

NICKEL ROAD OPERATING

WELD COUNTY

SEC 9-T7N-R67W

BLEHM 8X-HNC-10-07-67

OWB

Plan: PROPOSAL 1

Standard Planning Report

17 April, 2021



WELL DETAILS: BLEHM 8X-HNC-10-07-67

| +N/-S | +E/-W | Northing | Easting | 5088.00 Latitude | Longitude | Slot |
|-------|-------|------------|------------|---------------------|--------------|------|
| 0.00 | 0.00 | 1459969.35 | 3169120.05 | 40.594420°N | 104.891018°W | |

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 | 100.00 | 0.00 | 0.00 | 100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 3 | 1738.07 | 49.14 | 229.57 | 1544.49 | -428.28 | -502.78 | 3.00 | 229.57 | -120.51 | |
| 4 | 8876.74 | 49.14 | 229.57 | 6214.49 | -3929.43 | -4612.97 | 0.00 | 0.00 | -1105.67 | |
| 5 | 10125.57 | 89.52 | 89.80 | 6942.00 | -4464.11 | -4147.25 | 10.00 | -128.07 | -407.13 | BLEHM 8X-HNC-LP |
| 6 | 12370.56 | 89.52 | 89.80 | 6961.00 | -4456.36 | -1902.36 | 0.00 | 0.00 | 1331.08 | BLEHM 8X-HNC-WP |
| 7 | 12373.55 | 89.58 | 89.80 | 6961.02 | -4456.35 | -1899.36 | 2.00 | -2.20 | 1333.40 | BLEHM 8X-HNC-PBHL |
| 8 | 19732.57 | 89.58 | 89.80 | 7015.00 | -4430.68 | 5459.41 | 0.00 | 0.00 | 7031.08 | BLEHM 8X-HNC-PBHL |

ANNOTATIONS

| MD | Inc | Azi | TVD | +N/-S | +E/-W | VSect | Departure | Annotation |
|----------|-------|--------|---------|----------|----------|----------|-----------|-----------------------------------|
| 100.00 | 0.00 | 0.00 | 100.00 | 0.00 | 0.00 | 0.00 | 0.00 | Start Build 3.00 |
| 1738.07 | 49.14 | 229.57 | 1544.49 | -428.28 | -502.78 | -120.51 | 660.46 | Start 7138.67 hold at 1738.07 MD |
| 8876.74 | 49.14 | 229.57 | 6214.49 | -3929.43 | -4612.97 | -1105.67 | 6059.70 | Start DLS 10.00 TFO -128.07 |
| 10125.57 | 89.52 | 89.80 | 6942.00 | -4464.11 | -4147.25 | -407.13 | 7204.10 | Start 2244.99 hold at 10125.57 MD |
| 12370.56 | 89.52 | 89.80 | 6961.00 | -4456.36 | -1902.36 | 1331.08 | 9449.01 | Start DLS 2.00 TFO -2.20 |
| 12373.55 | 89.58 | 89.80 | 6961.02 | -4456.35 | -1899.36 | 1333.40 | 9452.01 | Start Build 0.00 |
| 19732.57 | 89.58 | 89.80 | 7015.00 | -4430.68 | 5459.41 | 7031.08 | 16810.83 | TD at 19732.57 |

DESIGN TARGET DETAILS

| Name | TVD | +N/-S | +E/-W | Northing | Easting | Latitude | Longitude | Shape |
|---------------------------|---------|----------|----------|------------|------------|-------------|--------------|-------|
| BLEHM 8X-HNC-LP | 6942.00 | -4464.11 | -4147.25 | 1455505.24 | 3164972.79 | 40.582244°N | 104.906059°W | Point |
| - plan hits target center | | | | | | | | |
| BLEHM 8X-HNC-WP | 6961.00 | -4456.36 | -1902.36 | 1455512.99 | 3167217.69 | 40.582224°N | 104.897977°W | Point |
| - plan hits target center | | | | | | | | |
| BLEHM 8X-HNC-PBHL | 7015.00 | -4430.68 | 5459.41 | 1455538.67 | 3174579.46 | 40.582154°N | 104.871473°W | Point |
| - plan hits target center | | | | | | | | |

