



Ursa Operating Company, LLC

Rio Blanco County, Colorado

Jimmy Gulch 3G Pad

Jimmy Gulch 3G 42C-3-3-97

Wellbore #1

Plan: Design #1

Standard Planning Report

25 July, 2017



| | | | |
|------------------|-----------------------------|-------------------------------------|---|
| Database: | EDM 5000.1 Single User Db | Local Co-ordinate Reference: | Well Jimmy Gulch 3G 42C-3-3-97 |
| Company: | Ursa Operating Company, LLC | TVD Reference: | Jimmy Gulch 3G 42C-3-3-97 @ 6681.0usft (Est KB) |
| Project: | Rio Blanco County, Colorado | MD Reference: | Jimmy Gulch 3G 42C-3-3-97 @ 6681.0usft (Est KB) |
| Site: | Jimmy Gulch 3G Pad | North Reference: | True |
| Well: | Jimmy Gulch 3G 42C-3-3-97 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Design #1 | | |

| | | | |
|--------------------|-----------------------------|----------------------|-----------------------------|
| Project | Rio Blanco County, Colorado | | |
| Map System: | US State Plane 1983 | System Datum: | Mean Sea Level |
| Geo Datum: | North American Datum 1983 | | |
| Map Zone: | Colorado Northern Zone | | Using geodetic scale factor |

| | | | | | |
|------------------------------|--------------------|---------------------|-------------------|--------------------------|----------------|
| Site | Jimmy Gulch 3G Pad | | | | |
| Site Position: | | Northing: | 1,189,455.95 usft | Latitude: | 39.820187318 |
| From: | Lat/Long | Easting: | 2,223,396.68 usft | Longitude: | -108.265221184 |
| Position Uncertainty: | 0.0 usft | Slot Radius: | 13-3/16 " | Grid Convergence: | -1.79 ° |

| | | | | | | |
|-----------------------------|--|------------|----------------------------|-------------------|----------------------|----------------|
| Well | Jimmy Gulch 3G 42C-3-3-97, SHL: Lat 39.820097833 Long -108.265278776 | | | | | |
| Well Position | +N/-S | -32.6 usft | Northing: | 1,189,423.87 usft | Latitude: | 39.820097833 |
| | +E/-W | -16.2 usft | Easting: | 2,223,379.49 usft | Longitude: | -108.265278776 |
| Position Uncertainty | | 0.0 usft | Wellhead Elevation: | 6,681.0 usft | Ground Level: | 6,660.0 usft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | Wellbore #1 | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2015 | 7/21/2017 | 9.85 | 65.80 | 51,653 |

| | | | | |
|--------------------------|--------------------------------|---------------------|----------------------|----------------------|
| Design | Design #1 | | | |
| Audit Notes: | | | | |
| Version: | Phase: | PROTOTYPE | Tie On Depth: | 0.0 |
| Vertical Section: | Depth From (TVD) (usft) | +N/-S (usft) | +E/-W (usft) | Direction (°) |
| | 0.0 | 0.0 | 0.0 | 95.11 |

| Plan Sections | | | | | | | | | | |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|------------------------|-----------------------|---------|---------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | TFO (°) | Target |
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,000.0 | 0.00 | 0.00 | 1,000.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,507.1 | 17.75 | 95.11 | 1,499.0 | -6.9 | 77.6 | 3.50 | 3.50 | 0.00 | 95.11 | |
| 7,309.2 | 17.75 | 95.11 | 7,025.0 | -164.6 | 1,839.2 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 7,816.3 | 0.00 | 0.00 | 7,524.0 | -171.5 | 1,916.8 | 3.50 | -3.50 | 0.00 | 180.00 | JG 3G 42C-3-3-97 TC |
| 13,496.3 | 0.00 | 0.00 | 13,204.0 | -171.5 | 1,916.8 | 0.00 | 0.00 | 0.00 | 0.00 | |

| | | | |
|------------------|-----------------------------|-------------------------------------|---|
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| Company: | Ursa Operating Company, LLC | TVD Reference: | Jimmy Gulch 3G 42C-3-3-97 @ 6681.0usft (Est KB) |
| Project: | Rio Blanco County, Colorado | MD Reference: | Jimmy Gulch 3G 42C-3-3-97 @ 6681.0usft (Est KB) |
| Site: | Jimmy Gulch 3G Pad | North Reference: | True |
| Well: | Jimmy Gulch 3G 42C-3-3-97 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Design #1 | | |

