



Crestone Peak Resources

DJ BASIN

Herbers 20H-B167 Pad Sec.20-T1N-R67W

Herbers 1A-20H-B167

Herbers 1A-20H-B167 Wellbore #1

Survey: Survey #1

Standard Survey Report

03 March, 2020



CRESTONE PEAK
RESOURCES

| | | | |
|------------------|--------------------------------------|-------------------------------------|--------------------------------------|
| Company: | Crestone Peak Resources | Local Co-ordinate Reference: | Well Herbers 1A-20H-B167 |
| Project: | DJ BASIN | TVD Reference: | WELL @ 5130.0ft (Original Well Elev) |
| Site: | Herbers 20H-B167 Pad Sec.20-T1N-R67W | MD Reference: | WELL @ 5130.0ft (Original Well Elev) |
| Well: | Herbers 1A-20H-B167 | North Reference: | True |
| Wellbore: | Herbers 1A-20H-B167 Wellbore #1 | Survey Calculation Method: | Minimum Curvature |
| Design: | Herbers 1A-20H-B167 Wellbore #1 | Database: | US_EDM |

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|--------------------|---------------------------|----------------------|----------------|
| Project | DJ BASIN | | |
| Map System: | US State Plane 1983 | System Datum: | Mean Sea Level |
| Geo Datum: | North American Datum 1983 | | |
| Map Zone: | Colorado Northern Zone | | |

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|------------------------------|--------------------------------------|---------------------|-------------------|--------------------------|-------------|
| Site | Herbers 20H-B167 Pad Sec.20-T1N-R67W | | | | |
| Site Position: | | Northing: | 1,258,515.93 usft | Latitude: | 40.041524 |
| From: | Lat/Long | Easting: | 3,164,195.68 usft | Longitude: | -104.913547 |
| Position Uncertainty: | 0.0 ft | Slot Radius: | 13-3/16 " | Grid Convergence: | 0.38 ° |

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|-----------------------------|---------------------|--------|----------------------------|-------------------|----------------------|-------------|
| Well | Herbers 1A-20H-B167 | | | | | |
| Well Position | +N/-S | 0.0 ft | Northing: | 1,258,515.92 usft | Latitude: | 40.041524 |
| | +E/-W | 0.0 ft | Easting: | 3,164,195.68 usft | Longitude: | -104.913547 |
| Position Uncertainty | | 0.0 ft | Wellhead Elevation: | 0.0 ft | Ground Level: | 5,107.0 ft |

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|------------------|---------------------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | Herbers 1A-20H-B167 Wellbore #1 | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | HDGM | 2/4/2020 | 8.12 | 66.33 | 51,950 |

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|--------------------------|---------------------------------|-------------------|-------------------|----------------------|-----|
| Design | Herbers 1A-20H-B167 Wellbore #1 | | | | |
| Audit Notes: | | | | | |
| Version: | 1.0 | Phase: | ACTUAL | Tie On Depth: | 0.0 |
| Vertical Section: | Depth From (TVD) (ft) | +N/-S (ft) | +E/-W (ft) | Direction (°) | |
| | 0.0 | 0.0 | 0.0 | 180.52 | |

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|-----------------------|----------------|--|------------------|--------------------|
| Survey Program | Date | 3/3/2020 | | |
| From (ft) | To (ft) | Survey (Wellbore) | Tool Name | Description |
| 173.0 | 15,000.0 | Survey #1 (Herbers 1A-20H-B167 Wellbor | MWD+HDGM | OWSG MWD + HDGM |

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|----------------------------|------------------------|--------------------|----------------------------|-------------------|-------------------|------------------------------|--------------------------------|-------------------------------|------------------------------|--|
| Survey | | | | | | | | | | |
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | 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 | |
| 173.0 | 0.79 | 109.42 | 173.0 | -0.4 | 1.1 | 0.4 | 0.46 | 0.46 | 0.00 | |
| 264.0 | 3.43 | 15.12 | 263.9 | 2.0 | 2.4 | -2.0 | 3.93 | 2.90 | -103.63 | |
| 365.0 | 4.44 | 0.04 | 364.7 | 8.9 | 3.2 | -8.9 | 1.42 | 1.00 | -14.93 | |
| 455.0 | 5.33 | 359.83 | 454.4 | 16.5 | 3.2 | -16.5 | 0.99 | 0.99 | -0.23 | |
| 541.0 | 6.26 | 357.32 | 539.9 | 25.2 | 3.0 | -25.2 | 1.12 | 1.08 | -2.92 | |
| 630.0 | 7.36 | 352.29 | 628.3 | 35.7 | 2.0 | -35.7 | 1.40 | 1.24 | -5.65 | |
| 719.0 | 8.38 | 351.59 | 716.5 | 47.8 | 0.3 | -47.8 | 1.15 | 1.15 | -0.79 | |
| 809.0 | 9.76 | 348.17 | 805.3 | 61.7 | -2.3 | -61.7 | 1.65 | 1.53 | -3.80 | |
| 898.0 | 10.82 | 347.49 | 892.9 | 77.2 | -5.6 | -77.2 | 1.20 | 1.19 | -0.76 | |

