

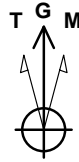
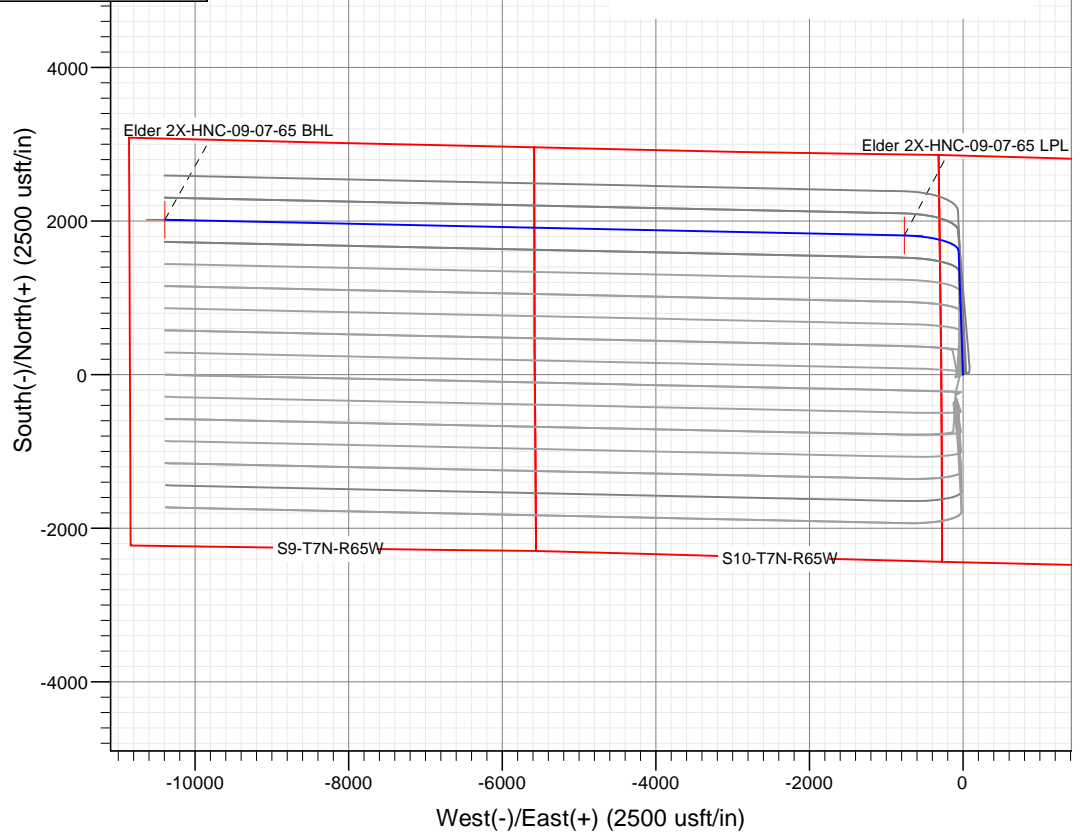
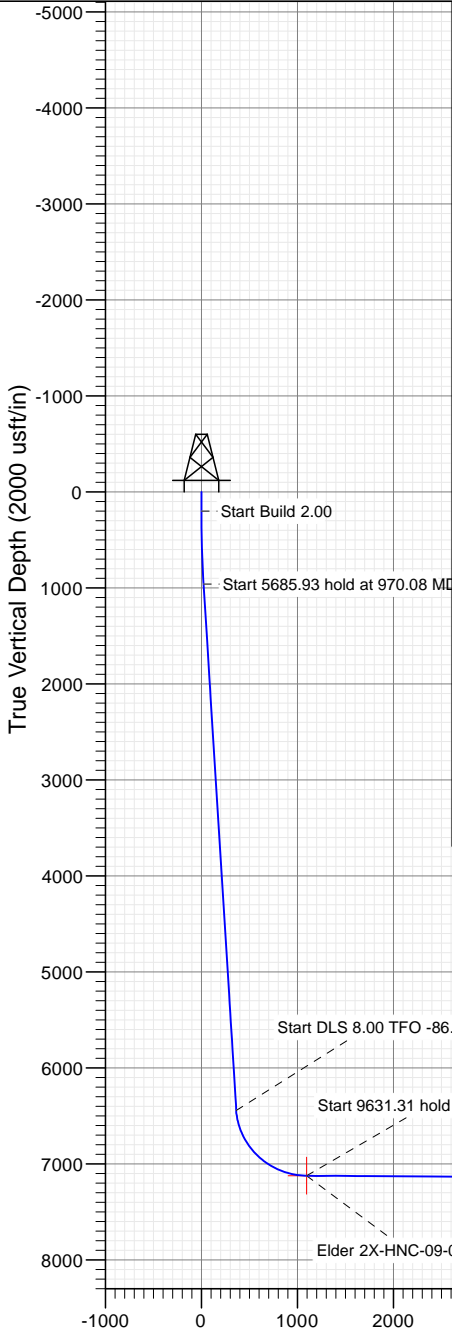
## SECTION DETAILS

| 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   | 200.00   | 0.00  | 0.00   | 200.00  | 0.00    | 0.00     | 0.00 | 0.00   | 0.00     |                           |
| 3   | 970.08   | 15.40 | 357.96 | 960.84  | 102.81  | -3.67    | 2.00 | 357.96 | 23.20    |                           |
| 4   | 6656.01  | 15.40 | 357.96 | 6442.58 | 1611.94 | -57.52   | 0.00 | 0.00   | 363.72   |                           |
| 5   | 7765.59  | 89.62 | 271.22 | 7123.00 | 1812.92 | -764.92  | 8.00 | -86.95 | 1096.46  | Elder 2X-HNC-09-07-65 LPL |
| 6   | 17396.90 | 89.62 | 271.22 | 7187.00 | 2018.20 | 10393.83 | 0.00 | 0.00   | 10587.96 | Elder 2X-HNC-09-07-65 BHL |

