



Laramie Energy, LLC

Garfield County, CO

CC 0604-15-08 Pad

CC 0697-15-01E - Slot B-4

B-4

Plan: Design #2

KLX Well Planning Report

02 June, 2021





Well Planning Report



| | | | |
|------------------|---------------------------|-------------------------------------|--------------------------------|
| Database: | EDM 5000.1 Single User Db | Local Co-ordinate Reference: | Well CC 0697-15-01E - Slot B-4 |
| Company: | Laramie Energy, LLC | TVD Reference: | RKB @ 8533.0usft (H&P #522) |
| Project: | Garfield County, CO | MD Reference: | RKB @ 8533.0usft (H&P #522) |
| Site: | CC 0604-15-08 Pad | North Reference: | True |
| Well: | CC 0697-15-01E | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | B-4 | | |
| Design: | Design #2 | | |

| | | | |
|--------------------|---------------------------|----------------------|----------------|
| Project | Garfield County, CO | | |
| Map System: | US State Plane 1983 | System Datum: | Mean Sea Level |
| Geo Datum: | North American Datum 1983 | | |
| Map Zone: | Colorado Central Zone | | |

| | | | | | |
|-----------------------|----------|-------------------|-------------------|-------------------|-------------|
| Site | | CC 0604-15-08 Pad | | | |
| Site Position: | | Northing: | 1,627,831.19 usft | Latitude: | 39.526131 |
| From: | Lat/Long | Easting: | 2,238,751.92 usft | Longitude: | -108.199096 |
| Position Uncertainty: | 0.0 usft | Slot Radius: | 13-3/16 " | Grid Convergence: | -1.70 ° |

| | | | | | | |
|----------------------|---------------------------|-----------|---------------------|-------------------|---------------|--------------|
| Well | CC 0697-15-01E - Slot B-4 | | | | | |
| Well Position | +N/-S | 49.4 usft | Northing: | 1,627,879.58 usft | Latitude: | 39.526267 |
| | +E/-W | 34.0 usft | Easting: | 2,238,787.40 usft | Longitude: | -108.198976 |
| Position Uncertainty | | 0.0 usft | Wellhead Elevation: | | Ground Level: | 8,503.0 usft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | B-4 | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | HDGM2020 | 12/3/2020 | 9.40 | 65.72 | 51,318.50000000 |

| | | | | |
|--------------------------|--------------------------------|---------------------|----------------------|----------------------|
| Design | Design #2 | | | |
| Audit Notes: | | | | |
| Version: | Phase: | PLAN | Tie On Depth: | 0.0 |
| Vertical Section: | Depth From (TVD) (usft) | +N/-S (usft) | +E/-W (usft) | Direction (°) |
| | 0.0 | 0.0 | 0.0 | 356.85 |

| 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 | |
| 500.0 | 0.00 | 0.00 | 500.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 979.7 | 11.99 | 356.85 | 976.2 | 49.9 | -2.7 | 2.50 | 2.50 | 0.00 | 356.85 | |
| 6,744.1 | 11.99 | 356.85 | 6,614.8 | 1,245.8 | -68.5 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 7,223.8 | 0.00 | 0.00 | 7,091.0 | 1,295.7 | -71.3 | 2.50 | -2.50 | 0.00 | 180.00 | |
| 9,360.8 | 0.00 | 0.00 | 9,228.0 | 1,295.7 | -71.3 | 0.00 | 0.00 | 0.00 | 0.00 | 15-01E - PBHL |



Well Planning Report



| | | | |
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| Company: | Laramie Energy, LLC | TVD Reference: | RKB @ 8533.0usft (H&P #522) |
| Project: | Garfield County, CO | MD Reference: | RKB @ 8533.0usft (H&P #522) |
| Site: | CC 0604-15-08 Pad | North Reference: | True |
| Well: | CC 0697-15-01E | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | B-4 | | |
| Design: | Design #2 | | |

