



CRESTONE PEAK
RESOURCES

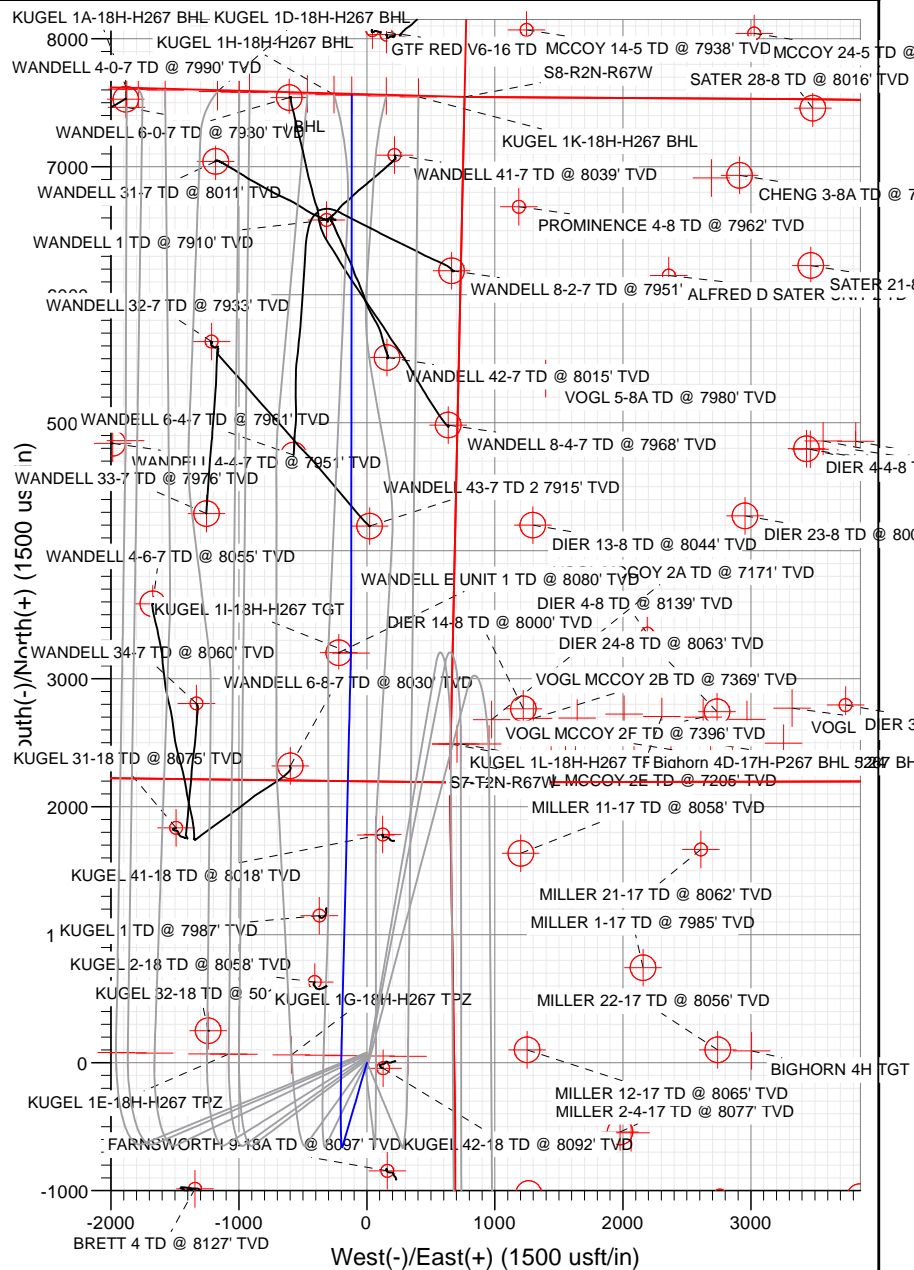
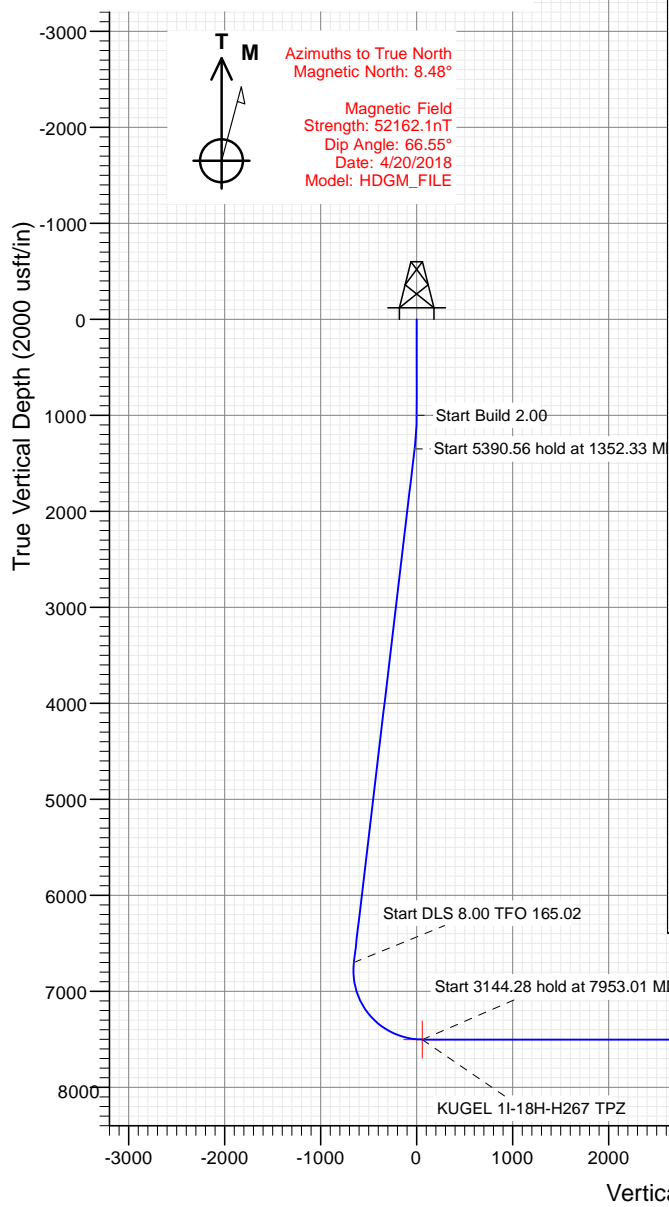
SECTION DETAILS

