

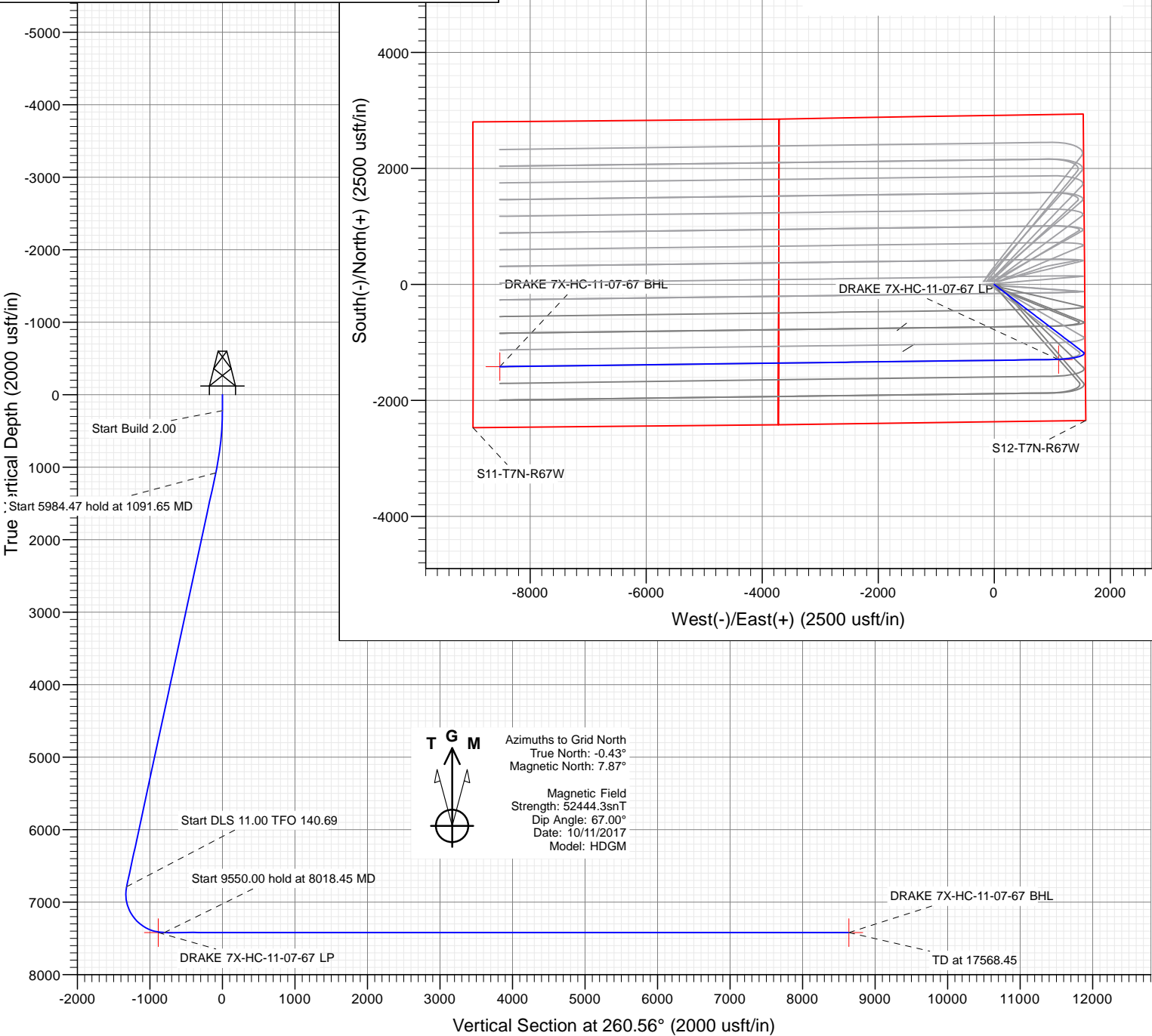
Nickel Road Operating LLC

SECTION DETAILS

| Sec | MD | Inc | Azi | TVD | +N/-S | +E/-W | Dleg | TFace | VSect | Target |
|-----|----------|-------|--------|---------|----------|----------|-------|--------|----------|--------------------------|
| 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 2 | 220.00 | 0.00 | 0.00 | 220.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 3 | 1091.65 | 17.43 | 127.26 | 1078.26 | -79.66 | 104.74 | 2.00 | 127.26 | -90.25 | |
| 4 | 7076.12 | 17.43 | 127.26 | 6787.86 | -1165.01 | 1531.78 | 0.00 | 0.00 | -1319.93 | |
| 5 | 8018.45 | 90.00 | 269.26 | 7420.00 | -1293.74 | 1027.26 | 11.00 | 140.69 | -801.12 | |
| 6 | 17568.45 | 90.00 | 269.26 | 7420.00 | -1417.11 | -8521.95 | 0.00 | 0.00 | 8638.97 | DRAKE 7X-HC-11-07-67 BHL |

| | | | | | | | | |
|---|--------------------------------|-------------------|----------------|-------------|-------------|------------------|--|--|
| PLAN #1 DRAKE 7X-HC-11-07-67 20' KB @ 5220.00usft Ground Level @ 5200.00 North American Datum 1983 Well DRAKE 7X-HC-11-07-67, Grid North | | | | | | | | |
| Type TD | Target No Target (Freehand) | Azimuth 260.56 | Origin Slot | N/S 0.00 | E/W 0.00 | From TVD 0.00 | | |
| Name | | TVD | +N/-S | +E/-W | Latitude | Longitude | | |
| DRAKE 7X-HC-11-07-67 BHL | | 7420.00 | -1417.11 | -8521.95 | 40.584315 | -104.83461 | | |
| DRAKE 7X-HC-11-07-67 LP | | 7420.00 | -1292.68 | 1109.31 | 40.584463 | -104.833641 | | |