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|------------------|--------------------------------------|-------------------------------------|--------------------------------------|
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| Site: | Herbers 20H-B167 Pad Sec.20-T1N-R67W | MD Reference: | WELL @ 5130.0ft (Original Well Elev) |
| Well: | Herbers 1A-20H-B167 | North Reference: | True |
| Wellbore: | Herbers 1A-20H-B167 Wellbore #1 | Survey Calculation Method: | Minimum Curvature |
| Design: | Herbers 1A-20H-B167 Wellbore #1 | Database: | US_EDM |

| Survey | | | | | | | | | | |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-------------------------|------------------------|-----------------------|--|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | |
| 987.0 | 12.42 | 353.37 | 980.1 | 94.9 | -8.5 | -94.8 | 2.23 | 1.80 | 6.61 | |
| 1,076.0 | 11.68 | 357.26 | 1,067.1 | 113.4 | -10.1 | -113.3 | 1.23 | -0.83 | 4.37 | |
| 1,162.0 | 10.24 | 354.41 | 1,151.6 | 129.7 | -11.2 | -129.6 | 1.79 | -1.67 | -3.31 | |
| 1,252.0 | 7.99 | 352.17 | 1,240.4 | 143.9 | -12.9 | -143.8 | 2.53 | -2.50 | -2.49 | |
| 1,341.0 | 7.76 | 350.80 | 1,328.6 | 155.9 | -14.7 | -155.8 | 0.33 | -0.26 | -1.54 | |
| 1,431.0 | 7.84 | 351.93 | 1,417.7 | 168.0 | -16.5 | -167.9 | 0.19 | 0.09 | 1.26 | |
| 1,520.0 | 9.83 | 0.21 | 1,505.7 | 181.6 | -17.3 | -181.5 | 2.65 | 2.24 | 9.30 | |
| 1,610.0 | 10.63 | 359.59 | 1,594.2 | 197.6 | -17.3 | -197.4 | 0.90 | 0.89 | -0.69 | |
| 1,699.0 | 11.77 | 359.69 | 1,681.6 | 214.9 | -17.5 | -214.7 | 1.28 | 1.28 | 0.11 | |
| 1,789.0 | 10.23 | 0.12 | 1,769.9 | 232.1 | -17.5 | -231.9 | 1.71 | -1.71 | 0.48 | |
| 1,874.0 | 9.57 | 357.63 | 1,853.6 | 246.7 | -17.8 | -246.5 | 0.93 | -0.78 | -2.93 | |
| 1,960.0 | 9.84 | 357.04 | 1,938.4 | 261.2 | -18.4 | -261.0 | 0.33 | 0.31 | -0.69 | |
| 2,046.0 | 9.75 | 354.89 | 2,023.1 | 275.7 | -19.5 | -275.6 | 0.44 | -0.10 | -2.50 | |
| 2,136.0 | 8.94 | 355.65 | 2,112.0 | 290.3 | -20.7 | -290.1 | 0.91 | -0.90 | 0.84 | |
| 2,225.0 | 9.65 | 357.92 | 2,199.8 | 304.7 | -21.5 | -304.5 | 0.90 | 0.80 | 2.55 | |
| 2,315.0 | 9.73 | 358.61 | 2,288.5 | 319.8 | -21.9 | -319.6 | 0.16 | 0.09 | 0.77 | |
| 2,400.0 | 9.60 | 0.58 | 2,372.3 | 334.1 | -22.0 | -333.9 | 0.42 | -0.15 | 2.32 | |
| 2,491.0 | 8.69 | 4.54 | 2,462.1 | 348.5 | -21.4 | -348.3 | 1.22 | -1.00 | 4.35 | |
