

Cathedral Energy Services

Planning Report

| | | | |
|------------------|-----------------------------|-------------------------------------|--|
| Database: | USA EDM 5000 Multi Users DB | Local Co-ordinate Reference: | Well Elder 6X-HNB-09-07-65 - Slot Elder 6X-HNB |
| Company: | Nickel Road Operating LLC | TVD Reference: | 20' KB @ 4888.00usft (Original Well Elev) |
| Project: | WELD COUNTY, CO | MD Reference: | 20' KB @ 4888.00usft (Original Well Elev) |
| Site: | S11-T7N-R65W | North Reference: | Grid |
| Well: | Elder 6X-HNB-09-07-65 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OH | | |
| Design: | PLAN #1 | | |

| | | | |
|--------------------|---------------------------|----------------------|----------------|
| Project | WELD COUNTY, CO | | |
| Map System: | US State Plane 1983 | System Datum: | Mean Sea Level |
| Geo Datum: | North American Datum 1983 | | |
| Map Zone: | Colorado Northern Zone | | |

| Site | | S11-T7N-R65W | | | |
|-----------------------|-----------|--------------|-------------------|-------------------|-------------|
| Site Position: | | Northing: | 1,458,088.96 usft | Latitude: | 40.587660 |
| From: | Lat/Long | Easting: | 3,239,351.48 usft | Longitude: | -104.638202 |
| Position Uncertainty: | 0.00 usft | Slot Radius: | 13-3/16" | Grid Convergence: | 0.56 ° |

| | | | | | | |
|----------------------|--|-----------|---------------------|-------------------|---------------|---------------|
| Well | Elder 6X-HNB-09-07-65 - Slot Elder 6X-HNB-09-07-65 SHL | | | | | |
| Well Position | +N/-S | 0.00 usft | Northing: | 1,457,797.81 usft | Latitude: | 40.586864 |
| | +E/-W | 0.00 usft | Easting: | 3,239,224.68 usft | Longitude: | -104.638669 |
| Position Uncertainty | | 0.00 usft | Wellhead Elevation: | usft | Ground Level: | 4,868.00 usft |

| | | | | | |
|------------------|-------------------|--------------------|--------------------|------------------|-----------------------|
| Wellbore | OH | | | | |
| Magnetics | Model Name | Sample Date | Declination | Dip Angle | Field Strength |
| | | | (°) | (°) | (nT) |
| | HDGM | 1/30/2018 | 8.03 | 67.00 | 52,378.70000000 |

| | | | | |
|--------------------------|-------------------------|--------------|----------------------|------------------|
| Design | PLAN #1 | | | |
| 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 | 268.36 |

| | | | | | | | | | | |
|-----------------------|--------------------|----------------|-----------------------|--------------|--------------|--------------------|-------------------|------------------|------------|-----------------------|
| Plan Sections | | | | | | | | | | |
| Measured Depth | Inclination | Azimuth | Vertical Depth | +N/-S | +E/-W | Dogleg Rate | Build Rate | Turn Rate | TFO | Target |
| (usft) | (°) | (°) | (usft) | (usft) | (usft) | (°/100usft) | (°/100usft) | (°/100usft) | (°) | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 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 | 0.00 | |
| 521.07 | 4.42 | 183.40 | 520.85 | -8.51 | -0.51 | 2.00 | 2.00 | 0.00 | 183.40 | |
| 6,352.23 | 4.42 | 183.40 | 6,334.66 | -457.25 | -27.15 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 7,470.54 | 89.63 | 271.22 | 7,046.64 | -496.78 | -739.75 | 8.00 | 7.62 | 7.85 | 87.85 | |
| 17,019.34 | 89.63 | 271.22 | 7,108.00 | -293.94 | -10,286.20 | 0.00 | 0.00 | 0.00 | 0.00 | Elder 6X-HNB-09-07-65 |