Project: WELD COUNTY, CO
Site: S12-T7N-R67W
Well: DRAKE 7X-HC-11-07-67
Wellbore: OH
Design: PLAN #1



WELL DETAILS: DRAKE 7X-HC-11-07-67

| | | | | | | |
|-------|-------|------------|------------|---------|-----------|-------------|
| +N/-S | +E/-W | Northing | Easting | 5200.00 | Latitude | Longitude |
| 0.00 | 0.00 | 1457749.63 | 3184021.83 | | 40.588034 | -104.837420 |

CATHEDRAL



Cathedral Energy Services

Planning Report

| | | | |
|------------------|-----------------------------|-------------------------------------|---------------------------|
| Database: | USA EDM 5000 Multi Users DB | Local Co-ordinate Reference: | Well DRAKE 7X-HC-11-07-67 |
| Company: | Nickel Road Operating LLC | TVD Reference: | 20' KB @ 5220.00usft |
| Project: | WELD COUNTY, CO | MD Reference: | 20' KB @ 5220.00usft |
| Site: | S12-T7N-R67W | North Reference: | Grid |
| Well: | DRAKE 7X-HC-11-07-67 | 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 | | S12-T7N-R67W | | | |
|-----------------------|-----------|--------------|-------------------|-------------------|-------------|
| Site Position: | | Northing: | 1,457,799.97 usft | Latitude: | 40.588176 |
| From: | Lat/Long | Easting: | 3,183,834.54 usft | Longitude: | -104.838093 |
| Position Uncertainty: | 0.00 usft | Slot Radius: | 13-3/16 " | Grid Convergence: | 0.43 ° |

| | | | | | | |
|----------------------|----------------------|-----------|---------------------|-------------------|---------------|---------------|
| Well | DRAKE 7X-HC-11-07-67 | | | | | |
| Well Position | +N/-S | 0.00 usft | Northing: | 1,457,749.63 usft | Latitude: | 40.588034 |
| | +E/-W | 0.00 usft | Easting: | 3,184,021.83 usft | Longitude: | -104.837420 |
| Position Uncertainty | | 0.00 usft | Wellhead Elevation: | usft | Ground Level: | 5,200.00 usft |

| | | | | | |
|------------------|-------------------|--------------------|--------------------|------------------|-----------------------|
| Wellbore | OH | | | | |
| Magnetics | Model Name | Sample Date | Declination | Dip Angle | Field Strength |
| | | | (°) | (°) | (nT) |
| | HDGM | 10/11/2017 | 8.30 | 67.00 | 52,444.30000000 |

| | | | | |
|--------------------------|-------------------------|--------------|----------------------|------------------|
| 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 | 260.56 |

| | | | | | | | | | | |
|-----------------------|--------------------|----------------|-----------------------|--------------|--------------|--------------------|-------------------|------------------|------------|-------------------|
| 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 | |
| 220.00 | 0.00 | 0.00 | 220.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,091.65 | 17.43 | 127.26 | 1,078.26 | -79.66 | 104.74 | 2.00 | 2.00 | 0.00 | 127.26 | |
| 7,076.12 | 17.43 | 127.26 | 6,787.86 | -1,165.01 | 1,531.78 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 8,018.45 | 90.00 | 269.26 | 7,420.00 | -1,293.74 | 1,027.26 | 11.00 | 7.70 | 15.07 | 140.69 | |
| 17,568.45 | 90.00 | 269.26 | 7,420.00 | -1,417.11 | -8,521.95 | 0.00 | 0.00 | 0.00 | 0.00 | DRAKE 7X-HC-11-07 |