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 |
| 100.0 | 0.00 | 0.00 | 100.0 | 0.0 | 0.0 | 0.0 | 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 |
| 300.0 | 0.00 | 0.00 | 300.0 | 0.0 | 0.0 | 0.0 | 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 |
| Build 2.5° / 100' | | | | | | | | | |
| 500.0 | 0.00 | 0.00 | 500.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 600.0 | 2.50 | 356.85 | 600.0 | 2.2 | -0.1 | 2.2 | 2.50 | 2.50 | 0.00 |
| Mahogany | | | | | | | | | |
| 675.2 | 4.38 | 356.85 | 675.0 | 6.7 | -0.4 | 6.7 | 2.50 | 2.50 | 0.00 |
| 700.0 | 5.00 | 356.85 | 699.7 | 8.7 | -0.5 | 8.7 | 2.50 | 2.50 | 0.00 |
| 800.0 | 7.50 | 356.85 | 799.1 | 19.6 | -1.1 | 19.6 | 2.50 | 2.50 | 0.00 |
| 900.0 | 10.00 | 356.85 | 898.0 | 34.8 | -1.9 | 34.8 | 2.50 | 2.50 | 0.00 |
| EOB @ 11.99° Inc. / 356.85° Azm | | | | | | | | | |
| 979.7 | 11.99 | 356.85 | 976.2 | 49.9 | -2.7 | 50.0 | 2.50 | 2.50 | 0.00 |
| 1,000.0 | 11.99 | 356.85 | 996.1 | 54.2 | -3.0 | 54.2 | 0.00 | 0.00 | 0.00 |
| 1,100.0 | 11.99 | 356.85 | 1,093.9 | 74.9 | -4.1 | 75.0 | 0.00 | 0.00 | 0.00 |
| 1,200.0 | 11.99 | 356.85 | 1,191.7 | 95.6 | -5.3 | 95.8 | 0.00 | 0.00 | 0.00 |
| 1,300.0 | 11.99 | 356.85 | 1,289.5 | 116.4 | -6.4 | 116.6 | 0.00 | 0.00 | 0.00 |
| 1,400.0 | 11.99 | 356.85 | 1,387.3 | 137.1 | -7.5 | 137.3 | 0.00 | 0.00 | 0.00 |
| 1,500.0 | 11.99 | 356.85 | 1,485.2 | 157.9 | -8.7 | 158.1 | 0.00 | 0.00 | 0.00 |
| 1,600.0 | 11.99 | 356.85 | 1,583.0 | 178.6 | -9.8 | 178.9 | 0.00 | 0.00 | 0.00 |
| 1,700.0 | 11.99 | 356.85 | 1,680.8 | 199.4 | -11.0 | 199.7 | 0.00 | 0.00 | 0.00 |
| 1,800.0 | 11.99 | 356.85 | 1,778.6 | 220.1 | -12.1 | 220.5 | 0.00 | 0.00 | 0.00 |
| 1,900.0 | 11.99 | 356.85 | 1,876.4 | 240.9 | -13.2 | 241.2 | 0.00 | 0.00 | 0.00 |
| 2,000.0 | 11.99 | 356.85 | 1,974.2 | 261.6 | -14.4 | 262.0 | 0.00 | 0.00 | 0.00 |
| 2,100.0 | 11.99 | 356.85 | 2,072.1 | 282.4 | -15.5 | 282.8 | 0.00 | 0.00 | 0.00 |
| 2,200.0 | 11.99 | 356.85 | 2,169.9 | 303.1 | -16.7 | 303.6 | 0.00 | 0.00 | 0.00 |
