey (Wellbore) | Tool Name | Description | |
| 247.00 | 2,376.00 | Survey #1 - Surface MWD (OH) | MWD-SDI | MWD - Standard ISCWSA | |
| 2,491.00 | 9,410.00 | 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 | |
| 247.00 | 2.82 | 212.77 | 246.90 | -5.11 | -3.29 | 5.74 | 1.14 | 1.14 | 0.00 | |
| First SDI Surface MWD Survey | | | | | | | | | | |
| 339.00 | 2.73 | 204.90 | 338.79 | -9.00 | -5.44 | 10.03 | 0.43 | -0.10 | -8.55 | |
| 430.00 | 3.87 | 221.95 | 429.64 | -13.25 | -8.40 | 14.86 | 1.64 | 1.25 | 18.74 | |
| 522.00 | 6.42 | 209.47 | 521.27 | -20.04 | -13.01 | 22.55 | 3.01 | 2.77 | -13.57 | |
| 614.00 | 7.83 | 210.97 | 612.55 | -29.89 | -18.76 | 33.49 | 1.55 | 1.53 | 1.63 | |
| 703.00 | 11.08 | 211.58 | 700.33 | -42.38 | -26.36 | 47.42 | 3.65 | 3.65 | 0.69 | |
| 792.00 | 12.05 | 213.16 | 787.53 | -57.44 | -35.93 | 64.32 | 1.15 | 1.09 | 1.78 | |
| 883.00 | 14.95 | 207.63 | 876.01 | -75.80 | -46.57 | 84.68 | 3.48 | 3.19 | -6.08 | |