Cathedral Energy Services

Planning Report

| | | | |
|------------------|-----------------------------|-------------------------------------|---------------------------|
| Database: | USA EDM 5000 Multi Users DB | Local Co-ordinate Reference: | Well DRAKE 7X-HC-11-07-67 |
| Company: | Nickel Road Operating LLC | TVD Reference: | 20' KB @ 5220.00usft |
| Project: | WELD COUNTY, CO | MD Reference: | 20' KB @ 5220.00usft |
| Site: | S12-T7N-R67W | North Reference: | Grid |
| Well: | DRAKE 7X-HC-11-07-67 | 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 | |
| 220.00 | 0.00 | 0.00 | 220.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 300.00 | 1.60 | 127.26 | 299.99 | -0.68 | 0.89 | -0.77 | 2.00 | 2.00 | |
| 400.00 | 3.60 | 127.26 | 399.88 | -3.42 | 4.50 | -3.88 | 2.00 | 2.00 | |
| 500.00 | 5.60 | 127.26 | 499.55 | -8.28 | 10.88 | -9.38 | 2.00 | 2.00 | |
| 600.00 | 7.60 | 127.26 | 598.89 | -15.23 | 20.03 | -17.26 | 2.00 | 2.00 | |
| 700.00 | 9.60 | 127.26 | 697.76 | -24.29 | 31.93 | -27.52 | 2.00 | 2.00 | |
| 800.00 | 11.60 | 127.26 | 796.05 | -35.42 | 46.57 | -40.13 | 2.00 | 2.00 | |
| 900.00 | 13.60 | 127.26 | 893.63 | -48.63 | 63.94 | -55.09 | 2.00 | 2.00 | |
| 1,000.00 | 15.60 | 127.26 | 990.40 | -63.89 | 84.00 | -72.38 | 2.00 | 2.00 | |
| 1,091.65 | 17.43 | 127.26 | 1,078.26 | -79.66 | 104.74 | -90.25 | 2.00 | 2.00 | |
| 1,100.00 | 17.43 | 127.26 | 1,086.23 | -81.17 | 106.73 | -91.97 | 0.00 | 0.00 | |
| 1,200.00 | 17.43 | 127.26 | 1,181.64 | -99.31 | 130.57 | -112.51 | 0.00 | 0.00 | |
| 1,300.00 | 17.43 | 127.26 | 1,277.04 | -117.44 | 154.42 | -133.06 | 0.00 | 0.00 | |
| 1,400.00 | 17.43 | 127.26 | 1,372.45 | -135.58 | 178.26 | -153.61 | 0.00 | 0.00 | |
| 1,500.00 | 17.43 | 127.26 | 1,467.86 | -153.72 | 202.11 | -174.16 | 0.00 | 0.00 | |
| 1,600.00 | 17.43 | 127.26 | 1,563.26 | -171.85 | 225.96 | -194.70 | 0.00 | 0.00 | |
| 1,700.00 | 17.43 | 127.26 | 1,658.67 | -189.99 | 249.80 | -215.25 | 0.00 | 0.00 | |
| 1,800.00 | 17.43 | 127.26 | 1,754.08 | -208.13 | 273.65 | -235.80 | 0.00 | 0.00 | |
| 1,900.00 | 17.43 | 127.26 | 1,849.48 | -226.26 | 297.49 | -256.35 | 0.00 | 0.00 | |
| 2,000.00 | 17.43 | 127.26 | 1,944.89 | -244.40 | 321.34 | -276.90 | 0.00 | 0.00 | |
| 2,100.00 | 17.43 | 127.26 | 2,040.30 | -262.53 | 345.18 | -297.44 | 0.00 | 0.00 | |
| 2,200.00 | 17.43 | 127.26 | 2,135.70 | -280.67 | 369.03 | -317.99 | 0.00 | 0.00 | |
| 2,300.00 | 17.43 | 127.26 | 2,231.11 | -298.81 | 392.88 | -338.54 | 0.00 | 0.00 | |
| 2,400.00 | 17.43 | 127.26 | 2,326.52 | -316.94 | 416.72 | -359.09 | 0.00 | 0.00 | |
| 2,500.00 | 17.43 | 127.26 | 2,421.92 | -335.08 | 440.57 | -379.63 | 0.00 | 0.00 | |
| 2,600.00 | 17.43 | 127.26 | 2,517.33 | -353.21 | 464.41 | -400.18 | 0.00 | 0.00 | |
| 2,700.00 | 17.43 | 127.26 | 2,612.74 | -371.35 | 488.26 | -420.73 | 0.00 | 0.00 | |
| 2,800.00 | 17.43 | 127.26 | 2,708.15 | -389.49 | 512.10 | -441.28 | 0.00 | 0.00 | |
| 2,900.00 | 17.43 | 127.26 | 2,803.55 | -407.62 | 535.95 | -461.83 | 0.00 | 0.00 | |
| 3,000.00 | 17.43 | 127.26 | 2,898.96 | -425.76 | 559.80 | -482.37 | 0.00 | 0.00 | |
| 3,100.00 | 17.43 | 127.26 | 2,994.37 | -443.90 | 583.64 | -502.92 | 0.00 | 0.00 | |
| 3,200.00 | 17.43 | 127.26 | 3,089.77 | -462.03 | 607.49 | -523.47 | 0.00 | 0.00 | |
| 3,300.00 | 17.43 | 127.26 | 3,185.18 | -480.17 | 631.33 | -544.02 | 0.00 | 0.00 | |
| 3,400.00 | 17.43 | 127.26 | 3,280.59 | -498.30 | 655.18 | -564.56 | 0.00 | 0.00 | |
| 3,500.00 | 17.43 | 127.26 | 3,375.99 | -516.44 | 679.03 | -585.11 | 0.00 | 0.00 | |
| 3,600.00 | 17.43 | 127.26 | 3,471.40 | -534.58 | 702.87 | -605.66 | 0.00 | 0.00 | |
| 3,700.00 | 17.43 | 127.26 | 3,566.81 | -552.71 | 726.72 | -626.21 | 0.00 | 0.00 | |
| 3,800.00 | 17.43 | 127.26 | 3,662.21 | -570.85 | 750.56 | -646.76 | 0.00 | 0.00 | |
| 3,900.00 | 17.43 | 127.26 | 3,757.62 | -588.99 | 774.41 | -667.30 | 0.00 | 0.00 | |
| 4,000.00 | 17.43 | 127.26 | 3,853.03 | -607.12 | 798.25 | -687.85 | 0.00 | 0.00 | |
| 4,100.00 | 17.43 | 127.26 | 3,948.43 | -625.26 | 822.10 | -708.40 | 0.00 | 0.00 | |
| 4,200.00 | 17.43 | 127.26 | 4,043.84 | -643.39 | 845.95 | -728.95 | 0.00 | 0.00 | |
| 4,300.00 | 17.43 | 127.26 | 4,139.25 | -661.53 | 869.79 | -749.49 | 0.00 | 0.00 | |
| 4,400.00 | 17.43 | 127.26 | 4,234.65 | -679.67 | 893.64 | -770.04 | 0.00 | 0.00 | |
| 4,500.00 | 17.43 | 127.26 | 4,330.06 | -697.80 | 917.48 | -790.59 | 0.00 | 0.00 | |
| 4,600.00 | 17.43 | 127.26 | 4,425.47 | -715.94 | 941.33 | -811.14 | 0.00 | 0.00 | |
| 4,700.00 | 17.43 | 127.26 | 4,520.87 | -734.07 | 965.17 | -831.69 | 0.00 | 0.00 | |
| 4,800.00 | 17.43 | 127.26 | 4,616.28 | -752.21 | 989.02 | -852.23 | 0.00 | 0.00 | |
| 4,900.00 | 17.43 | 127.26 | 4,711.69 | -770.35 | 1,012.87 | -872.78 | 0.00 | 0.00 | |