FORMATION TOP DETAILS

| TVDPath | MDPath | Formation |
|---------|---------|--------------|
| 300.00 | 300.37 | Upper Pierre |
| 1314.00 | 1415.80 | Pierre Shale |
| 4205.00 | 5804.99 | Sussex |
| 4554.00 | 6338.48 | Shannon |
| 4583.00 | 6382.81 | Pierre Shale |
| 6820.00 | 9704.60 | Niobrara |

PROJECT DETAILS: WELD COUNTY

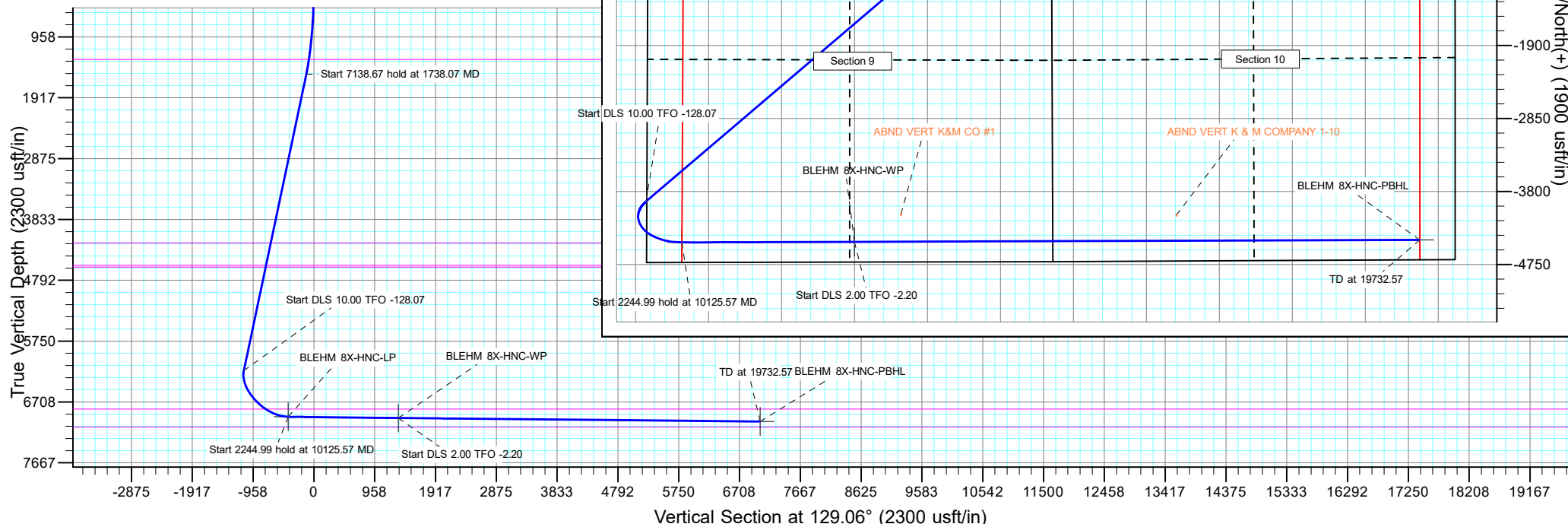
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: Colorado Northern Zone

System Datum: Mean Sea Level

SHL:
560' FNL, 663' FEL
Sec 9-T7N-R67W

LP:
260' FSL, 460' FWL
Sec 9-T7N-R67W

BHL:
260' FSL, 460' FEL
Sec 10-T7N-R67W



Planning Report

| | | | |
|------------------|----------------------------|-------------------------------------|----------------------------|
| Database: | EDM 5000.16 Single User Db | Local Co-ordinate Reference: | Well BLEHM 8X-HNC-10-07-67 |
| Company: | NICKEL ROAD OPERATING | TVD Reference: | KB 27' @ 5115.00usft |
| Project: | WELD COUNTY | MD Reference: | KB 27' @ 5115.00usft |
| Site: | SEC 9-T7N-R67W | North Reference: | Grid |
| Well: | BLEHM 8X-HNC-10-07-67 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OWB | | |
| Design: | PROPOSAL 1 | | |

