



Ursa Operating Company, LLC

Rio Blanco County, Colorado

Jimmy Gulch 3K Pad

Jimmy Gulch 3K 43B-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 3K 43B-3-3-97 |
| Company: | Ursa Operating Company, LLC | TVD Reference: | Jimmy Gulch 3K 43B-3-3-97 @ 6733.5usft (Est KB) |
| Project: | Rio Blanco County, Colorado | MD Reference: | Jimmy Gulch 3K 43B-3-3-97 @ 6733.5usft (Est KB) |
| Site: | Jimmy Gulch 3K Pad | North Reference: | True |
| Well: | Jimmy Gulch 3K 43B-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 3K Pad | | | | |
| Site Position: | | Northing: | 1,187,943.19 usft | Latitude: | 39.815928222 |
| From: | Lat/Long | Easting: | 2,222,132.68 usft | Longitude: | -108.269550766 |
| Position Uncertainty: | 0.0 usft | Slot Radius: | 13-3/16 " | Grid Convergence: | -1.79 ° |

| | | | | | | |
|-----------------------------|--|------------|----------------------------|-------------------|----------------------|----------------|
| Well | Jimmy Gulch 3K 43B-3-3-97, SHL: Lat 39.815897803 Long -108.269519508 | | | | | |
| Well Position | +N/-S | -11.1 usft | Northing: | 1,187,931.85 usft | Latitude: | 39.815897803 |
| | +E/-W | 8.8 usft | Easting: | 2,222,141.11 usft | Longitude: | -108.269519508 |
| Position Uncertainty | | 0.0 usft | Wellhead Elevation: | 6,733.5 usft | Ground Level: | 6,712.5 usft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | Wellbore #1 | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2015 | 7/21/2017 | 9.85 | 65.80 | 51,649 |

| | | | | |
|--------------------------|--------------------------------|---------------------|----------------------|----------------------|
| 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 | 82.83 |

| 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 | |
| 1,828.4 | 29.00 | 82.83 | 1,793.5 | 25.6 | 203.6 | 3.50 | 3.50 | 0.00 | 82.83 | |
| 7,517.4 | 29.00 | 82.83 | 6,769.5 | 369.7 | 2,939.7 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 8,345.9 | 0.00 | 0.00 | 7,563.0 | 395.3 | 3,143.3 | 3.50 | -3.50 | 0.00 | 180.00 | JG 3K 43B-3-3-97 TG |
| 14,025.9 | 0.00 | 0.00 | 13,243.0 | 395.3 | 3,143.3 | 0.00 | 0.00 | 0.00 | 0.00 | |

