



Crestone Peak Resources

DJ BASIN

Kugel Pad Sec.18-T2N-R67W

Kugel 1L-18H-H267

Kugel 1L-18H-H267 Wellbore #1

Survey: Survey #1

Standard Survey Report

12 July, 2019



CRESTONE PEAK
RESOURCES

| | | | |
|------------------|-------------------------------|-------------------------------------|--|
| Company: | Crestone Peak Resources | Local Co-ordinate Reference: | Well Kugel 1L-18H-H267 |
| Project: | DJ BASIN | TVD Reference: | WELL @ 4976.0ft (Ensign 153 RKB - 23') |
| Site: | Kugel Pad Sec.18-T2N-R67W | MD Reference: | WELL @ 4976.0ft (Ensign 153 RKB - 23') |
| Well: | Kugel 1L-18H-H267 | North Reference: | True |
| Wellbore: | Kugel 1L-18H-H267 Wellbore #1 | Survey Calculation Method: | Minimum Curvature |
| Design: | Wellbore #1 | Database: | US_EDM |

| | | | |
|--------------------|---------------------------|----------------------|----------------|
| 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 | | |

| Site | Kugel Pad Sec.18-T2N-R67W | | | | |
|-----------------------|---------------------------|--------------|-------------------|-------------------|-------------|
| Site Position: | | Northing: | 1,294,300.39 usft | Latitude: | 40.139825 |
| From: | Lat/Long | Easting: | 3,160,349.57 usft | Longitude: | -104.926457 |
| Position Uncertainty: | 0.0 ft | Slot Radius: | 13-3/16 " | Grid Convergence: | 0.37 ° |

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|----------------------|-------------------|--------|---------------------|-------------------|---------------|-------------|
| Well | Kugel 1L-18H-H267 | | | | | |
| Well Position | +N/-S | 0.0 ft | Northing: | 1,294,190.36 usft | Latitude: | 40.139523 |
| | +E/-W | 0.0 ft | Easting: | 3,160,350.28 usft | Longitude: | -104.926457 |
| Position Uncertainty | | 0.0 ft | Wellhead Elevation: | 0.0 ft | Ground Level: | 4,953.0 ft |

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|------------------|-------------------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | Kugel 1L-18H-H267 Wellbore #1 | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | HDGM | 6/12/2019 | 8.30 | 66.52 | 52,045 |

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|--------------------------|------------------------------|-------------------|-------------------|----------------------|-----|
| Design | 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 | 165.16 | |

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|-----------------------|----------------|---|------------------|--------------------|--|
| Survey Program | Date | 7/12/2019 | | | |
| From (ft) | To (ft) | Survey (Wellbore) | Tool Name | Description | |
| 114.0 | 13,732.0 | Survey #1 (Kugel 1L-18H-H267 Wellbore # | 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 | |
| 1.0 | 0.00 | 259.01 | 1.0 | 0.0 | 0.0 | 0.0 | 0.23 | 0.23 | 0.00 | |
| SHL 2228'FNL & 682'FEL, Sec.18 | | | | | | | | | | |
| 114.0 | 0.26 | 259.01 | 114.0 | 0.0 | -0.3 | 0.0 | 0.23 | 0.23 | 0.00 | |
| 205.0 | 0.35 | 278.61 | 205.0 | 0.0 | -0.7 | -0.1 | 0.15 | 0.10 | 21.54 | |
| 266.0 | 0.35 | 299.27 | 266.0 | 0.1 | -1.1 | -0.3 | 0.21 | 0.00 | 33.87 | |
| 326.0 | 0.44 | 269.03 | 326.0 | 0.2 | -1.5 | -0.5 | 0.37 | 0.15 | -50.40 | |
| 387.0 | 1.14 | 352.00 | 387.0 | 0.8 | -1.8 | -1.2 | 1.92 | 1.15 | 136.02 | |
| 470.0 | 3.78 | 11.25 | 469.9 | 4.3 | -1.4 | -4.5 | 3.29 | 3.18 | 23.19 | |
| 552.0 | 6.33 | 10.28 | 551.6 | 11.4 | 0.0 | -11.0 | 3.11 | 3.11 | -1.18 | |
| 635.0 | 8.45 | 14.68 | 633.9 | 21.8 | 2.3 | -20.4 | 2.64 | 2.55 | 5.30 | |