Cathedral Energy Services

Planning Report

| | | | |
|------------------|-----------------------------|-------------------------------------|---------------------------|
| Database: | USA EDM 5000 Multi Users DB | Local Co-ordinate Reference: | Well DRAKE 7X-HC-11-07-67 |
| Company: | Nickel Road Operating LLC | TVD Reference: | 20' KB @ 5220.00usft |
| Project: | WELD COUNTY, CO | MD Reference: | 20' KB @ 5220.00usft |
| Site: | S12-T7N-R67W | North Reference: | Grid |
| Well: | DRAKE 7X-HC-11-07-67 | 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 |
| 5,000.00 | 17.43 | 127.26 | 4,807.09 | -788.48 | 1,036.71 | -893.33 | 0.00 | 0.00 | |
| 5,100.00 | 17.43 | 127.26 | 4,902.50 | -806.62 | 1,060.56 | -913.88 | 0.00 | 0.00 | |
| 5,200.00 | 17.43 | 127.26 | 4,997.91 | -824.76 | 1,084.40 | -934.42 | 0.00 | 0.00 | |
| 5,300.00 | 17.43 | 127.26 | 5,093.31 | -842.89 | 1,108.25 | -954.97 | 0.00 | 0.00 | |
| 5,400.00 | 17.43 | 127.26 | 5,188.72 | -861.03 | 1,132.10 | -975.52 | 0.00 | 0.00 | |
| 5,500.00 | 17.43 | 127.26 | 5,284.13 | -879.16 | 1,155.94 | -996.07 | 0.00 | 0.00 | |
| 5,600.00 | 17.43 | 127.26 | 5,379.54 | -897.30 | 1,179.79 | -1,016.62 | 0.00 | 0.00 | |
| 5,700.00 | 17.43 | 127.26 | 5,474.94 | -915.44 | 1,203.63 | -1,037.16 | 0.00 | 0.00 | |
| 5,800.00 | 17.43 | 127.26 | 5,570.35 | -933.57 | 1,227.48 | -1,057.71 | 0.00 | 0.00 | |
| 5,900.00 | 17.43 | 127.26 | 5,665.76 | -951.71 | 1,251.32 | -1,078.26 | 0.00 | 0.00 | |
| 6,000.00 | 17.43 | 127.26 | 5,761.16 | -969.85 | 1,275.17 | -1,098.81 | 0.00 | 0.00 | |
| 6,100.00 | 17.43 | 127.26 | 5,856.57 | -987.98 | 1,299.02 | -1,119.35 | 0.00 | 0.00 | |
| 6,200.00 | 17.43 | 127.26 | 5,951.98 | -1,006.12 | 1,322.86 | -1,139.90 | 0.00 | 0.00 | |
| 6,300.00 | 17.43 | 127.26 | 6,047.38 | -1,024.25 | 1,346.71 | -1,160.45 | 0.00 | 0.00 | |
| 6,400.00 | 17.43 | 127.26 | 6,142.79 | -1,042.39 | 1,370.55 | -1,181.00 | 0.00 | 0.00 | |
| 6,500.00 | 17.43 | 127.26 | 6,238.20 | -1,060.53 | 1,394.40 | -1,201.55 | 0.00 | 0.00 | |
| 6,600.00 | 17.43 | 127.26 | 6,333.60 | -1,078.66 | 1,418.25 | -1,222.09 | 0.00 | 0.00 | |
| 6,700.00 | 17.43 | 127.26 | 6,429.01 | -1,096.80 | 1,442.09 | -1,242.64 | 0.00 | 0.00 | |
| 6,800.00 | 17.43 | 127.26 | 6,524.42 | -1,114.94 | 1,465.94 | -1,263.19 | 0.00 | 0.00 | |
| 6,900.00 | 17.43 | 127.26 | 6,619.82 | -1,133.07 | 1,489.78 | -1,283.74 | 0.00 | 0.00 | |
| 7,000.00 | 17.43 | 127.26 | 6,715.23 | -1,151.21 | 1,513.63 | -1,304.28 | 0.00 | 0.00 | |
| 7,076.12 | 17.43 | 127.26 | 6,787.86 | -1,165.01 | 1,531.78 | -1,319.93 | 0.00 | 0.00 | |
| 7,100.00 | 15.49 | 133.50 | 6,810.76 | -1,169.37 | 1,536.94 | -1,324.30 | 11.00 | -8.15 | |