| Sec | MD | Inc | Azi | TVD | +N/-S | +E/-W | Dleg | TFace | VSec | Target |
|-----|----------|-------|--------|---------|---------|---------|------|--------|---------|-----------------------|
| 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 2 | 1000.00 | 0.00 | 0.00 | 1000.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 3 | 1352.33 | 7.05 | 196.23 | 1351.44 | -20.78 | -6.05 | 2.00 | 196.23 | -20.68 | |
| 4 | 6742.89 | 7.05 | 196.23 | 6701.29 | -655.71 | -190.91 | 0.00 | 0.00 | -652.66 | |
| 5 | 7953.01 | 90.00 | 1.36 | 7502.00 | 55.84 | -199.41 | 8.00 | 165.02 | 58.94 | KUGEL 11-18H-H267 TPZ |
| 6 | 11097.29 | 90.00 | 1.36 | 7502.00 | 3199.24 | -124.75 | 0.00 | 0.00 | 3200.79 | KUGEL 11-18H-H267 TGT |
| 7 | 11161.19 | 90.00 | 0.08 | 7502.00 | 3263.12 | -123.94 | 2.00 | -90.00 | 3264.66 | |
| 8 | 15452.85 | 90.00 | 0.08 | 7502.00 | 7554.78 | -117.74 | 0.00 | 0.00 | 7555.70 | |
| 9 | 15456.99 | 90.00 | 0.00 | 7502.00 | 7558.92 | -117.74 | 2.00 | -90.00 | 7559.84 | KUGEL 11-18H-H267 BHL |

PLAN #3 (6.11)
KUGEL 11-18H-H267
23 KB @ 4976.00usft
Ground Level @ 4953.00
North American Datum 1983
Well KUGEL 11-18H-H267 - Slot KUGEL 11, True North

| Type | Target | No Target (Freehand) | Azimuth | Origin Type | N/S | E/W | From TVD |
|-----------------------|---------|----------------------|---------|-------------|-------------|-----|----------|
| Name | TVD | +N/-S | +E/-W | Latitude | Longitude | | |
| KUGEL 11-18H-H267 BHL | 7502.00 | 7558.92 | -117.74 | 40.160356 | -104.926878 | | |
| KUGEL 11-18H-H267 TGT | 7502.00 | 3199.24 | -124.75 | 40.148388 | -104.926933 | | |
| KUGEL 11-18H-H267 TPZ | 7502.00 | 55.84 | -199.41 | 40.139759 | -104.927170 | | |

Project: DJ BASIN
Site: S18-T2N-R67W (KUGEL)
Well: KUGEL 11-18H-H267
Wellbore: OH
Design: PLAN #3 (6.11)



Cathedral Energy Services

Planning Report

| | | | |
|------------------|-----------------------------|-------------------------------------|--|
| Database: | USA EDM 5000 Multi Users DB | Local Co-ordinate Reference: | Well KUGEL 1I-18H-H267 - Slot KUGEL 1I |
| Company: | Crestone Peak Resources | TVD Reference: | 23' KB @ 4976.00usft |
| Project: | DJ BASIN | MD Reference: | 23' KB @ 4976.00usft |
| Site: | S18-T2N-R67W (KUGEL) | North Reference: | True |
| Well: | KUGEL 1I-18H-H267 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OH | | |
| Design: | PLAN #3 (6.11) | | |

| | | | |
|--------------------|---------------------------|----------------------|----------------|
| 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 | | S18-T2N-R67W (KUGEL) | | | |
|-----------------------|-----------|----------------------|-------------------|-------------------|-------------|
| Site Position: | | Northing: | 1,294,180.28 usft | Latitude: | 40.139495 |
| From: | Lat/Long | Easting: | 3,160,365.72 usft | Longitude: | -104.926402 |
| Position Uncertainty: | 0.00 usft | Slot Radius: | 13-3/16" | Grid Convergence: | 0.37 ° |