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

| | | | | | | |
|-----------------------|----------|----------------|--------------|--------------|------------|--------------|
| Site | | SEC 9-T7N-R67W | | | | |
| Site Position: | | Northing: | 1,460,528.41 | usft | Latitude: | 40.595942°N |
| From: | Lat/Long | Easting: | 3,169,780.77 | usft | Longitude: | 104.888625°W |
| Position Uncertainty: | | 0.00 | usft | Slot Radius: | 13.200 | in |

| Well | | BLEHM 8X-HNC-10-07-67 | | | | |
|----------------------|-------|-----------------------|---------------------|-------------------|---------------|---------------|
| Well Position | +N/-S | 0.00 usft | Northing: | 1,459,969.35 usft | Latitude: | 40.594420°N |
| | +E/-W | 0.00 usft | Easting: | 3,169,120.05 usft | Longitude: | 104.891018°W |
| Position Uncertainty | | 0.00 usft | Wellhead Elevation: | usft | Ground Level: | 5,088.00 usft |
| Grid Convergence: | | 0.39 ° | | | | |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | OWB | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2020 | 3/15/2021 | 7.96 | 66.80 | 52,066.32952850 |

| | | | | | |
|--------------------------|--------------------------------|---------------------|----------------------|----------------------|--|
| Design | PROPOSAL 1 | | | | |
| Audit Notes: | | | | | |
| Version: | Phase: | PROTOTYPE | Tie On Depth: | 0.00 | |
| Vertical Section: | Depth From (TVD) (usft) | +N/-S (usft) | +E/-W (usft) | Direction (°) | |
| | 0.00 | 0.00 | 0.00 | 129.06 | |

| | | | | | |
|---------------------------------|------------------------|----------------------------|---------------------|----------------|--|
| Plan Survey Tool Program | Date | 4/17/2021 | | | |
| Depth From (usft) | Depth To (usft) | Survey (Wellbore) | Tool Name | Remarks | |
| 1 | 0.00 | 19,732.57 PROPOSAL 1 (OWB) | MWD | | |
| | | | OWSG MWD - Standard | | |

| | | | | | | | | | | |
|------------------------------|------------------------|--------------------|------------------------------|---------------------|---------------------|------------------------------|-----------------------------|----------------------------|----------------|------------------|
| Plan Sections | | | | | | | | | | |
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) | TFO (°) | Target |
| 0.00 | 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 | 0.00 | |
| 1,738.07 | 49.14 | 229.57 | 1,544.49 | -428.28 | -502.78 | 3.00 | 3.00 | 0.00 | 229.57 | |
| 8,876.74 | 49.14 | 229.57 | 6,214.49 | -3,929.43 | -4,612.97 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 10,125.57 | 89.52 | 89.80 | 6,942.00 | -4,464.11 | -4,147.25 | 10.00 | 3.23 | -11.19 | -128.07 | BLEHM 8X-HNC-LP |
| 12,370.56 | 89.52 | 89.80 | 6,961.00 | -4,456.36 | -1,902.36 | 0.00 | 0.00 | 0.00 | 0.00 | BLEHM 8X-HNC-WP |
| 12,373.55 | 89.58 | 89.80 | 6,961.02 | -4,456.35 | -1,899.36 | 2.00 | 2.00 | -0.08 | -2.20 | BLEHM 8X-HNC-PB+ |
| 19,732.57 | 89.58 | 89.80 | 7,015.00 | -4,430.68 | 5,459.42 | 0.00 | 0.00 | 0.00 | 0.00 | BLEHM 8X-HNC-PB+ |