| | | | |
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| Company: | Ursa Operating Company, LLC | TVD Reference: | Jimmy Gulch 3K 43B-3-3-97 @ 6733.5usft (Est KB) |
| Project: | Rio Blanco County, Colorado | MD Reference: | Jimmy Gulch 3K 43B-3-3-97 @ 6733.5usft (Est KB) |
| Site: | Jimmy Gulch 3K Pad | North Reference: | True |
| Well: | Jimmy Gulch 3K 43B-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 39.815897803, -108.269519508 | | | | | | | | | | |
| 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 | 82.83 | 1,099.9 | 0.4 | 3.0 | 3.1 | 3.50 | 3.50 | 0.00 | 0.00 |
| 1,200.0 | 7.00 | 82.83 | 1,199.5 | 1.5 | 12.1 | 12.2 | 3.50 | 3.50 | 0.00 | 0.00 |
| 1,300.0 | 10.50 | 82.83 | 1,298.3 | 3.4 | 27.2 | 27.4 | 3.50 | 3.50 | 0.00 | 0.00 |
| 1,377.3 | 13.21 | 82.83 | 1,374.0 | 5.4 | 43.0 | 43.3 | 3.50 | 3.50 | 0.00 | 0.00 |
| Green River Fm - Mahogany Bench | | | | | | | | | | |
| 1,400.0 | 14.00 | 82.83 | 1,396.0 | 6.1 | 48.2 | 48.6 | 3.50 | 3.50 | 0.00 | 0.00 |
| 1,436.1 | 15.26 | 82.83 | 1,431.0 | 7.2 | 57.3 | 57.8 | 3.50 | 3.50 | 0.00 | 0.00 |
| Dissolution Surface | | | | | | | | | | |
| 1,500.0 | 17.50 | 82.83 | 1,492.3 | 9.5 | 75.2 | 75.8 | 3.50 | 3.50 | 0.00 | 0.00 |
| 1,600.0 | 21.00 | 82.83 | 1,586.7 | 13.6 | 107.9 | 108.7 | 3.50 | 3.50 | 0.00 | 0.00 |
| 1,700.0 | 24.50 | 82.83 | 1,678.9 | 18.4 | 146.2 | 147.4 | 3.50 | 3.50 | 0.00 | 0.00 |
| 1,800.0 | 28.00 | 82.83 | 1,768.5 | 23.9 | 190.1 | 191.6 | 3.50 | 3.50 | 0.00 | 0.00 |
| 1,828.4 | 29.00 | 82.83 | 1,793.5 | 25.6 | 203.6 | 205.2 | 3.50 | 3.50 | 0.00 | 0.00 |
| Start 5689.0 hold at 1828.4 MD | | | | | | | | | | |
| 1,900.0 | 29.00 | 82.83 | 1,856.1 | 29.9 | 238.0 | 239.9 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,000.0 | 29.00 | 82.83 | 1,943.6 | 36.0 | 286.1 | 288.3 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,100.0 | 29.00 | 82.83 | 2,031.1 | 42.0 | 334.2 | 336.8 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,200.0 | 29.00 | 82.83 | 2,118.5 | 48.1 | 382.3 | 385.3 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,300.0 | 29.00 | 82.83 | 2,206.0 | 54.1 | 430.4 | 433.8 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,400.0 | 29.00 | 82.83 | 2,293.5 | 60.2 | 478.5 | 482.2 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,500.0 | 29.00 | 82.83 | 2,380.9 | 66.2 | 526.6 | 530.7 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,600.0 | 29.00 | 82.83 | 2,468.4 | 72.3 | 574.7 | 579.2 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,700.0 | 29.00 | 82.83 | 2,555.8 | 78.3 | 622.8 | 627.7 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,708.2 | 29.00 | 82.83 | 2,563.0 | 78.8 | 626.7 | 631.6 | 0.00 | 0.00 | 0.00 | 0.00 |
| Green River Fm - Garden Gulch Mbr | | | | | | | | | | |
| 2,800.0 | 29.00 | 82.83 | 2,643.3 | 84.4 | 670.9 | 676.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,900.0 | 29.00 | 82.83 | 2,730.8 | 90.4 | 718.9 | 724.6 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,964.3 | 29.00 | 82.83 | 2,787.0 | 94.3 | 749.9 | 755.8 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wasatch Fm | | | | | | | | | | |
| 3,000.0 | 29.00 | 82.83 | 2,818.2 | 96.5 | 767.0 | 773.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,100.0 | 29.00 | 82.83 | 2,905.7 | 102.5 | 815.1 | 821.6 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,200.0 | 29.00 | 82.83 | 2,993.2 | 108.6 | 863.2 | 870.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,300.0 | 29.00 | 82.83 | 3,080.6 | 114.6 | 911.3 | 918.5 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,400.0 | 29.00 | 82.83 | 3,168.1 | 120.7 | 959.4 | 967.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,500.0 | 29.00 | 82.83 | 3,255.6 | 126.7 | 1,007.5 | 1,015.5 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,600.0 | 29.00 | 82.83 | 3,343.0 | 132.8 | 1,055.6 | 1,063.9 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,700.0 | 29.00 | 82.83 | 3,430.5 | 138.8 | 1,103.7 | 1,112.4 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,800.0 | 29.00 | 82.83 | 3,518.0 | 144.9 | 1,151.8 | 1,160.9 | 0.00 | 0.00 | 0.00 | 0.00 |