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| Project: | DJ BASIN | TVD Reference: | WELL @ 4976.0ft (Ensign 153 RKB - 23') |
| Site: | Kugel Pad Sec.18-T2N-R67W | MD Reference: | WELL @ 4976.0ft (Ensign 153 RKB - 23') |
| Well: | Kugel 1L-18H-H267 | North Reference: | True |
| Wellbore: | Kugel 1L-18H-H267 Wellbore #1 | Survey Calculation Method: | Minimum Curvature |
| Design: | 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) |
| 717.0 | 9.77 | 15.12 | 714.9 | 34.3 | 5.7 | -31.7 | 1.61 | 1.61 | 0.54 |
| 800.0 | 11.61 | 11.78 | 796.4 | 49.3 | 9.2 | -45.3 | 2.34 | 2.22 | -4.02 |
| 887.0 | 13.28 | 4.31 | 881.4 | 67.8 | 11.8 | -62.5 | 2.66 | 1.92 | -8.59 |
| 970.0 | 14.34 | 2.72 | 962.0 | 87.6 | 13.0 | -81.4 | 1.36 | 1.28 | -1.92 |
| 1,036.0 | 15.14 | 2.14 | 1,025.8 | 104.4 | 13.7 | -97.4 | 1.23 | 1.21 | -0.88 |
| 1,126.0 | 16.36 | 3.23 | 1,112.4 | 128.8 | 14.8 | -120.7 | 1.39 | 1.36 | 1.21 |
| 1,216.0 | 18.33 | 4.52 | 1,198.3 | 155.5 | 16.6 | -146.1 | 2.23 | 2.19 | 1.43 |
| 1,306.0 | 20.00 | 5.50 | 1,283.3 | 185.0 | 19.2 | -173.9 | 1.89 | 1.86 | 1.09 |
| 1,396.0 | 21.51 | 6.52 | 1,367.5 | 216.7 | 22.6 | -203.7 | 1.73 | 1.68 | 1.13 |
| 1,486.0 | 22.83 | 7.76 | 1,450.8 | 250.4 | 26.8 | -235.2 | 1.56 | 1.47 | 1.38 |
| 1,576.0 | 23.59 | 10.81 | 1,533.5 | 285.4 | 32.6 | -267.5 | 1.58 | 0.84 | 3.39 |
| 1,666.0 | 23.28 | 11.86 | 1,616.1 | 320.5 | 39.6 | -299.6 | 0.58 | -0.34 | 1.17 |
| 1,755.0 | 23.37 | 12.07 | 1,697.9 | 354.9 | 46.9 | -331.1 | 0.14 | 0.10 | 0.24 |
| 1,845.0 | 25.00 | 8.44 | 1,780.0 | 391.2 | 53.4 | -364.5 | 2.45 | 1.81 | -4.03 |
| 1,935.0 | 28.50 | 6.10 | 1,860.3 | 431.4 | 58.5 | -402.0 | 4.06 | 3.89 | -2.60 |
| 2,025.0 | 31.37 | 7.57 | 1,938.3 | 476.0 | 63.9 | -443.7 | 3.29 | 3.19 | 1.63 |
| 2,115.0 | 30.49 | 9.76 | 2,015.5 | 521.7 | 70.8 | -486.1 | 1.59 | -0.98 | 2.43 |
| 2,205.0 | 31.68 | 10.81 | 2,092.6 | 567.4 | 79.1 | -528.2 | 1.45 | 1.32 | 1.17 |
| 2,294.0 | 33.20 | 12.14 | 2,167.7 | 614.2 | 88.6 | -571.0 | 1.89 | 1.71 | 1.49 |
| 2,384.0 | 32.02 | 14.86 | 2,243.5 | 661.3 | 99.9 | -613.7 | 2.09 | -1.31 | 3.02 |
