



Scientific Drilling

Rocky Mountain Operations

Company: OXY USA RMAT
Project: Garfield County, CO NAD27
Site: Cascade Creek 697-08-53 Pad



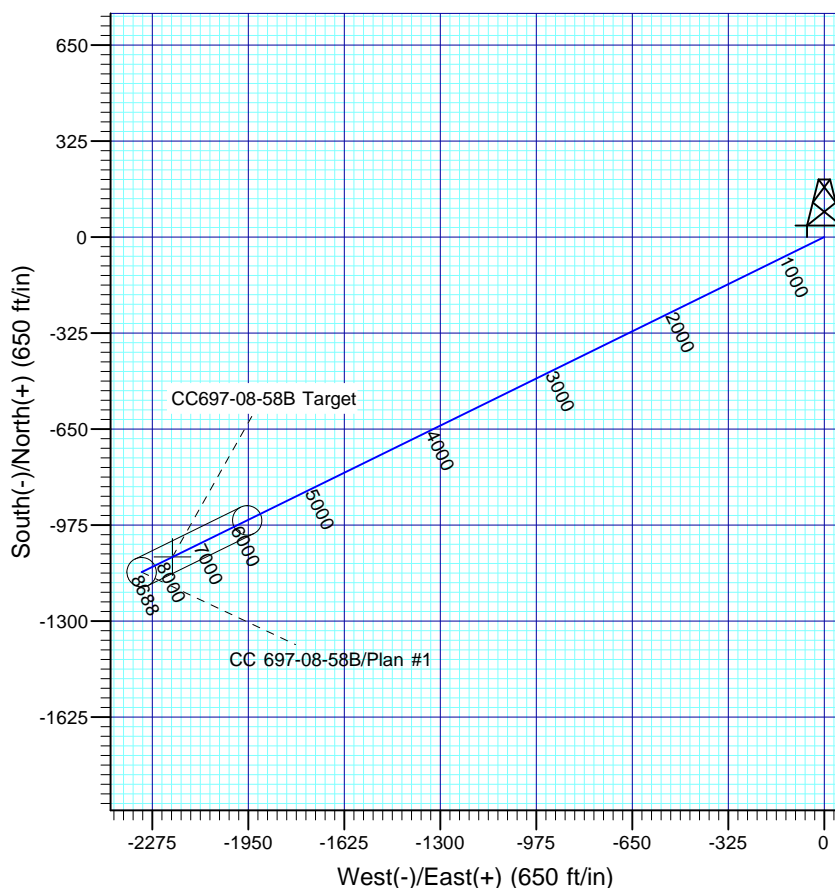
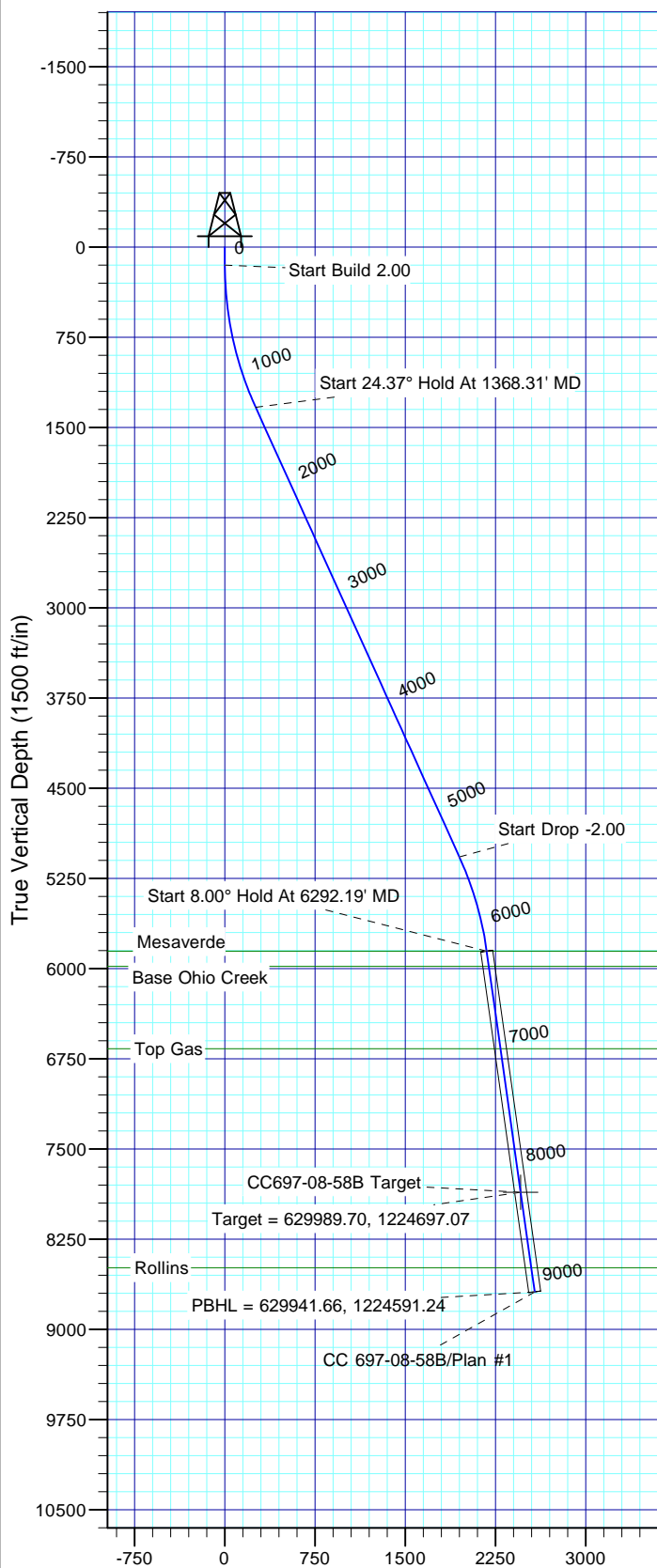
Well Details: CC 697-08-58B