Scientific Drilling International

Survey Report

| | | | |
|------------------|---------------------------|-------------------------------------|--------------------------------------|
| Company: | OXY USA RMAT | Local Co-ordinate Reference: | Well CC 697-04-82 - Slot V |
| Project: | Garfield County, CO NAD27 | TVD Reference: | GL 8629' & RKB 30' @ 8659.00ft (H&P) |
| Site: | Cascade Creek 697-04D Pad | MD Reference: | GL 8629' & RKB 30' @ 8659.00ft (H&P) |
| Well: | CC 697-04-82 | 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) |
|---------------------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| 973.00 | 17.67 | 202.79 | 962.38 | -98.68 | -57.24 | 109.44 | 3.38 | 3.02 | -5.38 |
| 1,068.00 | 20.22 | 202.88 | 1,052.23 | -127.10 | -69.21 | 139.89 | 2.68 | 2.68 | 0.09 |
| 1,162.00 | 22.86 | 201.39 | 1,139.65 | -159.08 | -82.19 | 174.03 | 2.87 | 2.81 | -1.59 |
| 1,257.00 | 24.62 | 203.06 | 1,226.61 | -194.47 | -96.67 | 211.85 | 1.98 | 1.85 | 1.76 |
| 1,352.00 | 27.79 | 205.08 | 1,311.84 | -232.74 | -113.82 | 253.10 | 3.47 | 3.34 | 2.13 |
| 1,447.00 | 27.17 | 202.88 | 1,396.12 | -272.79 | -131.64 | 296.22 | 1.25 | -0.65 | -2.32 |
| 1,541.00 | 27.17 | 200.95 | 1,479.75 | -312.60 | -147.66 | 338.70 | 0.94 | 0.00 | -2.05 |
| 1,636.00 | 26.29 | 194.97 | 1,564.61 | -353.19 | -160.85 | 381.26 | 2.98 | -0.93 | -6.29 |
| 1,731.00 | 23.39 | 184.07 | 1,650.86 | -392.35 | -167.63 | 420.92 | 5.69 | -3.05 | -11.47 |
| 1,825.00 | 22.07 | 177.13 | 1,737.58 | -428.61 | -168.07 | 456.24 | 3.18 | -1.40 | -7.38 |
| 1,920.00 | 21.19 | 172.56 | 1,825.89 | -463.47 | -164.95 | 489.36 | 2.00 | -0.93 | -4.81 |
| 2,015.00 | 17.59 | 169.75 | 1,915.49 | -494.63 | -160.17 | 518.50 | 3.91 | -3.79 | -2.96 |
| 2,110.00 | 16.62 | 170.71 | 2,006.29 | -522.16 | -155.42 | 544.12 | 1.06 | -1.02 | 1.01 |
| 2,205.00 | 17.32 | 172.47 | 2,097.15 | -549.59 | -151.38 | 569.81 | 0.91 | 0.74 | 1.85 |
| 2,299.00 | 17.41 | 174.84 | 2,186.87 | -577.47 | -148.28 | 596.16 | 0.76 | 0.10 | 2.52 |
| 2,376.00 | 17.50 | 176.86 | 2,260.32 | -600.50 | -146.61 | 618.14 | 0.80 | 0.12 | 2.62 |
| Last SDI Surface MWD Survey | | | | | | | | | |
| 2,491.00 | 15.04 | 174.32 | 2,370.71 | -632.62 | -144.18 | 648.76 | 2.23 | -2.14 | -2.21 |
| First SDI Production MWD Survey | | | | | | | | | |
| 2,586.00 | 15.30 | 174.40 | 2,462.40 | -657.36 | -141.74 | 672.22 | 0.27 | 0.27 | 0.08 |
| 2,680.00 | 18.29 | 180.47 | 2,552.39 | -684.46 | -140.65 | 698.29 | 3.68 | 3.18 | 6.46 |
| 2,775.00 | 17.32 | 183.63 | 2,642.84 | -713.48 | -141.67 | 726.72 | 1.44 | -1.02 | 3.33 |
| 2,870.00 | 18.82 | 186.44 | 2,733.15 | -742.82 | -144.28 | 755.84 | 1.83 | 1.58 | 2.96 |
| 2,965.00 | 20.31 | 184.51 | 2,822.67 | -774.48 | -147.30 | 787.32 | 1.71 | 1.57 | -2.03 |
| 3,059.00 | 20.58 | 180.38 | 2,910.75 | -807.27 | -148.69 | 819.50 | 1.56 | 0.29 | -4.39 |
| 3,154.00 | 21.02 | 176.86 | 2,999.56 | -840.98 | -147.87 | 852.05 | 1.39 | 0.46 | -3.71 |
| 3,249.00 | 18.38 | 176.43 | 3,088.99 | -872.95 | -146.00 | 882.67 | 2.78 | -2.78 | -0.45 |
| 3,343.00 | 17.85 | 172.21 | 3,178.34 | -902.01 | -143.13 | 910.22 | 1.51 | -0.56 | -4.49 |
| 3,438.00 | 16.18 | 171.24 | 3,269.18 | -929.52 | -139.14 | 936.00 | 1.78 | -1.76 | -1.02 |
| 3,533.00 | 18.55 | 173.88 | 3,359.84 | -957.63 | -135.51 | 962.45 | 2.63 | 2.49 | 2.78 |
| 3,627.00 | 20.66 | 175.02 | 3,448.39 | -989.02 | -132.48 | 992.22 | 2.28 | 2.24 | 1.21 |
| 3,722.00 | 19.35 | 175.81 | 3,537.65 | -1,021.42 | -129.87 | 1,023.08 | 1.41 | -1.38 | 0.83 |
| 3,817.00 | 17.85 | 175.28 | 3,627.69 | -1,051.63 | -127.52 | 1,051.87 | 1.59 | -1.58 | -0.56 |
| 3,912.00 | 16.36 | 175.02 | 3,718.48 | -1,079.47 | -125.16 | 1,078.35 | 1.57 | -1.57 | -0.27 |
| 4,006.00 | 14.68 | 173.61 | 3,809.05 | -1,104.50 | -122.69 | 1,102.08 | 1.83 | -1.79 | -1.50 |
| 4,101.00 | 13.19 | 174.14 | 3,901.25 | -1,127.24 | -120.24 | 1,123.60 | 1.57 | -1.57 | 0.56 |
| 4,196.00 | 13.10 | 169.66 | 3,993.77 | -1,148.61 | -117.20 | 1,143.64 | 1.08 | -0.09 | -4.72 |
| 4,291.00 | 12.84 | 168.16 | 4,086.34 | -1,169.54 | -113.10 | 1,162.99 | 0.45 | -0.27 | -1.58 |
| 4,385.00 | 11.87 | 170.89 | 4,178.17 | -1,189.31 | -109.43 | 1,181.33 | 1.20 | -1.03 | 2.90 |
| 4,480.00 | 10.73 | 172.29 | 4,271.32 | -1,207.72 | -106.70 | 1,198.56 | 1.23 | -1.20 | 1.47 |
| 4,574.00 | 9.76 | 175.19 | 4,363.82 | -1,224.33 | -104.85 | 1,214.26 | 1.17 | -1.03 | 3.09 |
| 4,669.00 | 8.97 | 174.05 | 4,457.56 | -1,239.72 | -103.41 | 1,228.87 | 0.85 | -0.83 | -1.20 |
| 4,764.00 | 7.83 | 164.82 | 4,551.54 | -1,253.33 | -100.95 | 1,241.51 | 1.85 | -1.20 | -9.72 |