| | | | | | | |
|----------------------|-----------------------------------|-----------|---------------------|-------------------|---------------|---------------|
| Well | KUGEL 1I-18H-H267 - Slot KUGEL 1I | | | | | |
| Well Position | +N/-S | 0.00 usft | Northing: | 1,294,220.51 usft | Latitude: | 40.139606 |
| | +E/-W | 0.00 usft | Easting: | 3,160,350.16 usft | Longitude: | -104.926457 |
| Position Uncertainty | | 0.00 usft | Wellhead Elevation: | usft | Ground Level: | 4,953.00 usft |

| | | | | | |
|------------------|-------------------|--------------------|--------------------|------------------|-----------------------|
| Wellbore | OH | | | | |
| Magnetics | Model Name | Sample Date | Declination | Dip Angle | Field Strength |
| | | | (°) | (°) | (nT) |
| | HDGM_FILE | 4/20/2018 | 8.48 | 66.55 | 52,162.10000000 |

| | | | | |
|--------------------------|-------------------------|--------------|----------------------|------------------|
| Design | PLAN #3 (6.11) | | | |
| Audit Notes: | | | | |
| Version: | Phase: | PLAN | Tie On Depth: | 0.00 |
| Vertical Section: | Depth From (TVD) | +N/-S | +E/-W | Direction |
| | (usft) | (usft) | (usft) | (°) |
| | 0.00 | 0.00 | 0.00 | 359.11 |

| 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 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,000.00 | 0.00 | 0.00 | 1,000.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,352.33 | 7.05 | 196.23 | 1,351.44 | -20.78 | -6.05 | 2.00 | 2.00 | 0.00 | 196.23 | |
| 6,742.89 | 7.05 | 196.23 | 6,701.29 | -655.71 | -190.91 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 7,953.01 | 90.00 | 1.36 | 7,502.00 | 55.84 | -199.41 | 8.00 | 6.85 | 13.65 | 165.02 | KUGEL 1I-18H-H267 |
| 11,097.29 | 90.00 | 1.36 | 7,502.00 | 3,199.24 | -124.75 | 0.00 | 0.00 | 0.00 | 0.00 | KUGEL 1I-18H-H267 |
| 11,161.19 | 90.00 | 0.08 | 7,502.00 | 3,263.12 | -123.94 | 2.00 | 0.00 | -2.00 | -90.00 | |
| 15,452.85 | 90.00 | 0.08 | 7,502.00 | 7,554.78 | -117.74 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 15,456.99 | 90.00 | 0.00 | 7,502.00 | 7,558.92 | -117.74 | 2.00 | 0.00 | -2.00 | -90.00 | KUGEL 1I-18H-H267 |

Cathedral Energy Services

Planning Report

| | | | |
|------------------|-----------------------------|-------------------------------------|--|
| Database: | USA EDM 5000 Multi Users DB | Local Co-ordinate Reference: | Well KUGEL 1I-18H-H267 - Slot KUGEL 1I |
| Company: | Crestone Peak Resources | TVD Reference: | 23' KB @ 4976.00usft |
| Project: | DJ BASIN | MD Reference: | 23' KB @ 4976.00usft |
| Site: | S18-T2N-R67W (KUGEL) | North Reference: | True |
| Well: | KUGEL 1I-18H-H267 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OH | | |
| Design: | PLAN #3 (6.11) | | |