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| Site: | S11-T7N-R65W | North Reference: | Grid |
| Well: | Elder 6X-HNB-09-07-65 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OH | | |
| Design: | PLAN #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 (°/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 | 2.00 | 183.40 | 399.98 | -1.74 | -0.10 | 0.15 | 2.00 | 2.00 | |
| 500.00 | 4.00 | 183.40 | 499.84 | -6.97 | -0.41 | 0.61 | 2.00 | 2.00 | |
| 521.07 | 4.42 | 183.40 | 520.85 | -8.51 | -0.51 | 0.75 | 2.00 | 2.00 | |
| 600.00 | 4.42 | 183.40 | 599.55 | -14.58 | -0.87 | 1.28 | 0.00 | 0.00 | |
| 700.00 | 4.42 | 183.40 | 699.25 | -22.28 | -1.32 | 1.96 | 0.00 | 0.00 | |
| 800.00 | 4.42 | 183.40 | 798.95 | -29.98 | -1.78 | 2.64 | 0.00 | 0.00 | |
| 900.00 | 4.42 | 183.40 | 898.65 | -37.67 | -2.24 | 3.31 | 0.00 | 0.00 | |
| 1,000.00 | 4.42 | 183.40 | 998.36 | -45.37 | -2.69 | 3.99 | 0.00 | 0.00 | |
| 1,100.00 | 4.42 | 183.40 | 1,098.06 | -53.06 | -3.15 | 4.66 | 0.00 | 0.00 | |
| 1,200.00 | 4.42 | 183.40 | 1,197.76 | -60.76 | -3.61 | 5.34 | 0.00 | 0.00 | |
| 1,300.00 | 4.42 | 183.40 | 1,297.46 | -68.45 | -4.06 | 6.02 | 0.00 | 0.00 | |
| 1,400.00 | 4.42 | 183.40 | 1,397.17 | -76.15 | -4.52 | 6.69 | 0.00 | 0.00 | |
| 1,500.00 | 4.42 | 183.40 | 1,496.87 | -83.84 | -4.98 | 7.37 | 0.00 | 0.00 | |
| 1,600.00 | 4.42 | 183.40 | 1,596.57 | -91.54 | -5.43 | 8.05 | 0.00 | 0.00 | |
| 1,700.00 | 4.42 | 183.40 | 1,696.27 | -99.23 | -5.89 | 8.72 | 0.00 | 0.00 | |
| 1,800.00 | 4.42 | 183.40 | 1,795.97 | -106.93 | -6.35 | 9.40 | 0.00 | 0.00 | |
| 1,900.00 | 4.42 | 183.40 | 1,895.68 | -114.63 | -6.81 | 10.08 | 0.00 | 0.00 | |
| 2,000.00 | 4.42 | 183.40 | 1,995.38 | -122.32 | -7.26 | 10.75 | 0.00 | 0.00 | |
| 2,100.00 | 4.42 | 183.40 | 2,095.08 | -130.02 | -7.72 | 11.43 | 0.00 | 0.00 | |
| 2,200.00 | 4.42 | 183.40 | 2,194.78 | -137.71 | -8.18 | 12.11 | 0.00 | 0.00 | |
| 2,300.00 | 4.42 | 183.40 | 2,294.49 | -145.41 | -8.63 | 12.78 | 0.00 | 0.00 | |
| 2,400.00 | 4.42 | 183.40 | 2,394.19 | -153.10 | -9.09 | 13.46 | 0.00 | 0.00 | |
| 2,500.00 | 4.42 | 183.40 | 2,493.89 | -160.80 | -9.55 | 14.14 | 0.00 | 0.00 | |