| 2,474.0 | 30.86 | 16.93 | 2,320.3 | 706.5 | 112.8 | -654.0 | 1.76 | -1.29 | 2.30 |
| 2,489.0 | 30.95 | 16.36 | 2,333.2 | 713.9 | 115.0 | -660.6 | 2.04 | 0.60 | -3.80 |
| 2,553.0 | 30.34 | 16.56 | 2,388.2 | 745.2 | 124.2 | -688.5 | 0.97 | -0.95 | 0.31 |
| 2,643.0 | 28.14 | 13.22 | 2,466.8 | 787.6 | 135.6 | -726.6 | 3.04 | -2.44 | -3.71 |
| 2,732.0 | 28.58 | 12.17 | 2,545.1 | 828.9 | 144.8 | -764.1 | 0.75 | 0.49 | -1.18 |
| 2,821.0 | 30.69 | 8.65 | 2,622.4 | 872.1 | 152.7 | -803.9 | 3.07 | 2.37 | -3.96 |
| 2,910.0 | 32.54 | 11.11 | 2,698.2 | 918.1 | 160.8 | -846.3 | 2.53 | 2.08 | 2.76 |
| 2,999.0 | 30.69 | 9.35 | 2,774.0 | 964.0 | 169.1 | -888.5 | 2.32 | -2.08 | -1.98 |
| 3,088.0 | 32.62 | 10.94 | 2,849.8 | 1,009.9 | 177.3 | -930.8 | 2.36 | 2.17 | 1.79 |
| 3,177.0 | 32.71 | 10.94 | 2,924.7 | 1,057.1 | 186.4 | -974.1 | 0.10 | 0.10 | 0.00 |
| 3,266.0 | 32.36 | 10.76 | 2,999.7 | 1,104.1 | 195.5 | -1,017.2 | 0.41 | -0.39 | -0.20 |
| 3,366.0 | 33.06 | 10.59 | 3,083.9 | 1,157.2 | 205.5 | -1,066.0 | 0.71 | 0.70 | -0.17 |
| 3,455.0 | 30.86 | 9.53 | 3,159.4 | 1,203.6 | 213.7 | -1,108.7 | 2.55 | -2.47 | -1.19 |
| 3,544.0 | 30.60 | 9.53 | 3,235.9 | 1,248.4 | 221.2 | -1,150.1 | 0.29 | -0.29 | 0.00 |
| 3,633.0 | 31.04 | 10.23 | 3,312.3 | 1,293.4 | 229.1 | -1,191.6 | 0.64 | 0.49 | 0.79 |
| 3,722.0 | 31.22 | 11.29 | 3,388.5 | 1,338.6 | 237.6 | -1,233.1 | 0.65 | 0.20 | 1.19 |
| 3,811.0 | 31.22 | 9.88 | 3,464.6 | 1,383.9 | 246.1 | -1,274.7 | 0.82 | 0.00 | -1.58 |
| 3,900.0 | 31.57 | 9.35 | 3,540.6 | 1,429.6 | 253.9 | -1,316.9 | 0.50 | 0.39 | -0.60 |
| 3,989.0 | 31.48 | 8.83 | 3,616.4 | 1,475.6 | 261.2 | -1,359.5 | 0.32 | -0.10 | -0.58 |
| 4,078.0 | 31.30 | 10.23 | 3,692.4 | 1,521.3 | 268.9 | -1,401.7 | 0.84 | -0.20 | 1.57 |
| 4,167.0 | 32.45 | 9.35 | 3,768.0 | 1,567.6 | 276.9 | -1,444.4 | 1.39 | 1.29 | -0.99 |
| 4,257.0 | 32.45 | 10.23 | 3,843.9 | 1,615.2 | 285.1 | -1,488.3 | 0.52 | 0.00 | 0.98 |
| 4,346.0 | 31.66 | 8.48 | 3,919.4 | 1,661.8 | 292.8 | -1,531.4 | 1.37 | -0.89 | -1.97 |