Planning Report

| | | | |
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| Company: | NICKEL ROAD OPERATING | TVD Reference: | KB 27' @ 5115.00usft |
| Project: | WELD COUNTY | MD Reference: | KB 27' @ 5115.00usft |
| Site: | SEC 9-T7N-R67W | North Reference: | Grid |
| Well: | BLEHM 8X-HNC-10-07-67 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OWB | | |
| Design: | PROPOSAL 1 | | |

| Planned Survey | | | | | | | | | |
|----------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-----------------------|----------------------|---------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 0.00 | 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 | 0.00 |
| Start Build 3.00 | | | | | | | | | |
| 200.00 | 3.00 | 229.57 | 199.95 | -1.70 | -1.99 | -0.48 | 3.00 | 3.00 | 0.00 |
| 300.00 | 6.00 | 229.57 | 299.63 | -6.78 | -7.96 | -1.91 | 3.00 | 3.00 | 0.00 |
| 300.37 | 6.01 | 229.57 | 300.00 | -6.81 | -7.99 | -1.92 | 3.00 | 3.00 | 0.00 |
| Upper Pierre | | | | | | | | | |
| 400.00 | 9.00 | 229.57 | 398.77 | -15.25 | -17.90 | -4.29 | 3.00 | 3.00 | 0.00 |
| 500.00 | 12.00 | 229.57 | 497.08 | -27.06 | -31.77 | -7.62 | 3.00 | 3.00 | 0.00 |
| 600.00 | 15.00 | 229.57 | 594.31 | -42.20 | -49.54 | -11.87 | 3.00 | 3.00 | 0.00 |
| 700.00 | 18.00 | 229.57 | 690.18 | -60.61 | -71.16 | -17.06 | 3.00 | 3.00 | 0.00 |
| 800.00 | 21.00 | 229.57 | 784.43 | -82.26 | -96.57 | -23.15 | 3.00 | 3.00 | 0.00 |
| 900.00 | 24.00 | 229.57 | 876.81 | -107.07 | -125.70 | -30.13 | 3.00 | 3.00 | 0.00 |
| 1,000.00 | 27.00 | 229.57 | 967.06 | -134.98 | -158.46 | -37.98 | 3.00 | 3.00 | 0.00 |
| 1,100.00 | 30.00 | 229.57 | 1,054.93 | -165.92 | -194.78 | -46.69 | 3.00 | 3.00 | 0.00 |
| 1,200.00 | 33.00 | 229.57 | 1,140.18 | -199.80 | -234.56 | -56.22 | 3.00 | 3.00 | 0.00 |
| 1,300.00 | 36.00 | 229.57 | 1,222.59 | -236.52 | -277.67 | -66.55 | 3.00 | 3.00 | 0.00 |
| 1,400.00 | 39.00 | 229.57 | 1,301.91 | -276.00 | -324.01 | -77.66 | 3.00 | 3.00 | 0.00 |
| 1,415.60 | 39.47 | 229.57 | 1,314.00 | -282.40 | -331.52 | -79.46 | 3.00 | 3.00 | 0.00 |
| Pierre Shale | | | | | | | | | |
| 1,500.00 | 42.00 | 229.57 | 1,377.94 | -318.10 | -373.44 | -89.51 | 3.00 | 3.00 | 0.00 |
| 1,600.00 | 45.00 | 229.57 | 1,450.47 | -362.74 | -425.83 | -102.07 | 3.00 | 3.00 | 0.00 |
| 1,700.00 | 48.00 | 229.57 | 1,519.30 | -409.77 | -481.05 | -115.30 | 3.00 | 3.00 | 0.00 |
| 1,738.07 | 49.14 | 229.57 | 1,544.49 | -428.28 | -502.78 | -120.51 | 3.00 | 3.00 | 0.00 |
| Start 7138.67 hold at 1738.07 MD | | | | | | | | | |
| 1,800.00 | 49.14 | 229.57 | 1,585.00 | -458.65 | -538.43 | -129.06 | 0.00 | 0.00 | 0.00 |