TVD Reference: GL 8411' & RKB 30' @ 8441.00ft (H&P) Ground Level: 8411.00

| +N/-S | +E/-W | Northing | Easting | Latitude | Longitude | Slot |
|-------|-------|-----------|------------|-----------------|-------------------|------|
| 0.00 | 0.00 | 631005.76 | 1226935.47 | 39° 32' 2.064 N | 108° 14' 28.454 W | T |

T M Azimuths to True North
Magnetic North: 10.54°

Magnetic Field
Strength: 52328.7snT
Dip Angle: 65.76°
Date: 9/1/2010
Model: IGRF2005-10



FORMATION TOP DETAILS

| TVDPath | MDPath | Formation |
|---------|---------|-----------------|
| 5855.00 | 6292.18 | Mesaverde |
| 5981.00 | 6419.42 | Base Ohio Creek |
| 6666.00 | 7111.15 | Top Gas |
| 8488.00 | 8951.06 | Rollins |

Plan: Plan #1

3:37, September 02 2010
Created By: Rex Hall

PROJECT DETAILS: Garfield County, CO NAD27

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

System Datum: Mean Sea Level

| CC 697-08-58B | | | | Slot | T |
|---------------|-------------|--------------|-------------|------------|---|
| NAD83 | NAD83 | NAD27 | NAD27 | | |
| CO. CENTRAL | CO. CENTRAL | CO. CENTRAL | CO. CENTRAL | | |
| NORTH (FEET) | EAST (FEET) | NORTH (FEET) | EAST (FEET) | | |
| SHL | 1631015.17 | 2226775.09 | 631005.76 | 1226935.47 | |
| Top Gas | 1630068.56 | 2224689.59 | 630059.12 | 1224850.00 | |
| BHL | 1629951.10 | 2224430.81 | 629941.66 | 1224591.23 | |

SECTION DETAILS

| Sec | MD | Inc | Azi | TVD | +N/-S | +E/-W | Dleg | TFace | V Sect | Target |
|-----|---------|-------|--------|---------|----------|----------|------|--------|---------|---------------------|
| 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 2 | 150.00 | 0.00 | 0.00 | 150.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 3 | 1368.31 | 24.37 | 243.86 | 1331.92 | -112.43 | -229.07 | 2.00 | 243.86 | 255.18 | |
| 4 | 5473.87 | 24.37 | 243.86 | 5071.79 | -858.76 | -1749.61 | 0.00 | 0.00 | 0.00 | |
| 5 | 6292.19 | 8.00 | 243.86 | 5855.00 | -958.91 | -1953.65 | 2.00 | 180.00 | 2176.29 | |
| 6 | 8317.90 | 8.00 | 243.86 | 7861.00 | -1083.13 | -2206.73 | 0.00 | 0.00 | 2458.22 | CC697-08-58B Target |
| 7 | 9153.02 | 8.00 | 243.86 | 8688.00 | -1134.34 | -2311.07 | 0.00 | 0.00 | 2574.45 | |