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| Wellbore: | Kugel 1L-18H-H267 Wellbore #1 | Survey Calculation Method: | Minimum Curvature |
| Design: | 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) | |
| 4,435.0 | 33.33 | 9.18 | 3,994.4 | 1,709.0 | 300.1 | -1,575.2 | 1.92 | 1.88 | 0.79 | |
| 4,523.0 | 30.95 | 7.42 | 4,068.9 | 1,755.3 | 306.9 | -1,618.2 | 2.91 | -2.70 | -2.00 | |
| 4,613.0 | 30.43 | 7.42 | 4,146.3 | 1,800.9 | 312.8 | -1,660.7 | 0.58 | -0.58 | 0.00 | |
| 4,702.0 | 28.84 | 8.65 | 4,223.7 | 1,844.5 | 319.0 | -1,701.3 | 1.91 | -1.79 | 1.38 | |
| 4,791.0 | 28.58 | 8.30 | 4,301.8 | 1,886.8 | 325.3 | -1,740.5 | 0.35 | -0.29 | -0.39 | |
| 4,880.0 | 29.72 | 11.82 | 4,379.5 | 1,929.4 | 332.9 | -1,779.8 | 2.31 | 1.28 | 3.96 | |
| 4,969.0 | 32.27 | 11.99 | 4,455.8 | 1,974.3 | 342.3 | -1,820.7 | 2.87 | 2.87 | 0.19 | |
| 5,058.0 | 35.26 | 11.11 | 4,529.8 | 2,022.7 | 352.2 | -1,865.0 | 3.40 | 3.36 | -0.99 | |
| 5,147.0 | 33.94 | 7.42 | 4,603.0 | 2,072.6 | 360.4 | -1,911.1 | 2.78 | -1.48 | -4.15 | |
| 5,236.0 | 32.71 | 8.83 | 4,677.4 | 2,121.0 | 367.3 | -1,956.2 | 1.63 | -1.38 | 1.58 | |
| 5,325.0 | 31.04 | 9.35 | 4,753.0 | 2,167.4 | 374.7 | -1,999.1 | 1.90 | -1.88 | 0.58 | |
| 5,414.0 | 29.63 | 9.53 | 4,829.8 | 2,211.7 | 382.1 | -2,040.1 | 1.59 | -1.58 | 0.20 | |
| 5,504.0 | 30.60 | 9.00 | 4,907.6 | 2,256.3 | 389.3 | -2,081.3 | 1.12 | 1.08 | -0.59 | |
| 5,593.0 | 31.13 | 8.12 | 4,984.0 | 2,301.4 | 396.1 | -2,123.2 | 0.78 | 0.60 | -0.99 | |
| 5,682.0 | 30.43 | 9.88 | 5,060.5 | 2,346.4 | 403.2 | -2,164.9 | 1.28 | -0.79 | 1.98 | |
| 5,771.0 | 29.63 | 11.29 | 5,137.5 | 2,390.2 | 411.4 | -2,205.1 | 1.20 | -0.90 | 1.58 | |
| 5,860.0 | 28.84 | 9.18 | 5,215.2 | 2,433.0 | 419.1 | -2,244.5 | 1.46 | -0.89 | -2.37 | |
| 5,949.0 | 30.07 | 10.59 | 5,292.7 | 2,476.1 | 426.7 | -2,284.2 | 1.59 | 1.38 | 1.58 | |
| 6,038.0 | 31.30 | 7.95 | 5,369.2 | 2,520.9 | 434.0 | -2,325.7 | 2.05 | 1.38 | -2.97 | |
| 6,127.0 | 29.90 | 8.30 | 5,445.8 | 2,565.7 | 440.4 | -2,367.4 | 1.59 | -1.57 | 0.39 | |