PLAN #1  
Elder 2X-HNC-09-07-65  
20' KB @ 4888.00usft (Original Well Elev)  
Ground Level @ 4868.00  
North American Datum, 1983  
Well Elder 2X-HNC-09-07-65 - Slot Elder 2X-HNC-09-07-65 SHL, Grid North

| Type                      | Target               | Azimuth | Origin  | Type      | N/S       | E/W         | From TVD |
|---------------------------|----------------------|---------|---------|-----------|-----------|-------------|----------|
| TD                        | No Target (Freehand) | 280.99  | Slot    |           | 0.00      | 0.00        | 0.00     |
| Name                      |                      | TVD     | +N/-S   | +E/-W     | Latitude  | Longitude   |          |
| Elder 2X-HNC-09-07-65 LPL |                      | 7123.00 | 1812.92 | -764.92   | 40.592629 | -104.638304 |          |
| Elder 2X-HNC-09-07-65 BHL |                      | 7187.00 | 2018.20 | -10393.83 | 40.593443 | -104.637657 |          |

Project: WELD COUNTY, CO  
Site: S11-T7N-R65W  
Well: Elder 2X-HNC-09-07-65  
Wellbore: OH  
Design: PLAN #1



Azimuths to Grid North  
True North: -0.56°  
Magnetic North: 7.48°

Magnetic Field  
Strength: 52378.9snT  
Dip Angle: 67.00°  
Date: 1/30/2018  
Model: HDGM

Vertical Section at 280.99° (2000 usft/in)

## WELL DETAILS: Elder 2X-HNC-09-07-65

|       |       |            |            |         |           |             |
|-------|-------|------------|------------|---------|-----------|-------------|
| +N/-S | +E/-W | Northing   | Easting    | 4868.00 | Latitude  | Longitude   |
| 0.00  | 0.00  | 1458078.70 | 3239323.36 |         | 40.587633 | -104.638304 |



# Cathedral Energy Services

## Planning Report

|  |   |
|--|---|
| <b>Database:</b> USA EDM 5000 Multi Users DB | <b>Local Co-ordinate Reference:</b> Well Elder 2X-HNC-09-07-65 - Slot Elder 2X-HN |
| <b>Company:</b> Nickel Road Operating LLC    | <b>TVD Reference:</b> 20' KB @ 4888.00usft (Original Well Elev)                   |
| <b>Project:</b> WELD COUNTY, CO              | <b>MD Reference:</b> 20' KB @ 4888.00usft (Original Well Elev)                    |
| <b>Site:</b> S11-T7N-R65W                    | <b>North Reference:</b> Grid  |
| <b>Well:</b> Elder 2X-HNC-09-07-65           | <b>Survey Calculation Method:</b> Minimum Curvature                               |
| <b>Wellbore:</b> OH                          |   |
| <b>Design:</b> PLAN #1                       |   |

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

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

|  |                        |                                    |                                    |  |
|--|------------------------|------------------------------------|------------------------------------|--|
| <b>Well</b> Elder 2X-HNC-09-07-65 - Slot Elder 2X-HNC-09-07-65 SHL |                        |                                    |                                    |  |
| <b>Well Position</b>   | <b>+N/-S</b> 0.00 usft | <b>Northing:</b> 1,458,078.70 usft | <b>Latitude:</b> 40.587633         |  |
|  | <b>+E/-W</b> 0.00 usft | <b>Easting:</b> 3,239,323.36 usft  | <b>Longitude:</b> -104.638304      |  |
| <b>Position Uncertainty</b>  | 0.00 usft              | <b>Wellhead Elevation:</b> usft    | <b>Ground Level:</b> 4,868.00 usft |  |

|                    |                   |                    |                    |                  |                       |
|--------------------|-------------------|--------------------|--------------------|------------------|-----------------------|
| <b>Wellbore</b> OH |                   |                    |                    |                  |                       |
| <b>Magnetics</b>   | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination</b> | <b>Dip Angle</b> | <b>Field Strength</b> |
|                    |                   |                    | (°)                | (°)              | (nT)                  |
|                    | HDGM              | 1/30/2018          | 8.03               | 67.00            | 52,378.90000000       |

|                          |                         |                           |              |                  |
|--------------------------|-------------------------|---------------------------|--------------|------------------|
| <b>Design</b> PLAN #1    |                         |                           |              |                  |
| <b>Audit Notes:</b>      |                         |                           |              |                  |
| <b>Version:</b>          | <b>Phase:</b> PLAN      | <b>Tie On Depth:</b> 0.00 |              |                  |
| <b>Vertical Section:</b> | <b>Depth From (TVD)</b> | <b>+N/-S</b>              | <b>+E/-W</b> | <b>Direction</b> |
|                          | (usft)                  | (usft)                    | (usft)       | (°)              |
|                          | 0.00                    | 0.00                      | 0.00         | 280.99           |

| <b>Plan Sections</b>  |                 |             |                       |              |              |                         |                        |                       |         |                     |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|------------------------|-----------------------|---------|---------------------|
| 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    |                     |
| 200.00                | 0.00            | 0.00        | 200.00                | 0.00         | 0.00         | 0.00                    | 0.00                   | 0.00                  | 0.00    |                     |
| 970.08                | 15.40           | 357.96      | 960.84                | 102.81       | -3.67        | 2.00                    | 2.00                   | 0.00                  | 357.96  |                     |
| 6,656.01              | 15.40           | 357.96      | 6,442.58              | 1,611.94     | -57.52       | 0.00                    | 0.00                   | 0.00                  | 0.00    |                     |
| 7,765.59              | 89.62           | 271.22      | 7,123.00              | 1,812.92     | -764.92      | 8.00                    | 6.69                   | -7.82                 | -86.95  | Elder 2X-HNC-09-07- |
| 17,396.90             | 89.62           | 271.22      | 7,187.00              | 2,018.20     | -10,393.83   | 0.00                    | 0.00                   | 0.00                  | 0.00    | Elder 2X-HNC-09-07- |