| 7,200.00 | 10.94 | 179.10 | 6,908.33 | -1,188.11 | 1,546.80 | -1,330.96 | 11.00 | -4.55 | |
| 7,300.00 | 15.45 | 224.86 | 7,005.92 | -1,207.09 | 1,537.53 | -1,318.70 | 11.00 | 4.51 | |
| 7,400.00 | 24.42 | 244.06 | 7,099.93 | -1,225.63 | 1,509.46 | -1,287.96 | 11.00 | 8.98 | |
| 7,500.00 | 34.54 | 252.95 | 7,186.90 | -1,243.04 | 1,463.62 | -1,239.89 | 11.00 | 10.12 | |
| 7,600.00 | 45.04 | 258.13 | 7,263.66 | -1,258.68 | 1,401.70 | -1,176.25 | 11.00 | 10.50 | |
| 7,700.00 | 55.70 | 261.68 | 7,327.36 | -1,271.97 | 1,325.98 | -1,099.37 | 11.00 | 10.66 | |
| 7,800.00 | 66.43 | 264.42 | 7,375.68 | -1,282.43 | 1,239.23 | -1,012.08 | 11.00 | 10.74 | |
| 7,900.00 | 77.21 | 266.74 | 7,406.83 | -1,289.68 | 1,144.65 | -917.59 | 11.00 | 10.78 | |
| 8,000.00 | 88.01 | 268.87 | 7,419.68 | -1,293.44 | 1,045.70 | -819.36 | 11.00 | 10.80 | |
| 8,018.45 | 90.00 | 269.26 | 7,420.00 | -1,293.74 | 1,027.26 | -801.12 | 11.00 | 10.80 | |
| 8,100.00 | 90.00 | 269.26 | 7,420.00 | -1,294.79 | 945.71 | -720.51 | 0.00 | 0.00 | |
| 8,200.00 | 90.00 | 269.26 | 7,420.00 | -1,296.08 | 845.72 | -621.66 | 0.00 | 0.00 | |
| 8,300.00 | 90.00 | 269.26 | 7,420.00 | -1,297.38 | 745.73 | -522.81 | 0.00 | 0.00 | |
| 8,400.00 | 90.00 | 269.26 | 7,420.00 | -1,298.67 | 645.74 | -423.96 | 0.00 | 0.00 | |
| 8,500.00 | 90.00 | 269.26 | 7,420.00 | -1,299.96 | 545.75 | -325.11 | 0.00 | 0.00 | |
| 8,600.00 | 90.00 | 269.26 | 7,420.00 | -1,301.25 | 445.76 | -226.26 | 0.00 | 0.00 | |
| 8,700.00 | 90.00 | 269.26 | 7,420.00 | -1,302.54 | 345.76 | -127.41 | 0.00 | 0.00 | |
| 8,800.00 | 90.00 | 269.26 | 7,420.00 | -1,303.84 | 245.77 | -28.57 | 0.00 | 0.00 | |
| 8,900.00 | 90.00 | 269.26 | 7,420.00 | -1,305.13 | 145.78 | 70.28 | 0.00 | 0.00 | |
| 9,000.00 | 90.00 | 269.26 | 7,420.00 | -1,306.42 | 45.79 | 169.13 | 0.00 | 0.00 | |
| 9,100.00 | 90.00 | 269.26 | 7,420.00 | -1,307.71 | -54.20 | 267.98 | 0.00 | 0.00 | |
| 9,200.00 | 90.00 | 269.26 | 7,420.00 | -1,309.00 | -154.19 | 366.83 | 0.00 | 0.00 | |
| 9,300.00 | 90.00 | 269.26 | 7,420.00 | -1,310.29 | -254.19 | 465.68 | 0.00 | 0.00 | |
| 9,400.00 | 90.00 | 269.26 | 7,420.00 | -1,311.59 | -354.18 | 564.53 | 0.00 | 0.00 | |
| 9,500.00 | 90.00 | 269.26 | 7,420.00 | -1,312.88 | -454.17 | 663.38 | 0.00 | 0.00 | |
| 9,600.00 | 90.00 | 269.26 | 7,420.00 | -1,314.17 | -554.16 | 762.23 | 0.00 | 0.00 | |
| 9,700.00 | 90.00 | 269.26 | 7,420.00 | -1,315.46 | -654.15 | 861.08 | 0.00 | 0.00 | |
| 9,800.00 | 90.00 | 269.26 | 7,420.00 | -1,316.75 | -754.14 | 959.93 | 0.00 | 0.00 | |
| 9,900.00 | 90.00 | 269.26 | 7,420.00 | -1,318.05 | -854.14 | 1,058.77 | 0.00 | 0.00 | |