| 2,642.0 | 8.35 | 1.09 | 2,611.5 | 370.8 | -20.3 | -370.6 | 0.41 | -0.23 | -2.28 | |
| 2,732.0 | 8.88 | 351.77 | 2,700.5 | 384.3 | -21.2 | -384.0 | 1.66 | 0.59 | -10.36 | |
| 2,821.0 | 9.76 | 352.48 | 2,788.3 | 398.5 | -23.1 | -398.3 | 1.00 | 0.99 | 0.80 | |
| 2,910.0 | 9.85 | 354.76 | 2,876.0 | 413.6 | -24.8 | -413.4 | 0.45 | 0.10 | 2.56 | |
| 2,999.0 | 9.06 | 351.95 | 2,963.8 | 428.1 | -26.5 | -427.9 | 1.03 | -0.89 | -3.16 | |
| 3,088.0 | 9.85 | 356.34 | 3,051.6 | 442.6 | -28.0 | -442.4 | 1.20 | 0.89 | 4.93 | |
| 3,177.0 | 8.97 | 353.00 | 3,139.4 | 457.1 | -29.3 | -456.8 | 1.16 | -0.99 | -3.75 | |
| 3,267.0 | 10.38 | 356.52 | 3,228.1 | 472.2 | -30.6 | -471.9 | 1.70 | 1.57 | 3.91 | |
| 3,356.0 | 9.58 | 355.11 | 3,315.7 | 487.6 | -31.8 | -487.3 | 0.94 | -0.90 | -1.58 | |
| 3,445.0 | 9.85 | 356.34 | 3,403.5 | 502.5 | -32.9 | -502.2 | 0.38 | 0.30 | 1.38 | |
| 3,534.0 | 9.15 | 354.94 | 3,491.2 | 517.2 | -34.0 | -516.9 | 0.83 | -0.79 | -1.57 | |
| 3,648.0 | 9.41 | 0.91 | 3,603.8 | 535.5 | -34.6 | -535.2 | 0.87 | 0.23 | 5.24 | |
| 3,737.0 | 10.55 | 358.28 | 3,691.4 | 551.0 | -34.8 | -550.6 | 1.38 | 1.28 | -2.96 | |
| 3,827.0 | 9.67 | 353.00 | 3,780.0 | 566.7 | -35.9 | -566.4 | 1.42 | -0.98 | -5.87 | |
| 3,916.0 | 8.88 | 348.43 | 3,867.8 | 580.8 | -38.2 | -580.5 | 1.21 | -0.89 | -5.13 | |
| 4,005.0 | 10.02 | 351.07 | 3,955.6 | 595.2 | -40.8 | -594.8 | 1.37 | 1.28 | 2.97 | |
| 4,094.0 | 9.15 | 348.43 | 4,043.4 | 609.8 | -43.4 | -609.4 | 1.09 | -0.98 | -2.97 | |
| 4,183.0 | 9.85 | 358.80 | 4,131.2 | 624.4 | -45.0 | -623.9 | 2.07 | 0.79 | 11.65 | |
| 4,272.0 | 8.62 | 357.75 | 4,219.0 | 638.6 | -45.4 | -638.2 | 1.39 | -1.38 | -1.18 | |
| 4,362.0 | 9.94 | 8.65 | 4,307.9 | 653.1 | -44.5 | -652.6 | 2.44 | 1.47 | 12.11 | |
| 4,451.0 | 11.52 | 4.25 | 4,395.3 | 669.5 | -42.7 | -669.1 | 2.00 | 1.78 | -4.94 | |
| 4,540.0 | 10.73 | 1.44 | 4,482.6 | 686.7 | -41.8 | -686.2 | 1.08 | -0.89 | -3.16 | |
| 4,629.0 | 9.23 | 358.28 | 4,570.3 | 702.1 | -41.8 | -701.7 | 1.79 | -1.69 | -3.55 | |
| 4,718.0 | 10.73 | 0.56 | 4,657.9 | 717.5 | -42.0 | -717.1 | 1.74 | 1.69 | 2.56 | |
| 4,807.0 | 9.58 | 3.73 | 4,745.5 | 733.2 | -41.4 | -732.8 | 1.44 | -1.29 | 3.56 | |
| 4,896.0 | 10.20 | 353.53 | 4,833.2 | 748.4 | -41.8 | -748.0 | 2.08 | 0.70 | -11.46 | |