# Cathedral Energy Services

## Planning Report

|                  |                             |                                     |   |
|------------------|-----------------------------|-------------------------------------|---|
| <b>Database:</b> | USA EDM 5000 Multi Users DB | <b>Local Co-ordinate Reference:</b> | Well Elder 2X-HNC-09-07-65 - Slot Elder 2X-HN |
| <b>Company:</b>  | Nickel Road Operating LLC   | <b>TVD Reference:</b>               | 20' KB @ 4888.00usft (Original Well Elev)     |
| <b>Project:</b>  | WELD COUNTY, CO             | <b>MD Reference:</b>                | 20' KB @ 4888.00usft (Original Well Elev)     |
| <b>Site:</b>     | S11-T7N-R65W                | <b>North Reference:</b>             | Grid  |
| <b>Well:</b>     | Elder 2X-HNC-09-07-65       | <b>Survey Calculation Method:</b>   | Minimum Curvature                             |
| <b>Wellbore:</b> | OH                          |                                     |   |
| <b>Design:</b>   | 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                | 2.00            | 357.96      | 299.98                | 1.74         | -0.06        | 0.39                    | 2.00                    | 2.00                |                       |
| 400.00                | 4.00            | 357.96      | 399.84                | 6.97         | -0.25        | 1.57                    | 2.00                    | 2.00                |                       |
| 500.00                | 6.00            | 357.96      | 499.45                | 15.68        | -0.56        | 3.54                    | 2.00                    | 2.00                |                       |
| 600.00                | 8.00            | 357.96      | 598.70                | 27.86        | -0.99        | 6.29                    | 2.00                    | 2.00                |                       |
| 700.00                | 10.00           | 357.96      | 697.47                | 43.49        | -1.55        | 9.81                    | 2.00                    | 2.00                |                       |
| 800.00                | 12.00           | 357.96      | 795.62                | 62.56        | -2.23        | 14.12                   | 2.00                    | 2.00                |                       |
| 900.00                | 14.00           | 357.96      | 893.06                | 85.04        | -3.03        | 19.19                   | 2.00                    | 2.00                |                       |
| 970.08                | 15.40           | 357.96      | 960.84                | 102.81       | -3.67        | 23.20                   | 2.00                    | 2.00                |                       |
| 1,000.00              | 15.40           | 357.96      | 989.68                | 110.76       | -3.95        | 24.99                   | 0.00                    | 0.00                |                       |
| 1,100.00              | 15.40           | 357.96      | 1,086.09              | 137.30       | -4.90        | 30.98                   | 0.00                    | 0.00                |                       |
| 1,200.00              | 15.40           | 357.96      | 1,182.50              | 163.84       | -5.85        | 36.97                   | 0.00                    | 0.00                |                       |
| 1,300.00              | 15.40           | 357.96      | 1,278.91              | 190.38       | -6.79        | 42.96                   | 0.00                    | 0.00                |                       |
| 1,400.00              | 15.40           | 357.96      | 1,375.32              | 216.92       | -7.74        | 48.95                   | 0.00                    | 0.00                |                       |
| 1,500.00              | 15.40           | 357.96      | 1,471.73              | 243.46       | -8.69        | 54.94                   | 0.00                    | 0.00                |                       |
| 1,600.00              | 15.40           | 357.96      | 1,568.14              | 270.00       | -9.63        | 60.92                   | 0.00                    | 0.00                |                       |
| 1,700.00              | 15.40           | 357.96      | 1,664.55              | 296.55       | -10.58       | 66.91                   | 0.00                    | 0.00                |                       |
| 1,800.00              | 15.40           | 357.96      | 1,760.96              | 323.09       | -11.53       | 72.90                   | 0.00                    | 0.00                |                       |
| 1,900.00              | 15.40           | 357.96      | 1,857.36              | 349.63       | -12.48       | 78.89                   | 0.00                    | 0.00                |                       |
| 2,000.00              | 15.40           | 357.96      | 1,953.77              | 376.17       | -13.42       | 84.88                   | 0.00                    | 0.00                |                       |
| 2,100.00              | 15.40           | 357.96      | 2,050.18              | 402.71       | -14.37       | 90.87                   | 0.00                    | 0.00                |                       |
| 2,200.00              | 15.40           | 357.96      | 2,146.59              | 429.25       | -15.32       | 96.86                   | 0.00                    | 0.00                |                       |
| 2,300.00              | 15.40           | 357.96      | 2,243.00              | 455.79       | -16.26       | 102.85                  | 0.00                    | 0.00                |                       |
| 2,400.00              | 15.40           | 357.96      | 2,339.41              | 482.34       | -17.21       | 108.83                  | 0.00                    | 0.00                |                       |
| 2,500.00              | 15.40           | 357.96      | 2,435.82              | 508.88       | -18.16       | 114.82                  | 0.00                    | 0.00                |                       |
| 2,600.00              | 15.40           | 357.96      | 2,532.23              | 535.42       | -19.10       | 120.81                  | 0.00                    | 0.00                |                       |
| 2,700.00              | 15.40           | 357.96      | 2,628.63              | 561.96       | -20.05       | 126.80                  | 0.00                    | 0.00                |                       |
| 2,800.00              | 15.40           | 357.96      | 2,725.04              | 588.50       | -21.00       | 132.79                  | 0.00                    | 0.00                |                       |
| 2,900.00              | 15.40           | 357.96      | 2,821.45              | 615.04       | -21.95       | 138.78                  | 0.00                    | 0.00                |                       |
| 3,000.00              | 15.40           | 357.96      | 2,917.86              | 641.58       | -22.89       | 144.77                  | 0.00                    | 0.00                |                       |
| 3,100.00              | 15.40           | 357.96      | 3,014.27              | 668.13       | -23.84       | 150.76                  | 0.00                    | 0.00                |                       |
| 3,200.00              | 15.40           | 357.96      | 3,110.68              | 694.67       | -24.79       | 156.75                  | 0.00                    | 0.00                |                       |
| 3,300.00              | 15.40           | 357.96      | 3,207.09              | 721.21       | -25.73       | 162.73                  | 0.00                    | 0.00                |                       |
| 3,400.00              | 15.40           | 357.96      | 3,303.50              | 747.75       | -26.68       | 168.72                  | 0.00                    | 0.00                |                       |
| 3,500.00              | 15.40           | 357.96      | 3,399.90              | 774.29       | -27.63       | 174.71                  | 0.00                    | 0.00                |                       |
| 3,600.00              | 15.40           | 357.96      | 3,496.31              | 800.83       | -28.58       | 180.70                  | 0.00                    | 0.00                |                       |
| 3,700.00              | 15.40           | 357.96      | 3,592.72              | 827.37       | -29.52       | 186.69                  | 0.00                    | 0.00                |                       |
| 3,800.00              | 15.40           | 357.96      | 3,689.13              | 853.92       | -30.47       | 192.68                  | 0.00                    | 0.00                |                       |
| 3,900.00              | 15.40           | 357.96      | 3,785.54              | 880.46       | -31.42       | 198.67                  | 0.00                    | 0.00                |                       |
| 4,000.00              | 15.40           | 357.96      | 3,881.95              | 907.00       | -32.36       | 204.66                  | 0.00                    | 0.00                |                       |
| 4,100.00              | 15.40           | 357.96      | 3,978.36              | 933.54       | -33.31       | 210.64                  | 0.00                    | 0.00                |                       |
| 4,200.00              | 15.40           | 357.96      | 4,074.77              | 960.08       | -34.26       | 216.63                  | 0.00                    | 0.00                |                       |
| 4,300.00              | 15.40           | 357.96      | 4,171.18              | 986.62       | -35.20       | 222.62                  | 0.00                    | 0.00                |                       |
| 4,400.00              | 15.40           | 357.96      | 4,267.58              | 1,013.16     | -36.15       | 228.61                  | 0.00                    | 0.00                |                       |
| 4,500.00              | 15.40           | 357.96      | 4,363.99              | 1,039.71     | -37.10       | 234.60                  | 0.00                    | 0.00                |                       |
| 4,600.00              | 15.40           | 357.96      | 4,460.40              | 1,066.25     | -38.05       | 240.59                  | 0.00                    | 0.00                |                       |
| 4,700.00              | 15.40           | 357.96      | 4,556.81              | 1,092.79     | -38.99       | 246.58                  | 0.00                    | 0.00                |                       |
| 4,800.00              | 15.40           | 357.96      | 4,653.22              | 1,119.33     | -39.94       | 252.57                  | 0.00                    | 0.00                |                       |
| 4,900.00              | 15.40           | 357.96      | 4,749.63              | 1,145.87     | -40.89       | 258.56                  | 0.00                    | 0.00                |                       |
| 5,000.00              | 15.40           | 357.96      | 4,846.04              | 1,172.41     | -41.83       | 264.54                  | 0.00                    | 0.00                |                       |