Planned Survey

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100u) | Comments / Formations |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|---------------------|-----------------------|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 100.00 | 0.00 | 0.00 | 100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 200.00 | 0.00 | 0.00 | 200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 300.00 | 0.00 | 0.00 | 300.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 400.00 | 0.00 | 0.00 | 400.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 500.00 | 0.00 | 0.00 | 500.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 600.00 | 0.00 | 0.00 | 600.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 700.00 | 0.00 | 0.00 | 700.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 800.00 | 0.00 | 0.00 | 800.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 900.00 | 0.00 | 0.00 | 900.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,000.00 | 0.00 | 0.00 | 1,000.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,100.00 | 2.00 | 196.23 | 1,099.98 | -1.68 | -0.49 | -1.67 | 2.00 | 2.00 | |
| 1,200.00 | 4.00 | 196.23 | 1,199.84 | -6.70 | -1.95 | -6.67 | 2.00 | 2.00 | |
| 1,300.00 | 6.00 | 196.23 | 1,299.45 | -15.07 | -4.39 | -15.00 | 2.00 | 2.00 | |
| 1,352.33 | 7.05 | 196.23 | 1,351.44 | -20.78 | -6.05 | -20.68 | 2.00 | 2.00 | |
| 1,400.00 | 7.05 | 196.23 | 1,398.75 | -26.39 | -7.68 | -26.27 | 0.00 | 0.00 | |
| 1,500.00 | 7.05 | 196.23 | 1,498.00 | -38.17 | -11.11 | -37.99 | 0.00 | 0.00 | |
| 1,600.00 | 7.05 | 196.23 | 1,597.24 | -49.95 | -14.54 | -49.72 | 0.00 | 0.00 | |
| 1,700.00 | 7.05 | 196.23 | 1,696.49 | -61.73 | -17.97 | -61.44 | 0.00 | 0.00 | |
| 1,800.00 | 7.05 | 196.23 | 1,795.73 | -73.51 | -21.40 | -73.16 | 0.00 | 0.00 | |
| 1,900.00 | 7.05 | 196.23 | 1,894.98 | -85.28 | -24.83 | -84.89 | 0.00 | 0.00 | |
| 2,000.00 | 7.05 | 196.23 | 1,994.22 | -97.06 | -28.26 | -96.61 | 0.00 | 0.00 | |
| 2,100.00 | 7.05 | 196.23 | 2,093.47 | -108.84 | -31.69 | -108.33 | 0.00 | 0.00 | |
| 2,200.00 | 7.05 | 196.23 | 2,192.71 | -120.62 | -35.12 | -120.06 | 0.00 | 0.00 | |
| 2,300.00 | 7.05 | 196.23 | 2,291.95 | -132.40 | -38.55 | -131.78 | 0.00 | 0.00 | |
| 2,400.00 | 7.05 | 196.23 | 2,391.20 | -144.18 | -41.98 | -143.51 | 0.00 | 0.00 | |
| 2,500.00 | 7.05 | 196.23 | 2,490.44 | -155.96 | -45.41 | -155.23 | 0.00 | 0.00 | |
| 2,600.00 | 7.05 | 196.23 | 2,589.69 | -167.73 | -48.83 | -166.95 | 0.00 | 0.00 | |
| 2,700.00 | 7.05 | 196.23 | 2,688.93 | -179.51 | -52.26 | -178.68 | 0.00 | 0.00 | |
| 2,800.00 | 7.05 | 196.23 | 2,788.18 | -191.29 | -55.69 | -190.40 | 0.00 | 0.00 | |
| 2,900.00 | 7.05 | 196.23 | 2,887.42 | -203.07 | -59.12 | -202.12 | 0.00 | 0.00 | |
| 3,000.00 | 7.05 | 196.23 | 2,986.67 | -214.85 | -62.55 | -213.85 | 0.00 | 0.00 | |
| 3,100.00 | 7.05 | 196.23 | 3,085.91 | -226.63 | -65.98 | -225.57 | 0.00 | 0.00 | |
| 3,200.00 | 7.05 | 196.23 | 3,185.16 | -238.41 | -69.41 | -237.30 | 0.00 | 0.00 | |
| 3,300.00 | 7.05 | 196.23 | 3,284.40 | -250.18 | -72.84 | -249.02 | 0.00 | 0.00 | |
| 3,400.00 | 7.05 | 196.23 | 3,383.65 | -261.96 | -76.27 | -260.74 | 0.00 | 0.00 | |
| 3,500.00 | 7.05 | 196.23 | 3,482.89 | -273.74 | -79.70 | -272.47 | 0.00 | 0.00 | |
| 3,600.00 | 7.05 | 196.23 | 3,582.14 | -285.52 | -83.13 | -284.19 | 0.00 | 0.00 | |
| 3,700.00 | 7.05 | 196.23 | 3,681.38 | -297.30 | -86.56 | -295.91 | 0.00 | 0.00 | |
| 3,800.00 | 7.05 | 196.23 | 3,780.62 | -309.08 | -89.99 | -307.64 | 0.00 | 0.00 | |
| 3,900.00 | 7.05 | 196.23 | 3,879.87 | -320.86 | -93.42 | -319.36 | 0.00 | 0.00 | |
| 4,000.00 | 7.05 | 196.23 | 3,979.11 | -332.63 | -96.84 | -331.09 | 0.00 | 0.00 | |
| 4,100.00 | 7.05 | 196.23 | 4,078.36 | -344.41 | -100.27 | -342.81 | 0.00 | 0.00 | |
| 4,200.00 | 7.05 | 196.23 | 4,177.60 | -356.19 | -103.70 | -354.53 | 0.00 | 0.00 | |
| 4,300.00 | 7.05 | 196.23 | 4,276.85 | -367.97 | -107.13 | -366.26 | 0.00 | 0.00 | |
| 4,400.00 | 7.05 | 196.23 | 4,376.09 | -379.75 | -110.56 | -377.98 | 0.00 | 0.00 | |
| 4,500.00 | 7.05 | 196.23 | 4,475.34 | -391.53 | -113.99 | -389.70 | 0.00 | 0.00 | |
| 4,600.00 | 7.05 | 196.23 | 4,574.58 | -403.31 | -117.42 | -401.43 | 0.00 | 0.00 | |
| 4,700.00 | 7.05 | 196.23 | 4,673.83 | -415.08 | -120.85 | -413.15 | 0.00 | 0.00 | |
| 4,800.00 | 7.05 | 196.23 | 4,773.07 | -426.86 | -124.28 | -424.88 | 0.00 | 0.00 | |
| 4,900.00 | 7.05 | 196.23 | 4,872.32 | -438.64 | -127.71 | -436.60 | 0.00 | 0.00 | |
| 5,000.00 | 7.05 | 196.23 | 4,971.56 | -450.42 | -131.14 | -448.32 | 0.00 | 0.00 | |