| 1,900.00 | 49.14 | 229.57 | 1,650.42 | -507.70 | -596.01 | -142.86 | 0.00 | 0.00 | 0.00 |
| 2,000.00 | 49.14 | 229.57 | 1,715.84 | -556.74 | -653.59 | -156.66 | 0.00 | 0.00 | 0.00 |
| 2,100.00 | 49.14 | 229.57 | 1,781.26 | -605.79 | -711.16 | -170.46 | 0.00 | 0.00 | 0.00 |
| 2,200.00 | 49.14 | 229.57 | 1,846.68 | -654.83 | -768.74 | -184.26 | 0.00 | 0.00 | 0.00 |
| 2,300.00 | 49.14 | 229.57 | 1,912.10 | -703.87 | -826.32 | -198.06 | 0.00 | 0.00 | 0.00 |
| 2,400.00 | 49.14 | 229.57 | 1,977.51 | -752.92 | -883.89 | -211.86 | 0.00 | 0.00 | 0.00 |
| 2,500.00 | 49.14 | 229.57 | 2,042.93 | -801.96 | -941.47 | -225.66 | 0.00 | 0.00 | 0.00 |
| 2,600.00 | 49.14 | 229.57 | 2,108.35 | -851.01 | -999.05 | -239.46 | 0.00 | 0.00 | 0.00 |
| 2,700.00 | 49.14 | 229.57 | 2,173.77 | -900.05 | -1,056.62 | -253.26 | 0.00 | 0.00 | 0.00 |
| 2,800.00 | 49.14 | 229.57 | 2,239.19 | -949.10 | -1,114.20 | -267.06 | 0.00 | 0.00 | 0.00 |
| 2,900.00 | 49.14 | 229.57 | 2,304.61 | -998.14 | -1,171.77 | -280.86 | 0.00 | 0.00 | 0.00 |
| 3,000.00 | 49.14 | 229.57 | 2,370.02 | -1,047.19 | -1,229.35 | -294.66 | 0.00 | 0.00 | 0.00 |
| 3,100.00 | 49.14 | 229.57 | 2,435.44 | -1,096.23 | -1,286.93 | -308.46 | 0.00 | 0.00 | 0.00 |
| 3,200.00 | 49.14 | 229.57 | 2,500.86 | -1,145.28 | -1,344.50 | -322.26 | 0.00 | 0.00 | 0.00 |
| 3,300.00 | 49.14 | 229.57 | 2,566.28 | -1,194.32 | -1,402.08 | -336.06 | 0.00 | 0.00 | 0.00 |
| 3,400.00 | 49.14 | 229.57 | 2,631.70 | -1,243.37 | -1,459.66 | -349.86 | 0.00 | 0.00 | 0.00 |
| 3,500.00 | 49.14 | 229.57 | 2,697.12 | -1,292.41 | -1,517.23 | -363.66 | 0.00 | 0.00 | 0.00 |
| 3,600.00 | 49.14 | 229.57 | 2,762.53 | -1,341.46 | -1,574.81 | -377.46 | 0.00 | 0.00 | 0.00 |
| 3,700.00 | 49.14 | 229.57 | 2,827.95 | -1,390.50 | -1,632.39 | -391.26 | 0.00 | 0.00 | 0.00 |
| 3,800.00 | 49.14 | 229.57 | 2,893.37 | -1,439.55 | -1,689.96 | -405.06 | 0.00 | 0.00 | 0.00 |
| 3,900.00 | 49.14 | 229.57 | 2,958.79 | -1,488.59 | -1,747.54 | -418.86 | 0.00 | 0.00 | 0.00 |
| 4,000.00 | 49.14 | 229.57 | 3,024.21 | -1,537.64 | -1,805.12 | -432.66 | 0.00 | 0.00 | 0.00 |
| 4,100.00 | 49.14 | 229.57 | 3,089.63 | -1,586.68 | -1,862.69 | -446.46 | 0.00 | 0.00 | 0.00 |
| 4,200.00 | 49.14 | 229.57 | 3,155.04 | -1,635.73 | -1,920.27 | -460.27 | 0.00 | 0.00 | 0.00 |
| 4,300.00 | 49.14 | 229.57 | 3,220.46 | -1,684.77 | -1,977.85 | -474.07 | 0.00 | 0.00 | 0.00 |
| 4,400.00 | 49.14 | 229.57 | 3,285.88 | -1,733.82 | -2,035.42 | -487.87 | 0.00 | 0.00 | 0.00 |
| 4,500.00 | 49.14 | 229.57 | 3,351.30 | -1,782.86 | -2,093.00 | -501.67 | 0.00 | 0.00 | 0.00 |
| 4,600.00 | 49.14 | 229.57 | 3,416.72 | -1,831.91 | -2,150.57 | -515.47 | 0.00 | 0.00 | 0.00 |