OXY USA RMAT

**Garfield County, CO NAD27
Cascade Creek 697-08-53 Pad
CC 697-08-58B - Slot T**

OH

Plan: Plan #1

Standard Planning Report

02 September, 2010



| | | | |
|------------------|-----------------------------|-------------------------------------|--------------------------------------|
| Database: | Rockies-R5000.1 | Local Co-ordinate Reference: | Well CC 697-08-58B - Slot T |
| Company: | OXY USA RMAT | TVD Reference: | GL 8411' & RKB 30' @ 8441.00ft (H&P) |
| Project: | Garfield County, CO NAD27 | MD Reference: | GL 8411' & RKB 30' @ 8441.00ft (H&P) |
| Site: | Cascade Creek 697-08-53 Pad | North Reference: | True |
| Well: | CC 697-08-58B | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OH | | |
| Design: | Plan #1 | | |

| | | | |
|--------------------|--------------------------------------|----------------------|----------------|
| 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 697-08-53 Pad, Sec. 8 T6S R97W | | | |
| Site Position: | | Northing: | 630,837.78 usft | Latitude: 39° 32' 0.393 N |
| From: Map | | Easting: | 1,226,897.42 usft | Longitude: 108° 14' 28.874 W |
| Position Uncertainty: | 0.00 ft | Slot Radius: | 0.000 in | Grid Convergence: -1.73 ° |

| | | | | |
|-----------------------------|------------------------|-----------|----------------------------|----------------------------------|
| Well | CC 697-08-58B - Slot T | | | |
| Well Position | +N/-S | 169.05 ft | Northing: | 631,005.76 usft |
| | +E/-W | 32.96 ft | Easting: | 1,226,935.47 usft |
| Position Uncertainty | | 0.00 ft | Wellhead Elevation: | Ground Level: 8,411.00 ft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | OH | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2005-10 | 9/1/2010 | 10.54 | 65.76 | 52,329 |

| | | | | |
|--------------------------|------------------------------|-------------------|----------------------|----------------------|
| Design | Plan #1 | | | |
| Audit Notes: | | | | |
| Version: | Phase: | PLAN | Tie On Depth: | 0.00 |
| Vertical Section: | Depth From (TVD) (ft) | +N/-S (ft) | +E/-W (ft) | Direction (°) |
| | 0.00 | 0.00 | 0.00 | 243.86 |

| Plan Sections | | | | | | | | | | |
|----------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|----------------------|---------------------|---------|--------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) | TFO (°) | Target |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 150.00 | 0.00 | 0.00 | 150.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,368.31 | 24.37 | 243.86 | 1,331.92 | -112.43 | -229.07 | 2.00 | 2.00 | 0.00 | 243.86 | |
| 5,473.87 | 24.37 | 243.86 | 5,071.79 | -858.76 | -1,749.61 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 6,292.19 | 8.00 | 243.86 | 5,855.00 | -958.91 | -1,953.65 | 2.00 | -2.00 | 0.00 | 180.00 | |
| 8,317.90 | 8.00 | 243.86 | 7,861.00 | -1,083.13 | -2,206.73 | 0.00 | 0.00 | 0.00 | 0.00 | CC697-08-58B Targe |
| 9,153.02 | 8.00 | 243.86 | 8,688.00 | -1,134.34 | -2,311.07 | 0.00 | 0.00 | 0.00 | 0.00 | |

| | | | |
|------------------|-----------------------------|-------------------------------------|--------------------------------------|
| Database: | Rockies-R5000.1 | Local Co-ordinate Reference: | Well CC 697-08-58B - Slot T |
| Company: | OXY USA RMAT | TVD Reference: | GL 8411' & RKB 30' @ 8441.00ft (H&P) |
| Project: | Garfield County, CO NAD27 | MD Reference: | GL 8411' & RKB 30' @ 8441.00ft (H&P) |
| Site: | Cascade Creek 697-08-53 Pad | North Reference: | True |
| Well: | CC 697-08-58B | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OH | | |
| Design: | Plan #1 | | |