Cathedral Energy Services

Planning Report

| | | | |
|------------------|-----------------------------|-------------------------------------|--|
| Database: | USA EDM 5000 Multi Users DB | Local Co-ordinate Reference: | Well KUGEL 1I-18H-H267 - Slot KUGEL 1I |
| Company: | Crestone Peak Resources | TVD Reference: | 23' KB @ 4976.00usft |
| Project: | DJ BASIN | MD Reference: | 23' KB @ 4976.00usft |
| Site: | S18-T2N-R67W (KUGEL) | North Reference: | True |
| Well: | KUGEL 1I-18H-H267 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OH | | |
| Design: | PLAN #3 (6.11) | | |

| Planned Survey | | | | | | | | | |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|---------------------|-----------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100u) | Comments / Formations |
| 5,100.00 | 7.05 | 196.23 | 5,070.81 | -462.20 | -134.57 | -460.05 | 0.00 | 0.00 | |
| 5,200.00 | 7.05 | 196.23 | 5,170.05 | -473.98 | -138.00 | -471.77 | 0.00 | 0.00 | |
| 5,300.00 | 7.05 | 196.23 | 5,269.29 | -485.76 | -141.42 | -483.49 | 0.00 | 0.00 | |
| 5,400.00 | 7.05 | 196.23 | 5,368.54 | -497.53 | -144.85 | -495.22 | 0.00 | 0.00 | |
| 5,500.00 | 7.05 | 196.23 | 5,467.78 | -509.31 | -148.28 | -506.94 | 0.00 | 0.00 | |
| 5,600.00 | 7.05 | 196.23 | 5,567.03 | -521.09 | -151.71 | -518.67 | 0.00 | 0.00 | |
| 5,700.00 | 7.05 | 196.23 | 5,666.27 | -532.87 | -155.14 | -530.39 | 0.00 | 0.00 | |
| 5,800.00 | 7.05 | 196.23 | 5,765.52 | -544.65 | -158.57 | -542.11 | 0.00 | 0.00 | |
| 5,900.00 | 7.05 | 196.23 | 5,864.76 | -556.43 | -162.00 | -553.84 | 0.00 | 0.00 | |
| 6,000.00 | 7.05 | 196.23 | 5,964.01 | -568.21 | -165.43 | -565.56 | 0.00 | 0.00 | |
| 6,100.00 | 7.05 | 196.23 | 6,063.25 | -579.99 | -168.86 | -577.28 | 0.00 | 0.00 | |
| 6,200.00 | 7.05 | 196.23 | 6,162.50 | -591.76 | -172.29 | -589.01 | 0.00 | 0.00 | |
| 6,300.00 | 7.05 | 196.23 | 6,261.74 | -603.54 | -175.72 | -600.73 | 0.00 | 0.00 | |
| 6,400.00 | 7.05 | 196.23 | 6,360.99 | -615.32 | -179.15 | -612.46 | 0.00 | 0.00 | |
| 6,500.00 | 7.05 | 196.23 | 6,460.23 | -627.10 | -182.58 | -624.18 | 0.00 | 0.00 | |
| 6,600.00 | 7.05 | 196.23 | 6,559.48 | -638.88 | -186.01 | -635.90 | 0.00 | 0.00 | |
| 6,700.00 | 7.05 | 196.23 | 6,658.72 | -650.66 | -189.43 | -647.63 | 0.00 | 0.00 | |
| 6,742.89 | 7.05 | 196.23 | 6,701.29 | -655.71 | -190.91 | -652.66 | 0.00 | 0.00 | |
| 6,800.00 | 2.88 | 220.38 | 6,758.17 | -660.17 | -192.82 | -657.09 | 8.00 | -7.29 | |
| 6,900.00 | 6.04 | 343.91 | 6,858.00 | -657.03 | -195.91 | -653.90 | 8.00 | 3.15 | |
| 7,000.00 | 13.88 | 353.98 | 6,956.42 | -640.02 | -198.63 | -636.85 | 8.00 | 7.84 | |
| 7,100.00 | 21.83 | 356.82 | 7,051.53 | -609.48 | -200.92 | -606.28 | 8.00 | 7.95 | |
| 7,200.00 | 29.81 | 358.19 | 7,141.47 | -566.00 | -202.74 | -562.78 | 8.00 | 7.98 | |
| 7,300.00 | 37.80 | 359.02 | 7,224.50 | -510.43 | -204.06 | -507.19 | 8.00 | 7.99 | |
| 7,400.00 | 45.79 | 359.59 | 7,299.00 | -443.85 | -204.84 | -440.60 | 8.00 | 7.99 | |
| 7,500.00 | 53.78 | 0.03 | 7,363.51 | -367.55 | -205.08 | -364.31 | 8.00 | 7.99 | |
| 7,600.00 | 61.77 | 0.38 | 7,416.79 | -283.02 | -204.76 | -279.80 | 8.00 | 7.99 | |
| 7,700.00 | 69.77 | 0.69 | 7,457.79 | -191.90 | -203.90 | -188.71 | 8.00 | 8.00 | |
| 7,800.00 | 77.77 | 0.97 | 7,485.73 | -95.98 | -202.50 | -92.81 | 8.00 | 8.00 | |
| 7,900.00 | 85.76 | 1.23 | 7,500.04 | 2.89 | -200.61 | 6.01 | 8.00 | 8.00 | |
| 7,953.01 | 90.00 | 1.36 | 7,502.00 | 55.84 | -199.41 | 58.94 | 8.00 | 8.00 | KUGEL 1I-18H-H267 TPZ |
| 8,000.00 | 90.00 | 1.36 | 7,502.00 | 102.82 | -198.30 | 105.89 | 0.00 | 0.00 | |
| 8,100.00 | 90.00 | 1.36 | 7,502.00 | 202.79 | -195.92 | 205.81 | 0.00 | 0.00 | |
| 8,200.00 | 90.00 | 1.36 | 7,502.00 | 302.76 | -193.55 | 305.74 | 0.00 | 0.00 | |
| 8,300.00 | 90.00 | 1.36 | 7,502.00 | 402.73 | -191.17 | 405.66 | 0.00 | 0.00 | |
| 8,400.00 | 90.00 | 1.36 | 7,502.00 | 502.70 | -188.80 | 505.58 | 0.00 | 0.00 | |
| 8,500.00 | 90.00 | 1.36 | 7,502.00 | 602.67 | -186.43 | 605.51 | 0.00 | 0.00 | |
| 8,600.00 | 90.00 | 1.36 | 7,502.00 | 702.65 | -184.05 | 705.43 | 0.00 | 0.00 | |
| 8,700.00 | 90.00 | 1.36 | 7,502.00 | 802.62 | -181.68 | 805.35 | 0.00 | 0.00 | |
| 8,800.00 | 90.00 | 1.36 | 7,502.00 | 902.59 | -179.30 | 905.27 | 0.00 | 0.00 | |
| 8,900.00 | 90.00 | 1.36 | 7,502.00 | 1,002.56 | -176.93 | 1,005.20 | 0.00 | 0.00 | |
| 9,000.00 | 90.00 | 1.36 | 7,502.00 | 1,102.53 | -174.55 | 1,105.12 | 0.00 | 0.00 | |
| 9,100.00 | 90.00 | 1.36 | 7,502.00 | 1,202.51 | -172.18 | 1,205.04 | 0.00 | 0.00 | |
| 9,200.00 | 90.00 | 1.36 | 7,502.00 | 1,302.48 | -169.80 | 1,304.96 | 0.00 | 0.00 | |
| 9,300.00 | 90.00 | 1.36 | 7,502.00 | 1,402.45 | -167.43 | 1,404.89 | 0.00 | 0.00 | |
| 9,400.00 | 90.00 | 1.36 | 7,502.00 | 1,502.42 | -165.05 | 1,504.81 | 0.00 | 0.00 | |
| 9,500.00 | 90.00 | 1.36 | 7,502.00 | 1,602.39 | -162.68 | 1,604.73 | 0.00 | 0.00 | |
| 9,600.00 | 90.00 | 1.36 | 7,502.00 | 1,702.36 | -160.30 | 1,704.65 | 0.00 | 0.00 | |
| 9,700.00 | 90.00 | 1.36 | 7,502.00 | 1,802.34 | -157.93 | 1,804.58 | 0.00 | 0.00 | |
| 9,800.00 | 90.00 | 1.36 | 7,502.00 | 1,902.31 | -155.56 | 1,904.50 | 0.00 | 0.00 | |
| 9,900.00 | 90.00 | 1.36 | 7,502.00 | 2,002.28 | -153.18 | 2,004.42 | 0.00 | 0.00 | |
| 10,000.00 | 90.00 | 1.36 | 7,502.00 | 2,102.25 | -150.81 | 2,104.35 | 0.00 | 0.00 | |