| Planned Survey | | | | | | | | | | |
|--|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | |
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.1 | 0.00 | 0.00 | 0.1 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| SHL 39.820097833, -108.265278776 | | | | | | | | | | |
| 100.0 | 0.00 | 0.00 | 100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| 200.0 | 0.00 | 0.00 | 200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| 300.0 | 0.00 | 0.00 | 300.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| 400.0 | 0.00 | 0.00 | 400.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| 500.0 | 0.00 | 0.00 | 500.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| 600.0 | 0.00 | 0.00 | 600.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| 700.0 | 0.00 | 0.00 | 700.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| 800.0 | 0.00 | 0.00 | 800.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| 900.0 | 0.00 | 0.00 | 900.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,000.0 | 0.00 | 0.00 | 1,000.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| Start Build 3.50 | | | | | | | | | | |
| 1,100.0 | 3.50 | 95.11 | 1,099.9 | -0.3 | 3.0 | 3.1 | 3.50 | 3.50 | 0.00 | 0.00 |
| 1,200.0 | 7.00 | 95.11 | 1,199.5 | -1.1 | 12.2 | 12.2 | 3.50 | 3.50 | 0.00 | 0.00 |
| 1,300.0 | 10.50 | 95.11 | 1,298.3 | -2.4 | 27.3 | 27.4 | 3.50 | 3.50 | 0.00 | 0.00 |
| 1,337.4 | 11.81 | 95.11 | 1,335.0 | -3.1 | 34.5 | 34.6 | 3.50 | 3.50 | 0.00 | 0.00 |
| Green River Fm - Mahogany Bench | | | | | | | | | | |
| 1,395.8 | 13.85 | 95.11 | 1,392.0 | -4.2 | 47.4 | 47.6 | 3.50 | 3.50 | 0.00 | 0.00 |
| Dissolution Surface | | | | | | | | | | |
| 1,400.0 | 14.00 | 95.11 | 1,396.0 | -4.3 | 48.4 | 48.6 | 3.50 | 3.50 | 0.00 | 0.00 |
| 1,507.1 | 17.75 | 95.11 | 1,499.0 | -6.9 | 77.6 | 77.9 | 3.50 | 3.50 | 0.00 | 0.00 |
| Start 5802.1 hold at 1507.1 MD | | | | | | | | | | |
| 1,600.0 | 17.75 | 95.11 | 1,587.5 | -9.5 | 105.8 | 106.2 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,700.0 | 17.75 | 95.11 | 1,682.7 | -12.2 | 136.2 | 136.7 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,800.0 | 17.75 | 95.11 | 1,778.0 | -14.9 | 166.5 | 167.2 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,900.0 | 17.75 | 95.11 | 1,873.2 | -17.6 | 196.9 | 197.7 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,000.0 | 17.75 | 95.11 | 1,968.5 | -20.3 | 227.3 | 228.2 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,100.0 | 17.75 | 95.11 | 2,063.7 | -23.1 | 257.6 | 258.6 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,200.0 | 17.75 | 95.11 | 2,159.0 | -25.8 | 288.0 | 289.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,300.0 | 17.75 | 95.11 | 2,254.2 | -28.5 | 318.3 | 319.6 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,400.0 | 17.75 | 95.11 | 2,349.4 | -31.2 | 348.7 | 350.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,500.0 | 17.75 | 95.11 | 2,444.7 | -33.9 | 379.1 | 380.6 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,583.3 | 17.75 | 95.11 | 2,524.0 | -36.2 | 404.3 | 406.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| Green River Fm - Garden Gulch Mbr | | | | | | | | | | |
| 2,600.0 | 17.75 | 95.11 | 2,539.9 | -36.6 | 409.4 | 411.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,700.0 | 17.75 | 95.11 | 2,635.2 | -39.4 | 439.8 | 441.5 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,800.0 | 17.75 | 95.11 | 2,730.4 | -42.1 | 470.1 | 472.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,818.5 | 17.75 | 95.11 | 2,748.0 | -42.6 | 475.8 | 477.7 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wasatch Fm | | | | | | | | | | |
| 2,900.0 | 17.75 | 95.11 | 2,825.6 | -44.8 | 500.5 | 502.5 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,000.0 | 17.75 | 95.11 | 2,920.9 | -47.5 | 530.9 | 533.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,100.0 | 17.75 | 95.11 | 3,016.1 | -50.2 | 561.2 | 563.5 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,200.0 | 17.75 | 95.11 | 3,111.4 | -52.9 | 591.6 | 594.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,300.0 | 17.75 | 95.11 | 3,206.6 | -55.7 | 622.0 | 624.4 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,400.0 | 17.75 | 95.11 | 3,301.8 | -58.4 | 652.3 | 654.9 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,500.0 | 17.75 | 95.11 | 3,397.1 | -61.1 | 682.7 | 685.4 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,600.0 | 17.75 | 95.11 | 3,492.3 | -63.8 | 713.0 | 715.9 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,700.0 | 17.75 | 95.11 | 3,587.6 | -66.5 | 743.4 | 746.4 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,800.0 | 17.75 | 95.11 | 3,682.8 | -69.2 | 773.8 | 776.8 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,900.0 | 17.75 | 95.11 | 3,778.0 | -72.0 | 804.1 | 807.3 | 0.00 | 0.00 | 0.00 | 0.00 |