| 2,300.0 | 11.99 | 356.85 | 2,267.7 | 323.8 | -17.8 | 324.3 | 0.00 | 0.00 | 0.00 |
| 2,400.0 | 11.99 | 356.85 | 2,365.5 | 344.6 | -19.0 | 345.1 | 0.00 | 0.00 | 0.00 |
| 2,500.0 | 11.99 | 356.85 | 2,463.3 | 365.3 | -20.1 | 365.9 | 0.00 | 0.00 | 0.00 |
| 9 5/8" | | | | | | | | | |
| 2,530.0 | 11.99 | 356.85 | 2,492.7 | 371.6 | -20.4 | 372.1 | 0.00 | 0.00 | 0.00 |
| 2,600.0 | 11.99 | 356.85 | 2,561.1 | 386.1 | -21.2 | 386.7 | 0.00 | 0.00 | 0.00 |
| Wasatch | | | | | | | | | |
| 2,683.7 | 11.99 | 356.85 | 2,643.0 | 403.4 | -22.2 | 404.0 | 0.00 | 0.00 | 0.00 |
| 2,700.0 | 11.99 | 356.85 | 2,659.0 | 406.8 | -22.4 | 407.4 | 0.00 | 0.00 | 0.00 |
| 2,800.0 | 11.99 | 356.85 | 2,756.8 | 427.6 | -23.5 | 428.2 | 0.00 | 0.00 | 0.00 |
| 2,900.0 | 11.99 | 356.85 | 2,854.6 | 448.3 | -24.7 | 449.0 | 0.00 | 0.00 | 0.00 |
| 3,000.0 | 11.99 | 356.85 | 2,952.4 | 469.1 | -25.8 | 469.8 | 0.00 | 0.00 | 0.00 |
| 3,100.0 | 11.99 | 356.85 | 3,050.2 | 489.8 | -26.9 | 490.5 | 0.00 | 0.00 | 0.00 |
| 3,200.0 | 11.99 | 356.85 | 3,148.1 | 510.6 | -28.1 | 511.3 | 0.00 | 0.00 | 0.00 |
| 3,300.0 | 11.99 | 356.85 | 3,245.9 | 531.3 | -29.2 | 532.1 | 0.00 | 0.00 | 0.00 |
| 3,400.0 | 11.99 | 356.85 | 3,343.7 | 552.0 | -30.4 | 552.9 | 0.00 | 0.00 | 0.00 |
| 3,500.0 | 11.99 | 356.85 | 3,441.5 | 572.8 | -31.5 | 573.7 | 0.00 | 0.00 | 0.00 |
| 3,600.0 | 11.99 | 356.85 | 3,539.3 | 593.5 | -32.6 | 594.4 | 0.00 | 0.00 | 0.00 |
| 3,700.0 | 11.99 | 356.85 | 3,637.1 | 614.3 | -33.8 | 615.2 | 0.00 | 0.00 | 0.00 |
| 3,800.0 | 11.99 | 356.85 | 3,735.0 | 635.0 | -34.9 | 636.0 | 0.00 | 0.00 | 0.00 |
| 3,900.0 | 11.99 | 356.85 | 3,832.8 | 655.8 | -36.1 | 656.8 | 0.00 | 0.00 | 0.00 |
| 4,000.0 | 11.99 | 356.85 | 3,930.6 | 676.5 | -37.2 | 677.5 | 0.00 | 0.00 | 0.00 |
| 4,100.0 | 11.99 | 356.85 | 4,028.4 | 697.3 | -38.3 | 698.3 | 0.00 | 0.00 | 0.00 |
| 4,200.0 | 11.99 | 356.85 | 4,126.2 | 718.0 | -39.5 | 719.1 | 0.00 | 0.00 | 0.00 |
| 4,300.0 | 11.99 | 356.85 | 4,224.1 | 738.8 | -40.6 | 739.9 | 0.00 | 0.00 | 0.00 |
| 4,400.0 | 11.99 | 356.85 | 4,321.9 | 759.5 | -41.8 | 760.6 | 0.00 | 0.00 | 0.00 |