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| Site: | Jimmy Gulch 3K Pad | North Reference: | True |
| Well: | Jimmy Gulch 3K 43B-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) | |
| 3,900.0 | 29.00 | 82.83 | 3,605.4 | 150.9 | 1,199.9 | 1,209.3 | 0.00 | 0.00 | 0.00 | |
| 4,000.0 | 29.00 | 82.83 | 3,692.9 | 157.0 | 1,248.0 | 1,257.8 | 0.00 | 0.00 | 0.00 | |
| 4,100.0 | 29.00 | 82.83 | 3,780.4 | 163.0 | 1,296.1 | 1,306.3 | 0.00 | 0.00 | 0.00 | |
| 4,200.0 | 29.00 | 82.83 | 3,867.8 | 169.1 | 1,344.2 | 1,354.8 | 0.00 | 0.00 | 0.00 | |
| 4,300.0 | 29.00 | 82.83 | 3,955.3 | 175.1 | 1,392.3 | 1,403.2 | 0.00 | 0.00 | 0.00 | |
| 4,351.1 | 29.00 | 82.83 | 4,000.0 | 178.2 | 1,416.8 | 1,428.0 | 0.00 | 0.00 | 0.00 | |
| Surface Casing | | | | | | | | | | |
| 4,400.0 | 29.00 | 82.83 | 4,042.8 | 181.2 | 1,440.4 | 1,451.7 | 0.00 | 0.00 | 0.00 | |
| 4,500.0 | 29.00 | 82.83 | 4,130.2 | 187.2 | 1,488.5 | 1,500.2 | 0.00 | 0.00 | 0.00 | |
| 4,600.0 | 29.00 | 82.83 | 4,217.7 | 193.3 | 1,536.6 | 1,548.7 | 0.00 | 0.00 | 0.00 | |
| 4,700.0 | 29.00 | 82.83 | 4,305.2 | 199.3 | 1,584.6 | 1,597.1 | 0.00 | 0.00 | 0.00 | |
| 4,800.0 | 29.00 | 82.83 | 4,392.6 | 205.3 | 1,632.7 | 1,645.6 | 0.00 | 0.00 | 0.00 | |
| 4,900.0 | 29.00 | 82.83 | 4,480.1 | 211.4 | 1,680.8 | 1,694.1 | 0.00 | 0.00 | 0.00 | |
| 5,000.0 | 29.00 | 82.83 | 4,567.6 | 217.4 | 1,728.9 | 1,742.6 | 0.00 | 0.00 | 0.00 | |
| 5,100.0 | 29.00 | 82.83 | 4,655.0 | 223.5 | 1,777.0 | 1,791.0 | 0.00 | 0.00 | 0.00 | |
| 5,200.0 | 29.00 | 82.83 | 4,742.5 | 229.5 | 1,825.1 | 1,839.5 | 0.00 | 0.00 | 0.00 | |
| 5,300.0 | 29.00 | 82.83 | 4,830.0 | 235.6 | 1,873.2 | 1,888.0 | 0.00 | 0.00 | 0.00 | |
| 5,400.0 | 29.00 | 82.83 | 4,917.4 | 241.6 | 1,921.3 | 1,936.4 | 0.00 | 0.00 | 0.00 | |
| 5,500.0 | 29.00 | 82.83 | 5,004.9 | 247.7 | 1,969.4 | 1,984.9 | 0.00 | 0.00 | 0.00 | |
| 5,600.0 | 29.00 | 82.83 | 5,092.4 | 253.7 | 2,017.5 | 2,033.4 | 0.00 | 0.00 | 0.00 | |
| 5,700.0 | 29.00 | 82.83 | 5,179.8 | 259.8 | 2,065.6 | 2,081.9 | 0.00 | 0.00 | 0.00 | |
| 5,755.1 | 29.00 | 82.83 | 5,228.0 | 263.1 | 2,092.1 | 2,108.6 | 0.00 | 0.00 | 0.00 | |
| Ft Union | | | | | | | | | | |
| 5,800.0 | 29.00 | 82.83 | 5,267.3 | 265.8 | 2,113.7 | 2,130.3 | 0.00 | 0.00 | 0.00 | |
| 5,900.0 | 29.00 | 82.83 | 5,354.8 | 271.9 | 2,161.8 | 2,178.8 | 0.00 | 0.00 | 0.00 | |