Scientific Drilling International

Survey Report

| | | | |
|------------------|---------------------------|-------------------------------------|--------------------------------------|
| Company: | OXY USA RMAT | Local Co-ordinate Reference: | Well CC 697-04-82 - Slot V |
| Project: | Garfield County, CO NAD27 | TVD Reference: | GL 8629' & RKB 30' @ 8659.00ft (H&P) |
| Site: | Cascade Creek 697-04D Pad | MD Reference: | GL 8629' & RKB 30' @ 8659.00ft (H&P) |
| Well: | CC 697-04-82 | 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) |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| 4,858.00 | 4.13 | 150.41 | 4,645.02 | -1,262.46 | -97.60 | 1,249.58 | 4.22 | -3.94 | -15.33 |
| 4,953.00 | 1.67 | 144.70 | 4,739.89 | -1,266.56 | -95.11 | 1,252.98 | 2.60 | -2.59 | -6.01 |
| 5,048.00 | 1.58 | 142.41 | 4,834.85 | -1,268.73 | -93.51 | 1,254.71 | 0.12 | -0.09 | -2.41 |
| 5,143.00 | 1.06 | 172.82 | 4,929.83 | -1,270.64 | -92.60 | 1,256.35 | 0.90 | -0.55 | 32.01 |
| 5,238.00 | 2.55 | 178.80 | 5,024.78 | -1,273.63 | -92.45 | 1,259.21 | 1.58 | 1.57 | 6.29 |
| 5,332.00 | 2.64 | 175.99 | 5,118.68 | -1,277.88 | -92.25 | 1,263.29 | 0.17 | 0.10 | -2.99 |
| 5,427.00 | 2.46 | 180.82 | 5,213.59 | -1,282.10 | -92.13 | 1,267.37 | 0.29 | -0.19 | 5.08 |
| 5,521.00 | 2.37 | 184.42 | 5,307.50 | -1,286.05 | -92.31 | 1,271.25 | 0.19 | -0.10 | 3.83 |
| 5,616.00 | 2.29 | 195.15 | 5,402.43 | -1,289.84 | -92.96 | 1,275.09 | 0.47 | -0.08 | 11.29 |
| 5,711.00 | 0.79 | 100.66 | 5,497.40 | -1,291.80 | -92.81 | 1,276.95 | 2.61 | -1.58 | -99.46 |
| 5,805.00 | 0.79 | 98.29 | 5,591.39 | -1,292.01 | -91.53 | 1,276.85 | 0.03 | 0.00 | -2.52 |
| 5,900.00 | 0.79 | 87.13 | 5,686.38 | -1,292.07 | -90.23 | 1,276.60 | 0.16 | 0.00 | -11.75 |
| 5,995.00 | 0.88 | 78.16 | 5,781.37 | -1,291.89 | -88.86 | 1,276.10 | 0.17 | 0.09 | -9.44 |
| 6,089.00 | 0.62 | 55.84 | 5,875.36 | -1,291.45 | -87.73 | 1,275.41 | 0.41 | -0.28 | -23.74 |
| 6,184.00 | 0.35 | 81.15 | 5,970.36 | -1,291.12 | -87.02 | 1,274.92 | 0.36 | -0.28 | 26.64 |
| 6,278.00 | 0.26 | 67.97 | 6,064.36 | -1,291.00 | -86.54 | 1,274.69 | 0.12 | -0.10 | -14.02 |
| 6,373.00 | 0.09 | 6.44 | 6,159.36 | -1,290.84 | -86.33 | 1,274.49 | 0.24 | -0.18 | -64.77 |
| 6,467.00 | 0.26 | 282.77 | 6,253.36 | -1,290.72 | -86.53 | 1,274.42 | 0.28 | 0.18 | -89.01 |
| 6,562.00 | 0.35 | 45.03 | 6,348.36 | -1,290.47 | -86.54 | 1,274.17 | 0.56 | 0.09 | 128.69 |