# Cathedral Energy Services

## Planning Report

|                  |                             |                                     |   |
|------------------|-----------------------------|-------------------------------------|---|
| <b>Database:</b> | USA EDM 5000 Multi Users DB | <b>Local Co-ordinate Reference:</b> | Well Elder 2X-HNC-09-07-65 - Slot Elder 2X-HN |
| <b>Company:</b>  | Nickel Road Operating LLC   | <b>TVD Reference:</b>               | 20' KB @ 4888.00usft (Original Well Elev)     |
| <b>Project:</b>  | WELD COUNTY, CO             | <b>MD Reference:</b>                | 20' KB @ 4888.00usft (Original Well Elev)     |
| <b>Site:</b>     | S11-T7N-R65W                | <b>North Reference:</b>             | Grid  |
| <b>Well:</b>     | Elder 2X-HNC-09-07-65       | <b>Survey Calculation Method:</b>   | Minimum Curvature                             |
| <b>Wellbore:</b> | OH                          |                                     |   |
| <b>Design:</b>   | 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              | 15.40           | 357.96      | 4,942.45              | 1,198.95     | -42.78       | 270.53                  | 0.00                    | 0.00                |                           |
| 5,200.00              | 15.40           | 357.96      | 5,038.85              | 1,225.50     | -43.73       | 276.52                  | 0.00                    | 0.00                |                           |
| 5,300.00              | 15.40           | 357.96      | 5,135.26              | 1,252.04     | -44.68       | 282.51                  | 0.00                    | 0.00                |                           |
| 5,400.00              | 15.40           | 357.96      | 5,231.67              | 1,278.58     | -45.62       | 288.50                  | 0.00                    | 0.00                |                           |
| 5,500.00              | 15.40           | 357.96      | 5,328.08              | 1,305.12     | -46.57       | 294.49                  | 0.00                    | 0.00                |                           |
| 5,600.00              | 15.40           | 357.96      | 5,424.49              | 1,331.66     | -47.52       | 300.48                  | 0.00                    | 0.00                |                           |
| 5,700.00              | 15.40           | 357.96      | 5,520.90              | 1,358.20     | -48.46       | 306.47                  | 0.00                    | 0.00                |                           |
| 5,800.00              | 15.40           | 357.96      | 5,617.31              | 1,384.74     | -49.41       | 312.45                  | 0.00                    | 0.00                |                           |
| 5,900.00              | 15.40           | 357.96      | 5,713.72              | 1,411.29     | -50.36       | 318.44                  | 0.00                    | 0.00                |                           |
| 6,000.00              | 15.40           | 357.96      | 5,810.12              | 1,437.83     | -51.30       | 324.43                  | 0.00                    | 0.00                |                           |
| 6,100.00              | 15.40           | 357.96      | 5,906.53              | 1,464.37     | -52.25       | 330.42                  | 0.00                    | 0.00                |                           |
| 6,200.00              | 15.40           | 357.96      | 6,002.94              | 1,490.91     | -53.20       | 336.41                  | 0.00                    | 0.00                |                           |
| 6,300.00              | 15.40           | 357.96      | 6,099.35              | 1,517.45     | -54.15       | 342.40                  | 0.00                    | 0.00                |                           |
| 6,400.00              | 15.40           | 357.96      | 6,195.76              | 1,543.99     | -55.09       | 348.39                  | 0.00                    | 0.00                |                           |
| 6,500.00              | 15.40           | 357.96      | 6,292.17              | 1,570.53     | -56.04       | 354.38                  | 0.00                    | 0.00                |                           |
| 6,600.00              | 15.40           | 357.96      | 6,388.58              | 1,597.08     | -56.99       | 360.37                  | 0.00                    | 0.00                |                           |
| 6,656.01              | 15.40           | 357.96      | 6,442.58              | 1,611.94     | -57.52       | 363.72                  | 0.00                    | 0.00                |                           |
| 6,700.00              | 15.97           | 345.08      | 6,484.94              | 1,623.63     | -59.28       | 367.68                  | 8.00                    | 1.29                |                           |
| 6,800.00              | 19.64           | 321.56      | 6,580.26              | 1,650.13     | -73.29       | 386.49                  | 8.00                    | 3.66                |                           |
| 6,900.00              | 25.32           | 306.67      | 6,672.70              | 1,676.10     | -100.94      | 418.57                  | 8.00                    | 5.68                |                           |
| 7,000.00              | 31.95           | 297.28      | 6,760.46              | 1,701.04     | -141.67      | 463.31                  | 8.00                    | 6.64                |                           |
| 7,100.00              | 39.06           | 290.93      | 6,841.85              | 1,724.46     | -194.70      | 519.83                  | 8.00                    | 7.11                |                           |
| 7,200.00              | 46.42           | 286.29      | 6,915.26              | 1,745.91     | -259.00      | 587.04                  | 8.00                    | 7.36                |                           |
| 7,300.00              | 53.92           | 282.68      | 6,979.27              | 1,764.97     | -333.31      | 663.62                  | 8.00                    | 7.51                |                           |