| 6,000.0 | 29.00 | 82.83 | 5,442.2 | 277.9 | 2,209.9 | 2,227.3 | 0.00 | 0.00 | 0.00 | |
| 6,100.0 | 29.00 | 82.83 | 5,529.7 | 284.0 | 2,258.0 | 2,275.8 | 0.00 | 0.00 | 0.00 | |
| 6,200.0 | 29.00 | 82.83 | 5,617.2 | 290.0 | 2,306.1 | 2,324.2 | 0.00 | 0.00 | 0.00 | |
| 6,300.0 | 29.00 | 82.83 | 5,704.6 | 296.1 | 2,354.2 | 2,372.7 | 0.00 | 0.00 | 0.00 | |
| 6,400.0 | 29.00 | 82.83 | 5,792.1 | 302.1 | 2,402.3 | 2,421.2 | 0.00 | 0.00 | 0.00 | |
| 6,500.0 | 29.00 | 82.83 | 5,879.6 | 308.2 | 2,450.4 | 2,469.7 | 0.00 | 0.00 | 0.00 | |
| 6,600.0 | 29.00 | 82.83 | 5,967.0 | 314.2 | 2,498.4 | 2,518.1 | 0.00 | 0.00 | 0.00 | |
| 6,700.0 | 29.00 | 82.83 | 6,054.5 | 320.3 | 2,546.5 | 2,566.6 | 0.00 | 0.00 | 0.00 | |
| 6,800.0 | 29.00 | 82.83 | 6,142.0 | 326.3 | 2,594.6 | 2,615.1 | 0.00 | 0.00 | 0.00 | |
| 6,900.0 | 29.00 | 82.83 | 6,229.4 | 332.4 | 2,642.7 | 2,663.6 | 0.00 | 0.00 | 0.00 | |
| 7,000.0 | 29.00 | 82.83 | 6,316.9 | 338.4 | 2,690.8 | 2,712.0 | 0.00 | 0.00 | 0.00 | |
| 7,100.0 | 29.00 | 82.83 | 6,404.4 | 344.5 | 2,738.9 | 2,760.5 | 0.00 | 0.00 | 0.00 | |
| 7,200.0 | 29.00 | 82.83 | 6,491.8 | 350.5 | 2,787.0 | 2,809.0 | 0.00 | 0.00 | 0.00 | |
| 7,300.0 | 29.00 | 82.83 | 6,579.3 | 356.6 | 2,835.1 | 2,857.4 | 0.00 | 0.00 | 0.00 | |
| 7,400.0 | 29.00 | 82.83 | 6,666.8 | 362.6 | 2,883.2 | 2,905.9 | 0.00 | 0.00 | 0.00 | |
| 7,500.0 | 29.00 | 82.83 | 6,754.2 | 368.7 | 2,931.3 | 2,954.4 | 0.00 | 0.00 | 0.00 | |
| 7,517.4 | 29.00 | 82.83 | 6,769.5 | 369.7 | 2,939.7 | 2,962.8 | 0.00 | 0.00 | 0.00 | |
| Start Drop -3.50 | | | | | | | | | | |
| 7,600.0 | 26.11 | 82.83 | 6,842.7 | 374.5 | 2,977.6 | 3,001.0 | 3.50 | -3.50 | 0.00 | |
| 7,700.0 | 22.61 | 82.83 | 6,933.8 | 379.6 | 3,018.5 | 3,042.3 | 3.50 | -3.50 | 0.00 | |
| 7,800.0 | 19.11 | 82.83 | 7,027.2 | 384.1 | 3,053.8 | 3,077.9 | 3.50 | -3.50 | 0.00 | |
| 7,900.0 | 15.61 | 82.83 | 7,122.6 | 387.8 | 3,083.4 | 3,107.7 | 3.50 | -3.50 | 0.00 | |
| 8,000.0 | 12.11 | 82.83 | 7,219.7 | 390.8 | 3,107.1 | 3,131.6 | 3.50 | -3.50 | 0.00 | |
| 8,100.0 | 8.61 | 82.83 | 7,318.0 | 393.0 | 3,125.0 | 3,149.6 | 3.50 | -3.50 | 0.00 | |
| 8,200.0 | 5.11 | 82.83 | 7,417.3 | 394.5 | 3,136.8 | 3,161.5 | 3.50 | -3.50 | 0.00 | |
| 8,300.0 | 1.61 | 82.83 | 7,517.1 | 395.2 | 3,142.6 | 3,167.4 | 3.50 | -3.50 | 0.00 | |