| Planned Survey | | | | | | | | | |
|---|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 100.00 | 0.00 | 0.00 | 100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 150.00 | 0.00 | 0.00 | 150.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Start Build 2.00 | | | | | | | | | |
| 200.00 | 1.00 | 243.86 | 200.00 | -0.19 | -0.39 | 0.44 | 2.00 | 2.00 | 0.00 |
| 300.00 | 3.00 | 243.86 | 299.93 | -1.73 | -3.52 | 3.93 | 2.00 | 2.00 | 0.00 |
| 400.00 | 5.00 | 243.86 | 399.68 | -4.80 | -9.79 | 10.90 | 2.00 | 2.00 | 0.00 |
| 500.00 | 7.00 | 243.86 | 499.13 | -9.41 | -19.17 | 21.35 | 2.00 | 2.00 | 0.00 |
| 600.00 | 9.00 | 243.86 | 598.15 | -15.54 | -31.66 | 35.27 | 2.00 | 2.00 | 0.00 |
| 700.00 | 11.00 | 243.86 | 696.63 | -23.19 | -47.25 | 52.63 | 2.00 | 2.00 | 0.00 |
| 800.00 | 13.00 | 243.86 | 794.44 | -32.35 | -65.91 | 73.42 | 2.00 | 2.00 | 0.00 |
| 900.00 | 15.00 | 243.86 | 891.46 | -43.01 | -87.63 | 97.62 | 2.00 | 2.00 | 0.00 |
| 1,000.00 | 17.00 | 243.86 | 987.58 | -55.16 | -112.37 | 125.18 | 2.00 | 2.00 | 0.00 |
| 1,100.00 | 19.00 | 243.86 | 1,082.68 | -68.77 | -140.11 | 156.08 | 2.00 | 2.00 | 0.00 |
| 1,200.00 | 21.00 | 243.86 | 1,176.65 | -83.84 | -170.81 | 190.28 | 2.00 | 2.00 | 0.00 |
| 1,300.00 | 23.00 | 243.86 | 1,269.36 | -100.34 | -204.44 | 227.74 | 2.00 | 2.00 | 0.00 |
| 1,368.31 | 24.37 | 243.86 | 1,331.92 | -112.43 | -229.07 | 255.18 | 2.00 | 2.00 | 0.00 |
| Start 24.37° Hold At 1368.31' MD | | | | | | | | | |
| 1,400.00 | 24.37 | 243.86 | 1,360.79 | -118.20 | -240.81 | 268.25 | 0.00 | 0.00 | 0.00 |
| 1,500.00 | 24.37 | 243.86 | 1,451.88 | -136.37 | -277.84 | 309.51 | 0.00 | 0.00 | 0.00 |
| 1,600.00 | 24.37 | 243.86 | 1,542.97 | -154.55 | -314.88 | 350.76 | 0.00 | 0.00 | 0.00 |
| 1,700.00 | 24.37 | 243.86 | 1,634.06 | -172.73 | -351.91 | 392.02 | 0.00 | 0.00 | 0.00 |
| 1,800.00 | 24.37 | 243.86 | 1,725.16 | -190.91 | -388.95 | 433.28 | 0.00 | 0.00 | 0.00 |
| 1,900.00 | 24.37 | 243.86 | 1,816.25 | -209.09 | -425.99 | 474.53 | 0.00 | 0.00 | 0.00 |
| 2,000.00 | 24.37 | 243.86 | 1,907.34 | -227.27 | -463.02 | 515.79 | 0.00 | 0.00 | 0.00 |
| 2,100.00 | 24.37 | 243.86 | 1,998.43 | -245.44 | -500.06 | 557.05 | 0.00 | 0.00 | 0.00 |
| 2,200.00 | 24.37 | 243.86 | 2,089.53 | -263.62 | -537.09 | 598.30 | 0.00 | 0.00 | 0.00 |
| 2,300.00 | 24.37 | 243.86 | 2,180.62 | -281.80 | -574.13 | 639.56 | 0.00 | 0.00 | 0.00 |