| 7,400.00              | 61.52           | 279.70      | 7,032.65              | 1,781.27     | -416.19      | 748.09                  | 8.00                    | 7.59                |                           |
| 7,500.00              | 69.17           | 277.12      | 7,074.34              | 1,794.49     | -506.03      | 838.80                  | 8.00                    | 7.65                |                           |
| 7,600.00              | 76.86           | 274.80      | 7,103.54              | 1,804.37     | -601.07      | 933.99                  | 8.00                    | 7.69                |                           |
| 7,700.00              | 84.56           | 272.62      | 7,119.67              | 1,810.73     | -699.48      | 1,031.80                | 8.00                    | 7.71                |                           |
| 7,765.59              | 89.62           | 271.22      | 7,123.00              | 1,812.92     | -764.92      | 1,096.46                | 8.00                    | 7.71                | Elder 2X-HNC-09-07-65 LPL |
| 7,800.00              | 89.62           | 271.22      | 7,123.23              | 1,813.65     | -799.32      | 1,130.37                | 0.00                    | 0.00                |                           |
| 7,900.00              | 89.62           | 271.22      | 7,123.89              | 1,815.78     | -899.30      | 1,228.92                | 0.00                    | 0.00                |                           |
| 8,000.00              | 89.62           | 271.22      | 7,124.56              | 1,817.92     | -999.27      | 1,327.47                | 0.00                    | 0.00                |                           |
| 8,100.00              | 89.62           | 271.22      | 7,125.22              | 1,820.05     | -1,099.25    | 1,426.02                | 0.00                    | 0.00                |                           |
| 8,200.00              | 89.62           | 271.22      | 7,125.89              | 1,822.18     | -1,199.22    | 1,524.57                | 0.00                    | 0.00                |                           |
| 8,300.00              | 89.62           | 271.22      | 7,126.55              | 1,824.31     | -1,299.20    | 1,623.12                | 0.00                    | 0.00                |                           |
| 8,400.00              | 89.62           | 271.22      | 7,127.22              | 1,826.44     | -1,399.17    | 1,721.66                | 0.00                    | 0.00                |                           |
| 8,500.00              | 89.62           | 271.22      | 7,127.88              | 1,828.57     | -1,499.15    | 1,820.21                | 0.00                    | 0.00                |                           |
| 8,600.00              | 89.62           | 271.22      | 7,128.54              | 1,830.70     | -1,599.12    | 1,918.76                | 0.00                    | 0.00                |                           |
| 8,700.00              | 89.62           | 271.22      | 7,129.21              | 1,832.84     | -1,699.10    | 2,017.31                | 0.00                    | 0.00                |                           |
| 8,800.00              | 89.62           | 271.22      | 7,129.87              | 1,834.97     | -1,799.07    | 2,115.86                | 0.00                    | 0.00                |                           |
| 8,900.00              | 89.62           | 271.22      | 7,130.54              | 1,837.10     | -1,899.05    | 2,214.41                | 0.00                    | 0.00                |                           |
| 9,000.00              | 89.62           | 271.22      | 7,131.20              | 1,839.23     | -1,999.02    | 2,312.95                | 0.00                    | 0.00                |                           |
| 9,100.00              | 89.62           | 271.22      | 7,131.87              | 1,841.36     | -2,099.00    | 2,411.50                | 0.00                    | 0.00                |                           |
| 9,200.00              | 89.62           | 271.22      | 7,132.53              | 1,843.49     | -2,198.98    | 2,510.05                | 0.00                    | 0.00                |                           |
| 9,300.00              | 89.62           | 271.22      | 7,133.20              | 1,845.62     | -2,298.95    | 2,608.60                | 0.00                    | 0.00                |                           |
| 9,400.00              | 89.62           | 271.22      | 7,133.86              | 1,847.76     | -2,398.93    | 2,707.15                | 0.00                    | 0.00                |                           |
| 9,500.00              | 89.62           | 271.22      | 7,134.53              | 1,849.89     | -2,498.90    | 2,805.70                | 0.00                    | 0.00                |                           |
| 9,600.00              | 89.62           | 271.22      | 7,135.19              | 1,852.02     | -2,598.88    | 2,904.24                | 0.00                    | 0.00                |                           |
| 9,700.00              | 89.62           | 271.22      | 7,135.85              | 1,854.15     | -2,698.85    | 3,002.79                | 0.00                    | 0.00                |                           |
| 9,800.00              | 89.62           | 271.22      | 7,136.52              | 1,856.28     | -2,798.83    | 3,101.34                | 0.00                    | 0.00                |                           |
| 9,900.00              | 89.62           | 271.22      | 7,137.18              | 1,858.41     | -2,898.80    | 3,199.89                | 0.00                    | 0.00                |                           |
| 10,000.00             | 89.62           | 271.22      | 7,137.85              | 1,860.54     | -2,998.78    | 3,298.44                | 0.00                    | 0.00                |                           |