Cathedral Energy Services

Planning Report

| | | | |
|------------------|-----------------------------|-------------------------------------|---------------------------|
| Database: | USA EDM 5000 Multi Users DB | Local Co-ordinate Reference: | Well DRAKE 7X-HC-11-07-67 |
| Company: | Nickel Road Operating LLC | TVD Reference: | 20' KB @ 5220.00usft |
| Project: | WELD COUNTY, CO | MD Reference: | 20' KB @ 5220.00usft |
| Site: | S12-T7N-R67W | North Reference: | Grid |
| Well: | DRAKE 7X-HC-11-07-67 | 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 | 90.00 | 269.26 | 7,420.00 | -1,319.34 | -954.13 | 1,157.62 | 0.00 | 0.00 | |
| 10,100.00 | 90.00 | 269.26 | 7,420.00 | -1,320.63 | -1,054.12 | 1,256.47 | 0.00 | 0.00 | |
| 10,200.00 | 90.00 | 269.26 | 7,420.00 | -1,321.92 | -1,154.11 | 1,355.32 | 0.00 | 0.00 | |
| 10,300.00 | 90.00 | 269.26 | 7,420.00 | -1,323.21 | -1,254.10 | 1,454.17 | 0.00 | 0.00 | |
| 10,400.00 | 90.00 | 269.26 | 7,420.00 | -1,324.51 | -1,354.09 | 1,553.02 | 0.00 | 0.00 | |
| 10,500.00 | 90.00 | 269.26 | 7,420.00 | -1,325.80 | -1,454.09 | 1,651.87 | 0.00 | 0.00 | |
| 10,600.00 | 90.00 | 269.26 | 7,420.00 | -1,327.09 | -1,554.08 | 1,750.72 | 0.00 | 0.00 | |
| 10,700.00 | 90.00 | 269.26 | 7,420.00 | -1,328.38 | -1,654.07 | 1,849.57 | 0.00 | 0.00 | |
| 10,800.00 | 90.00 | 269.26 | 7,420.00 | -1,329.67 | -1,754.06 | 1,948.42 | 0.00 | 0.00 | |
| 10,900.00 | 90.00 | 269.26 | 7,420.00 | -1,330.96 | -1,854.05 | 2,047.27 | 0.00 | 0.00 | |
| 11,000.00 | 90.00 | 269.26 | 7,420.00 | -1,332.26 | -1,954.04 | 2,146.11 | 0.00 | 0.00 | |
| 11,100.00 | 90.00 | 269.26 | 7,420.00 | -1,333.55 | -2,054.04 | 2,244.96 | 0.00 | 0.00 | |
| 11,200.00 | 90.00 | 269.26 | 7,420.00 | -1,334.84 | -2,154.03 | 2,343.81 | 0.00 | 0.00 | |
| 11,300.00 | 90.00 | 269.26 | 7,420.00 | -1,336.13 | -2,254.02 | 2,442.66 | 0.00 | 0.00 | |
| 11,400.00 | 90.00 | 269.26 | 7,420.00 | -1,337.42 | -2,354.01 | 2,541.51 | 0.00 | 0.00 | |
| 11,500.00 | 90.00 | 269.26 | 7,420.00 | -1,338.72 | -2,454.00 | 2,640.36 | 0.00 | 0.00 | |
| 11,600.00 | 90.00 | 269.26 | 7,420.00 | -1,340.01 | -2,553.99 | 2,739.21 | 0.00 | 0.00 | |
| 11,700.00 | 90.00 | 269.26 | 7,420.00 | -1,341.30 | -2,653.99 | 2,838.06 | 0.00 | 0.00 | |
| 11,800.00 | 90.00 | 269.26 | 7,420.00 | -1,342.59 | -2,753.98 | 2,936.91 | 0.00 | 0.00 | |
| 11,900.00 | 90.00 | 269.26 | 7,420.00 | -1,343.88 | -2,853.97 | 3,035.76 | 0.00 | 0.00 | |
| 12,000.00 | 90.00 | 269.26 | 7,420.00 | -1,345.18 | -2,953.96 | 3,134.61 | 0.00 | 0.00 | |
| 12,100.00 | 90.00 | 269.26 | 7,420.00 | -1,346.47 | -3,053.95 | 3,233.45 | 0.00 | 0.00 | |
| 12,200.00 | 90.00 | 269.26 | 7,420.00 | -1,347.76 | -3,153.94 | 3,332.30 | 0.00 | 0.00 | |