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| Wellbore: | Wellbore #1 | | |
| Design: | Design #1 | | |

| Planned Survey | | | | | | | | | | |
|--|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|--|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | |
| 4,000.0 | 17.75 | 95.11 | 3,873.3 | -74.7 | 834.5 | 837.8 | 0.00 | 0.00 | 0.00 | |
| 4,100.0 | 17.75 | 95.11 | 3,968.5 | -77.4 | 864.8 | 868.3 | 0.00 | 0.00 | 0.00 | |
| 4,133.0 | 17.75 | 95.11 | 4,000.0 | -78.3 | 874.9 | 878.4 | 0.00 | 0.00 | 0.00 | |
| Surface Casing | | | | | | | | | | |
| 4,200.0 | 17.75 | 95.11 | 4,063.8 | -80.1 | 895.2 | 898.8 | 0.00 | 0.00 | 0.00 | |
| 4,300.0 | 17.75 | 95.11 | 4,159.0 | -82.8 | 925.6 | 929.3 | 0.00 | 0.00 | 0.00 | |
| 4,400.0 | 17.75 | 95.11 | 4,254.3 | -85.5 | 955.9 | 959.7 | 0.00 | 0.00 | 0.00 | |
| 4,500.0 | 17.75 | 95.11 | 4,349.5 | -88.3 | 986.3 | 990.2 | 0.00 | 0.00 | 0.00 | |
| 4,600.0 | 17.75 | 95.11 | 4,444.7 | -91.0 | 1,016.6 | 1,020.7 | 0.00 | 0.00 | 0.00 | |
| 4,700.0 | 17.75 | 95.11 | 4,540.0 | -93.7 | 1,047.0 | 1,051.2 | 0.00 | 0.00 | 0.00 | |
| 4,800.0 | 17.75 | 95.11 | 4,635.2 | -96.4 | 1,077.4 | 1,081.7 | 0.00 | 0.00 | 0.00 | |
| 4,900.0 | 17.75 | 95.11 | 4,730.5 | -99.1 | 1,107.7 | 1,112.2 | 0.00 | 0.00 | 0.00 | |
| 5,000.0 | 17.75 | 95.11 | 4,825.7 | -101.8 | 1,138.1 | 1,142.6 | 0.00 | 0.00 | 0.00 | |
| 5,100.0 | 17.75 | 95.11 | 4,920.9 | -104.6 | 1,168.5 | 1,173.1 | 0.00 | 0.00 | 0.00 | |
| 5,200.0 | 17.75 | 95.11 | 5,016.2 | -107.3 | 1,198.8 | 1,203.6 | 0.00 | 0.00 | 0.00 | |
| 5,300.0 | 17.75 | 95.11 | 5,111.4 | -110.0 | 1,229.2 | 1,234.1 | 0.00 | 0.00 | 0.00 | |
| 5,381.5 | 17.75 | 95.11 | 5,189.0 | -112.2 | 1,253.9 | 1,258.9 | 0.00 | 0.00 | 0.00 | |
| Ft Union | | | | | | | | | | |
| 5,400.0 | 17.75 | 95.11 | 5,206.7 | -112.7 | 1,259.5 | 1,264.6 | 0.00 | 0.00 | 0.00 | |
| 5,500.0 | 17.75 | 95.11 | 5,301.9 | -115.4 | 1,289.9 | 1,295.1 | 0.00 | 0.00 | 0.00 | |
| 5,600.0 | 17.75 | 95.11 | 5,397.1 | -118.1 | 1,320.3 | 1,325.5 | 0.00 | 0.00 | 0.00 | |
| 5,700.0 | 17.75 | 95.11 | 5,492.4 | -120.9 | 1,350.6 | 1,356.0 | 0.00 | 0.00 | 0.00 | |
| 5,800.0 | 17.75 | 95.11 | 5,587.6 | -123.6 | 1,381.0 | 1,386.5 | 0.00 | 0.00 | 0.00 | |
| 5,900.0 | 17.75 | 95.11 | 5,682.9 | -126.3 | 1,411.3 | 1,417.0 | 0.00 | 0.00 | 0.00 | |