| 6,217.0 | 30.95 | 9.53 | 5,523.4 | 2,610.8 | 447.4 | -2,409.1 | 1.36 | 1.17 | 1.37 | |
| 6,306.0 | 32.36 | 9.71 | 5,599.2 | 2,656.8 | 455.2 | -2,451.6 | 1.59 | 1.58 | 0.20 | |
| 6,395.0 | 32.71 | 10.94 | 5,674.2 | 2,703.9 | 463.8 | -2,494.9 | 0.84 | 0.39 | 1.38 | |
| 6,484.0 | 34.12 | 13.57 | 5,748.5 | 2,751.8 | 474.2 | -2,538.5 | 2.27 | 1.58 | 2.96 | |
| 6,573.0 | 33.59 | 13.05 | 5,822.4 | 2,800.0 | 485.7 | -2,582.3 | 0.68 | -0.60 | -0.58 | |
| 6,662.0 | 31.48 | 12.87 | 5,897.5 | 2,846.7 | 496.4 | -2,624.6 | 2.37 | -2.37 | -0.20 | |
| 6,752.0 | 30.34 | 7.42 | 5,974.7 | 2,892.1 | 504.6 | -2,666.4 | 3.36 | -1.27 | -6.06 | |
| 6,841.0 | 29.37 | 7.60 | 6,051.9 | 2,936.1 | 510.4 | -2,707.4 | 1.09 | -1.09 | 0.20 | |
| 6,930.0 | 29.02 | 9.35 | 6,129.6 | 2,979.0 | 516.7 | -2,747.3 | 1.04 | -0.39 | 1.97 | |
| 7,019.0 | 28.23 | 11.99 | 6,207.7 | 3,020.9 | 524.6 | -2,785.8 | 1.68 | -0.89 | 2.97 | |
| 7,108.0 | 29.11 | 10.59 | 6,285.8 | 3,062.8 | 533.0 | -2,824.1 | 1.24 | 0.99 | -1.57 | |
| 7,197.0 | 21.72 | 11.11 | 6,366.1 | 3,100.3 | 540.1 | -2,858.5 | 8.31 | -8.30 | 0.58 | |
| 7,286.0 | 14.07 | 11.29 | 6,450.8 | 3,127.1 | 545.4 | -2,883.1 | 8.60 | -8.60 | 0.20 | |
| 7,376.0 | 9.32 | 22.54 | 6,538.9 | 3,144.5 | 550.4 | -2,898.7 | 5.83 | -5.28 | 12.50 | |
| 7,465.0 | 5.80 | 59.28 | 6,627.1 | 3,153.5 | 557.0 | -2,905.6 | 6.53 | -3.96 | 41.28 | |
| 7,554.0 | 7.65 | 113.94 | 6,715.6 | 3,153.4 | 566.3 | -2,903.2 | 7.17 | 2.08 | 61.42 | |
| 7,643.0 | 10.46 | 139.96 | 6,803.5 | 3,144.8 | 576.9 | -2,892.1 | 5.50 | 3.16 | 29.24 | |
| 7,732.0 | 14.51 | 151.56 | 6,890.4 | 3,128.8 | 587.4 | -2,874.0 | 5.33 | 4.55 | 13.03 | |
| 7,821.0 | 18.29 | 158.77 | 6,975.8 | 3,106.0 | 597.8 | -2,849.3 | 4.82 | 4.25 | 8.10 | |
| 7,910.0 | 27.26 | 164.04 | 7,057.8 | 3,073.3 | 608.5 | -2,814.9 | 10.33 | 10.08 | 5.92 | |
| 7,999.0 | 35.44 | 173.01 | 7,133.8 | 3,028.0 | 617.3 | -2,768.9 | 10.56 | 9.19 | 10.08 | |
| 8,088.0 | 39.75 | 173.53 | 7,204.3 | 2,974.1 | 623.6 | -2,715.1 | 4.86 | 4.84 | 0.58 | |
| 8,178.0 | 44.41 | 173.01 | 7,271.0 | 2,914.2 | 630.7 | -2,655.4 | 5.19 | 5.18 | -0.58 | |