Planning Report

| | | | |
|------------------|----------------------------|-------------------------------------|----------------------------|
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| Company: | NICKEL ROAD OPERATING | TVD Reference: | KB 27' @ 5115.00usft |
| Project: | WELD COUNTY | MD Reference: | KB 27' @ 5115.00usft |
| Site: | SEC 9-T7N-R67W | North Reference: | Grid |
| Well: | BLEHM 8X-HNC-10-07-67 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OWB | | |
| Design: | PROPOSAL 1 | | |

| Planned Survey | | | | | | | | | |
|------------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-----------------------|----------------------|---------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 4,700.00 | 49.14 | 229.57 | 3,482.13 | -1,880.95 | -2,208.15 | -529.27 | 0.00 | 0.00 | 0.00 |
| 4,800.00 | 49.14 | 229.57 | 3,547.55 | -1,930.00 | -2,265.73 | -543.07 | 0.00 | 0.00 | 0.00 |
| 4,900.00 | 49.14 | 229.57 | 3,612.97 | -1,979.04 | -2,323.30 | -556.87 | 0.00 | 0.00 | 0.00 |
| 5,000.00 | 49.14 | 229.57 | 3,678.39 | -2,028.09 | -2,380.88 | -570.67 | 0.00 | 0.00 | 0.00 |
| 5,100.00 | 49.14 | 229.57 | 3,743.81 | -2,077.13 | -2,438.46 | -584.47 | 0.00 | 0.00 | 0.00 |
| 5,200.00 | 49.14 | 229.57 | 3,809.23 | -2,126.18 | -2,496.03 | -598.27 | 0.00 | 0.00 | 0.00 |
| 5,300.00 | 49.14 | 229.57 | 3,874.64 | -2,175.22 | -2,553.61 | -612.07 | 0.00 | 0.00 | 0.00 |
| 5,400.00 | 49.14 | 229.57 | 3,940.06 | -2,224.27 | -2,611.19 | -625.87 | 0.00 | 0.00 | 0.00 |
| 5,500.00 | 49.14 | 229.57 | 4,005.48 | -2,273.31 | -2,668.76 | -639.67 | 0.00 | 0.00 | 0.00 |
| 5,600.00 | 49.14 | 229.57 | 4,070.90 | -2,322.36 | -2,726.34 | -653.47 | 0.00 | 0.00 | 0.00 |
| 5,700.00 | 49.14 | 229.57 | 4,136.32 | -2,371.40 | -2,783.92 | -667.27 | 0.00 | 0.00 | 0.00 |
| 5,800.00 | 49.14 | 229.57 | 4,201.74 | -2,420.45 | -2,841.49 | -681.07 | 0.00 | 0.00 | 0.00 |
| 5,804.99 | 49.14 | 229.57 | 4,205.00 | -2,422.89 | -2,844.36 | -681.76 | 0.00 | 0.00 | 0.00 |
| Sussex | | | | | | | | | |
| 5,900.00 | 49.14 | 229.57 | 4,267.15 | -2,469.49 | -2,899.07 | -694.87 | 0.00 | 0.00 | 0.00 |
| 6,000.00 | 49.14 | 229.57 | 4,332.57 | -2,518.54 | -2,956.64 | -708.67 | 0.00 | 0.00 | 0.00 |
| 6,100.00 | 49.14 | 229.57 | 4,397.99 | -2,567.58 | -3,014.22 | -722.47 | 0.00 | 0.00 | 0.00 |
| 6,200.00 | 49.14 | 229.57 | 4,463.41 | -2,616.63 | -3,071.80 | -736.27 | 0.00 | 0.00 | 0.00 |
| 6,300.00 | 49.14 | 229.57 | 4,528.83 | -2,665.67 | -3,129.37 | -750.07 | 0.00 | 0.00 | 0.00 |
| 6,338.48 | 49.14 | 229.57 | 4,554.00 | -2,684.54 | -3,151.53 | -755.38 | 0.00 | 0.00 | 0.00 |
| Shannon | | | | | | | | | |
| 6,382.81 | 49.14 | 229.57 | 4,583.00 | -2,706.29 | -3,177.05 | -761.50 | 0.00 | 0.00 | 0.00 |
| Pierre Shale | | | | | | | | | |
| 6,400.00 | 49.14 | 229.57 | 4,594.25 | -2,714.72 | -3,186.95 | -763.87 | 0.00 | 0.00 | 0.00 |