| 6,000.0 | 17.75 | 95.11 | 5,778.1 | -129.0 | 1,441.7 | 1,447.5 | 0.00 | 0.00 | 0.00 | |
| 6,100.0 | 17.75 | 95.11 | 5,873.3 | -131.7 | 1,472.1 | 1,477.9 | 0.00 | 0.00 | 0.00 | |
| 6,200.0 | 17.75 | 95.11 | 5,968.6 | -134.4 | 1,502.4 | 1,508.4 | 0.00 | 0.00 | 0.00 | |
| 6,300.0 | 17.75 | 95.11 | 6,063.8 | -137.2 | 1,532.8 | 1,538.9 | 0.00 | 0.00 | 0.00 | |
| 6,400.0 | 17.75 | 95.11 | 6,159.1 | -139.9 | 1,563.1 | 1,569.4 | 0.00 | 0.00 | 0.00 | |
| 6,500.0 | 17.75 | 95.11 | 6,254.3 | -142.6 | 1,593.5 | 1,599.9 | 0.00 | 0.00 | 0.00 | |
| 6,600.0 | 17.75 | 95.11 | 6,349.5 | -145.3 | 1,623.9 | 1,630.4 | 0.00 | 0.00 | 0.00 | |
| 6,700.0 | 17.75 | 95.11 | 6,444.8 | -148.0 | 1,654.2 | 1,660.8 | 0.00 | 0.00 | 0.00 | |
| 6,800.0 | 17.75 | 95.11 | 6,540.0 | -150.7 | 1,684.6 | 1,691.3 | 0.00 | 0.00 | 0.00 | |
| 6,900.0 | 17.75 | 95.11 | 6,635.3 | -153.5 | 1,715.0 | 1,721.8 | 0.00 | 0.00 | 0.00 | |
| 7,000.0 | 17.75 | 95.11 | 6,730.5 | -156.2 | 1,745.3 | 1,752.3 | 0.00 | 0.00 | 0.00 | |
| 7,100.0 | 17.75 | 95.11 | 6,825.8 | -158.9 | 1,775.7 | 1,782.8 | 0.00 | 0.00 | 0.00 | |
| 7,200.0 | 17.75 | 95.11 | 6,921.0 | -161.6 | 1,806.0 | 1,813.3 | 0.00 | 0.00 | 0.00 | |
| 7,309.2 | 17.75 | 95.11 | 7,025.0 | -164.6 | 1,839.2 | 1,846.5 | 0.00 | 0.00 | 0.00 | |
| Start Drop -3.50 | | | | | | | | | | |
| 7,400.0 | 14.57 | 95.11 | 7,112.2 | -166.8 | 1,864.4 | 1,871.8 | 3.50 | -3.50 | 0.00 | |
| 7,500.0 | 11.07 | 95.11 | 7,209.7 | -168.8 | 1,886.5 | 1,894.0 | 3.50 | -3.50 | 0.00 | |
| 7,600.0 | 7.57 | 95.11 | 7,308.4 | -170.2 | 1,902.6 | 1,910.2 | 3.50 | -3.50 | 0.00 | |
| 7,700.0 | 4.07 | 95.11 | 7,407.8 | -171.1 | 1,912.7 | 1,920.3 | 3.50 | -3.50 | 0.00 | |
| 7,800.0 | 0.57 | 95.11 | 7,507.7 | -171.5 | 1,916.7 | 1,924.4 | 3.50 | -3.50 | 0.00 | |
| 7,810.3 | 0.21 | 95.11 | 7,518.0 | -171.5 | 1,916.8 | 1,924.4 | 3.50 | -3.50 | 0.00 | |
| Ohio Creek | | | | | | | | | | |
| 7,816.3 | 0.00 | 0.00 | 7,524.0 | -171.5 | 1,916.8 | 1,924.4 | 3.50 | -3.50 | 0.00 | |
| Back to Vertical - Start 5680.0 hold at 7816.3 MD - Top of Gas - JG 3G 42C-3-3-97 TGT | | | | | | | | | | |
| 7,900.0 | 0.00 | 0.00 | 7,607.7 | -171.5 | 1,916.8 | 1,924.4 | 0.00 | 0.00 | 0.00 | |
| 7,976.3 | 0.00 | 0.00 | 7,684.0 | -171.5 | 1,916.8 | 1,924.4 | 0.00 | 0.00 | 0.00 | |
| Williams Fork | | | | | | | | | | |