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| Survey | | | | | | | | | | |
|--|-----------------|-------------|---------------------|------------|------------|-----------------------|-------------------------|------------------------|-----------------------|--|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | |
| 4,985.0 | 9.85 | 351.42 | 4,920.9 | 763.7 | -43.8 | -763.3 | 0.57 | -0.39 | -2.37 | |
| 5,075.0 | 8.79 | 352.65 | 5,009.7 | 778.2 | -45.9 | -777.7 | 1.20 | -1.18 | 1.37 | |
| 5,164.0 | 9.94 | 350.19 | 5,097.5 | 792.5 | -48.1 | -792.0 | 1.37 | 1.29 | -2.76 | |
| 5,253.0 | 8.53 | 350.37 | 5,185.3 | 806.6 | -50.5 | -806.1 | 1.58 | -1.58 | 0.20 | |
| 5,342.0 | 10.38 | 352.30 | 5,273.1 | 821.0 | -52.6 | -820.5 | 2.11 | 2.08 | 2.17 | |
| 5,431.0 | 10.20 | 351.42 | 5,360.7 | 836.8 | -54.9 | -836.2 | 0.27 | -0.20 | -0.99 | |
| 5,521.0 | 8.35 | 351.77 | 5,449.5 | 851.1 | -57.0 | -850.6 | 2.06 | -2.06 | 0.39 | |
| 5,610.0 | 9.76 | 351.25 | 5,537.4 | 865.0 | -59.1 | -864.4 | 1.59 | 1.58 | -0.58 | |
| 5,699.0 | 8.27 | 350.01 | 5,625.3 | 878.7 | -61.4 | -878.1 | 1.69 | -1.67 | -1.39 | |
| 5,788.0 | 9.67 | 355.46 | 5,713.2 | 892.5 | -63.1 | -891.9 | 1.84 | 1.57 | 6.12 | |
| 5,877.0 | 11.52 | 358.45 | 5,800.7 | 908.8 | -63.9 | -908.2 | 2.17 | 2.08 | 3.36 | |
| 5,966.0 | 9.58 | 357.05 | 5,888.2 | 925.1 | -64.5 | -924.5 | 2.20 | -2.18 | -1.57 | |
| 6,056.0 | 8.71 | 358.98 | 5,977.0 | 939.4 | -65.0 | -938.8 | 1.02 | -0.97 | 2.14 | |
| 6,145.0 | 10.38 | 357.22 | 6,064.8 | 954.1 | -65.5 | -953.5 | 1.90 | 1.88 | -1.98 | |
| 6,234.0 | 10.64 | 350.89 | 6,152.3 | 970.3 | -67.2 | -969.6 | 1.33 | 0.29 | -7.11 | |
| 6,323.0 | 8.97 | 350.19 | 6,240.0 | 985.2 | -69.7 | -984.5 | 1.88 | -1.88 | -0.79 | |
| 6,412.0 | 9.85 | 347.73 | 6,327.8 | 999.5 | -72.5 | -998.8 | 1.09 | 0.99 | -2.76 | |
| 6,501.0 | 11.43 | 353.53 | 6,415.3 | 1,015.7 | -75.1 | -1,015.0 | 2.14 | 1.78 | 6.52 | |
| 6,591.0 | 9.94 | 354.06 | 6,503.7 | 1,032.3 | -76.9 | -1,031.5 | 1.66 | -1.66 | 0.59 | |
| 6,680.0 | 7.56 | 352.83 | 6,591.7 | 1,045.7 | -78.4 | -1,045.0 | 2.68 | -2.67 | -1.38 | |