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| Design: | 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) |
| 8,267.0 | 55.57 | 173.36 | 7,328.2 | 2,846.6 | 638.7 | -2,588.1 | 12.54 | 12.54 | 0.39 |
| 8,356.0 | 66.13 | 177.23 | 7,371.5 | 2,769.2 | 645.0 | -2,511.7 | 12.45 | 11.87 | 4.35 |
| 8,445.0 | 74.66 | 180.04 | 7,401.3 | 2,685.5 | 646.9 | -2,430.3 | 10.03 | 9.58 | 3.16 |
| 8,534.0 | 79.05 | 180.39 | 7,421.5 | 2,598.9 | 646.6 | -2,346.6 | 4.95 | 4.93 | 0.39 |
| 8,614.1 | 82.61 | 179.28 | 7,434.3 | 2,519.8 | 646.8 | -2,270.1 | 4.65 | 4.45 | -1.38 |
| TPZ - 300'FSL, 7'FEL, SEC.7 | | | | | | | | | |
| 8,616.2 | 82.71 | 179.25 | 7,434.6 | 2,517.7 | 646.8 | -2,268.1 | 4.65 | 4.45 | -1.37 |
| TPZ 300'FSL & 0'FEL, Sec.7 | | | | | | | | | |
| 8,623.0 | 83.01 | 179.16 | 7,435.4 | 2,511.0 | 646.9 | -2,261.5 | 4.65 | 4.45 | -1.37 |
| 8,712.0 | 86.17 | 178.28 | 7,443.8 | 2,422.4 | 648.9 | -2,175.4 | 3.68 | 3.55 | -0.99 |
| 8,801.0 | 87.67 | 179.34 | 7,448.6 | 2,333.6 | 650.8 | -2,089.1 | 2.06 | 1.69 | 1.19 |
| 8,890.0 | 89.08 | 180.04 | 7,451.1 | 2,244.6 | 651.2 | -2,002.9 | 1.77 | 1.58 | 0.79 |
| 8,979.0 | 89.25 | 179.69 | 7,452.4 | 2,155.6 | 651.5 | -1,916.9 | 0.44 | 0.19 | -0.39 |
| 9,068.0 | 89.43 | 179.34 | 7,453.4 | 2,066.6 | 652.2 | -1,830.6 | 0.44 | 0.20 | -0.39 |
| 9,157.0 | 89.87 | 178.28 | 7,454.0 | 1,977.6 | 654.1 | -1,744.2 | 1.29 | 0.49 | -1.19 |
| 9,247.0 | 90.31 | 177.93 | 7,453.8 | 1,887.7 | 657.0 | -1,656.5 | 0.62 | 0.49 | -0.39 |
| 9,336.0 | 88.99 | 178.63 | 7,454.4 | 1,798.7 | 659.7 | -1,569.8 | 1.68 | -1.48 | 0.79 |
| 9,425.0 | 89.78 | 178.81 | 7,455.3 | 1,709.8 | 661.7 | -1,483.3 | 0.91 | 0.89 | 0.20 |
| 9,514.0 | 90.22 | 178.28 | 7,455.3 | 1,620.8 | 663.9 | -1,396.7 | 0.77 | 0.49 | -0.60 |
| 9,603.0 | 89.16 | 180.04 | 7,455.8 | 1,531.8 | 665.3 | -1,310.3 | 2.31 | -1.19 | 1.98 |
| 9,692.0 | 89.43 | 179.69 | 7,456.9 | 1,442.8 | 665.5 | -1,224.3 | 0.50 | 0.30 | -0.39 |