| 12,300.00 | 90.00 | 269.26 | 7,420.00 | -1,349.05 | -3,253.94 | 3,431.15 | 0.00 | 0.00 | |
| 12,400.00 | 90.00 | 269.26 | 7,420.00 | -1,350.34 | -3,353.93 | 3,530.00 | 0.00 | 0.00 | |
| 12,500.00 | 90.00 | 269.26 | 7,420.00 | -1,351.63 | -3,453.92 | 3,628.85 | 0.00 | 0.00 | |
| 12,600.00 | 90.00 | 269.26 | 7,420.00 | -1,352.93 | -3,553.91 | 3,727.70 | 0.00 | 0.00 | |
| 12,700.00 | 90.00 | 269.26 | 7,420.00 | -1,354.22 | -3,653.90 | 3,826.55 | 0.00 | 0.00 | |
| 12,800.00 | 90.00 | 269.26 | 7,420.00 | -1,355.51 | -3,753.89 | 3,925.40 | 0.00 | 0.00 | |
| 12,900.00 | 90.00 | 269.26 | 7,420.00 | -1,356.80 | -3,853.89 | 4,024.25 | 0.00 | 0.00 | |
| 13,000.00 | 90.00 | 269.26 | 7,420.00 | -1,358.09 | -3,953.88 | 4,123.10 | 0.00 | 0.00 | |
| 13,100.00 | 90.00 | 269.26 | 7,420.00 | -1,359.39 | -4,053.87 | 4,221.95 | 0.00 | 0.00 | |
| 13,200.00 | 90.00 | 269.26 | 7,420.00 | -1,360.68 | -4,153.86 | 4,320.79 | 0.00 | 0.00 | |
| 13,300.00 | 90.00 | 269.26 | 7,420.00 | -1,361.97 | -4,253.85 | 4,419.64 | 0.00 | 0.00 | |
| 13,400.00 | 90.00 | 269.26 | 7,420.00 | -1,363.26 | -4,353.84 | 4,518.49 | 0.00 | 0.00 | |
| 13,500.00 | 90.00 | 269.26 | 7,420.00 | -1,364.55 | -4,453.84 | 4,617.34 | 0.00 | 0.00 | |
| 13,600.00 | 90.00 | 269.26 | 7,420.00 | -1,365.84 | -4,553.83 | 4,716.19 | 0.00 | 0.00 | |
| 13,700.00 | 90.00 | 269.26 | 7,420.00 | -1,367.14 | -4,653.82 | 4,815.04 | 0.00 | 0.00 | |
| 13,800.00 | 90.00 | 269.26 | 7,420.00 | -1,368.43 | -4,753.81 | 4,913.89 | 0.00 | 0.00 | |
| 13,900.00 | 90.00 | 269.26 | 7,420.00 | -1,369.72 | -4,853.80 | 5,012.74 | 0.00 | 0.00 | |
| 14,000.00 | 90.00 | 269.26 | 7,420.00 | -1,371.01 | -4,953.79 | 5,111.59 | 0.00 | 0.00 | |
| 14,100.00 | 90.00 | 269.26 | 7,420.00 | -1,372.30 | -5,053.79 | 5,210.44 | 0.00 | 0.00 | |
| 14,200.00 | 90.00 | 269.26 | 7,420.00 | -1,373.60 | -5,153.78 | 5,309.29 | 0.00 | 0.00 | |
| 14,300.00 | 90.00 | 269.26 | 7,420.00 | -1,374.89 | -5,253.77 | 5,408.13 | 0.00 | 0.00 | |
| 14,400.00 | 90.00 | 269.26 | 7,420.00 | -1,376.18 | -5,353.76 | 5,506.98 | 0.00 | 0.00 | |
| 14,500.00 | 90.00 | 269.26 | 7,420.00 | -1,377.47 | -5,453.75 | 5,605.83 | 0.00 | 0.00 | |
| 14,600.00 | 90.00 | 269.26 | 7,420.00 | -1,378.76 | -5,553.74 | 5,704.68 | 0.00 | 0.00 | |
| 14,700.00 | 90.00 | 269.26 | 7,420.00 | -1,380.06 | -5,653.74 | 5,803.53 | 0.00 | 0.00 | |
| 14,800.00 | 90.00 | 269.26 | 7,420.00 | -1,381.35 | -5,753.73 | 5,902.38 | 0.00 | 0.00 | |
| 14,900.00 | 90.00 | 269.26 | 7,420.00 | -1,382.64 | -5,853.72 | 6,001.23 | 0.00 | 0.00 | |
| 15,000.00 | 90.00 | 269.26 | 7,420.00 | -1,383.93 | -5,953.71 | 6,100.08 | 0.00 | 0.00 | |
| 15,100.00 | 90.00 | 269.26 | 7,420.00 | -1,385.22 | -6,053.70 | 6,198.93 | 0.00 | 0.00 | |