| | | | |
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| Site: | Jimmy Gulch 3G Pad | North Reference: | True |
| Well: | Jimmy Gulch 3G 42C-3-3-97 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Design #1 | | |

| Planned Survey | | | | | | | | | | |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|--|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | |
| 8,000.0 | 0.00 | 0.00 | 7,707.7 | -171.5 | 1,916.8 | 1,924.4 | 0.00 | 0.00 | 0.00 | |
| 8,100.0 | 0.00 | 0.00 | 7,807.7 | -171.5 | 1,916.8 | 1,924.4 | 0.00 | 0.00 | 0.00 | |
| 8,200.0 | 0.00 | 0.00 | 7,907.7 | -171.5 | 1,916.8 | 1,924.4 | 0.00 | 0.00 | 0.00 | |
| 8,300.0 | 0.00 | 0.00 | 8,007.7 | -171.5 | 1,916.8 | 1,924.4 | 0.00 | 0.00 | 0.00 | |
| 8,400.0 | 0.00 | 0.00 | 8,107.7 | -171.5 | 1,916.8 | 1,924.4 | 0.00 | 0.00 | 0.00 | |
| 8,500.0 | 0.00 | 0.00 | 8,207.7 | -171.5 | 1,916.8 | 1,924.4 | 0.00 | 0.00 | 0.00 | |
| 8,600.0 | 0.00 | 0.00 | 8,307.7 | -171.5 | 1,916.8 | 1,924.4 | 0.00 | 0.00 | 0.00 | |
| 8,700.0 | 0.00 | 0.00 | 8,407.7 | -171.5 | 1,916.8 | 1,924.4 | 0.00 | 0.00 | 0.00 | |
| 8,800.0 | 0.00 | 0.00 | 8,507.7 | -171.5 | 1,916.8 | 1,924.4 | 0.00 | 0.00 | 0.00 | |
| 8,900.0 | 0.00 | 0.00 | 8,607.7 | -171.5 | 1,916.8 | 1,924.4 | 0.00 | 0.00 | 0.00 | |
| 9,000.0 | 0.00 | 0.00 | 8,707.7 | -171.5 | 1,916.8 | 1,924.4 | 0.00 | 0.00 | 0.00 | |
| 9,100.0 | 0.00 | 0.00 | 8,807.7 | -171.5 | 1,916.8 | 1,924.4 | 0.00 | 0.00 | 0.00 | |
| 9,200.0 | 0.00 | 0.00 | 8,907.7 | -171.5 | 1,916.8 | 1,924.4 | 0.00 | 0.00 | 0.00 | |
| 9,300.0 | 0.00 | 0.00 | 9,007.7 | -171.5 | 1,916.8 | 1,924.4 | 0.00 | 0.00 | 0.00 | |
| 9,400.0 | 0.00 | 0.00 | 9,107.7 | -171.5 | 1,916.8 | 1,924.4 | 0.00 | 0.00 | 0.00 | |
| 9,500.0 | 0.00 | 0.00 | 9,207.7 | -171.5 | 1,916.8 | 1,924.4 | 0.00 | 0.00 | 0.00 | |
| 9,600.0 | 0.00 | 0.00 | 9,307.7 | -171.5 | 1,916.8 | 1,924.4 | 0.00 | 0.00 | 0.00 | |
| 9,700.0 | 0.00 | 0.00 | 9,407.7 | -171.5 | 1,916.8 | 1,924.4 | 0.00 | 0.00 | 0.00 | |
| 9,800.0 | 0.00 | 0.00 | 9,507.7 | -171.5 | 1,916.8 | 1,924.4 | 0.00 | 0.00 | 0.00 | |
| 9,900.0 | 0.00 | 0.00 | 9,607.7 | -171.5 | 1,916.8 | 1,924.4 | 0.00 | 0.00 | 0.00 | |
| 10,000.0 | 0.00 | 0.00 | 9,707.7 | -171.5 | 1,916.8 | 1,924.4 | 0.00 | 0.00 | 0.00 | |
| 10,100.0 | 0.00 | 0.00 | 9,807.7 | -171.5 | 1,916.8 | 1,924.4 | 0.00 | 0.00 | 0.00 | |
| 10,200.0 | 0.00 | 0.00 | 9,907.7 | -171.5 | 1,916.8 | 1,924.4 | 0.00 | 0.00 | 0.00 | |