# Cathedral Energy Services

## Planning Report

|                  |                             |                                     |   |
|------------------|-----------------------------|-------------------------------------|---|
| <b>Database:</b> | USA EDM 5000 Multi Users DB | <b>Local Co-ordinate Reference:</b> | Well Elder 2X-HNC-09-07-65 - Slot Elder 2X-HN |
| <b>Company:</b>  | Nickel Road Operating LLC   | <b>TVD Reference:</b>               | 20' KB @ 4888.00usft (Original Well Elev)     |
| <b>Project:</b>  | WELD COUNTY, CO             | <b>MD Reference:</b>                | 20' KB @ 4888.00usft (Original Well Elev)     |
| <b>Site:</b>     | S11-T7N-R65W                | <b>North Reference:</b>             | Grid  |
| <b>Well:</b>     | Elder 2X-HNC-09-07-65       | <b>Survey Calculation Method:</b>   | Minimum Curvature                             |
| <b>Wellbore:</b> | OH                          |                                     |   |
| <b>Design:</b>   | 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 |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|---------------------|-----------------------|
| 10,100.00             | 89.62           | 271.22      | 7,138.51              | 1,862.68     | -3,098.75    | 3,396.99                | 0.00                    | 0.00                |                       |
| 10,200.00             | 89.62           | 271.22      | 7,139.18              | 1,864.81     | -3,198.73    | 3,495.53                | 0.00                    | 0.00                |                       |
| 10,300.00             | 89.62           | 271.22      | 7,139.84              | 1,866.94     | -3,298.70    | 3,594.08                | 0.00                    | 0.00                |                       |
| 10,400.00             | 89.62           | 271.22      | 7,140.51              | 1,869.07     | -3,398.68    | 3,692.63                | 0.00                    | 0.00                |                       |
| 10,500.00             | 89.62           | 271.22      | 7,141.17              | 1,871.20     | -3,498.65    | 3,791.18                | 0.00                    | 0.00                |                       |
| 10,600.00             | 89.62           | 271.22      | 7,141.83              | 1,873.33     | -3,598.63    | 3,889.73                | 0.00                    | 0.00                |                       |
| 10,700.00             | 89.62           | 271.22      | 7,142.50              | 1,875.46     | -3,698.60    | 3,988.28                | 0.00                    | 0.00                |                       |
| 10,800.00             | 89.62           | 271.22      | 7,143.16              | 1,877.59     | -3,798.58    | 4,086.82                | 0.00                    | 0.00                |                       |
| 10,900.00             | 89.62           | 271.22      | 7,143.83              | 1,879.73     | -3,898.55    | 4,185.37                | 0.00                    | 0.00                |                       |
| 11,000.00             | 89.62           | 271.22      | 7,144.49              | 1,881.86     | -3,998.53    | 4,283.92                | 0.00                    | 0.00                |                       |
| 11,100.00             | 89.62           | 271.22      | 7,145.16              | 1,883.99     | -4,098.50    | 4,382.47                | 0.00                    | 0.00                |                       |
| 11,200.00             | 89.62           | 271.22      | 7,145.82              | 1,886.12     | -4,198.48    | 4,481.02                | 0.00                    | 0.00                |                       |
| 11,300.00             | 89.62           | 271.22      | 7,146.49              | 1,888.25     | -4,298.45    | 4,579.57                | 0.00                    | 0.00                |                       |
| 11,400.00             | 89.62           | 271.22      | 7,147.15              | 1,890.38     | -4,398.43    | 4,678.11                | 0.00                    | 0.00                |                       |
| 11,500.00             | 89.62           | 271.22      | 7,147.82              | 1,892.51     | -4,498.40    | 4,776.66                | 0.00                    | 0.00                |                       |
| 11,600.00             | 89.62           | 271.22      | 7,148.48              | 1,894.65     | -4,598.38    | 4,875.21                | 0.00                    | 0.00                |                       |
| 11,700.00             | 89.62           | 271.22      | 7,149.14              | 1,896.78     | -4,698.35    | 4,973.76                | 0.00                    | 0.00                |                       |
| 11,800.00             | 89.62           | 271.22      | 7,149.81              | 1,898.91     | -4,798.33    | 5,072.31                | 0.00                    | 0.00                |                       |
| 11,900.00             | 89.62           | 271.22      | 7,150.47              | 1,901.04     | -4,898.30    | 5,170.86                | 0.00                    | 0.00                |                       |
| 12,000.00             | 89.62           | 271.22      | 7,151.14              | 1,903.17     | -4,998.28    | 5,269.40                | 0.00                    | 0.00                |                       |
| 12,100.00             | 89.62           | 271.22      | 7,151.80              | 1,905.30     | -5,098.25    | 5,367.95                | 0.00                    | 0.00                |                       |
| 12,200.00             | 89.62           | 271.22      | 7,152.47              | 1,907.43     | -5,198.23    | 5,466.50                | 0.00                    | 0.00                |                       |
| 12,300.00             | 89.62           | 271.22      | 7,153.13              | 1,909.57     | -5,298.20    | 5,565.05                | 0.00                    | 0.00                |                       |