| 6,656.00 | 0.44 | 321.09 | 6,442.35 | -1,289.99 | -86.56 | 1,273.71 | 0.57 | 0.10 | -89.30 |
| 6,751.00 | 0.79 | 306.59 | 6,537.35 | -1,289.31 | -87.31 | 1,273.23 | 0.40 | 0.37 | -15.26 |
| 6,846.00 | 1.23 | 284.44 | 6,632.33 | -1,288.67 | -88.83 | 1,272.96 | 0.61 | 0.46 | -23.32 |
| 6,940.00 | 1.32 | 277.24 | 6,726.31 | -1,288.28 | -90.88 | 1,273.07 | 0.20 | 0.10 | -7.66 |
| 7,034.00 | 1.41 | 276.44 | 6,820.28 | -1,288.01 | -93.10 | 1,273.34 | 0.10 | 0.10 | -0.85 |
| 7,129.00 | 1.85 | 273.11 | 6,915.25 | -1,287.80 | -95.79 | 1,273.77 | 0.47 | 0.46 | -3.51 |
| 7,223.00 | 1.06 | 273.54 | 7,009.21 | -1,287.66 | -98.18 | 1,274.21 | 0.84 | -0.84 | 0.46 |
| 7,318.00 | 0.62 | 286.20 | 7,104.20 | -1,287.46 | -99.55 | 1,274.34 | 0.50 | -0.46 | 13.33 |
| 7,412.00 | 0.70 | 261.94 | 7,198.20 | -1,287.40 | -100.60 | 1,274.53 | 0.31 | 0.09 | -25.81 |
| 7,507.00 | 1.14 | 259.83 | 7,293.19 | -1,287.65 | -102.11 | 1,275.13 | 0.46 | 0.46 | -2.22 |
| 7,601.00 | 1.58 | 264.23 | 7,387.16 | -1,287.95 | -104.32 | 1,275.94 | 0.48 | 0.47 | 4.68 |
| 7,696.00 | 1.76 | 259.04 | 7,482.12 | -1,288.36 | -107.05 | 1,276.98 | 0.25 | 0.19 | -5.46 |
| 7,790.00 | 1.06 | 200.33 | 7,576.09 | -1,289.45 | -108.77 | 1,278.45 | 1.61 | -0.74 | -62.46 |
| 7,885.00 | 1.41 | 166.85 | 7,671.07 | -1,291.41 | -108.81 | 1,280.37 | 0.83 | 0.37 | -35.24 |
| 7,980.00 | 1.23 | 195.76 | 7,766.05 | -1,293.53 | -108.82 | 1,282.43 | 0.72 | -0.19 | 30.43 |
| 8,075.00 | 1.49 | 196.20 | 7,861.02 | -1,295.69 | -109.45 | 1,284.68 | 0.27 | 0.27 | 0.46 |
| 8,169.00 | 1.49 | 204.11 | 7,954.99 | -1,297.98 | -110.29 | 1,287.10 | 0.22 | 0.00 | 8.41 |
| 8,264.00 | 1.76 | 218.44 | 8,049.95 | -1,300.25 | -111.70 | 1,289.64 | 0.51 | 0.28 | 15.08 |
| 8,359.00 | 1.85 | 229.60 | 8,144.91 | -1,302.39 | -113.77 | 1,292.21 | 0.38 | 0.09 | 11.75 |
| 8,454.00 | 2.02 | 225.82 | 8,239.85 | -1,304.55 | -116.14 | 1,294.87 | 0.22 | 0.18 | -3.98 |
| 8,548.00 | 1.49 | 233.38 | 8,333.81 | -1,306.43 | -118.31 | 1,297.22 | 0.61 | -0.56 | 8.04 |
| 8,643.00 | 2.73 | 246.56 | 8,428.74 | -1,308.07 | -121.38 | 1,299.53 | 1.39 | 1.31 | 13.87 |
| 8,738.00 | 3.08 | 254.21 | 8,523.62 | -1,309.67 | -125.91 | 1,302.16 | 0.55 | 0.37 | 8.05 |
| 8,832.00 | 2.29 | 260.98 | 8,617.52 | -1,310.65 | -130.19 | 1,304.13 | 0.90 | -0.84 | 7.20 |
| 8,927.00 | 2.37 | 265.72 | 8,712.44 | -1,311.09 | -134.03 | 1,305.47 | 0.22 | 0.08 | 4.99 |