Well Planning Report



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| Site: | CC 0604-15-08 Pad | North Reference: | True |
| Well: | CC 0697-15-01E | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | B-4 | | |
| Design: | Design #2 | | |

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) |
|-----------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 4,500.0 | 11.99 | 356.85 | 4,419.7 | 780.2 | -42.9 | 781.4 | 0.00 | 0.00 | 0.00 |
| 4,600.0 | 11.99 | 356.85 | 4,517.5 | 801.0 | -44.1 | 802.2 | 0.00 | 0.00 | 0.00 |
| 4,700.0 | 11.99 | 356.85 | 4,615.3 | 821.7 | -45.2 | 823.0 | 0.00 | 0.00 | 0.00 |
| Wasatch 'G' Sand | | | | | | | | | |
| 4,728.3 | 11.99 | 356.85 | 4,643.0 | 827.6 | -45.5 | 828.9 | 0.00 | 0.00 | 0.00 |
| 4,800.0 | 11.99 | 356.85 | 4,713.1 | 842.5 | -46.3 | 843.8 | 0.00 | 0.00 | 0.00 |
| 4,900.0 | 11.99 | 356.85 | 4,811.0 | 863.2 | -47.5 | 864.5 | 0.00 | 0.00 | 0.00 |
| Fort Union | | | | | | | | | |
| 4,943.0 | 11.99 | 356.85 | 4,853.0 | 872.1 | -48.0 | 873.5 | 0.00 | 0.00 | 0.00 |
| 5,000.0 | 11.99 | 356.85 | 4,908.8 | 884.0 | -48.6 | 885.3 | 0.00 | 0.00 | 0.00 |
| 5,100.0 | 11.99 | 356.85 | 5,006.6 | 904.7 | -49.8 | 906.1 | 0.00 | 0.00 | 0.00 |
| 5,200.0 | 11.99 | 356.85 | 5,104.4 | 925.5 | -50.9 | 926.9 | 0.00 | 0.00 | 0.00 |
| 5,300.0 | 11.99 | 356.85 | 5,202.2 | 946.2 | -52.0 | 947.6 | 0.00 | 0.00 | 0.00 |
| 5,400.0 | 11.99 | 356.85 | 5,300.0 | 967.0 | -53.2 | 968.4 | 0.00 | 0.00 | 0.00 |
| 5,500.0 | 11.99 | 356.85 | 5,397.9 | 987.7 | -54.3 | 989.2 | 0.00 | 0.00 | 0.00 |
| 5,600.0 | 11.99 | 356.85 | 5,495.7 | 1,008.4 | -55.5 | 1,010.0 | 0.00 | 0.00 | 0.00 |
| 5,700.0 | 11.99 | 356.85 | 5,593.5 | 1,029.2 | -56.6 | 1,030.7 | 0.00 | 0.00 | 0.00 |
| 5,800.0 | 11.99 | 356.85 | 5,691.3 | 1,049.9 | -57.7 | 1,051.5 | 0.00 | 0.00 | 0.00 |
| 5,900.0 | 11.99 | 356.85 | 5,789.1 | 1,070.7 | -58.9 | 1,072.3 | 0.00 | 0.00 | 0.00 |
| 6,000.0 | 11.99 | 356.85 | 5,887.0 | 1,091.4 | -60.0 | 1,093.1 | 0.00 | 0.00 | 0.00 |
| 6,100.0 | 11.99 | 356.85 | 5,984.8 | 1,112.2 | -61.2 | 1,113.8 | 0.00 | 0.00 | 0.00 |
| 6,200.0 | 11.99 | 356.85 | 6,082.6 | 1,132.9 | -62.3 | 1,134.6 | 0.00 | 0.00 | 0.00 |
| Ohio Creek | | | | | | | | | |
| 6,296.5 | 11.99 | 356.85 | 6,177.0 | 1,152.9 | -63.4 | 1,154.7 | 0.00 | 0.00 | 0.00 |
| 6,300.0 | 11.99 | 356.85 | 6,180.4 | 1,153.7 | -63.4 | 1,155.4 | 0.00 | 0.00 | 0.00 |