Cathedral Energy Services

Planning Report

| | | | |
|------------------|-----------------------------|-------------------------------------|---------------------------|
| Database: | USA EDM 5000 Multi Users DB | Local Co-ordinate Reference: | Well DRAKE 7X-HC-11-07-67 |
| Company: | Nickel Road Operating LLC | TVD Reference: | 20' KB @ 5220.00usft |
| Project: | WELD COUNTY, CO | MD Reference: | 20' KB @ 5220.00usft |
| Site: | S12-T7N-R67W | North Reference: | Grid |
| Well: | DRAKE 7X-HC-11-07-67 | 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 | 90.00 | 269.26 | 7,420.00 | -1,386.51 | -6,153.69 | 6,297.78 | 0.00 | 0.00 | |
| 15,300.00 | 90.00 | 269.26 | 7,420.00 | -1,387.81 | -6,253.69 | 6,396.63 | 0.00 | 0.00 | |
| 15,400.00 | 90.00 | 269.26 | 7,420.00 | -1,389.10 | -6,353.68 | 6,495.47 | 0.00 | 0.00 | |
| 15,500.00 | 90.00 | 269.26 | 7,420.00 | -1,390.39 | -6,453.67 | 6,594.32 | 0.00 | 0.00 | |
| 15,600.00 | 90.00 | 269.26 | 7,420.00 | -1,391.68 | -6,553.66 | 6,693.17 | 0.00 | 0.00 | |
| 15,700.00 | 90.00 | 269.26 | 7,420.00 | -1,392.97 | -6,653.65 | 6,792.02 | 0.00 | 0.00 | |
| 15,800.00 | 90.00 | 269.26 | 7,420.00 | -1,394.27 | -6,753.64 | 6,890.87 | 0.00 | 0.00 | |
| 15,900.00 | 90.00 | 269.26 | 7,420.00 | -1,395.56 | -6,853.64 | 6,989.72 | 0.00 | 0.00 | |
| 16,000.00 | 90.00 | 269.26 | 7,420.00 | -1,396.85 | -6,953.63 | 7,088.57 | 0.00 | 0.00 | |
| 16,100.00 | 90.00 | 269.26 | 7,420.00 | -1,398.14 | -7,053.62 | 7,187.42 | 0.00 | 0.00 | |
| 16,200.00 | 90.00 | 269.26 | 7,420.00 | -1,399.43 | -7,153.61 | 7,286.27 | 0.00 | 0.00 | |
| 16,300.00 | 90.00 | 269.26 | 7,420.00 | -1,400.73 | -7,253.60 | 7,385.12 | 0.00 | 0.00 | |
| 16,400.00 | 90.00 | 269.26 | 7,420.00 | -1,402.02 | -7,353.59 | 7,483.97 | 0.00 | 0.00 | |
| 16,500.00 | 90.00 | 269.26 | 7,420.00 | -1,403.31 | -7,453.58 | 7,582.81 | 0.00 | 0.00 | |
| 16,600.00 | 90.00 | 269.26 | 7,420.00 | -1,404.60 | -7,553.58 | 7,681.66 | 0.00 | 0.00 | |
| 16,700.00 | 90.00 | 269.26 | 7,420.00 | -1,405.89 | -7,653.57 | 7,780.51 | 0.00 | 0.00 | |
| 16,800.00 | 90.00 | 269.26 | 7,420.00 | -1,407.18 | -7,753.56 | 7,879.36 | 0.00 | 0.00 | |
| 16,900.00 | 90.00 | 269.26 | 7,420.00 | -1,408.48 | -7,853.55 | 7,978.21 | 0.00 | 0.00 | |
| 17,000.00 | 90.00 | 269.26 | 7,420.00 | -1,409.77 | -7,953.54 | 8,077.06 | 0.00 | 0.00 | |
| 17,100.00 | 90.00 | 269.26 | 7,420.00 | -1,411.06 | -8,053.53 | 8,175.91 | 0.00 | 0.00 | |
| 17,200.00 | 90.00 | 269.26 | 7,420.00 | -1,412.35 | -8,153.53 | 8,274.76 | 0.00 | 0.00 | |
| 17,300.00 | 90.00 | 269.26 | 7,420.00 | -1,413.64 | -8,253.52 | 8,373.61 | 0.00 | 0.00 | |
| 17,400.00 | 90.00 | 269.26 | 7,420.00 | -1,414.94 | -8,353.51 | 8,472.46 | 0.00 | 0.00 | |
| 17,500.00 | 90.00 | 269.26 | 7,420.00 | -1,416.23 | -8,453.50 | 8,571.31 | 0.00 | 0.00 | |
| 17,568.45 | 90.00 | 269.26 | 7,420.00 | -1,417.11 | -8,521.95 | 8,638.97 | 0.00 | 0.00 | |

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 |
|---|---------------|--------------|------------|--------------|--------------|-----------------|----------------|-----------|-------------|
| DRAKE 7X-HC-11-07-67 - plan hits target center - Point | 0.00 | 359.59 | 7,420.00 | -1,417.11 | -8,521.95 | 1,456,332.52 | 3,175,499.89 | 40.584315 | -104.868139 |
| DRAKE 7X-HC-11-07-67 - plan misses target center by 6.43usft at 7936.88usft MD (7413.74 TVD, -1291.48 N, 1108.47 E) - Point | 0.00 | 359.57 | 7,420.00 | -1,292.68 | 1,109.31 | 1,456,456.95 | 3,185,131.15 | 40.584463 | -104.833461 |