| | | | |
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| Site: | Jimmy Gulch 3K Pad | North Reference: | True |
| Well: | Jimmy Gulch 3K 43B-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) | |
| 8,339.9 | 0.21 | 82.83 | 7,557.0 | 395.3 | 3,143.3 | 3,168.0 | 3.50 | -3.50 | 0.00 | |
| Ohio Creek | | | | | | | | | | |
| 8,345.9 | 0.00 | 0.00 | 7,563.0 | 395.3 | 3,143.3 | 3,168.0 | 3.50 | -3.50 | 0.00 | |
| Start 5680.0 hold at 8345.9 MD - Back to Vertical - Top of Gas - JG 3K 43B-3-3-97 TGT | | | | | | | | | | |
| 8,400.0 | 0.00 | 0.00 | 7,617.1 | 395.3 | 3,143.3 | 3,168.0 | 0.00 | 0.00 | 0.00 | |
| 8,500.0 | 0.00 | 0.00 | 7,717.1 | 395.3 | 3,143.3 | 3,168.0 | 0.00 | 0.00 | 0.00 | |
| 8,505.9 | 0.00 | 0.00 | 7,723.0 | 395.3 | 3,143.3 | 3,168.0 | 0.00 | 0.00 | 0.00 | |
| Williams Fork | | | | | | | | | | |
| 8,600.0 | 0.00 | 0.00 | 7,817.1 | 395.3 | 3,143.3 | 3,168.0 | 0.00 | 0.00 | 0.00 | |
| 8,700.0 | 0.00 | 0.00 | 7,917.1 | 395.3 | 3,143.3 | 3,168.0 | 0.00 | 0.00 | 0.00 | |
| 8,800.0 | 0.00 | 0.00 | 8,017.1 | 395.3 | 3,143.3 | 3,168.0 | 0.00 | 0.00 | 0.00 | |
| 8,900.0 | 0.00 | 0.00 | 8,117.1 | 395.3 | 3,143.3 | 3,168.0 | 0.00 | 0.00 | 0.00 | |
| 9,000.0 | 0.00 | 0.00 | 8,217.1 | 395.3 | 3,143.3 | 3,168.0 | 0.00 | 0.00 | 0.00 | |
| 9,100.0 | 0.00 | 0.00 | 8,317.1 | 395.3 | 3,143.3 | 3,168.0 | 0.00 | 0.00 | 0.00 | |
| 9,200.0 | 0.00 | 0.00 | 8,417.1 | 395.3 | 3,143.3 | 3,168.0 | 0.00 | 0.00 | 0.00 | |
| 9,300.0 | 0.00 | 0.00 | 8,517.1 | 395.3 | 3,143.3 | 3,168.0 | 0.00 | 0.00 | 0.00 | |
| 9,400.0 | 0.00 | 0.00 | 8,617.1 | 395.3 | 3,143.3 | 3,168.0 | 0.00 | 0.00 | 0.00 | |
| 9,500.0 | 0.00 | 0.00 | 8,717.1 | 395.3 | 3,143.3 | 3,168.0 | 0.00 | 0.00 | 0.00 | |
| 9,600.0 | 0.00 | 0.00 | 8,817.1 | 395.3 | 3,143.3 | 3,168.0 | 0.00 | 0.00 | 0.00 | |
| 9,700.0 | 0.00 | 0.00 | 8,917.1 | 395.3 | 3,143.3 | 3,168.0 | 0.00 | 0.00 | 0.00 | |
| 9,800.0 | 0.00 | 0.00 | 9,017.1 | 395.3 | 3,143.3 | 3,168.0 | 0.00 | 0.00 | 0.00 | |
| 9,900.0 | 0.00 | 0.00 | 9,117.1 | 395.3 | 3,143.3 | 3,168.0 | 0.00 | 0.00 | 0.00 | |
| 10,000.0 | 0.00 | 0.00 | 9,217.1 | 395.3 | 3,143.3 | 3,168.0 | 0.00 | 0.00 | 0.00 | |
| 10,100.0 | 0.00 | 0.00 | 9,317.1 | 395.3 | 3,143.3 | 3,168.0 | 0.00 | 0.00 | 0.00 | |
| 10,200.0 | 0.00 | 0.00 | 9,417.1 | 395.3 | 3,143.3 | 3,168.0 | 0.00 | 0.00 | 0.00 | |
| 10,300.0 | 0.00 | 0.00 | 9,517.1 | 395.3 | 3,143.3 | 3,168.0 | 0.00 | 0.00 | 0.00 | |
| 10,400.0 | 0.00 | 0.00 | 9,617.1 | 395.3 | 3,143.3 | 3,168.0 | 0.00 | 0.00 | 0.00 | |
| 10,500.0 | 0.00 | 0.00 | 9,717.1 | 395.3 | 3,143.3 | 3,168.0 | 0.00 | 0.00 | 0.00 | |
| 10,600.0 | 0.00 | 0.00 | 9,817.1 | 395.3 | 3,143.3 | 3,168.0 | 0.00 | 0.00 | 0.00 | |
| 10,700.0 | 0.00 | 0.00 | 9,917.1 | 395.3 | 3,143.3 | 3,168.0 | 0.00 | 0.00 | 0.00 | |
| 10,800.0 | 0.00 | 0.00 | 10,017.1 | 395.3 | 3,143.3 | 3,168.0 | 0.00 | 0.00 | 0.00 | |
| 10,900.0 | 0.00 | 0.00 | 10,117.1 | 395.3 | 3,143.3 | 3,168.0 | 0.00 | 0.00 | 0.00 | |
| 11,000.0 | 0.00 | 0.00 | 10,217.1 | 395.3 | 3,143.3 | 3,168.0 | 0.00 | 0.00 | 0.00 | |
| 11,100.0 | 0.00 | 0.00 | 10,317.1 | 395.3 | 3,143.3 | 3,168.0 | 0.00 | 0.00 | 0.00 | |
| 11,200.0 | 0.00 | 0.00 | 10,417.1 | 395.3 | 3,143.3 | 3,168.0 | 0.00 | 0.00 | 0.00 | |
| 11,300.0 | 0.00 | 0.00 | 10,517.1 | 395.3 | 3,143.3 | 3,168.0 | 0.00 | 0.00 | 0.00 | |
| 11,400.0 | 0.00 | 0.00 | 10,617.1 | 395.3 | 3,143.3 | 3,168.0 | 0.00 | 0.00 | 0.00 | |
| 11,500.0 | 0.00 | 0.00 | 10,717.1 | 395.3 | 3,143.3 | 3,168.0 | 0.00 | 0.00 | 0.00 | |
| 11,600.0 | 0.00 | 0.00 | 10,817.1 | 395.3 | 3,143.3 | 3,168.0 | 0.00 | 0.00 | 0.00 | |
| 11,700.0 | 0.00 | 0.00 | 10,917.1 | 395.3 | 3,143.3 | 3,168.0 | 0.00 | 0.00 | 0.00 | |
| 11,800.0 | 0.00 | 0.00 | 11,017.1 | 395.3 | 3,143.3 | 3,168.0 | 0.00 | 0.00 | 0.00 | |
| 11,900.0 | 0.00 | 0.00 | 11,117.1 | 395.3 | 3,143.3 | 3,168.0 | 0.00 | 0.00 | 0.00 | |
| 11,975.9 | 0.00 | 0.00 | 11,193.0 | 395.3 | 3,143.3 | 3,168.0 | 0.00 | 0.00 | 0.00 | |
| Cameo | | | | | | | | | | |
| 12,000.0 | 0.00 | 0.00 | 11,217.1 | 395.3 | 3,143.3 | 3,168.0 | 0.00 | 0.00 | 0.00 | |
| 12,100.0 | 0.00 | 0.00 | 11,317.1 | 395.3 | 3,143.3 | 3,168.0 | 0.00 | 0.00 | 0.00 | |
| 12,200.0 | 0.00 | 0.00 | 11,417.1 | 395.3 | 3,143.3 | 3,168.0 | 0.00 | 0.00 | 0.00 | |
| 12,300.0 | 0.00 | 0.00 | 11,517.1 | 395.3 | 3,143.3 | 3,168.0 | 0.00 | 0.00 | 0.00 | |
| 12,400.0 | 0.00 | 0.00 | 11,617.1 | 395.3 | 3,143.3 | 3,168.0 | 0.00 | 0.00 | 0.00 | |
| 12,475.9 | 0.00 | 0.00 | 11,693.0 | 395.3 | 3,143.3 | 3,168.0 | 0.00 | 0.00 | 0.00 | |
| Rollins | | | | | | | | | | |