| 2,400.00 | 24.37 | 243.86 | 2,271.71 | -299.98 | -611.17 | 680.82 | 0.00 | 0.00 | 0.00 |
| 2,500.00 | 24.37 | 243.86 | 2,362.80 | -318.16 | -648.20 | 722.07 | 0.00 | 0.00 | 0.00 |
| 2,600.00 | 24.37 | 243.86 | 2,453.90 | -336.34 | -685.24 | 763.33 | 0.00 | 0.00 | 0.00 |
| 2,700.00 | 24.37 | 243.86 | 2,544.99 | -354.51 | -722.27 | 804.59 | 0.00 | 0.00 | 0.00 |
| 2,800.00 | 24.37 | 243.86 | 2,636.08 | -372.69 | -759.31 | 845.84 | 0.00 | 0.00 | 0.00 |
| 2,900.00 | 24.37 | 243.86 | 2,727.18 | -390.87 | -796.35 | 887.10 | 0.00 | 0.00 | 0.00 |
| 3,000.00 | 24.37 | 243.86 | 2,818.27 | -409.05 | -833.38 | 928.36 | 0.00 | 0.00 | 0.00 |
| 3,100.00 | 24.37 | 243.86 | 2,909.36 | -427.23 | -870.42 | 969.61 | 0.00 | 0.00 | 0.00 |
| 3,200.00 | 24.37 | 243.86 | 3,000.45 | -445.41 | -907.45 | 1,010.87 | 0.00 | 0.00 | 0.00 |
| 3,300.00 | 24.37 | 243.86 | 3,091.55 | -463.59 | -944.49 | 1,052.13 | 0.00 | 0.00 | 0.00 |
| 3,400.00 | 24.37 | 243.86 | 3,182.64 | -481.76 | -981.53 | 1,093.38 | 0.00 | 0.00 | 0.00 |
| 3,500.00 | 24.37 | 243.86 | 3,273.73 | -499.94 | -1,018.56 | 1,134.64 | 0.00 | 0.00 | 0.00 |
| 3,600.00 | 24.37 | 243.86 | 3,364.82 | -518.12 | -1,055.60 | 1,175.90 | 0.00 | 0.00 | 0.00 |
| 3,700.00 | 24.37 | 243.86 | 3,455.92 | -536.30 | -1,092.63 | 1,217.16 | 0.00 | 0.00 | 0.00 |
| 3,800.00 | 24.37 | 243.86 | 3,547.01 | -554.48 | -1,129.67 | 1,258.41 | 0.00 | 0.00 | 0.00 |
| 3,900.00 | 24.37 | 243.86 | 3,638.10 | -572.66 | -1,166.71 | 1,299.67 | 0.00 | 0.00 | 0.00 |
| 4,000.00 | 24.37 | 243.86 | 3,729.20 | -590.83 | -1,203.74 | 1,340.93 | 0.00 | 0.00 | 0.00 |
| 4,100.00 | 24.37 | 243.86 | 3,820.29 | -609.01 | -1,240.78 | 1,382.18 | 0.00 | 0.00 | 0.00 |
| 4,200.00 | 24.37 | 243.86 | 3,911.38 | -627.19 | -1,277.81 | 1,423.44 | 0.00 | 0.00 | 0.00 |
| 4,300.00 | 24.37 | 243.86 | 4,002.47 | -645.37 | -1,314.85 | 1,464.70 | 0.00 | 0.00 | 0.00 |
| 4,400.00 | 24.37 | 243.86 | 4,093.57 | -663.55 | -1,351.89 | 1,505.95 | 0.00 | 0.00 | 0.00 |
| 4,500.00 | 24.37 | 243.86 | 4,184.66 | -681.73 | -1,388.92 | 1,547.21 | 0.00 | 0.00 | 0.00 |
| 4,600.00 | 24.37 | 243.86 | 4,275.75 | -699.90 | -1,425.96 | 1,588.47 | 0.00 | 0.00 | 0.00 |
| 4,700.00 | 24.37 | 243.86 | 4,366.84 | -718.08 | -1,462.99 | 1,629.72 | 0.00 | 0.00 | 0.00 |
| 4,800.00 | 24.37 | 243.86 | 4,457.94 | -736.26 | -1,500.03 | 1,670.98 | 0.00 | 0.00 | 0.00 |
| 4,900.00 | 24.37 | 243.86 | 4,549.03 | -754.44 | -1,537.07 | 1,712.24 | 0.00 | 0.00 | 0.00 |