| 6,769.0 | 3.08 | 357.57 | 6,680.3 | 1,053.9 | -79.3 | -1,053.2 | 5.05 | -5.03 | 5.33 | |
| 6,858.0 | 1.85 | 172.30 | 6,769.2 | 1,054.9 | -79.2 | -1,054.1 | 5.53 | -1.38 | 196.33 | |
| 6,947.0 | 6.42 | 177.40 | 6,858.0 | 1,048.5 | -78.8 | -1,047.7 | 5.15 | 5.13 | 5.73 | |
| 7,036.0 | 9.58 | 174.58 | 6,946.1 | 1,036.2 | -77.8 | -1,035.4 | 3.58 | 3.55 | -3.17 | |
| 7,126.0 | 13.98 | 180.21 | 7,034.2 | 1,017.8 | -77.2 | -1,017.1 | 5.05 | 4.89 | 6.26 | |
| 7,215.0 | 19.26 | 179.51 | 7,119.4 | 992.4 | -77.1 | -991.6 | 5.94 | 5.93 | -0.79 | |
| 7,304.0 | 25.76 | 180.03 | 7,201.6 | 958.3 | -77.0 | -957.6 | 7.31 | 7.30 | 0.58 | |
| 7,393.0 | 37.20 | 180.91 | 7,277.4 | 911.9 | -77.4 | -911.2 | 12.86 | 12.85 | 0.99 | |
| 7,482.0 | 43.70 | 184.08 | 7,345.1 | 854.3 | -80.0 | -853.5 | 7.66 | 7.30 | 3.56 | |
| 7,571.0 | 50.83 | 183.20 | 7,405.4 | 789.1 | -84.1 | -788.3 | 8.04 | 8.01 | -0.99 | |
| 7,660.0 | 60.94 | 180.39 | 7,455.3 | 715.5 | -86.3 | -714.7 | 11.65 | 11.36 | -3.16 | |
| 7,750.0 | 71.05 | 180.56 | 7,491.9 | 633.4 | -87.0 | -632.6 | 11.23 | 11.23 | 0.19 | |
| 7,839.0 | 77.38 | 181.44 | 7,516.1 | 547.9 | -88.5 | -547.0 | 7.18 | 7.11 | 0.99 | |
| 7,928.0 | 80.99 | 181.62 | 7,532.8 | 460.5 | -90.9 | -459.6 | 4.06 | 4.06 | 0.20 | |
| 8,017.0 | 84.50 | 180.21 | 7,544.0 | 372.2 | -92.3 | -371.4 | 4.25 | 3.94 | -1.58 | |
| 8,019.5 | 84.61 | 180.22 | 7,544.2 | 369.7 | -92.3 | -368.9 | 4.45 | 4.45 | 0.20 | |
| Final TIZ - 460'FNL, 2473'FEL, Sec.20 | | | | | | | | | | |
| 8,106.0 | 88.46 | 180.39 | 7,549.5 | 283.4 | -92.7 | -282.6 | 4.45 | 4.45 | 0.20 | |
| 8,195.0 | 88.55 | 179.51 | 7,551.8 | 194.4 | -92.7 | -193.6 | 0.99 | 0.10 | -0.99 | |
| 8,284.0 | 88.55 | 179.33 | 7,554.0 | 105.5 | -91.8 | -104.6 | 0.20 | 0.00 | -0.20 | |
| 8,373.0 | 89.96 | 178.63 | 7,555.2 | 16.5 | -90.2 | -15.7 | 1.77 | 1.58 | -0.79 | |
| 8,462.0 | 90.04 | 176.69 | 7,555.2 | -72.4 | -86.5 | 73.2 | 2.18 | 0.09 | -2.18 | |
| 8,551.0 | 90.75 | 176.34 | 7,554.6 | -161.3 | -81.1 | 162.0 | 0.89 | 0.80 | -0.39 | |