| | | | |
|------------------|-----------------------------|-------------------------------------|---|
| Database: | EDM 5000.1 Single User Db | Local Co-ordinate Reference: | Well Jimmy Gulch 3K 43B-3-3-97 |
| Company: | Ursa Operating Company, LLC | TVD Reference: | Jimmy Gulch 3K 43B-3-3-97 @ 6733.5usft (Est KB) |
| Project: | Rio Blanco County, Colorado | MD Reference: | Jimmy Gulch 3K 43B-3-3-97 @ 6733.5usft (Est KB) |
| Site: | Jimmy Gulch 3K Pad | North Reference: | True |
| Well: | Jimmy Gulch 3K 43B-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) | |
| 12,500.0 | 0.00 | 0.00 | 11,717.1 | 395.3 | 3,143.3 | 3,168.0 | 0.00 | 0.00 | 0.00 | |
| 12,600.0 | 0.00 | 0.00 | 11,817.1 | 395.3 | 3,143.3 | 3,168.0 | 0.00 | 0.00 | 0.00 | |
| 12,642.9 | 0.00 | 0.00 | 11,860.0 | 395.3 | 3,143.3 | 3,168.0 | 0.00 | 0.00 | 0.00 | |
| Cozzette Fm | | | | | | | | | | |
| 12,700.0 | 0.00 | 0.00 | 11,917.1 | 395.3 | 3,143.3 | 3,168.0 | 0.00 | 0.00 | 0.00 | |
| 12,800.0 | 0.00 | 0.00 | 12,017.1 | 395.3 | 3,143.3 | 3,168.0 | 0.00 | 0.00 | 0.00 | |
| 12,900.0 | 0.00 | 0.00 | 12,117.1 | 395.3 | 3,143.3 | 3,168.0 | 0.00 | 0.00 | 0.00 | |
| 12,999.9 | 0.00 | 0.00 | 12,217.0 | 395.3 | 3,143.3 | 3,168.0 | 0.00 | 0.00 | 0.00 | |
| Corcoran | | | | | | | | | | |
| 13,000.0 | 0.00 | 0.00 | 12,217.1 | 395.3 | 3,143.3 | 3,168.0 | 0.00 | 0.00 | 0.00 | |
| 13,100.0 | 0.00 | 0.00 | 12,317.1 | 395.3 | 3,143.3 | 3,168.0 | 0.00 | 0.00 | 0.00 | |
| 13,200.0 | 0.00 | 0.00 | 12,417.1 | 395.3 | 3,143.3 | 3,168.0 | 0.00 | 0.00 | 0.00 | |
| 13,300.0 | 0.00 | 0.00 | 12,517.1 | 395.3 | 3,143.3 | 3,168.0 | 0.00 | 0.00 | 0.00 | |
| 13,400.0 | 0.00 | 0.00 | 12,617.1 | 395.3 | 3,143.3 | 3,168.0 | 0.00 | 0.00 | 0.00 | |
| 13,500.0 | 0.00 | 0.00 | 12,717.1 | 395.3 | 3,143.3 | 3,168.0 | 0.00 | 0.00 | 0.00 | |
| 13,600.0 | 0.00 | 0.00 | 12,817.1 | 395.3 | 3,143.3 | 3,168.0 | 0.00 | 0.00 | 0.00 | |
| 13,700.0 | 0.00 | 0.00 | 12,917.1 | 395.3 | 3,143.3 | 3,168.0 | 0.00 | 0.00 | 0.00 | |
| 13,800.0 | 0.00 | 0.00 | 13,017.1 | 395.3 | 3,143.3 | 3,168.0 | 0.00 | 0.00 | 0.00 | |
| 13,900.0 | 0.00 | 0.00 | 13,117.1 | 395.3 | 3,143.3 | 3,168.0 | 0.00 | 0.00 | 0.00 | |
| 14,000.0 | 0.00 | 0.00 | 13,217.1 | 395.3 | 3,143.3 | 3,168.0 | 0.00 | 0.00 | 0.00 | |
| 14,025.9 | 0.00 | 0.00 | 13,243.0 | 395.3 | 3,143.3 | 3,168.0 | 0.00 | 0.00 | 0.00 | |
| TD at 14025.9 - BHL 39.8169825, -108.2583299 | | | | | | | | | | |