| 10,300.0 | 0.00 | 0.00 | 10,007.7 | -171.5 | 1,916.8 | 1,924.4 | 0.00 | 0.00 | 0.00 | |
| 10,400.0 | 0.00 | 0.00 | 10,107.7 | -171.5 | 1,916.8 | 1,924.4 | 0.00 | 0.00 | 0.00 | |
| 10,500.0 | 0.00 | 0.00 | 10,207.7 | -171.5 | 1,916.8 | 1,924.4 | 0.00 | 0.00 | 0.00 | |
| 10,600.0 | 0.00 | 0.00 | 10,307.7 | -171.5 | 1,916.8 | 1,924.4 | 0.00 | 0.00 | 0.00 | |
| 10,700.0 | 0.00 | 0.00 | 10,407.7 | -171.5 | 1,916.8 | 1,924.4 | 0.00 | 0.00 | 0.00 | |
| 10,800.0 | 0.00 | 0.00 | 10,507.7 | -171.5 | 1,916.8 | 1,924.4 | 0.00 | 0.00 | 0.00 | |
| 10,900.0 | 0.00 | 0.00 | 10,607.7 | -171.5 | 1,916.8 | 1,924.4 | 0.00 | 0.00 | 0.00 | |
| 11,000.0 | 0.00 | 0.00 | 10,707.7 | -171.5 | 1,916.8 | 1,924.4 | 0.00 | 0.00 | 0.00 | |
| 11,100.0 | 0.00 | 0.00 | 10,807.7 | -171.5 | 1,916.8 | 1,924.4 | 0.00 | 0.00 | 0.00 | |
| 11,200.0 | 0.00 | 0.00 | 10,907.7 | -171.5 | 1,916.8 | 1,924.4 | 0.00 | 0.00 | 0.00 | |
| 11,300.0 | 0.00 | 0.00 | 11,007.7 | -171.5 | 1,916.8 | 1,924.4 | 0.00 | 0.00 | 0.00 | |
| 11,400.0 | 0.00 | 0.00 | 11,107.7 | -171.5 | 1,916.8 | 1,924.4 | 0.00 | 0.00 | 0.00 | |
| 11,446.3 | 0.00 | 0.00 | 11,154.0 | -171.5 | 1,916.8 | 1,924.4 | 0.00 | 0.00 | 0.00 | |
| Cameo | | | | | | | | | | |
| 11,500.0 | 0.00 | 0.00 | 11,207.7 | -171.5 | 1,916.8 | 1,924.4 | 0.00 | 0.00 | 0.00 | |
| 11,600.0 | 0.00 | 0.00 | 11,307.7 | -171.5 | 1,916.8 | 1,924.4 | 0.00 | 0.00 | 0.00 | |
| 11,700.0 | 0.00 | 0.00 | 11,407.7 | -171.5 | 1,916.8 | 1,924.4 | 0.00 | 0.00 | 0.00 | |
| 11,800.0 | 0.00 | 0.00 | 11,507.7 | -171.5 | 1,916.8 | 1,924.4 | 0.00 | 0.00 | 0.00 | |
| 11,900.0 | 0.00 | 0.00 | 11,607.7 | -171.5 | 1,916.8 | 1,924.4 | 0.00 | 0.00 | 0.00 | |
| 11,946.3 | 0.00 | 0.00 | 11,654.0 | -171.5 | 1,916.8 | 1,924.4 | 0.00 | 0.00 | 0.00 | |
| Rollins | | | | | | | | | | |
| 12,000.0 | 0.00 | 0.00 | 11,707.7 | -171.5 | 1,916.8 | 1,924.4 | 0.00 | 0.00 | 0.00 | |
| 12,100.0 | 0.00 | 0.00 | 11,807.7 | -171.5 | 1,916.8 | 1,924.4 | 0.00 | 0.00 | 0.00 | |
| 12,113.3 | 0.00 | 0.00 | 11,821.0 | -171.5 | 1,916.8 | 1,924.4 | 0.00 | 0.00 | 0.00 | |
| Cozette Fm | | | | | | | | | | |
| 12,200.0 | 0.00 | 0.00 | 11,907.7 | -171.5 | 1,916.8 | 1,924.4 | 0.00 | 0.00 | 0.00 | |
| 12,300.0 | 0.00 | 0.00 | 12,007.7 | -171.5 | 1,916.8 | 1,924.4 | 0.00 | 0.00 | 0.00 | |
| 12,400.0 | 0.00 | 0.00 | 12,107.7 | -171.5 | 1,916.8 | 1,924.4 | 0.00 | 0.00 | 0.00 | |
| 12,470.3 | 0.00 | 0.00 | 12,178.0 | -171.5 | 1,916.8 | 1,924.4 | 0.00 | 0.00 | 0.00 | |