| | | | |
|------------------|-----------------------------|-------------------------------------|--------------------------------------|
| Database: | Rockies-R5000.1 | Local Co-ordinate Reference: | Well CC 697-08-58B - Slot T |
| Company: | OXY USA RMT | TVD Reference: | GL 8411' & RKB 30' @ 8441.00ft (H&P) |
| Project: | Garfield County, CO NAD27 | MD Reference: | GL 8411' & RKB 30' @ 8441.00ft (H&P) |
| Site: | Cascade Creek 697-08-53 Pad | North Reference: | True |
| Well: | CC 697-08-58B | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OH | | |
| Design: | Plan #1 | | |

| Planned Survey | | | | | | | | | |
|--|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 5,000.00 | 24.37 | 243.86 | 4,640.12 | -772.62 | -1,574.10 | 1,753.49 | 0.00 | 0.00 | 0.00 |
| 5,100.00 | 24.37 | 243.86 | 4,731.21 | -790.80 | -1,611.14 | 1,794.75 | 0.00 | 0.00 | 0.00 |
| 5,200.00 | 24.37 | 243.86 | 4,822.31 | -808.98 | -1,648.17 | 1,836.01 | 0.00 | 0.00 | 0.00 |
| 5,300.00 | 24.37 | 243.86 | 4,913.40 | -827.15 | -1,685.21 | 1,877.26 | 0.00 | 0.00 | 0.00 |
| 5,400.00 | 24.37 | 243.86 | 5,004.49 | -845.33 | -1,722.25 | 1,918.52 | 0.00 | 0.00 | 0.00 |
| 5,473.87 | 24.37 | 243.86 | 5,071.79 | -858.76 | -1,749.61 | 1,949.00 | 0.00 | 0.00 | 0.00 |
| Start Drop -2.00 | | | | | | | | | |
| 5,500.00 | 23.84 | 243.86 | 5,095.63 | -863.46 | -1,759.19 | 1,959.67 | 2.00 | -2.00 | 0.00 |
| 5,600.00 | 21.84 | 243.86 | 5,187.79 | -880.57 | -1,794.03 | 1,998.49 | 2.00 | -2.00 | 0.00 |
| 5,700.00 | 19.84 | 243.86 | 5,281.24 | -896.24 | -1,825.97 | 2,034.07 | 2.00 | -2.00 | 0.00 |
| 5,800.00 | 17.84 | 243.86 | 5,375.87 | -910.48 | -1,854.97 | 2,066.37 | 2.00 | -2.00 | 0.00 |
| 5,900.00 | 15.84 | 243.86 | 5,471.58 | -923.24 | -1,880.98 | 2,095.34 | 2.00 | -2.00 | 0.00 |
| 6,000.00 | 13.84 | 243.86 | 5,568.24 | -934.53 | -1,903.97 | 2,120.96 | 2.00 | -2.00 | 0.00 |
| 6,100.00 | 11.84 | 243.86 | 5,665.73 | -944.32 | -1,923.93 | 2,143.19 | 2.00 | -2.00 | 0.00 |
| 6,200.00 | 9.84 | 243.86 | 5,763.94 | -952.61 | -1,940.82 | 2,162.00 | 2.00 | -2.00 | 0.00 |
| 6,292.18 | 8.00 | 243.86 | 5,855.00 | -958.91 | -1,953.65 | 2,176.29 | 2.00 | -2.00 | 0.00 |
| Start 8.00° Hold At 6292.19' MD - Mesaverde | | | | | | | | | |
| 6,300.00 | 8.00 | 243.86 | 5,862.74 | -959.39 | -1,954.63 | 2,177.38 | 0.00 | 0.00 | 0.00 |
| 6,400.00 | 8.00 | 243.86 | 5,961.77 | -965.52 | -1,967.12 | 2,191.30 | 0.00 | 0.00 | 0.00 |
| 6,419.42 | 8.00 | 243.86 | 5,981.00 | -966.71 | -1,969.54 | 2,194.00 | 0.00 | 0.00 | 0.00 |
| Base Ohio Creek | | | | | | | | | |
| 6,500.00 | 8.00 | 243.86 | 6,060.80 | -971.65 | -1,979.61 | 2,205.22 | 0.00 | 0.00 | 0.00 |
| 6,600.00 | 8.00 | 243.86 | 6,159.82 | -977.79 | -1,992.11 | 2,219.13 | 0.00 | 0.00 | 0.00 |