| Design Targets | | | | | | | | | | |
|---|---------------|--------------|------------|--------------|--------------|-----------------|----------------|--------------|----------------|--|
| Target Name | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude | Longitude | |
| JG 3K 43B-3-3-97 TGT | 0.00 | 0.00 | 7,563.0 | 395.3 | 3,143.3 | 1,188,228.82 | 2,225,295.14 | 39.816982500 | -108.258329900 | |
| - hit/miss target | | | | | | | | | | |
| - Shape | | | | | | | | | | |
| - plan hits target center | | | | | | | | | | |
| - Rectangle (sides W100.0 H40.0 D5,680.0) | | | | | | | | | | |

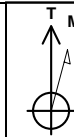
| | | | |
|------------------|-----------------------------|-------------------------------------|---|
| Database: | EDM 5000.1 Single User Db | Local Co-ordinate Reference: | Well Jimmy Gulch 3K 43B-3-3-97 |
| Company: | Ursa Operating Company, LLC | TVD Reference: | Jimmy Gulch 3K 43B-3-3-97 @ 6733.5usft (Est KB) |
| Project: | Rio Blanco County, Colorado | MD Reference: | Jimmy Gulch 3K 43B-3-3-97 @ 6733.5usft (Est KB) |
| Site: | Jimmy Gulch 3K Pad | North Reference: | True |
| Well: | Jimmy Gulch 3K 43B-3-3-97 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Design #1 | | |

| Formations | | | | | |
|-----------------------|-----------------------|-----------------------------------|-----------|---------|-------------------|
| Measured Depth (usft) | Vertical Depth (usft) | Name | Lithology | Dip (°) | Dip Direction (°) |
| 1,377.3 | 1,374.0 | Green River Fm - Mahogany Bench | | 0.00 | |
| 1,436.1 | 1,431.0 | Dissolution Surface | | 0.00 | |
| 2,708.2 | 2,563.0 | Green River Fm - Garden Gulch Mbr | | 0.00 | |
| 2,964.3 | 2,787.0 | Wasatch Fm | | 0.00 | |
| 5,755.1 | 5,228.0 | Ft Union | | 0.00 | |
| 8,339.9 | 7,557.0 | Ohio Creek | | 0.00 | |
| 8,345.9 | 7,563.0 | Top of Gas | | 0.00 | |
| 8,505.9 | 7,723.0 | Williams Fork | | 0.00 | |
| 11,975.9 | 11,193.0 | Cameo | | 0.00 | |
| 12,475.9 | 11,693.0 | Rollins | | 0.00 | |
| 12,642.9 | 11,860.0 | Cozzette Fm | | 0.00 | |
| 12,999.9 | 12,217.0 | Corcoran | | 0.00 | |