| | | | |
|------------------|-----------------------------|-------------------------------------|---|
| Database: | EDM 5000.1 Single User Db | Local Co-ordinate Reference: | Well Jimmy Gulch 3G 42C-3-3-97 |
| Company: | Ursa Operating Company, LLC | TVD Reference: | Jimmy Gulch 3G 42C-3-3-97 @ 6681.0usft (Est KB) |
| Project: | Rio Blanco County, Colorado | MD Reference: | Jimmy Gulch 3G 42C-3-3-97 @ 6681.0usft (Est KB) |
| Site: | Jimmy Gulch 3G Pad | North Reference: | True |
| Well: | Jimmy Gulch 3G 42C-3-3-97 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Design #1 | | |

| Planned Survey | | | | | | | | | | |
|--|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|--|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | |
| Corcoran | | | | | | | | | | |
| 12,500.0 | 0.00 | 0.00 | 12,207.7 | -171.5 | 1,916.8 | 1,924.4 | 0.00 | 0.00 | 0.00 | |
| 12,600.0 | 0.00 | 0.00 | 12,307.7 | -171.5 | 1,916.8 | 1,924.4 | 0.00 | 0.00 | 0.00 | |
| 12,700.0 | 0.00 | 0.00 | 12,407.7 | -171.5 | 1,916.8 | 1,924.4 | 0.00 | 0.00 | 0.00 | |
| 12,800.0 | 0.00 | 0.00 | 12,507.7 | -171.5 | 1,916.8 | 1,924.4 | 0.00 | 0.00 | 0.00 | |
| 12,900.0 | 0.00 | 0.00 | 12,607.7 | -171.5 | 1,916.8 | 1,924.4 | 0.00 | 0.00 | 0.00 | |
| 13,000.0 | 0.00 | 0.00 | 12,707.7 | -171.5 | 1,916.8 | 1,924.4 | 0.00 | 0.00 | 0.00 | |
| 13,100.0 | 0.00 | 0.00 | 12,807.7 | -171.5 | 1,916.8 | 1,924.4 | 0.00 | 0.00 | 0.00 | |
| 13,200.0 | 0.00 | 0.00 | 12,907.7 | -171.5 | 1,916.8 | 1,924.4 | 0.00 | 0.00 | 0.00 | |
| 13,300.0 | 0.00 | 0.00 | 13,007.7 | -171.5 | 1,916.8 | 1,924.4 | 0.00 | 0.00 | 0.00 | |
| 13,400.0 | 0.00 | 0.00 | 13,107.7 | -171.5 | 1,916.8 | 1,924.4 | 0.00 | 0.00 | 0.00 | |
| 13,496.3 | 0.00 | 0.00 | 13,204.0 | -171.5 | 1,916.8 | 1,924.4 | 0.00 | 0.00 | 0.00 | |
| TD at 13496.3 - BHL 39.8196268, -108.2584550 | | | | | | | | | | |

| Design Targets | | | | | | | | | | |
|---|---------------|--------------|------------|--------------|--------------|-----------------|----------------|--------------|----------------|--|
| Target Name | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude | Longitude | |
| JG 3G 42C-3-3-97 TGT | 0.00 | 0.00 | 7,524.0 | -171.5 | 1,916.8 | 1,189,192.68 | 2,225,289.97 | 39.819626800 | -108.258455000 | |
| - hit/miss target | | | | | | | | | | |
| - Shape | | | | | | | | | | |
| - plan hits target center | | | | | | | | | | |
| - Rectangle (sides W100.0 H40.0 D5,680.0) | | | | | | | | | | |

| Formations | | | | | | |
|-----------------------|-----------------------|-----------------------------------|-----------|---------|-------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Name | Lithology | Dip (°) | Dip Direction (°) | |
| 1,337.4 | 1,335.0 | Green River Fm - Mahogany Bench | | 0.00 | | |
| 1,395.8 | 1,392.0 | Dissolution Surface | | 0.00 | | |
| 2,583.3 | 2,524.0 | Green River Fm - Garden Gulch Mbr | | 0.00 | | |
| 2,818.5 | 2,748.0 | Wasatch Fm | | 0.00 | | |
| 5,381.5 | 5,189.0 | Ft Union | | 0.00 | | |
| 7,810.3 | 7,518.0 | Ohio Creek | | 0.00 | | |
| 7,816.3 | 7,524.0 | Top of Gas | | 0.00 | | |
| 7,976.3 | 7,684.0 | Williams Fork | | 0.00 | | |
| 11,446.3 | 11,154.0 | Cameo | | 0.00 | | |
| 11,946.3 | 11,654.0 | Rollins | | 0.00 | | |
| 12,113.3 | 11,821.0 | Cozzette Fm | | 0.00 | | |
| 12,470.3 | 12,178.0 | Corcoran | | 0.00 | | |

| | | | |
|------------------|-----------------------------|-------------------------------------|---|
| Database: | EDM 5000.1 Single User Db | Local Co-ordinate Reference: | Well Jimmy Gulch 3G 42C-3-3-97 |
| Company: | Ursa Operating Company, LLC | TVD Reference: | Jimmy Gulch 3G 42C-3-3-97 @ 6681.0usft (Est KB) |
| Project: | Rio Blanco County, Colorado | MD Reference: | Jimmy Gulch 3G 42C-3-3-97 @ 6681.0usft (Est KB) |
| Site: | Jimmy Gulch 3G Pad | North Reference: | True |
| Well: | Jimmy Gulch 3G 42C-3-3-97 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Design #1 | | |

| Plan Annotations | | | | |
|-----------------------|-----------------------|-------------------|--------------|----------------------------------|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates | | Comment |
| | | +N/-S (usft) | +E/-W (usft) | |
| 0.1 | 0.1 | 0.0 | 0.0 | SHL 39.820097833, -108.265278776 |
| 1,000.0 | 1,000.0 | 0.0 | 0.0 | Start Build 3.50 |
| 1,507.1 | 1,499.0 | -6.9 | 77.6 | Start 5802.1 hold at 1507.1 MD |
| 4,133.0 | 4,000.0 | -78.3 | 874.9 | Surface Casing |
| 7,309.2 | 7,025.0 | -164.6 | 1,839.2 | Start Drop -3.50 |
| 7,816.3 | 7,524.0 | -171.5 | 1,916.8 | Back to Vertical |
| 7,816.3 | 7,524.0 | -171.5 | 1,916.8 | Start 5680.0 hold at 7816.3 MD |
| 13,496.3 | 13,204.0 | -171.5 | 1,916.8 | TD at 13496.3 |
| 13,496.3 | 13,204.0 | -171.5 | 1,916.8 | BHL 39.8196268, -108.2584550 |