| 6,500.00 | 49.14 | 229.57 | 4,659.66 | -2,763.76 | -3,244.53 | -777.67 | 0.00 | 0.00 | 0.00 |
| 6,600.00 | 49.14 | 229.57 | 4,725.08 | -2,812.81 | -3,302.10 | -791.47 | 0.00 | 0.00 | 0.00 |
| 6,700.00 | 49.14 | 229.57 | 4,790.50 | -2,861.85 | -3,359.68 | -805.27 | 0.00 | 0.00 | 0.00 |
| 6,800.00 | 49.14 | 229.57 | 4,855.92 | -2,910.90 | -3,417.26 | -819.07 | 0.00 | 0.00 | 0.00 |
| 6,900.00 | 49.14 | 229.57 | 4,921.34 | -2,959.94 | -3,474.83 | -832.88 | 0.00 | 0.00 | 0.00 |
| 7,000.00 | 49.14 | 229.57 | 4,986.75 | -3,008.99 | -3,532.41 | -846.68 | 0.00 | 0.00 | 0.00 |
| 7,100.00 | 49.14 | 229.57 | 5,052.17 | -3,058.03 | -3,589.99 | -860.48 | 0.00 | 0.00 | 0.00 |
| 7,200.00 | 49.14 | 229.57 | 5,117.59 | -3,107.08 | -3,647.56 | -874.28 | 0.00 | 0.00 | 0.00 |
| 7,300.00 | 49.14 | 229.57 | 5,183.01 | -3,156.12 | -3,705.14 | -888.08 | 0.00 | 0.00 | 0.00 |
| 7,400.00 | 49.14 | 229.57 | 5,248.43 | -3,205.17 | -3,762.71 | -901.88 | 0.00 | 0.00 | 0.00 |
| 7,500.00 | 49.14 | 229.57 | 5,313.85 | -3,254.21 | -3,820.29 | -915.68 | 0.00 | 0.00 | 0.00 |
| 7,600.00 | 49.14 | 229.57 | 5,379.26 | -3,303.26 | -3,877.87 | -929.48 | 0.00 | 0.00 | 0.00 |
| 7,700.00 | 49.14 | 229.57 | 5,444.68 | -3,352.30 | -3,935.44 | -943.28 | 0.00 | 0.00 | 0.00 |
| 7,800.00 | 49.14 | 229.57 | 5,510.10 | -3,401.35 | -3,993.02 | -957.08 | 0.00 | 0.00 | 0.00 |
| 7,900.00 | 49.14 | 229.57 | 5,575.52 | -3,450.39 | -4,050.60 | -970.88 | 0.00 | 0.00 | 0.00 |
| 8,000.00 | 49.14 | 229.57 | 5,640.94 | -3,499.44 | -4,108.17 | -984.68 | 0.00 | 0.00 | 0.00 |
| 8,100.00 | 49.14 | 229.57 | 5,706.36 | -3,548.48 | -4,165.75 | -998.48 | 0.00 | 0.00 | 0.00 |
| 8,200.00 | 49.14 | 229.57 | 5,771.77 | -3,597.53 | -4,223.33 | -1,012.28 | 0.00 | 0.00 | 0.00 |
| 8,300.00 | 49.14 | 229.57 | 5,837.19 | -3,646.57 | -4,280.90 | -1,026.08 | 0.00 | 0.00 | 0.00 |
| 8,400.00 | 49.14 | 229.57 | 5,902.61 | -3,695.62 | -4,338.48 | -1,039.88 | 0.00 | 0.00 | 0.00 |
| 8,500.00 | 49.14 | 229.57 | 5,968.03 | -3,744.66 | -4,396.06 | -1,053.68 | 0.00 | 0.00 | 0.00 |
| 8,600.00 | 49.14 | 229.57 | 6,033.45 | -3,793.71 | -4,453.63 | -1,067.48 | 0.00 | 0.00 | 0.00 |
| 8,700.00 | 49.14 | 229.57 | 6,098.87 | -3,842.75 | -4,511.21 | -1,081.28 | 0.00 | 0.00 | 0.00 |
| 8,800.00 | 49.14 | 229.57 | 6,164.28 | -3,891.79 | -4,568.78 | -1,095.08 | 0.00 | 0.00 | 0.00 |
| 8,876.74 | 49.14 | 229.57 | 6,214.49 | -3,929.43 | -4,612.97 | -1,105.67 | 0.00 | 0.00 | 0.00 |
| Start DLS 10.00 TFO -128.07 | | | | | | | | | |
| 8,900.00 | 47.73 | 227.10 | 6,229.92 | -3,941.00 | -4,625.97 | -1,108.48 | 10.00 | -6.05 | -10.64 |
| 8,950.00 | 44.90 | 221.40 | 6,264.46 | -3,966.84 | -4,651.21 | -1,111.79 | 10.00 | -5.66 | -11.40 |
| 9,000.00 | 42.38 | 215.14 | 6,300.66 | -3,993.88 | -4,672.59 | -1,111.36 | 10.00 | -5.04 | -12.52 |