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| Survey | | | | | | | | | | |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-------------------------|------------------------|-----------------------|--|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | |
| 8,641.0 | 90.66 | 176.87 | 7,553.5 | -251.1 | -75.8 | 251.8 | 0.60 | -0.10 | 0.59 | |
| 8,730.0 | 90.22 | 180.21 | 7,552.8 | -340.1 | -73.5 | 340.7 | 3.79 | -0.49 | 3.75 | |
| 8,819.0 | 90.66 | 180.03 | 7,552.1 | -429.0 | -73.7 | 429.7 | 0.53 | 0.49 | -0.20 | |
| 8,908.0 | 88.20 | 180.21 | 7,553.0 | -518.0 | -73.9 | 518.7 | 2.77 | -2.76 | 0.20 | |
| 8,997.0 | 89.08 | 180.21 | 7,555.1 | -607.0 | -74.2 | 607.7 | 0.99 | 0.99 | 0.00 | |
| 9,086.0 | 89.25 | 179.86 | 7,556.4 | -696.0 | -74.3 | 696.6 | 0.44 | 0.19 | -0.39 | |
| 9,175.0 | 89.87 | 180.56 | 7,557.1 | -785.0 | -74.6 | 785.6 | 1.05 | 0.70 | 0.79 | |
| 9,264.0 | 89.60 | 180.03 | 7,557.5 | -874.0 | -75.1 | 874.6 | 0.67 | -0.30 | -0.60 | |
| 9,353.0 | 89.87 | 179.68 | 7,557.9 | -963.0 | -74.8 | 963.6 | 0.50 | 0.30 | -0.39 | |
| 9,442.0 | 89.69 | 180.21 | 7,558.2 | -1,052.0 | -74.8 | 1,052.6 | 0.63 | -0.20 | 0.60 | |
| 9,532.0 | 90.22 | 180.03 | 7,558.3 | -1,142.0 | -75.0 | 1,142.6 | 0.62 | 0.59 | -0.20 | |
| 9,621.0 | 89.43 | 180.21 | 7,558.6 | -1,231.0 | -75.1 | 1,231.6 | 0.91 | -0.89 | 0.20 | |
| 9,710.0 | 89.69 | 179.86 | 7,559.3 | -1,320.0 | -75.2 | 1,320.6 | 0.49 | 0.29 | -0.39 | |
| 9,799.0 | 90.04 | 178.63 | 7,559.5 | -1,409.0 | -74.0 | 1,409.6 | 1.44 | 0.39 | -1.38 | |
| 9,888.0 | 88.64 | 180.03 | 7,560.5 | -1,498.0 | -73.0 | 1,498.6 | 2.22 | -1.57 | 1.57 | |
| 9,977.0 | 90.57 | 180.39 | 7,561.1 | -1,587.0 | -73.3 | 1,587.6 | 2.21 | 2.17 | 0.40 | |
| 10,067.0 | 90.66 | 179.68 | 7,560.1 | -1,676.9 | -73.4 | 1,677.5 | 0.80 | 0.10 | -0.79 | |
| 10,156.0 | 88.72 | 180.56 | 7,560.6 | -1,765.9 | -73.5 | 1,766.5 | 2.39 | -2.18 | 0.99 | |
| 10,245.0 | 88.20 | 180.03 | 7,563.0 | -1,854.9 | -74.0 | 1,855.5 | 0.83 | -0.58 | -0.60 | |
| 10,334.0 | 89.34 | 179.51 | 7,564.9 | -1,943.9 | -73.6 | 1,944.5 | 1.41 | 1.28 | -0.58 | |
| 10,423.0 | 90.04 | 179.33 | 7,565.4 | -2,032.9 | -72.7 | 2,033.5 | 0.81 | 0.79 | -0.20 | |