| 9,781.0 | 89.96 | 179.34 | 7,457.4 | 1,353.8 | 666.2 | -1,138.0 | 0.71 | 0.60 | -0.39 |
| 9,871.0 | 90.40 | 179.51 | 7,457.1 | 1,263.8 | 667.1 | -1,050.8 | 0.52 | 0.49 | 0.19 |
| 9,960.0 | 88.81 | 180.39 | 7,457.7 | 1,174.8 | 667.2 | -964.8 | 2.04 | -1.79 | 0.99 |
| 10,049.0 | 89.16 | 180.74 | 7,459.3 | 1,085.9 | 666.3 | -879.0 | 0.56 | 0.39 | 0.39 |
| 10,138.0 | 89.52 | 180.39 | 7,460.3 | 996.9 | 665.4 | -793.2 | 0.56 | 0.40 | -0.39 |
| 10,227.0 | 89.87 | 180.57 | 7,460.8 | 907.9 | 664.7 | -707.3 | 0.44 | 0.39 | 0.20 |
| 10,316.0 | 89.69 | 179.69 | 7,461.1 | 818.9 | 664.5 | -621.4 | 1.01 | -0.20 | -0.99 |
| 10,405.0 | 90.22 | 179.69 | 7,461.2 | 729.9 | 665.0 | -535.2 | 0.60 | 0.60 | 0.00 |
| 10,494.0 | 88.90 | 180.21 | 7,461.9 | 640.9 | 665.1 | -449.2 | 1.59 | -1.48 | 0.58 |
| 10,583.0 | 89.60 | 179.16 | 7,463.1 | 551.9 | 665.5 | -363.0 | 1.42 | 0.79 | -1.18 |
| 10,673.0 | 89.96 | 180.39 | 7,463.4 | 461.9 | 665.9 | -275.9 | 1.42 | 0.40 | 1.37 |
| 10,762.0 | 88.64 | 180.39 | 7,464.5 | 372.9 | 665.3 | -190.1 | 1.48 | -1.48 | 0.00 |
| 10,851.0 | 88.37 | 180.04 | 7,466.8 | 283.9 | 665.0 | -104.2 | 0.50 | -0.30 | -0.39 |
| 10,912.0 | 88.19 | 179.68 | 7,468.6 | 223.0 | 665.1 | -45.2 | 0.66 | -0.29 | -0.60 |
| Kugel 1L -223 TGT | | | | | | | | | |
| 10,940.0 | 88.11 | 179.51 | 7,469.5 | 195.0 | 665.3 | -18.1 | 0.66 | -0.29 | -0.60 |
| 11,029.0 | 88.46 | 179.51 | 7,472.2 | 106.0 | 666.1 | 68.1 | 0.39 | 0.39 | 0.00 |
| 11,118.0 | 88.11 | 179.34 | 7,474.9 | 17.1 | 667.0 | 154.3 | 0.44 | -0.39 | -0.19 |
| 11,207.0 | 89.16 | 179.69 | 7,477.0 | -71.9 | 667.7 | 240.5 | 1.24 | 1.18 | 0.39 |
| 11,296.0 | 89.08 | 178.98 | 7,478.4 | -160.9 | 668.7 | 326.8 | 0.80 | -0.09 | -0.80 |
| 11,386.0 | 88.90 | 178.81 | 7,479.9 | -250.9 | 670.5 | 414.2 | 0.28 | -0.20 | -0.19 |
| 11,475.0 | 90.40 | 179.51 | 7,480.5 | -339.8 | 671.8 | 500.6 | 1.86 | 1.69 | 0.79 |
| 11,564.0 | 90.40 | 179.51 | 7,479.9 | -428.8 | 672.5 | 586.8 | 0.00 | 0.00 | 0.00 |