Scientific Drilling International

Survey Report

| | | | |
|------------------|---------------------------|-------------------------------------|--------------------------------------|
| Company: | OXY USA RMAT | Local Co-ordinate Reference: | Well CC 697-04-82 - Slot V |
| Project: | Garfield County, CO NAD27 | TVD Reference: | GL 8629' & RKB 30' @ 8659.00ft (H&P) |
| Site: | Cascade Creek 697-04D Pad | MD Reference: | GL 8629' & RKB 30' @ 8659.00ft (H&P) |
| Well: | CC 697-04-82 | 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) |
|---|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| 9,022.00 | 3.52 | 264.40 | 8,807.31 | -1,311.52 | -138.89 | 1,307.04 | 1.21 | 1.21 | -1.39 |
| 9,117.00 | 3.52 | 261.50 | 8,902.13 | -1,312.24 | -144.67 | 1,309.11 | 0.19 | 0.00 | -3.05 |
| 9,211.00 | 3.43 | 266.07 | 8,995.96 | -1,312.86 | -150.33 | 1,311.05 | 0.31 | -0.10 | 4.86 |
| 9,306.00 | 3.78 | 268.27 | 9,090.77 | -1,313.15 | -156.30 | 1,312.75 | 0.40 | 0.37 | 2.32 |
| 9,354.00 | 4.04 | 265.81 | 9,138.66 | -1,313.32 | -159.57 | 1,313.69 | 0.64 | 0.54 | -5.13 |
| Last SDI Production MWD Survey | | | | | | | | | |
| 9,410.00 | 4.04 | 265.81 | 9,194.52 | -1,313.61 | -163.50 | 1,314.90 | 0.00 | 0.00 | 0.00 |
| BHL = 635004.94, 1230168.77 - Projection To TD | | | | | | | | | |

Design Annotations

| Measured Depth (ft) | Vertical Depth (ft) | Local Coordinates | | Comment |
|---------------------|---------------------|-------------------|------------|---------------------------------|
| | | +N/-S (ft) | +E/-W (ft) | |
| 247.00 | 246.90 | -5.11 | -3.29 | First SDI Surface MWD Survey |
| 2,376.00 | 2,260.32 | -600.50 | -146.61 | Last SDI Surface MWD Survey |
| 2,491.00 | 2,370.71 | -632.62 | -144.18 | First SDI Production MWD Survey |
| 9,354.00 | 9,138.66 | -1,313.32 | -159.57 | Last SDI Production MWD Survey |
| 9,410.00 | 9,194.52 | -1,313.61 | -163.50 | BHL = 635004.94, 1230168.77 |
| 9,410.00 | 9,194.52 | -1,313.61 | -163.50 | Projection To TD |

Checked By: _____ Approved By: _____ Date: _____