| 6,400.0 | 11.99 | 356.85 | 6,278.2 | 1,174.4 | -64.6 | 1,176.2 | 0.00 | 0.00 | 0.00 |
| Williams Fork | | | | | | | | | |
| 6,488.7 | 11.99 | 356.85 | 6,365.0 | 1,192.8 | -65.6 | 1,194.6 | 0.00 | 0.00 | 0.00 |
| 6,500.0 | 11.99 | 356.85 | 6,376.0 | 1,195.1 | -65.7 | 1,197.0 | 0.00 | 0.00 | 0.00 |
| 6,600.0 | 11.99 | 356.85 | 6,473.9 | 1,215.9 | -66.9 | 1,217.7 | 0.00 | 0.00 | 0.00 |
| 6,700.0 | 11.99 | 356.85 | 6,571.7 | 1,236.6 | -68.0 | 1,238.5 | 0.00 | 0.00 | 0.00 |
| Drop 2.5° /100' | | | | | | | | | |
| 6,744.1 | 11.99 | 356.85 | 6,614.8 | 1,245.8 | -68.5 | 1,247.7 | 0.00 | 0.00 | 0.00 |
| 6,800.0 | 10.59 | 356.85 | 6,669.6 | 1,256.7 | -69.1 | 1,258.6 | 2.50 | -2.50 | 0.00 |
| 6,900.0 | 8.09 | 356.85 | 6,768.3 | 1,272.9 | -70.0 | 1,274.9 | 2.50 | -2.50 | 0.00 |
| 7,000.0 | 5.59 | 356.85 | 6,867.6 | 1,284.8 | -70.7 | 1,286.8 | 2.50 | -2.50 | 0.00 |
| 7,100.0 | 3.09 | 356.85 | 6,967.3 | 1,292.4 | -71.1 | 1,294.3 | 2.50 | -2.50 | 0.00 |
| 7,200.0 | 0.59 | 356.85 | 7,067.2 | 1,295.6 | -71.3 | 1,297.6 | 2.50 | -2.50 | 0.00 |
| EOD @ Vertical - TOG | | | | | | | | | |
| 7,223.8 | 0.00 | 0.00 | 7,091.0 | 1,295.7 | -71.3 | 1,297.7 | 2.50 | -2.50 | 0.00 |
| 7,300.0 | 0.00 | 0.00 | 7,167.2 | 1,295.7 | -71.3 | 1,297.7 | 0.00 | 0.00 | 0.00 |
| 7,400.0 | 0.00 | 0.00 | 7,267.2 | 1,295.7 | -71.3 | 1,297.7 | 0.00 | 0.00 | 0.00 |
| 7,500.0 | 0.00 | 0.00 | 7,367.2 | 1,295.7 | -71.3 | 1,297.7 | 0.00 | 0.00 | 0.00 |
| 7,600.0 | 0.00 | 0.00 | 7,467.2 | 1,295.7 | -71.3 | 1,297.7 | 0.00 | 0.00 | 0.00 |
| 7,700.0 | 0.00 | 0.00 | 7,567.2 | 1,295.7 | -71.3 | 1,297.7 | 0.00 | 0.00 | 0.00 |
| 7,800.0 | 0.00 | 0.00 | 7,667.2 | 1,295.7 | -71.3 | 1,297.7 | 0.00 | 0.00 | 0.00 |
| 7,900.0 | 0.00 | 0.00 | 7,767.2 | 1,295.7 | -71.3 | 1,297.7 | 0.00 | 0.00 | 0.00 |
| 8,000.0 | 0.00 | 0.00 | 7,867.2 | 1,295.7 | -71.3 | 1,297.7 | 0.00 | 0.00 | 0.00 |
| 8,100.0 | 0.00 | 0.00 | 7,967.2 | 1,295.7 | -71.3 | 1,297.7 | 0.00 | 0.00 | 0.00 |
| 8,200.0 | 0.00 | 0.00 | 8,067.2 | 1,295.7 | -71.3 | 1,297.7 | 0.00 | 0.00 | 0.00 |
| 8,300.0 | 0.00 | 0.00 | 8,167.2 | 1,295.7 | -71.3 | 1,297.7 | 0.00 | 0.00 | 0.00 |
| 8,400.0 | 0.00 | 0.00 | 8,267.2 | 1,295.7 | -71.3 | 1,297.7 | 0.00 | 0.00 | 0.00 |
| 8,500.0 | 0.00 | 0.00 | 8,367.2 | 1,295.7 | -71.3 | 1,297.7 | 0.00 | 0.00 | 0.00 |