| 2,600.00 | 4.42 | 183.40 | 2,593.59 | -168.49 | -10.00 | 14.81 | 0.00 | 0.00 | |
| 2,700.00 | 4.42 | 183.40 | 2,693.30 | -176.19 | -10.46 | 15.49 | 0.00 | 0.00 | |
| 2,800.00 | 4.42 | 183.40 | 2,793.00 | -183.88 | -10.92 | 16.16 | 0.00 | 0.00 | |
| 2,900.00 | 4.42 | 183.40 | 2,892.70 | -191.58 | -11.37 | 16.84 | 0.00 | 0.00 | |
| 3,000.00 | 4.42 | 183.40 | 2,992.40 | -199.28 | -11.83 | 17.52 | 0.00 | 0.00 | |
| 3,100.00 | 4.42 | 183.40 | 3,092.11 | -206.97 | -12.29 | 18.19 | 0.00 | 0.00 | |
| 3,200.00 | 4.42 | 183.40 | 3,191.81 | -214.67 | -12.74 | 18.87 | 0.00 | 0.00 | |
| 3,300.00 | 4.42 | 183.40 | 3,291.51 | -222.36 | -13.20 | 19.55 | 0.00 | 0.00 | |
| 3,400.00 | 4.42 | 183.40 | 3,391.21 | -230.06 | -13.66 | 20.22 | 0.00 | 0.00 | |
| 3,500.00 | 4.42 | 183.40 | 3,490.92 | -237.75 | -14.11 | 20.90 | 0.00 | 0.00 | |
| 3,600.00 | 4.42 | 183.40 | 3,590.62 | -245.45 | -14.57 | 21.58 | 0.00 | 0.00 | |
| 3,700.00 | 4.42 | 183.40 | 3,690.32 | -253.14 | -15.03 | 22.25 | 0.00 | 0.00 | |
| 3,800.00 | 4.42 | 183.40 | 3,790.02 | -260.84 | -15.49 | 22.93 | 0.00 | 0.00 | |
| 3,900.00 | 4.42 | 183.40 | 3,889.73 | -268.54 | -15.94 | 23.61 | 0.00 | 0.00 | |
| 4,000.00 | 4.42 | 183.40 | 3,989.43 | -276.23 | -16.40 | 24.28 | 0.00 | 0.00 | |
| 4,100.00 | 4.42 | 183.40 | 4,089.13 | -283.93 | -16.86 | 24.96 | 0.00 | 0.00 | |
| 4,200.00 | 4.42 | 183.40 | 4,188.83 | -291.62 | -17.31 | 25.64 | 0.00 | 0.00 | |
| 4,300.00 | 4.42 | 183.40 | 4,288.54 | -299.32 | -17.77 | 26.31 | 0.00 | 0.00 | |
| 4,400.00 | 4.42 | 183.40 | 4,388.24 | -307.01 | -18.23 | 26.99 | 0.00 | 0.00 | |
| 4,500.00 | 4.42 | 183.40 | 4,487.94 | -314.71 | -18.68 | 27.67 | 0.00 | 0.00 | |
| 4,600.00 | 4.42 | 183.40 | 4,587.64 | -322.40 | -19.14 | 28.34 | 0.00 | 0.00 | |
| 4,700.00 | 4.42 | 183.40 | 4,687.34 | -330.10 | -19.60 | 29.02 | 0.00 | 0.00 | |
| 4,800.00 | 4.42 | 183.40 | 4,787.05 | -337.79 | -20.05 | 29.69 | 0.00 | 0.00 | |
| 4,900.00 | 4.42 | 183.40 | 4,886.75 | -345.49 | -20.51 | 30.37 | 0.00 | 0.00 | |
| 5,000.00 | 4.42 | 183.40 | 4,986.45 | -353.19 | -20.97 | 31.05 | 0.00 | 0.00 | |