| 6,700.00 | 8.00 | 243.86 | 6,258.85 | -983.92 | -2,004.60 | 2,233.05 | 0.00 | 0.00 | 0.00 |
| 6,800.00 | 8.00 | 243.86 | 6,357.88 | -990.05 | -2,017.09 | 2,246.97 | 0.00 | 0.00 | 0.00 |
| 6,900.00 | 8.00 | 243.86 | 6,456.90 | -996.18 | -2,029.59 | 2,260.89 | 0.00 | 0.00 | 0.00 |
| 7,000.00 | 8.00 | 243.86 | 6,555.93 | -1,002.32 | -2,042.08 | 2,274.80 | 0.00 | 0.00 | 0.00 |
| 7,100.00 | 8.00 | 243.86 | 6,654.96 | -1,008.45 | -2,054.57 | 2,288.72 | 0.00 | 0.00 | 0.00 |
| 7,111.15 | 8.00 | 243.86 | 6,666.00 | -1,009.13 | -2,055.97 | 2,290.27 | 0.00 | 0.00 | 0.00 |
| Top Gas | | | | | | | | | |
| 7,200.00 | 8.00 | 243.86 | 6,753.98 | -1,014.58 | -2,067.07 | 2,302.64 | 0.00 | 0.00 | 0.00 |
| 7,300.00 | 8.00 | 243.86 | 6,853.01 | -1,020.71 | -2,079.56 | 2,316.55 | 0.00 | 0.00 | 0.00 |
| 7,400.00 | 8.00 | 243.86 | 6,952.04 | -1,026.84 | -2,092.05 | 2,330.47 | 0.00 | 0.00 | 0.00 |
| 7,500.00 | 8.00 | 243.86 | 7,051.06 | -1,032.98 | -2,104.55 | 2,344.39 | 0.00 | 0.00 | 0.00 |
| 7,600.00 | 8.00 | 243.86 | 7,150.09 | -1,039.11 | -2,117.04 | 2,358.31 | 0.00 | 0.00 | 0.00 |
| 7,700.00 | 8.00 | 243.86 | 7,249.12 | -1,045.24 | -2,129.53 | 2,372.22 | 0.00 | 0.00 | 0.00 |
| 7,800.00 | 8.00 | 243.86 | 7,348.14 | -1,051.37 | -2,142.03 | 2,386.14 | 0.00 | 0.00 | 0.00 |
| 7,900.00 | 8.00 | 243.86 | 7,447.17 | -1,057.51 | -2,154.52 | 2,400.06 | 0.00 | 0.00 | 0.00 |
| 8,000.00 | 8.00 | 243.86 | 7,546.20 | -1,063.64 | -2,167.01 | 2,413.98 | 0.00 | 0.00 | 0.00 |
| 8,100.00 | 8.00 | 243.86 | 7,645.23 | -1,069.77 | -2,179.51 | 2,427.89 | 0.00 | 0.00 | 0.00 |
| 8,200.00 | 8.00 | 243.86 | 7,744.25 | -1,075.90 | -2,192.00 | 2,441.81 | 0.00 | 0.00 | 0.00 |
| 8,300.00 | 8.00 | 243.86 | 7,843.28 | -1,082.03 | -2,204.50 | 2,455.73 | 0.00 | 0.00 | 0.00 |
| 8,317.90 | 8.00 | 243.86 | 7,861.00 | -1,083.13 | -2,206.73 | 2,458.22 | 0.00 | 0.00 | 0.00 |
| Target = 629989.70, 1224697.07 | | | | | | | | | |
| 8,400.00 | 8.00 | 243.86 | 7,942.31 | -1,088.17 | -2,216.99 | 2,469.64 | 0.00 | 0.00 | 0.00 |
| 8,500.00 | 8.00 | 243.86 | 8,041.33 | -1,094.30 | -2,229.48 | 2,483.56 | 0.00 | 0.00 | 0.00 |
| 8,600.00 | 8.00 | 243.86 | 8,140.36 | -1,100.43 | -2,241.98 | 2,497.48 | 0.00 | 0.00 | 0.00 |
| 8,700.00 | 8.00 | 243.86 | 8,239.39 | -1,106.56 | -2,254.47 | 2,511.40 | 0.00 | 0.00 | 0.00 |
| 8,800.00 | 8.00 | 243.86 | 8,338.41 | -1,112.70 | -2,266.96 | 2,525.31 | 0.00 | 0.00 | 0.00 |
| 8,900.00 | 8.00 | 243.86 | 8,437.44 | -1,118.83 | -2,279.46 | 2,539.23 | 0.00 | 0.00 | 0.00 |
| 8,951.06 | 8.00 | 243.86 | 8,488.00 | -1,121.96 | -2,285.84 | 2,546.34 | 0.00 | 0.00 | 0.00 |
| Rollins | | | | | | | | | |
| 9,000.00 | 8.00 | 243.86 | 8,536.47 | -1,124.96 | -2,291.95 | 2,553.15 | 0.00 | 0.00 | 0.00 |