| 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 39.815897803, -108.269519508 | |
| 1,000.0 | 1,000.0 | 0.0 | 0.0 | Start Build 3.50 | |
| 1,828.4 | 1,793.5 | 25.6 | 203.6 | Start 5689.0 hold at 1828.4 MD | |
| 4,351.1 | 4,000.0 | 178.2 | 1,416.8 | Surface Casing | |
| 7,517.4 | 6,769.5 | 369.7 | 2,939.7 | Start Drop -3.50 | |
| 8,345.9 | 7,563.0 | 395.3 | 3,143.3 | Start 5680.0 hold at 8345.9 MD | |
| 8,345.9 | 7,563.0 | 395.3 | 3,143.3 | Back to Vertical | |
| 14,025.9 | 13,243.0 | 395.3 | 3,143.3 | TD at 14025.9 | |
| 14,025.9 | 13,243.0 | 395.3 | 3,143.3 | BHL 39.8169825, -108.2583299 | |



Well Name: Jimmy Gulch 3K 43B-3-97
 Surface Location: Jimmy Gulch 3K Pad
 North American Datum 1983 US State Plane 1983 Colorado Northern Zone
 Ground Elevation: 6712.5
 +N-/S 0.0 +E-/W 0.0 Northing 1187931.85 Easting 2222141.11 Latitude 39.815897803 Longitude -108.269519508
 Est KB Jimmy Gulch 3K 43B-3-97 @ 6733.5usft (Est KB)



Azimuths to True North
 Magnetic North: 9.85°
 Magnetic Field
 Strength: 51649.4snT
 Dip Angle: 65.80°
 Date: 7/21/2017
 Model: IGRF2015

Jimmy Gulch 3K Pad
 Jimmy Gulch 3K 43B-3-97
 Design #1
 20:27, July 25 2017

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

| Name | TVD | +N-/S | +E-/W | Northing | Easting | Latitude | Longitude | Shape |
|--------------------|--------|-------|--------|------------|------------|--------------|----------------|---------------------------------|
| JG 3K 43B-3-97 TGT | 7563.0 | 395.3 | 3143.3 | 1188228.82 | 2225295.14 | 39.816982500 | -108.258329900 | 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 | 1828.4 | 29.00 | 82.83 | 1793.5 | 25.6 | 203.6 | 3.50 | 82.83 | 205.2 | |
| 4 | 7517.4 | 29.00 | 82.83 | 6769.5 | 369.7 | 2939.7 | 0.00 | 0.00 | 2962.8 | |
| 5 | 8345.9 | 0.00 | 0.00 | 7563.0 | 395.3 | 3143.3 | 3.50 | 180.00 | 3168.0 | JG 3K 43B-3-97 TGT |
| 6 | 14025.9 | 0.00 | 0.00 | 13243.0 | 395.3 | 3143.3 | 0.00 | 0.00 | 3168.0 | |

ANNOTATIONS

| TVD | MD | Annotation |
|---------|---------|----------------------------------|
| 0.1 | 0.1 | SHL 39.815897803, -108.269519508 |
| 1000.0 | 1000.0 | Start Build 3.50 |
| 1793.5 | 1828.4 | Start 5689.0 hold at 1828.4 MD |
| 4000.0 | 4351.1 | Surface Casing |
| 6769.5 | 7517.4 | Start Drop -3.50 |
| 7563.0 | 8345.9 | Start 5680.0 hold at 8345.9 MD |
| 7563.0 | 8345.9 | Back to Vertical |
| 13243.0 | 14025.9 | TD at 14025.9 |
| 13243.0 | 14025.9 | BHL 39.8169825, -108.2583299 |

FORMATION TOP DETAILS

| TVDPath | MDPath | Formation | DipAngle | DipDir |
|---------|---------|---------------------|----------|--------|
| 1374.0 | 1377.3 | Mahogany Bench | 0.00 | |
| 1431.0 | 1436.1 | Dissolution Surface | 0.00 | |
| 2563.0 | 2708.2 | Garden Gulch Mbr | 0.00 | |
| 2787.0 | 2964.3 | Wasatch Fm | 0.00 | |
| 5228.0 | 5755.1 | Ft Union | 0.00 | |
| 7557.0 | 8339.9 | Ohio Creek | 0.00 | |
| 7563.0 | 8345.9 | Top of Gas | 0.00 | |
| 7723.0 | 8505.9 | Williams Fork | 0.00 | |
| 11193.0 | 11975.9 | Cameo | 0.00 | |
| 11693.0 | 12475.9 | Rollins | 0.00 | |
| 11860.0 | 12642.9 | Cozzette Fm | 0.00 | |
| 12217.0 | 12999.9 | Corcoran | 0.00 | |