Cathedral Energy Services

Planning Report

| | | | |
|------------------|-----------------------------|-------------------------------------|--|
| Database: | USA EDM 5000 Multi Users DB | Local Co-ordinate Reference: | Well KUGEL 1I-18H-H267 - Slot KUGEL 1I |
| Company: | Crestone Peak Resources | TVD Reference: | 23' KB @ 4976.00usft |
| Project: | DJ BASIN | MD Reference: | 23' KB @ 4976.00usft |
| Site: | S18-T2N-R67W (KUGEL) | North Reference: | True |
| Well: | KUGEL 1I-18H-H267 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OH | | |
| Design: | PLAN #3 (6.11) | | |

Planned Survey

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100u) | Comments / Formations |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|---------------------|-----------------------|
| 10,100.00 | 90.00 | 1.36 | 7,502.00 | 2,202.22 | -148.43 | 2,204.27 | 0.00 | 0.00 | |
| 10,200.00 | 90.00 | 1.36 | 7,502.00 | 2,302.20 | -146.06 | 2,304.19 | 0.00 | 0.00 | |
| 10,300.00 | 90.00 | 1.36 | 7,502.00 | 2,402.17 | -143.68 | 2,404.11 | 0.00 | 0.00 | |
| 10,400.00 | 90.00 | 1.36 | 7,502.00 | 2,502.14 | -141.31 | 2,504.04 | 0.00 | 0.00 | |
| 10,500.00 | 90.00 | 1.36 | 7,502.00 | 2,602.11 | -138.93 | 2,603.96 | 0.00 | 0.00 | |
| 10,600.00 | 90.00 | 1.36 | 7,502.00 | 2,702.08 | -136.56 | 2,703.88 | 0.00 | 0.00 | |
| 10,700.00 | 90.00 | 1.36 | 7,502.00 | 2,802.05 | -134.18 | 2,803.80 | 0.00 | 0.00 | |
| 10,800.00 | 90.00 | 1.36 | 7,502.00 | 2,902.03 | -131.81 | 2,903.73 | 0.00 | 0.00 | |
| 10,900.00 | 90.00 | 1.36 | 7,502.00 | 3,002.00 | -129.43 | 3,003.65 | 0.00 | 0.00 | |
| 11,000.00 | 90.00 | 1.36 | 7,502.00 | 3,101.97 | -127.06 | 3,103.57 | 0.00 | 0.00 | |
| 11,097.29 | 90.00 | 1.36 | 7,502.00 | 3,199.24 | -124.75 | 3,200.79 | 0.00 | 0.00 | KUGEL 1I-18H-H267 TGT |
| 11,100.00 | 90.00 | 1.31 | 7,502.00 | 3,201.94 | -124.69 | 3,203.50 | 2.00 | 0.00 | |
| 11,161.19 | 90.00 | 0.08 | 7,502.00 | 3,263.12 | -123.94 | 3,264.66 | 2.00 | 0.00 | |
| 11,200.00 | 90.00 | 0.08 | 7,502.00 | 3,301.94 | -123.89 | 3,303.47 | 0.00 | 0.00 | |
| 11,300.00 | 90.00 | 0.08 | 7,502.00 | 3,401.94 | -123.74 | 3,403.45 | 0.00 | 0.00 | |
| 11,400.00 | 90.00 | 0.08 | 7,502.00 | 3,501.94 | -123.60 | 3,503.44 | 0.00 | 0.00 | |
| 11,500.00 | 90.00 | 0.08 | 7,502.00 | 3,601.94 | -123.46 | 3,603.42 | 0.00 | 0.00 | |
| 11,600.00 | 90.00 | 0.08 | 7,502.00 | 3,701.94 | -123.31 | 3,703.41 | 0.00 | 0.00 | |
| 11,700.00 | 90.00 | 0.08 | 7,502.00 | 3,801.94 | -123.17 | 3,803.39 | 0.00 | 0.00 | |
| 11,800.00 | 90.00 | 0.08 | 7,502.00 | 3,901.94 | -123.02 | 3,903.38 | 0.00 | 0.00 | |
| 11,900.00 | 90.00 | 0.08 | 7,502.00 | 4,001.94 | -122.88 | 4,003.36 | 0.00 | 0.00 | |