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| Well: | Elder 6X-HNB-09-07-65 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OH | | |
| Design: | PLAN #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 (°/100u) | Comments / Formations |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|---------------------|---------------------------|
| 5,100.00 | 4.42 | 183.40 | 5,086.15 | -360.88 | -21.42 | 31.72 | 0.00 | 0.00 | |
| 5,200.00 | 4.42 | 183.40 | 5,185.86 | -368.58 | -21.88 | 32.40 | 0.00 | 0.00 | |
| 5,300.00 | 4.42 | 183.40 | 5,285.56 | -376.27 | -22.34 | 33.08 | 0.00 | 0.00 | |
| 5,400.00 | 4.42 | 183.40 | 5,385.26 | -383.97 | -22.80 | 33.75 | 0.00 | 0.00 | |
| 5,500.00 | 4.42 | 183.40 | 5,484.96 | -391.66 | -23.25 | 34.43 | 0.00 | 0.00 | |
| 5,600.00 | 4.42 | 183.40 | 5,584.67 | -399.36 | -23.71 | 35.11 | 0.00 | 0.00 | |
| 5,700.00 | 4.42 | 183.40 | 5,684.37 | -407.05 | -24.17 | 35.78 | 0.00 | 0.00 | |
| 5,800.00 | 4.42 | 183.40 | 5,784.07 | -414.75 | -24.62 | 36.46 | 0.00 | 0.00 | |
| 5,900.00 | 4.42 | 183.40 | 5,883.77 | -422.44 | -25.08 | 37.14 | 0.00 | 0.00 | |
| 6,000.00 | 4.42 | 183.40 | 5,983.48 | -430.14 | -25.54 | 37.81 | 0.00 | 0.00 | |
| 6,100.00 | 4.42 | 183.40 | 6,083.18 | -437.84 | -25.99 | 38.49 | 0.00 | 0.00 | |
| 6,200.00 | 4.42 | 183.40 | 6,182.88 | -445.53 | -26.45 | 39.17 | 0.00 | 0.00 | |
| 6,300.00 | 4.42 | 183.40 | 6,282.58 | -453.23 | -26.91 | 39.84 | 0.00 | 0.00 | |
| 6,352.23 | 4.42 | 183.40 | 6,334.66 | -457.25 | -27.15 | 40.20 | 0.00 | 0.00 | |
| 6,400.00 | 5.95 | 223.39 | 6,382.25 | -460.88 | -28.96 | 42.11 | 8.00 | 3.20 | |
| 6,500.00 | 12.76 | 251.30 | 6,480.90 | -468.20 | -43.00 | 56.36 | 8.00 | 6.82 | |
| 6,600.00 | 20.45 | 259.29 | 6,576.67 | -475.00 | -70.68 | 84.22 | 8.00 | 7.69 | |
| 6,700.00 | 28.31 | 263.00 | 6,667.69 | -481.15 | -111.44 | 125.14 | 8.00 | 7.86 | |
| 6,800.00 | 36.22 | 265.19 | 6,752.18 | -486.53 | -164.50 | 178.33 | 8.00 | 7.92 | |
| 6,900.00 | 44.16 | 266.68 | 6,828.51 | -491.03 | -228.83 | 242.76 | 8.00 | 7.94 | |
| 7,000.00 | 52.12 | 267.80 | 6,895.19 | -494.56 | -303.16 | 317.16 | 8.00 | 7.96 | |
| 7,100.00 | 60.09 | 268.70 | 6,950.91 | -497.07 | -386.06 | 400.10 | 8.00 | 7.97 | |
| 7,200.00 | 68.06 | 269.46 | 6,994.60 | -498.49 | -475.91 | 489.95 | 8.00 | 7.97 | |
| 7,300.00 | 76.03 | 270.14 | 7,025.41 | -498.81 | -570.96 | 584.97 | 8.00 | 7.97 | |
| 7,371.40 | 81.72 | 270.60 | 7,039.18 | -498.35 | -640.99 | 654.96 | 8.00 | 7.98 | Elder 6X-HNB-09-07-65 LPL |