| 12,400.00             | 89.62           | 271.22      | 7,153.80              | 1,911.70     | -5,398.18    | 5,663.60                | 0.00                    | 0.00                |                       |
| 12,500.00             | 89.62           | 271.22      | 7,154.46              | 1,913.83     | -5,498.15    | 5,762.15                | 0.00                    | 0.00                |                       |
| 12,600.00             | 89.62           | 271.22      | 7,155.12              | 1,915.96     | -5,598.13    | 5,860.69                | 0.00                    | 0.00                |                       |
| 12,700.00             | 89.62           | 271.22      | 7,155.79              | 1,918.09     | -5,698.10    | 5,959.24                | 0.00                    | 0.00                |                       |
| 12,800.00             | 89.62           | 271.22      | 7,156.45              | 1,920.22     | -5,798.08    | 6,057.79                | 0.00                    | 0.00                |                       |
| 12,900.00             | 89.62           | 271.22      | 7,157.12              | 1,922.35     | -5,898.05    | 6,156.34                | 0.00                    | 0.00                |                       |
| 13,000.00             | 89.62           | 271.22      | 7,157.78              | 1,924.49     | -5,998.03    | 6,254.89                | 0.00                    | 0.00                |                       |
| 13,100.00             | 89.62           | 271.22      | 7,158.45              | 1,926.62     | -6,098.00    | 6,353.44                | 0.00                    | 0.00                |                       |
| 13,200.00             | 89.62           | 271.22      | 7,159.11              | 1,928.75     | -6,197.98    | 6,451.98                | 0.00                    | 0.00                |                       |
| 13,300.00             | 89.62           | 271.22      | 7,159.78              | 1,930.88     | -6,297.95    | 6,550.53                | 0.00                    | 0.00                |                       |
| 13,400.00             | 89.62           | 271.22      | 7,160.44              | 1,933.01     | -6,397.93    | 6,649.08                | 0.00                    | 0.00                |                       |
| 13,500.00             | 89.62           | 271.22      | 7,161.11              | 1,935.14     | -6,497.90    | 6,747.63                | 0.00                    | 0.00                |                       |
| 13,600.00             | 89.62           | 271.22      | 7,161.77              | 1,937.27     | -6,597.88    | 6,846.18                | 0.00                    | 0.00                |                       |
| 13,700.00             | 89.62           | 271.22      | 7,162.43              | 1,939.40     | -6,697.85    | 6,944.73                | 0.00                    | 0.00                |                       |
| 13,800.00             | 89.62           | 271.22      | 7,163.10              | 1,941.54     | -6,797.83    | 7,043.27                | 0.00                    | 0.00                |                       |
| 13,900.00             | 89.62           | 271.22      | 7,163.76              | 1,943.67     | -6,897.80    | 7,141.82                | 0.00                    | 0.00                |                       |
| 14,000.00             | 89.62           | 271.22      | 7,164.43              | 1,945.80     | -6,997.78    | 7,240.37                | 0.00                    | 0.00                |                       |
| 14,100.00             | 89.62           | 271.22      | 7,165.09              | 1,947.93     | -7,097.75    | 7,338.92                | 0.00                    | 0.00                |                       |
| 14,200.00             | 89.62           | 271.22      | 7,165.76              | 1,950.06     | -7,197.73    | 7,437.47                | 0.00                    | 0.00                |                       |
| 14,300.00             | 89.62           | 271.22      | 7,166.42              | 1,952.19     | -7,297.70    | 7,536.02                | 0.00                    | 0.00                |                       |
| 14,400.00             | 89.62           | 271.22      | 7,167.09              | 1,954.32     | -7,397.68    | 7,634.56                | 0.00                    | 0.00                |                       |
| 14,500.00             | 89.62           | 271.22      | 7,167.75              | 1,956.46     | -7,497.65    | 7,733.11                | 0.00                    | 0.00                |                       |
| 14,600.00             | 89.62           | 271.22      | 7,168.41              | 1,958.59     | -7,597.63    | 7,831.66                | 0.00                    | 0.00                |                       |
| 14,700.00             | 89.62           | 271.22      | 7,169.08              | 1,960.72     | -7,697.60    | 7,930.21                | 0.00                    | 0.00                |                       |
| 14,800.00             | 89.62           | 271.22      | 7,169.74              | 1,962.85     | -7,797.58    | 8,028.76                | 0.00                    | 0.00                |                       |
| 14,900.00             | 89.62           | 271.22      | 7,170.41              | 1,964.98     | -7,897.55    | 8,127.31                | 0.00                    | 0.00                |                       |
| 15,000.00             | 89.62           | 271.22      | 7,171.07              | 1,967.11     | -7,997.53    | 8,225.85                | 0.00                    | 0.00                |                       |
| 15,100.00             | 89.62           | 271.22      | 7,171.74              | 1,969.24     | -8,097.50    | 8,324.40                | 0.00                    | 0.00                |                       |
| 15,200.00             | 89.62           | 271.22      | 7,172.40              | 1,971.38     | -8,197.48    | 8,422.95                | 0.00                    | 0.00                |                       |