| 12,000.00 | 90.00 | 0.08 | 7,502.00 | 4,101.94 | -122.73 | 4,103.35 | 0.00 | 0.00 | |
| 12,100.00 | 90.00 | 0.08 | 7,502.00 | 4,201.94 | -122.59 | 4,203.33 | 0.00 | 0.00 | |
| 12,200.00 | 90.00 | 0.08 | 7,502.00 | 4,301.93 | -122.44 | 4,303.32 | 0.00 | 0.00 | |
| 12,300.00 | 90.00 | 0.08 | 7,502.00 | 4,401.93 | -122.30 | 4,403.31 | 0.00 | 0.00 | |
| 12,400.00 | 90.00 | 0.08 | 7,502.00 | 4,501.93 | -122.16 | 4,503.29 | 0.00 | 0.00 | |
| 12,500.00 | 90.00 | 0.08 | 7,502.00 | 4,601.93 | -122.01 | 4,603.28 | 0.00 | 0.00 | |
| 12,600.00 | 90.00 | 0.08 | 7,502.00 | 4,701.93 | -121.87 | 4,703.26 | 0.00 | 0.00 | |
| 12,700.00 | 90.00 | 0.08 | 7,502.00 | 4,801.93 | -121.72 | 4,803.25 | 0.00 | 0.00 | |
| 12,800.00 | 90.00 | 0.08 | 7,502.00 | 4,901.93 | -121.58 | 4,903.23 | 0.00 | 0.00 | |
| 12,900.00 | 90.00 | 0.08 | 7,502.00 | 5,001.93 | -121.43 | 5,003.22 | 0.00 | 0.00 | |
| 13,000.00 | 90.00 | 0.08 | 7,502.00 | 5,101.93 | -121.29 | 5,103.20 | 0.00 | 0.00 | |
| 13,100.00 | 90.00 | 0.08 | 7,502.00 | 5,201.93 | -121.14 | 5,203.19 | 0.00 | 0.00 | |
| 13,200.00 | 90.00 | 0.08 | 7,502.00 | 5,301.93 | -121.00 | 5,303.18 | 0.00 | 0.00 | |
| 13,300.00 | 90.00 | 0.08 | 7,502.00 | 5,401.93 | -120.85 | 5,403.16 | 0.00 | 0.00 | |
| 13,400.00 | 90.00 | 0.08 | 7,502.00 | 5,501.93 | -120.71 | 5,503.15 | 0.00 | 0.00 | |
| 13,500.00 | 90.00 | 0.08 | 7,502.00 | 5,601.93 | -120.57 | 5,603.13 | 0.00 | 0.00 | |
| 13,600.00 | 90.00 | 0.08 | 7,502.00 | 5,701.93 | -120.42 | 5,703.12 | 0.00 | 0.00 | |
| 13,700.00 | 90.00 | 0.08 | 7,502.00 | 5,801.93 | -120.28 | 5,803.10 | 0.00 | 0.00 | |
| 13,800.00 | 90.00 | 0.08 | 7,502.00 | 5,901.93 | -120.13 | 5,903.09 | 0.00 | 0.00 | |
| 13,900.00 | 90.00 | 0.08 | 7,502.00 | 6,001.93 | -119.99 | 6,003.07 | 0.00 | 0.00 | |
| 14,000.00 | 90.00 | 0.08 | 7,502.00 | 6,101.93 | -119.84 | 6,103.06 | 0.00 | 0.00 | |
| 14,100.00 | 90.00 | 0.08 | 7,502.00 | 6,201.93 | -119.70 | 6,203.04 | 0.00 | 0.00 | |
| 14,200.00 | 90.00 | 0.08 | 7,502.00 | 6,301.93 | -119.55 | 6,303.03 | 0.00 | 0.00 | |
| 14,300.00 | 90.00 | 0.08 | 7,502.00 | 6,401.93 | -119.41 | 6,403.02 | 0.00 | 0.00 | |
| 14,400.00 | 90.00 | 0.08 | 7,502.00 | 6,501.93 | -119.27 | 6,503.00 | 0.00 | 0.00 | |
| 14,500.00 | 90.00 | 0.08 | 7,502.00 | 6,601.93 | -119.12 | 6,602.99 | 0.00 | 0.00 | |
| 14,600.00 | 90.00 | 0.08 | 7,502.00 | 6,701.93 | -118.98 | 6,702.97 | 0.00 | 0.00 | |
| 14,700.00 | 90.00 | 0.08 | 7,502.00 | 6,801.93 | -118.83 | 6,802.96 | 0.00 | 0.00 | |
| 14,800.00 | 90.00 | 0.08 | 7,502.00 | 6,901.93 | -118.69 | 6,902.94 | 0.00 | 0.00 | |
| 14,900.00 | 90.00 | 0.08 | 7,502.00 | 7,001.93 | -118.54 | 7,002.93 | 0.00 | 0.00 | |
| 15,000.00 | 90.00 | 0.08 | 7,502.00 | 7,101.93 | -118.40 | 7,102.91 | 0.00 | 0.00 | |