| 7,400.00 | 84.01 | 270.78 | 7,042.73 | -498.00 | -669.36 | 683.31 | 8.00 | 7.98 | |
| 7,470.54 | 89.63 | 271.22 | 7,046.64 | -496.78 | -739.75 | 753.64 | 8.00 | 7.98 | |
| 7,500.00 | 89.63 | 271.22 | 7,046.83 | -496.15 | -769.21 | 783.06 | 0.00 | 0.00 | |
| 7,600.00 | 89.63 | 271.22 | 7,047.47 | -494.03 | -869.18 | 882.94 | 0.00 | 0.00 | |
| 7,700.00 | 89.63 | 271.22 | 7,048.12 | -491.90 | -969.16 | 982.81 | 0.00 | 0.00 | |
| 7,800.00 | 89.63 | 271.22 | 7,048.76 | -489.78 | -1,069.13 | 1,082.69 | 0.00 | 0.00 | |
| 7,900.00 | 89.63 | 271.22 | 7,049.40 | -487.65 | -1,169.11 | 1,182.56 | 0.00 | 0.00 | |
| 8,000.00 | 89.63 | 271.22 | 7,050.04 | -485.53 | -1,269.08 | 1,282.43 | 0.00 | 0.00 | |
| 8,100.00 | 89.63 | 271.22 | 7,050.69 | -483.40 | -1,369.06 | 1,382.31 | 0.00 | 0.00 | |
| 8,200.00 | 89.63 | 271.22 | 7,051.33 | -481.28 | -1,469.03 | 1,482.18 | 0.00 | 0.00 | |
| 8,300.00 | 89.63 | 271.22 | 7,051.97 | -479.16 | -1,569.01 | 1,582.06 | 0.00 | 0.00 | |
| 8,400.00 | 89.63 | 271.22 | 7,052.61 | -477.03 | -1,668.98 | 1,681.93 | 0.00 | 0.00 | |
| 8,500.00 | 89.63 | 271.22 | 7,053.26 | -474.91 | -1,768.96 | 1,781.80 | 0.00 | 0.00 | |
| 8,600.00 | 89.63 | 271.22 | 7,053.90 | -472.78 | -1,868.93 | 1,881.68 | 0.00 | 0.00 | |
| 8,700.00 | 89.63 | 271.22 | 7,054.54 | -470.66 | -1,968.91 | 1,981.55 | 0.00 | 0.00 | |
| 8,800.00 | 89.63 | 271.22 | 7,055.19 | -468.54 | -2,068.89 | 2,081.43 | 0.00 | 0.00 | |
| 8,900.00 | 89.63 | 271.22 | 7,055.83 | -466.41 | -2,168.86 | 2,181.30 | 0.00 | 0.00 | |
| 9,000.00 | 89.63 | 271.22 | 7,056.47 | -464.29 | -2,268.84 | 2,281.17 | 0.00 | 0.00 | |
| 9,100.00 | 89.63 | 271.22 | 7,057.11 | -462.16 | -2,368.81 | 2,381.05 | 0.00 | 0.00 | |
| 9,200.00 | 89.63 | 271.22 | 7,057.76 | -460.04 | -2,468.79 | 2,480.92 | 0.00 | 0.00 | |
| 9,300.00 | 89.63 | 271.22 | 7,058.40 | -457.91 | -2,568.76 | 2,580.79 | 0.00 | 0.00 | |
| 9,400.00 | 89.63 | 271.22 | 7,059.04 | -455.79 | -2,668.74 | 2,680.67 | 0.00 | 0.00 | |
| 9,500.00 | 89.63 | 271.22 | 7,059.68 | -453.67 | -2,768.71 | 2,780.54 | 0.00 | 0.00 | |
| 9,600.00 | 89.63 | 271.22 | 7,060.33 | -451.54 | -2,868.69 | 2,880.42 | 0.00 | 0.00 | |
| 9,700.00 | 89.63 | 271.22 | 7,060.97 | -449.42 | -2,968.66 | 2,980.29 | 0.00 | 0.00 | |
| 9,800.00 | 89.63 | 271.22 | 7,061.61 | -447.29 | -3,068.64 | 3,080.16 | 0.00 | 0.00 | |
| 9,900.00 | 89.63 | 271.22 | 7,062.25 | -445.17 | -3,168.61 | 3,180.04 | 0.00 | 0.00 | |