Well Planning Report



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|------------------|---------------------------|-------------------------------------|--------------------------------|
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| Company: | Laramie Energy, LLC | TVD Reference: | RKB @ 8533.0usft (H&P #522) |
| Project: | Garfield County, CO | MD Reference: | RKB @ 8533.0usft (H&P #522) |
| Site: | CC 0604-15-08 Pad | North Reference: | True |
| Well: | CC 0697-15-01E | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | B-4 | | |
| Design: | Design #2 | | |

| 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) | |
| 8,600.0 | 0.00 | 0.00 | 8,467.2 | 1,295.7 | -71.3 | 1,297.7 | 0.00 | 0.00 | 0.00 | |
| 8,700.0 | 0.00 | 0.00 | 8,567.2 | 1,295.7 | -71.3 | 1,297.7 | 0.00 | 0.00 | 0.00 | |
| Cameo | | | | | | | | | | |
| 8,747.8 | 0.00 | 0.00 | 8,615.0 | 1,295.7 | -71.3 | 1,297.7 | 0.00 | 0.00 | 0.00 | |
| 8,800.0 | 0.00 | 0.00 | 8,667.2 | 1,295.7 | -71.3 | 1,297.7 | 0.00 | 0.00 | 0.00 | |
| 8,900.0 | 0.00 | 0.00 | 8,767.2 | 1,295.7 | -71.3 | 1,297.7 | 0.00 | 0.00 | 0.00 | |
| 9,000.0 | 0.00 | 0.00 | 8,867.2 | 1,295.7 | -71.3 | 1,297.7 | 0.00 | 0.00 | 0.00 | |
| 9,100.0 | 0.00 | 0.00 | 8,967.2 | 1,295.7 | -71.3 | 1,297.7 | 0.00 | 0.00 | 0.00 | |
| Base Cameo Coal | | | | | | | | | | |
| 9,145.8 | 0.00 | 0.00 | 9,013.0 | 1,295.7 | -71.3 | 1,297.7 | 0.00 | 0.00 | 0.00 | |
| Rollins | | | | | | | | | | |
| 9,160.8 | 0.00 | 0.00 | 9,028.0 | 1,295.7 | -71.3 | 1,297.7 | 0.00 | 0.00 | 0.00 | |
| 9,200.0 | 0.00 | 0.00 | 9,067.2 | 1,295.7 | -71.3 | 1,297.7 | 0.00 | 0.00 | 0.00 | |
| 9,300.0 | 0.00 | 0.00 | 9,167.2 | 1,295.7 | -71.3 | 1,297.7 | 0.00 | 0.00 | 0.00 | |
| TD @ 9360.8' MD / 9228.0' TVD | | | | | | | | | | |
| 9,360.8 | 0.00 | 0.00 | 9,228.0 | 1,295.7 | -71.3 | 1,297.7 | 0.00 | 0.00 | 0.00 | |

| Design Targets | | | | | | | | | | |
|----------------|---|---------------|--------------|------------|--------------|--------------|-----------------|----------------|-----------|-------------|
| Target Name | - hit/miss target | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude | Longitude |
| 15-01E - PBHL | - plan hits target center | 0.00 | 0.00 | 9,228.0 | 1,295.7 | -71.3 | 1,629,176.85 | 2,238,754.66 | 39.529824 | -108.199228 |
| | - Ellipse (radii L50.0 W75.0 on 150.00 azi) | | | | | | | | | |

| Casing Points | | | | | | |
|-----------------------|-----------------------|--------|---------------------|-------------------|--|--|
| Measured Depth (usft) | Vertical Depth (usft) | Name | Casing Diameter (") | Hole Diameter (") | | |
| 2,530.0 | 2,492.7 | 9 5/8" | 9-5/8 | 14-1/2 | | |

| Formations | | | | | | |
|-----------------------|-----------------------|------------------|-----------|---------|-------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Name | Lithology | Dip (°) | Dip Direction (°) | |
| 675.2 | 675.0 | Mahogany | | | | |
| 2,683.7 | 2,643.0 | Wasatch | | | | |
| 4,728.3 | 4,643.0 | Wasatch 'G' Sand | | | | |
| 4,943.0 | 4,853.0 | Fort Union | | | | |
| 6,296.5 | 6,177.0 | Ohio Creek | | | | |
| 6,488.7 | 6,365.0 | Williams Fork | | | | |
| 7,223.8 | 7,091.0 | TOG | | | | |
| 8,747.8 | 8,615.0 | Cameo | | | | |
| 9,145.8 | 9,013.0 | Base Cameo Coal | | | | |
| 9,160.8 | 9,028.0 | Rollins | | | | |



Well Planning Report



| | | | |
|------------------|---------------------------|-------------------------------------|--------------------------------|
| Database: | EDM 5000.1 Single User Db | Local Co-ordinate Reference: | Well CC 0697-15-01E - Slot B-4 |
| Company: | Laramie Energy, LLC | TVD Reference: | RKB @ 8533.0usft (H&P #522) |
| Project: | Garfield County, CO | MD Reference: | RKB @ 8533.0usft (H&P #522) |
| Site: | CC 0604-15-08 Pad | North Reference: | True |
| Well: | CC 0697-15-01E | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | B-4 | | |
| Design: | Design #2 | | |

Plan Annotations

| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates | | Comment |
|-----------------------------|-----------------------------|-------------------|-----------------|---------------------------------|
| | | +N/-S (usft) | +E/-W (usft) | |
| 500.0 | 500.0 | 0.0 | 0.0 | Build 2.5° / 100' |
| 979.7 | 976.2 | 49.9 | -2.7 | EOB @ 11.99° Inc. / 356.85° Azm |
| 6,744.1 | 6,614.8 | 1,245.8 | -68.5 | Drop 2.5° /100' |
| 7,223.8 | 7,091.0 | 1,295.7 | -71.3 | EOD @ Vertical |
| 9,360.8 | 9,228.0 | 1,295.7 | -71.3 | TD @ 9360.8' MD / 9228.0' TVD |