| 10,512.0 | 90.13 | 179.51 | 7,565.3 | -2,121.9 | -71.8 | 2,122.4 | 0.23 | 0.10 | 0.20 | |
| 10,601.0 | 91.36 | 178.80 | 7,564.1 | -2,210.9 | -70.5 | 2,211.4 | 1.60 | 1.38 | -0.80 | |
| 10,690.0 | 91.01 | 180.21 | 7,562.3 | -2,299.8 | -69.8 | 2,300.4 | 1.63 | -0.39 | 1.58 | |
| 10,780.0 | 89.78 | 180.91 | 7,561.7 | -2,389.8 | -70.6 | 2,390.4 | 1.57 | -1.37 | 0.78 | |
| 10,869.0 | 90.04 | 180.39 | 7,561.8 | -2,478.8 | -71.7 | 2,479.4 | 0.65 | 0.29 | -0.58 | |
| 10,958.0 | 90.40 | 180.21 | 7,561.5 | -2,567.8 | -72.1 | 2,568.4 | 0.45 | 0.40 | -0.20 | |
| 11,047.0 | 89.25 | 180.56 | 7,561.7 | -2,656.8 | -72.7 | 2,657.4 | 1.35 | -1.29 | 0.39 | |
| 11,136.0 | 89.78 | 179.86 | 7,562.5 | -2,745.8 | -73.0 | 2,746.4 | 0.99 | 0.60 | -0.79 | |
| 11,225.0 | 90.31 | 179.33 | 7,562.4 | -2,834.8 | -72.4 | 2,835.3 | 0.84 | 0.60 | -0.60 | |
| 11,314.0 | 89.34 | 179.68 | 7,562.7 | -2,923.8 | -71.6 | 2,924.3 | 1.16 | -1.09 | 0.39 | |
| 11,403.0 | 90.22 | 179.16 | 7,563.0 | -3,012.8 | -70.7 | 3,013.3 | 1.15 | 0.99 | -0.58 | |
| 11,493.0 | 89.25 | 180.03 | 7,563.4 | -3,102.8 | -70.1 | 3,103.3 | 1.45 | -1.08 | 0.97 | |
| 11,582.0 | 89.69 | 179.51 | 7,564.3 | -3,191.8 | -69.8 | 3,192.3 | 0.77 | 0.49 | -0.58 | |
| 11,671.0 | 90.48 | 179.16 | 7,564.1 | -3,280.8 | -68.7 | 3,281.3 | 0.97 | 0.89 | -0.39 | |
| 11,760.0 | 89.52 | 180.56 | 7,564.1 | -3,369.8 | -68.5 | 3,370.3 | 1.91 | -1.08 | 1.57 | |
| 11,849.0 | 88.81 | 181.62 | 7,565.4 | -3,458.7 | -70.2 | 3,459.2 | 1.43 | -0.80 | 1.19 | |
| 11,938.0 | 89.08 | 181.44 | 7,567.1 | -3,547.7 | -72.6 | 3,548.2 | 0.36 | 0.30 | -0.20 | |
| 12,027.0 | 87.93 | 181.09 | 7,569.4 | -3,636.6 | -74.5 | 3,637.2 | 1.35 | -1.29 | -0.39 | |
| 12,117.0 | 88.20 | 180.39 | 7,572.4 | -3,726.6 | -75.7 | 3,727.1 | 0.83 | 0.30 | -0.78 | |
| 12,206.0 | 88.29 | 180.03 | 7,575.2 | -3,815.5 | -76.0 | 3,816.1 | 0.42 | 0.10 | -0.40 | |
| 12,295.0 | 88.64 | 180.21 | 7,577.5 | -3,904.5 | -76.2 | 3,905.0 | 0.44 | 0.39 | 0.20 | |
| 12,384.0 | 87.58 | 180.03 | 7,580.5 | -3,993.5 | -76.4 | 3,994.0 | 1.21 | -1.19 | -0.20 | |
| 12,473.0 | 88.02 | 179.51 | 7,583.9 | -4,082.4 | -76.0 | 4,082.9 | 0.77 | 0.49 | -0.58 | |