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| Project: | WELD COUNTY, CO | MD Reference: | 20' KB @ 4888.00usft (Original Well Elev) |
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| Well: | Elder 6X-HNB-09-07-65 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OH | | |
| Design: | PLAN #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 (°/100u) | Comments / Formations |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|---------------------|-----------------------|
| 10,000.00 | 89.63 | 271.22 | 7,062.90 | -443.04 | -3,268.59 | 3,279.91 | 0.00 | 0.00 | |
| 10,100.00 | 89.63 | 271.22 | 7,063.54 | -440.92 | -3,368.57 | 3,379.79 | 0.00 | 0.00 | |
| 10,200.00 | 89.63 | 271.22 | 7,064.18 | -438.80 | -3,468.54 | 3,479.66 | 0.00 | 0.00 | |
| 10,300.00 | 89.63 | 271.22 | 7,064.82 | -436.67 | -3,568.52 | 3,579.53 | 0.00 | 0.00 | |
| 10,400.00 | 89.63 | 271.22 | 7,065.47 | -434.55 | -3,668.49 | 3,679.41 | 0.00 | 0.00 | |
| 10,500.00 | 89.63 | 271.22 | 7,066.11 | -432.42 | -3,768.47 | 3,779.28 | 0.00 | 0.00 | |
| 10,600.00 | 89.63 | 271.22 | 7,066.75 | -430.30 | -3,868.44 | 3,879.16 | 0.00 | 0.00 | |
| 10,700.00 | 89.63 | 271.22 | 7,067.39 | -428.18 | -3,968.42 | 3,979.03 | 0.00 | 0.00 | |
| 10,800.00 | 89.63 | 271.22 | 7,068.04 | -426.05 | -4,068.39 | 4,078.90 | 0.00 | 0.00 | |
| 10,900.00 | 89.63 | 271.22 | 7,068.68 | -423.93 | -4,168.37 | 4,178.78 | 0.00 | 0.00 | |
| 11,000.00 | 89.63 | 271.22 | 7,069.32 | -421.80 | -4,268.34 | 4,278.65 | 0.00 | 0.00 | |
| 11,100.00 | 89.63 | 271.22 | 7,069.96 | -419.68 | -4,368.32 | 4,378.52 | 0.00 | 0.00 | |
| 11,200.00 | 89.63 | 271.22 | 7,070.61 | -417.55 | -4,468.29 | 4,478.40 | 0.00 | 0.00 | |
| 11,300.00 | 89.63 | 271.22 | 7,071.25 | -415.43 | -4,568.27 | 4,578.27 | 0.00 | 0.00 | |
| 11,400.00 | 89.63 | 271.22 | 7,071.89 | -413.31 | -4,668.25 | 4,678.15 | 0.00 | 0.00 | |
| 11,500.00 | 89.63 | 271.22 | 7,072.53 | -411.18 | -4,768.22 | 4,778.02 | 0.00 | 0.00 | |
| 11,600.00 | 89.63 | 271.22 | 7,073.18 | -409.06 | -4,868.20 | 4,877.89 | 0.00 | 0.00 | |
| 11,700.00 | 89.63 | 271.22 | 7,073.82 | -406.93 | -4,968.17 | 4,977.77 | 0.00 | 0.00 | |
| 11,800.00 | 89.63 | 271.22 | 7,074.46 | -404.81 | -5,068.15 | 5,077.64 | 0.00 | 0.00 | |
| 11,900.00 | 89.63 | 271.22 | 7,075.10 | -402.69 | -5,168.12 | 5,177.52 | 0.00 | 0.00 | |
| 12,000.00 | 89.63 | 271.22 | 7,075.75 | -400.56 | -5,268.10 | 5,277.39 | 0.00 | 0.00 | |
| 12,100.00 | 89.63 | 271.22 | 7,076.39 | -398.44 | -5,368.07 | 5,377.26 | 0.00 | 0.00 | |
| 12,200.00 | 89.63 | 271.22 | 7,077.03 | -396.31 | -5,468.05 | 5,477.14 | 0.00 | 0.00 | |