Cathedral Energy Services

Planning Report

| | | | |
|------------------|-----------------------------|-------------------------------------|--|
| Database: | USA EDM 5000 Multi Users DB | Local Co-ordinate Reference: | Well KUGEL 1I-18H-H267 - Slot KUGEL 1I |
| Company: | Crestone Peak Resources | TVD Reference: | 23' KB @ 4976.00usft |
| Project: | DJ BASIN | MD Reference: | 23' KB @ 4976.00usft |
| Site: | S18-T2N-R67W (KUGEL) | North Reference: | True |
| Well: | KUGEL 1I-18H-H267 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OH | | |
| Design: | PLAN #3 (6.11) | | |

Planned Survey

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100u) | Comments / Formations |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|---------------------|-----------------------|
| 15,100.00 | 90.00 | 0.08 | 7,502.00 | 7,201.93 | -118.25 | 7,202.90 | 0.00 | 0.00 | |
| 15,200.00 | 90.00 | 0.08 | 7,502.00 | 7,301.93 | -118.11 | 7,302.89 | 0.00 | 0.00 | |
| 15,300.00 | 90.00 | 0.08 | 7,502.00 | 7,401.93 | -117.97 | 7,402.87 | 0.00 | 0.00 | |
| 15,400.00 | 90.00 | 0.08 | 7,502.00 | 7,501.93 | -117.82 | 7,502.86 | 0.00 | 0.00 | |
| 15,452.85 | 90.00 | 0.08 | 7,502.00 | 7,554.78 | -117.74 | 7,555.70 | 0.00 | 0.00 | |
| 15,456.99 | 90.00 | 0.00 | 7,502.00 | 7,558.92 | -117.74 | 7,559.84 | 2.00 | 0.00 | KUGEL 1I-18H-H267 BHL |

Targets

| Target Name - hit/miss target - Shape | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude | Longitude |
|--|---------------|--------------|------------|--------------|--------------|-----------------|----------------|-----------|-------------|
| KUGEL 1I-18H-H267 BF - plan hits target center - Point | 0.00 | 0.00 | 7,502.00 | 7,558.92 | -117.74 | 1,301,778.51 | 3,160,183.53 | 40.160356 | -104.926878 |
| KUGEL 1I-18H-H267 TF - plan hits target center - Point | 0.00 | 0.00 | 7,502.00 | 55.84 | -199.41 | 1,294,275.06 | 3,160,150.39 | 40.139759 | -104.927170 |
| KUGEL 1I-18H-H267 TC - plan hits target center - Point | 0.00 | 0.00 | 7,502.00 | 3,199.24 | -124.75 | 1,297,418.87 | 3,160,204.72 | 40.148388 | -104.926903 |