| | | | |
|------------------|-------------------------------|-------------------------------------|--|
| Company: | Crestone Peak Resources | Local Co-ordinate Reference: | Well Kugel 1L-18H-H267 |
| Project: | DJ BASIN | TVD Reference: | WELL @ 4976.0ft (Ensign 153 RKB - 23') |
| Site: | Kugel Pad Sec.18-T2N-R67W | MD Reference: | WELL @ 4976.0ft (Ensign 153 RKB - 23') |
| Well: | Kugel 1L-18H-H267 | North Reference: | True |
| Wellbore: | Kugel 1L-18H-H267 Wellbore #1 | Survey Calculation Method: | Minimum Curvature |
| Design: | 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) |
| 11,653.0 | 90.92 | 178.98 | 7,478.8 | -517.8 | 673.7 | 673.1 | 0.83 | 0.58 | -0.60 |
| 11,742.0 | 90.04 | 178.28 | 7,478.1 | -606.8 | 675.8 | 759.7 | 1.26 | -0.99 | -0.79 |
| 11,831.0 | 89.25 | 179.34 | 7,478.6 | -695.8 | 677.7 | 846.1 | 1.49 | -0.89 | 1.19 |
| 11,920.0 | 89.16 | 179.16 | 7,479.9 | -784.8 | 678.9 | 932.5 | 0.23 | -0.10 | -0.20 |
| 12,009.0 | 89.87 | 179.16 | 7,480.6 | -873.7 | 680.2 | 1,018.8 | 0.80 | 0.80 | 0.00 |
| 12,030.2 | 89.89 | 179.00 | 7,480.7 | -894.9 | 680.5 | 1,039.4 | 0.78 | 0.10 | -0.78 |
| Kugel 1L 895 TGT | | | | | | | | | |
| 12,099.0 | 89.96 | 178.46 | 7,480.8 | -963.7 | 682.0 | 1,106.3 | 0.78 | 0.10 | -0.78 |
| 12,188.0 | 90.13 | 178.46 | 7,480.7 | -1,052.7 | 684.4 | 1,192.9 | 0.19 | 0.19 | 0.00 |
| 12,277.0 | 90.13 | 179.16 | 7,480.5 | -1,141.7 | 686.3 | 1,279.4 | 0.79 | 0.00 | 0.79 |
| 12,366.0 | 89.78 | 180.04 | 7,480.6 | -1,230.7 | 686.9 | 1,365.5 | 1.06 | -0.39 | 0.99 |
| 12,455.0 | 90.22 | 179.69 | 7,480.6 | -1,319.7 | 687.1 | 1,451.6 | 0.63 | 0.49 | -0.39 |
| 12,544.0 | 89.69 | 180.04 | 7,480.6 | -1,408.7 | 687.3 | 1,537.7 | 0.71 | -0.60 | 0.39 |
| 12,633.0 | 89.96 | 180.39 | 7,480.9 | -1,497.7 | 687.0 | 1,623.7 | 0.50 | 0.30 | 0.39 |
| 12,722.0 | 89.96 | 180.04 | 7,481.0 | -1,586.7 | 686.6 | 1,709.6 | 0.39 | 0.00 | -0.39 |
| 12,811.0 | 90.22 | 179.34 | 7,480.8 | -1,675.7 | 687.1 | 1,795.8 | 0.84 | 0.29 | -0.79 |
| 12,900.0 | 91.28 | 180.39 | 7,479.7 | -1,764.7 | 687.3 | 1,881.8 | 1.68 | 1.19 | 1.18 |
| 12,989.0 | 88.90 | 180.92 | 7,479.5 | -1,853.6 | 686.3 | 1,967.6 | 2.74 | -2.67 | 0.60 |
| 13,078.0 | 89.08 | 180.04 | 7,481.1 | -1,942.6 | 685.6 | 2,053.4 | 1.01 | 0.20 | -0.99 |
| 13,168.0 | 89.16 | 180.04 | 7,482.5 | -2,032.6 | 685.5 | 2,140.4 | 0.09 | 0.09 | 0.00 |
| 13,257.0 | 89.16 | 179.51 | 7,483.8 | -2,121.6 | 685.9 | 2,226.5 | 0.60 | 0.00 | -0.60 |
| 13,346.0 | 89.69 | 179.69 | 7,484.7 | -2,210.6 | 686.5 | 2,312.7 | 0.63 | 0.60 | 0.20 |
| 13,435.0 | 89.96 | 179.86 | 7,484.9 | -2,299.6 | 686.8 | 2,398.8 | 0.36 | 0.30 | 0.19 |
| 13,524.0 | 90.40 | 179.51 | 7,484.7 | -2,388.6 | 687.3 | 2,485.0 | 0.63 | 0.49 | -0.39 |
| 13,614.0 | 90.75 | 179.34 | 7,483.8 | -2,478.6 | 688.2 | 2,572.2 | 0.43 | 0.39 | -0.19 |
| 13,667.0 | 90.92 | 178.81 | 7,483.0 | -2,531.6 | 689.1 | 2,623.6 | 1.05 | 0.32 | -1.00 |
| Last Survey - 13,667' MD | | | | | | | | | |
| 13,732.0 | 90.92 | 178.81 | 7,481.9 | -2,596.5 | 690.4 | 2,686.8 | 0.00 | 0.00 | 0.00 |
| PTB - 466'FSL, 1'FWL, Sec.17 - BHL 460'FSL & 0'FEL, Sec.18 | | | | | | | | | |

| Survey Annotations | | | | |
|---------------------|---------------------|-------------------|------------|------------------------------|
| Measured Depth (ft) | Vertical Depth (ft) | Local Coordinates | | Comment |
| | | +N/-S (ft) | +E/-W (ft) | |
| 8,614.1 | 7,434.3 | 2,519.8 | 646.8 | TPZ - 300'FSL, 7'FEL, SEC.7 |
| 13,667.0 | 7,483.0 | -2,531.6 | 689.1 | Last Survey - 13,667' MD |
| 13,732.0 | 7,481.9 | -2,596.5 | 690.4 | PTB - 466'FSL, 1'FWL, Sec.17 |

Checked By: _____ Approved By: _____ Date: _____