| | | | |
|------------------|-----------------------------|-------------------------------------|--------------------------------------|
| Database: | Rockies-R5000.1 | Local Co-ordinate Reference: | Well CC 697-08-58B - Slot T |
| Company: | OXY USA RMAT | TVD Reference: | GL 8411' & RKB 30' @ 8441.00ft (H&P) |
| Project: | Garfield County, CO NAD27 | MD Reference: | GL 8411' & RKB 30' @ 8441.00ft (H&P) |
| Site: | Cascade Creek 697-08-53 Pad | North Reference: | True |
| Well: | CC 697-08-58B | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OH | | |
| Design: | Plan #1 | | |

| Planned Survey | | | | | | | | | |
|------------------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 9,100.00 | 8.00 | 243.86 | 8,635.49 | -1,131.09 | -2,304.44 | 2,567.07 | 0.00 | 0.00 | 0.00 |
| 9,153.02 | 8.00 | 243.86 | 8,688.00 | -1,134.34 | -2,311.07 | 2,574.45 | 0.00 | 0.00 | 0.00 |
| PBHL = 629941.66, 1224591.24 | | | | | | | | | |

| Design Targets | | | | | | | | | |
|---|---------------|--------------|----------|------------|------------|-----------------|----------------|------------------|-------------------|
| Target Name - hit/miss target - Shape | Dip Angle (°) | Dip Dir. (°) | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Northing (usft) | Easting (usft) | Latitude | Longitude |
| CC697-08-58B Target - plan hits target center - Circle (radius 50.00) | -8.00 | 243.86 | 7,861.00 | -1,083.13 | -2,206.73 | 629,989.70 | 1,224,697.07 | 39° 31' 51.358 N | 108° 14' 56.618 W |

| Formations | | | | | |
|---------------------|---------------------|-----------------|-----------|---------|-------------------|
| Measured Depth (ft) | Vertical Depth (ft) | Name | Lithology | Dip (°) | Dip Direction (°) |
| 6,292.18 | 5,855.00 | Mesaverde | | 0.00 | |
| 6,419.42 | 5,981.00 | Base Ohio Creek | | 0.00 | |
| 7,111.15 | 6,666.00 | Top Gas | | 0.00 | |
| 8,951.06 | 8,488.00 | Rollins | | 0.00 | |

| Plan Annotations | | | | |
|---------------------|---------------------|-------------------|------------|----------------------------------|
| Measured Depth (ft) | Vertical Depth (ft) | Local Coordinates | | Comment |
| | | +N/-S (ft) | +E/-W (ft) | |
| 150.00 | 150.00 | 0.00 | 0.00 | Start Build 2.00 |
| 1,368.31 | 1,331.92 | -112.43 | -229.07 | Start 24.37° Hold At 1368.31' MD |
| 5,473.87 | 5,071.79 | -858.76 | -1,749.61 | Start Drop -2.00 |
| 6,292.19 | 5,855.00 | -958.91 | -1,953.65 | Start 8.00° Hold At 6292.19' MD |
| 8,317.90 | 7,861.00 | -1,083.13 | -2,206.73 | Target = 629989.70, 1224697.07 |
| 9,153.02 | 8,688.00 | -1,134.34 | -2,311.07 | PBHL = 629941.66, 1224591.24 |