Well Name: Jimmy Gulch 3G 42C-3-3-97
 Surface Location: Jimmy Gulch 3G Pad
 North American Datum 1983 US State Plane 1983 Colorado Northern Zone
 Ground Elevation: 6660.0
 +N/-S +E/-W Northing Easting Latitude Longitude
 0.0 0.0 1189423.88 2223379.49 39.820097833 -108.265278776
 Est KB Jimmy Gulch 3G 42C-3-3-97 @ 6681.0usft (Est KB)



Azimuths to True North
 Magnetic North: 9.85°
 Magnetic Field
 Strength: 51652.6snT
 Dip Angle: 65.80°
 Date: 7/21/2017
 Model: IGRF2015

Jimmy Gulch 3G Pad
 Jimmy Gulch 3G 42C-3-3-97
 Design #1
 21:54, July 25 2017

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)

| Name | TVD | +N/-S | +E/-W | Northing | Easting | Latitude | Longitude | Shape |
|----------------------|--------|--------|--------|------------|------------|--------------|----------------|---------------------------------|
| JG 3G 42C-3-3-97 TGT | 7524.0 | -171.5 | 1916.8 | 1189192.69 | 2225289.97 | 39.819626800 | -108.258455000 | Rectangle (Sides: L40.0 W100.0) |

SECTION DETAILS

| Sec | MD | Inc | Azi | TVD | +N/-S | +E/-W | Dleg | TFace | VSec | Target |
|-----|---------|-------|-------|---------|--------|--------|------|--------|--------|----------------------|
| 1 | 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.0 | |
| 2 | 1000.0 | 0.00 | 0.00 | 1000.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.0 | |
| 3 | 1507.1 | 17.75 | 95.11 | 1499.0 | -6.9 | 77.6 | 3.50 | 95.11 | 77.9 | |
| 4 | 7309.2 | 17.75 | 95.11 | 7025.0 | -164.6 | 1839.2 | 0.00 | 0.00 | 1846.5 | |
| 5 | 7816.3 | 0.00 | 0.00 | 7524.0 | -171.5 | 1916.8 | 3.50 | 180.00 | 1924.4 | JG 3G 42C-3-3-97 TGT |
| 6 | 13496.3 | 0.00 | 0.00 | 13204.0 | -171.5 | 1916.8 | 0.00 | 0.00 | 1924.4 | |

ANNOTATIONS

| TVD | MD | Annotation |
|---------|---------|----------------------------------|
| 0.1 | 0.1 | SHL 39.820097833, -108.265278776 |
| 1000.0 | 1000.0 | Start Build 3.50 |
| 1499.0 | 1507.1 | Start 5802.1 hold at 1507.1 MD |
| 4000.0 | 4133.0 | Surface Casing |
| 7025.0 | 7309.2 | Start Drop -3.50 |
| 7524.0 | 7816.3 | Back to Vertical |
| 7524.0 | 7816.3 | Start 5680.0 hold at 7816.3 MD |
| 13204.0 | 13496.3 | TD at 13496.3 |
| 13204.0 | 13496.3 | BHL 39.8196268, -108.2584550 |

FORMATION TOP DETAILS

| TVDPath | MDPath | Formation | DipAngle | DipDir |
|---------|---------|---------------------|----------|--------|
| 1335.0 | 1337.4 | Mahogany Bench | 0.00 | |
| 1392.0 | 1395.8 | Dissolution Surface | 0.00 | |
| 2524.0 | 2583.3 | Garden Gulch Mbr | 0.00 | |
| 2748.0 | 2818.5 | Wasatch Fm | 0.00 | |
| 5189.0 | 5381.5 | Ft Union | 0.00 | |
| 7518.0 | 7810.3 | Ohio Creek | 0.00 | |
| 7524.0 | 7816.3 | Top of Gas | 0.00 | |
| 7684.0 | 7976.3 | Williams Fork | 0.00 | |
| 11154.0 | 11446.3 | Cameo | 0.00 | |
| 11654.0 | 11946.3 | Rollins | 0.00 | |
| 11821.0 | 12113.3 | Cozzette Fm | 0.00 | |
| 12178.0 | 12470.3 | Corcoran | 0.00 | |