| | | | |
|------------------|--------------------------------------|-------------------------------------|--------------------------------------|
| Company: | Crestone Peak Resources | Local Co-ordinate Reference: | Well Herbers 1A-20H-B167 |
| Project: | DJ BASIN | TVD Reference: | WELL @ 5130.0ft (Original Well Elev) |
| Site: | Herbers 20H-B167 Pad Sec.20-T1N-R67W | MD Reference: | WELL @ 5130.0ft (Original Well Elev) |
| Well: | Herbers 1A-20H-B167 | North Reference: | True |
| Wellbore: | Herbers 1A-20H-B167 Wellbore #1 | Survey Calculation Method: | Minimum Curvature |
| Design: | Herbers 1A-20H-B167 Wellbore #1 | Database: | US_EDM |

| Survey | | | | | | | | | | |
|---|-----------------|-------------|---------------------|------------|------------|-----------------------|-------------------------|------------------------|-----------------------|--|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | |
| 12,562.0 | 88.37 | 179.33 | 7,586.7 | -4,171.3 | -75.1 | 4,171.8 | 0.44 | 0.39 | -0.20 | |
| 12,651.0 | 88.64 | 179.33 | 7,589.0 | -4,260.3 | -74.1 | 4,260.8 | 0.30 | 0.30 | 0.00 | |
| 12,740.0 | 89.16 | 179.16 | 7,590.7 | -4,349.3 | -72.9 | 4,349.8 | 0.61 | 0.58 | -0.19 | |
| 12,830.0 | 88.11 | 178.63 | 7,592.9 | -4,439.2 | -71.2 | 4,439.7 | 1.31 | -1.17 | -0.59 | |
| 12,919.0 | 88.29 | 178.45 | 7,595.7 | -4,528.2 | -68.9 | 4,528.6 | 0.29 | 0.20 | -0.20 | |
| 13,008.0 | 88.90 | 179.16 | 7,597.9 | -4,617.1 | -67.1 | 4,617.5 | 1.05 | 0.69 | 0.80 | |
| 13,097.0 | 89.34 | 178.45 | 7,599.2 | -4,706.1 | -65.2 | 4,706.5 | 0.94 | 0.49 | -0.80 | |
| 13,186.0 | 89.16 | 179.51 | 7,600.4 | -4,795.1 | -63.6 | 4,795.4 | 1.21 | -0.20 | 1.19 | |
| 13,276.0 | 88.90 | 179.33 | 7,601.9 | -4,885.0 | -62.7 | 4,885.4 | 0.35 | -0.29 | -0.20 | |
| 13,365.0 | 89.16 | 179.33 | 7,603.4 | -4,974.0 | -61.7 | 4,974.4 | 0.29 | 0.29 | 0.00 | |
| 13,454.0 | 89.25 | 178.80 | 7,604.6 | -5,063.0 | -60.2 | 5,063.3 | 0.60 | 0.10 | -0.60 | |
| 13,543.0 | 88.37 | 179.86 | 7,606.5 | -5,152.0 | -59.2 | 5,152.3 | 1.55 | -0.99 | 1.19 | |
| 13,632.0 | 88.11 | 179.51 | 7,609.2 | -5,240.9 | -58.7 | 5,241.3 | 0.49 | -0.29 | -0.39 | |
| 13,721.0 | 87.58 | 178.98 | 7,612.6 | -5,329.9 | -57.5 | 5,330.2 | 0.84 | -0.60 | -0.60 | |
| 13,810.0 | 88.55 | 179.68 | 7,615.6 | -5,418.8 | -56.5 | 5,419.1 | 1.34 | 1.09 | 0.79 | |
| 13,899.0 | 89.52 | 179.86 | 7,617.1 | -5,507.8 | -56.1 | 5,508.1 | 1.11 | 1.09 | 0.20 | |
| 13,988.0 | 89.34 | 178.98 | 7,618.0 | -5,596.8 | -55.2 | 5,597.1 | 1.01 | -0.20 | -0.99 | |
| 14,077.0 | 90.40 | 180.56 | 7,618.2 | -5,685.8 | -54.9 | 5,686.0 | 2.14 | 1.19 | 1.78 | |
| 14,166.0 | 90.84 | 180.56 | 7,617.2 | -5,774.8 | -55.7 | 5,775.0 | 0.49 | 0.49 | 0.00 | |
| 14,256.0 | 90.13 | 181.62 | 7,616.4 | -5,864.7 | -57.4 | 5,865.0 | 1.42 | -0.79 | 1.18 | |
| 14,345.0 | 88.02 | 180.56 | 7,617.9 | -5,953.7 | -59.1 | 5,954.0 | 2.65 | -2.37 | -1.19 | |
| 14,434.0 | 88.55 | 180.74 | 7,620.5 | -6,042.7 | -60.1 | 6,043.0 | 0.63 | 0.60 | 0.20 | |
| 14,523.0 | 88.55 | 180.56 | 7,622.8 | -6,131.6 | -61.2 | 6,131.9 | 0.20 | 0.00 | -0.20 | |
| 14,613.0 | 88.81 | 180.21 | 7,624.9 | -6,221.6 | -61.8 | 6,221.9 | 0.48 | 0.29 | -0.39 | |
| 14,702.0 | 89.96 | 179.86 | 7,625.8 | -6,310.6 | -61.8 | 6,310.9 | 1.35 | 1.29 | -0.39 | |
| 14,791.0 | 88.55 | 179.68 | 7,627.0 | -6,399.6 | -61.5 | 6,399.9 | 1.60 | -1.58 | -0.20 | |
| 14,880.0 | 88.99 | 179.69 | 7,628.9 | -6,488.6 | -61.0 | 6,488.9 | 0.49 | 0.49 | 0.01 | |
| 14,935.0 | 88.81 | 179.33 | 7,629.9 | -6,543.6 | -60.5 | 6,543.8 | 0.73 | -0.33 | -0.65 | |
| Last Survey - 14,935' MD | | | | | | | | | | |
| 15,000.0 | 88.81 | 179.33 | 7,631.3 | -6,608.5 | -59.7 | 6,608.8 | 0.00 | 0.00 | 0.00 | |
| PTB - 2166'FNL, 2473'FEL, Sec.29 | | | | | | | | | | |

| Survey Annotations | | | | | |
|---------------------|---------------------|-------------------|------------|---------------------------------------|--|
| Measured Depth (ft) | Vertical Depth (ft) | Local Coordinates | | Comment | |
| | | +N/-S (ft) | +E/-W (ft) | | |
| 8,019.5 | 7,544.2 | 369.7 | -92.3 | Final TIZ - 460'FNL, 2473'FEL, Sec.20 | |
| 14,935.0 | 7,629.9 | -6,543.6 | -60.5 | Last Survey - 14,935' MD | |
| 15,000.0 | 7,631.3 | -6,608.5 | -59.7 | PTB - 2166'FNL, 2473'FEL, Sec.29 | |

Checked By: _____ Approved By: _____ Date: _____