| 12,300.00 | 89.63 | 271.22 | 7,077.68 | -394.19 | -5,568.02 | 5,577.01 | 0.00 | 0.00 | |
| 12,400.00 | 89.63 | 271.22 | 7,078.32 | -392.06 | -5,668.00 | 5,676.89 | 0.00 | 0.00 | |
| 12,500.00 | 89.63 | 271.22 | 7,078.96 | -389.94 | -5,767.97 | 5,776.76 | 0.00 | 0.00 | |
| 12,600.00 | 89.63 | 271.22 | 7,079.60 | -387.82 | -5,867.95 | 5,876.63 | 0.00 | 0.00 | |
| 12,700.00 | 89.63 | 271.22 | 7,080.25 | -385.69 | -5,967.93 | 5,976.51 | 0.00 | 0.00 | |
| 12,800.00 | 89.63 | 271.22 | 7,080.89 | -383.57 | -6,067.90 | 6,076.38 | 0.00 | 0.00 | |
| 12,900.00 | 89.63 | 271.22 | 7,081.53 | -381.44 | -6,167.88 | 6,176.25 | 0.00 | 0.00 | |
| 13,000.00 | 89.63 | 271.22 | 7,082.17 | -379.32 | -6,267.85 | 6,276.13 | 0.00 | 0.00 | |
| 13,100.00 | 89.63 | 271.22 | 7,082.82 | -377.19 | -6,367.83 | 6,376.00 | 0.00 | 0.00 | |
| 13,200.00 | 89.63 | 271.22 | 7,083.46 | -375.07 | -6,467.80 | 6,475.88 | 0.00 | 0.00 | |
| 13,300.00 | 89.63 | 271.22 | 7,084.10 | -372.95 | -6,567.78 | 6,575.75 | 0.00 | 0.00 | |
| 13,400.00 | 89.63 | 271.22 | 7,084.74 | -370.82 | -6,667.75 | 6,675.62 | 0.00 | 0.00 | |
| 13,500.00 | 89.63 | 271.22 | 7,085.39 | -368.70 | -6,767.73 | 6,775.50 | 0.00 | 0.00 | |
| 13,600.00 | 89.63 | 271.22 | 7,086.03 | -366.57 | -6,867.70 | 6,875.37 | 0.00 | 0.00 | |
| 13,700.00 | 89.63 | 271.22 | 7,086.67 | -364.45 | -6,967.68 | 6,975.25 | 0.00 | 0.00 | |
| 13,800.00 | 89.63 | 271.22 | 7,087.31 | -362.33 | -7,067.65 | 7,075.12 | 0.00 | 0.00 | |
| 13,900.00 | 89.63 | 271.22 | 7,087.96 | -360.20 | -7,167.63 | 7,174.99 | 0.00 | 0.00 | |
| 14,000.00 | 89.63 | 271.22 | 7,088.60 | -358.08 | -7,267.61 | 7,274.87 | 0.00 | 0.00 | |
| 14,100.00 | 89.63 | 271.22 | 7,089.24 | -355.95 | -7,367.58 | 7,374.74 | 0.00 | 0.00 | |
| 14,200.00 | 89.63 | 271.22 | 7,089.88 | -353.83 | -7,467.56 | 7,474.62 | 0.00 | 0.00 | |
| 14,300.00 | 89.63 | 271.22 | 7,090.53 | -351.70 | -7,567.53 | 7,574.49 | 0.00 | 0.00 | |
| 14,400.00 | 89.63 | 271.22 | 7,091.17 | -349.58 | -7,667.51 | 7,674.36 | 0.00 | 0.00 | |
| 14,500.00 | 89.63 | 271.22 | 7,091.81 | -347.46 | -7,767.48 | 7,774.24 | 0.00 | 0.00 | |
| 14,600.00 | 89.63 | 271.22 | 7,092.45 | -345.33 | -7,867.46 | 7,874.11 | 0.00 | 0.00 | |
| 14,700.00 | 89.63 | 271.22 | 7,093.10 | -343.21 | -7,967.43 | 7,973.99 | 0.00 | 0.00 | |
| 14,800.00 | 89.63 | 271.22 | 7,093.74 | -341.08 | -8,067.41 | 8,073.86 | 0.00 | 0.00 | |
| 14,900.00 | 89.63 | 271.22 | 7,094.38 | -338.96 | -8,167.38 | 8,173.73 | 0.00 | 0.00 | |
| 15,000.00 | 89.63 | 271.22 | 7,095.02 | -336.83 | -8,267.36 | 8,273.61 | 0.00 | 0.00 | |
| 15,100.00 | 89.63 | 271.22 | 7,095.67 | -334.71 | -8,367.33 | 8,373.48 | 0.00 | 0.00 | |