# Cathedral Energy Services

## Planning Report

|                  |                             |                                     |   |
|------------------|-----------------------------|-------------------------------------|---|
| <b>Database:</b> | USA EDM 5000 Multi Users DB | <b>Local Co-ordinate Reference:</b> | Well Elder 2X-HNC-09-07-65 - Slot Elder 2X-HN |
| <b>Company:</b>  | Nickel Road Operating LLC   | <b>TVD Reference:</b>               | 20' KB @ 4888.00usft (Original Well Elev)     |
| <b>Project:</b>  | WELD COUNTY, CO             | <b>MD Reference:</b>                | 20' KB @ 4888.00usft (Original Well Elev)     |
| <b>Site:</b>     | S11-T7N-R65W                | <b>North Reference:</b>             | Grid  |
| <b>Well:</b>     | Elder 2X-HNC-09-07-65       | <b>Survey Calculation Method:</b>   | Minimum Curvature                             |
| <b>Wellbore:</b> | OH                          |                                     |   |
| <b>Design:</b>   | 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     |
| 15,300.00             | 89.62           | 271.22      | 7,173.07              | 1,973.51     | -8,297.45    | 8,521.50                | 0.00                    | 0.00                |                           |
| 15,400.00             | 89.62           | 271.22      | 7,173.73              | 1,975.64     | -8,397.43    | 8,620.05                | 0.00                    | 0.00                |                           |
| 15,500.00             | 89.62           | 271.22      | 7,174.40              | 1,977.77     | -8,497.40    | 8,718.60                | 0.00                    | 0.00                |                           |
| 15,600.00             | 89.62           | 271.22      | 7,175.06              | 1,979.90     | -8,597.38    | 8,817.14                | 0.00                    | 0.00                |                           |
| 15,700.00             | 89.62           | 271.22      | 7,175.72              | 1,982.03     | -8,697.36    | 8,915.69                | 0.00                    | 0.00                |                           |
| 15,800.00             | 89.62           | 271.22      | 7,176.39              | 1,984.16     | -8,797.33    | 9,014.24                | 0.00                    | 0.00                |                           |
| 15,900.00             | 89.62           | 271.22      | 7,177.05              | 1,986.30     | -8,897.31    | 9,112.79                | 0.00                    | 0.00                |                           |
| 16,000.00             | 89.62           | 271.22      | 7,177.72              | 1,988.43     | -8,997.28    | 9,211.34                | 0.00                    | 0.00                |                           |
| 16,100.00             | 89.62           | 271.22      | 7,178.38              | 1,990.56     | -9,097.26    | 9,309.89                | 0.00                    | 0.00                |                           |
| 16,200.00             | 89.62           | 271.22      | 7,179.05              | 1,992.69     | -9,197.23    | 9,408.43                | 0.00                    | 0.00                |                           |
| 16,300.00             | 89.62           | 271.22      | 7,179.71              | 1,994.82     | -9,297.21    | 9,506.98                | 0.00                    | 0.00                |                           |
| 16,400.00             | 89.62           | 271.22      | 7,180.38              | 1,996.95     | -9,397.18    | 9,605.53                | 0.00                    | 0.00                |                           |
| 16,500.00             | 89.62           | 271.22      | 7,181.04              | 1,999.08     | -9,497.16    | 9,704.08                | 0.00                    | 0.00                |                           |
| 16,600.00             | 89.62           | 271.22      | 7,181.70              | 2,001.22     | -9,597.13    | 9,802.63                | 0.00                    | 0.00                |                           |
| 16,700.00             | 89.62           | 271.22      | 7,182.37              | 2,003.35     | -9,697.11    | 9,901.18                | 0.00                    | 0.00                |                           |
| 16,800.00             | 89.62           | 271.22      | 7,183.03              | 2,005.48     | -9,797.08    | 9,999.72                | 0.00                    | 0.00                |                           |
| 16,900.00             | 89.62           | 271.22      | 7,183.70              | 2,007.61     | -9,897.06    | 10,098.27               | 0.00                    | 0.00                |                           |
| 17,000.00             | 89.62           | 271.22      | 7,184.36              | 2,009.74     | -9,997.03    | 10,196.82               | 0.00                    | 0.00                |                           |
| 17,100.00             | 89.62           | 271.22      | 7,185.03              | 2,011.87     | -10,097.01   | 10,295.37               | 0.00                    | 0.00                |                           |
| 17,200.00             | 89.62           | 271.22      | 7,185.69              | 2,014.00     | -10,196.98   | 10,393.92               | 0.00                    | 0.00                |                           |
| 17,300.00             | 89.62           | 271.22      | 7,186.36              | 2,016.13     | -10,296.96   | 10,492.47               | 0.00                    | 0.00                |                           |
| 17,396.90             | 89.62           | 271.22      | 7,187.00              | 2,018.20     | -10,393.83   | 10,587.96               | 0.00                    | 0.00                | Elder 2X-HNC-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   |
| Elder 2X-HNC-09-07-65<br>- hit/miss target<br>- Shape         | 0.00          | 0.00         | 7,123.00   | 1,812.92     | -764.92      | 1,459,891.62    | 3,238,558.44   | 40.592629 | -104.640994 |
| - plan hits target center<br>- Point                          |               |              |            |              |              |                 |                |           |             |
| Elder 2X-HNC-09-07-65<br>- plan hits target center<br>- Point | 0.00          | 0.00         | 7,187.00   | 2,018.20     | -10,393.83   | 1,460,096.90    | 3,228,929.53   | 40.593443 | -104.675657 |