Cathedral Energy Services

Planning Report

| | | | |
|------------------|-----------------------------|-------------------------------------|--|
| Database: | USA EDM 5000 Multi Users DB | Local Co-ordinate Reference: | Well Elder 6X-HNB-09-07-65 - Slot Elder 6X-HNB |
| Company: | Nickel Road Operating LLC | TVD Reference: | 20' KB @ 4888.00usft (Original Well Elev) |
| Project: | WELD COUNTY, CO | MD Reference: | 20' KB @ 4888.00usft (Original Well Elev) |
| Site: | S11-T7N-R65W | North Reference: | Grid |
| Well: | Elder 6X-HNB-09-07-65 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OH | | |
| Design: | PLAN #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 (°/100u) | Comments / Formations |
| 15,200.00 | 89.63 | 271.22 | 7,096.31 | -332.59 | -8,467.31 | 8,473.35 | 0.00 | 0.00 | |
| 15,300.00 | 89.63 | 271.22 | 7,096.95 | -330.46 | -8,567.28 | 8,573.23 | 0.00 | 0.00 | |
| 15,400.00 | 89.63 | 271.22 | 7,097.59 | -328.34 | -8,667.26 | 8,673.10 | 0.00 | 0.00 | |
| 15,500.00 | 89.63 | 271.22 | 7,098.24 | -326.21 | -8,767.24 | 8,772.98 | 0.00 | 0.00 | |
| 15,600.00 | 89.63 | 271.22 | 7,098.88 | -324.09 | -8,867.21 | 8,872.85 | 0.00 | 0.00 | |
| 15,700.00 | 89.63 | 271.22 | 7,099.52 | -321.97 | -8,967.19 | 8,972.72 | 0.00 | 0.00 | |
| 15,800.00 | 89.63 | 271.22 | 7,100.16 | -319.84 | -9,067.16 | 9,072.60 | 0.00 | 0.00 | |
| 15,900.00 | 89.63 | 271.22 | 7,100.81 | -317.72 | -9,167.14 | 9,172.47 | 0.00 | 0.00 | |
| 16,000.00 | 89.63 | 271.22 | 7,101.45 | -315.59 | -9,267.11 | 9,272.35 | 0.00 | 0.00 | |
| 16,100.00 | 89.63 | 271.22 | 7,102.09 | -313.47 | -9,367.09 | 9,372.22 | 0.00 | 0.00 | |
| 16,200.00 | 89.63 | 271.22 | 7,102.74 | -311.34 | -9,467.06 | 9,472.09 | 0.00 | 0.00 | |
| 16,300.00 | 89.63 | 271.22 | 7,103.38 | -309.22 | -9,567.04 | 9,571.97 | 0.00 | 0.00 | |
| 16,400.00 | 89.63 | 271.22 | 7,104.02 | -307.10 | -9,667.01 | 9,671.84 | 0.00 | 0.00 | |
| 16,500.00 | 89.63 | 271.22 | 7,104.66 | -304.97 | -9,766.99 | 9,771.72 | 0.00 | 0.00 | |
| 16,600.00 | 89.63 | 271.22 | 7,105.31 | -302.85 | -9,866.96 | 9,871.59 | 0.00 | 0.00 | |
| 16,700.00 | 89.63 | 271.22 | 7,105.95 | -300.72 | -9,966.94 | 9,971.46 | 0.00 | 0.00 | |
| 16,800.00 | 89.63 | 271.22 | 7,106.59 | -298.60 | -10,066.92 | 10,071.34 | 0.00 | 0.00 | |
| 16,900.00 | 89.63 | 271.22 | 7,107.23 | -296.47 | -10,166.89 | 10,171.21 | 0.00 | 0.00 | |
| 17,000.00 | 89.63 | 271.22 | 7,107.88 | -294.35 | -10,266.87 | 10,271.08 | 0.00 | 0.00 | |
| 17,019.34 | 89.63 | 271.22 | 7,108.00 | -293.94 | -10,286.20 | 10,290.40 | 0.00 | 0.00 | Elder 6X-HNB-09-07-65 BHL |

| Targets | | | | | | | | | |
|---|---------------|--------------|------------|--------------|--------------|-----------------|----------------|-----------|-------------|
| Target Name | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude | Longitude |
| - hit/miss target | | | | | | | | | |
| - Shape | | | | | | | | | |
| Elder 6X-HNB-09-07-65 | 0.00 | 0.00 | 7,108.00 | -293.94 | -10,286.20 | 1,457,503.87 | 3,228,938.48 | 40.586326 | -104.675712 |
| - plan hits target center | | | | | | | | | |
| - Point | | | | | | | | | |
| Elder 6X-HNB-09-07-65 | 0.00 | 0.00 | 7,046.00 | -498.90 | -639.78 | 1,457,298.91 | 3,238,584.90 | 40.585512 | -104.640990 |
| - plan misses target center by 6.95usft at 7371.40usft MD (7039.18 TVD, -498.35 N, -640.99 E) | | | | | | | | | |
| - Point | | | | | | | | | |