Planning Report

| | | | |
|------------------|----------------------------|-------------------------------------|----------------------------|
| Database: | EDM 5000.16 Single User Db | Local Co-ordinate Reference: | Well BLEHM 8X-HNC-10-07-67 |
| Company: | NICKEL ROAD OPERATING | TVD Reference: | KB 27' @ 5115.00usft |
| Project: | WELD COUNTY | MD Reference: | KB 27' @ 5115.00usft |
| Site: | SEC 9-T7N-R67W | North Reference: | Grid |
| Well: | BLEHM 8X-HNC-10-07-67 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OWB | | |
| Design: | PROPOSAL 1 | | |

| Planned Survey | | | | | | | | | |
|------------------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-----------------------|----------------------|---------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 9,050.00 | 40.24 | 208.29 | 6,338.23 | -4,021.90 | -4,689.96 | -1,107.19 | 10.00 | -4.29 | -13.69 |
| 9,100.00 | 38.53 | 200.88 | 6,376.90 | -4,050.68 | -4,703.17 | -1,099.30 | 10.00 | -3.42 | -14.82 |
| 9,150.00 | 37.32 | 192.98 | 6,416.37 | -4,080.02 | -4,712.13 | -1,087.78 | 10.00 | -2.42 | -15.80 |
| 9,200.00 | 36.66 | 184.74 | 6,456.33 | -4,109.68 | -4,716.78 | -1,072.69 | 10.00 | -1.32 | -16.49 |
| 9,250.00 | 36.58 | 176.36 | 6,496.48 | -4,139.45 | -4,717.06 | -1,054.15 | 10.00 | -0.16 | -16.77 |
| 9,300.00 | 37.09 | 168.05 | 6,536.53 | -4,169.09 | -4,712.99 | -1,032.32 | 10.00 | 1.01 | -16.60 |
| 9,350.00 | 38.16 | 160.05 | 6,576.15 | -4,198.37 | -4,704.59 | -1,007.34 | 10.00 | 2.14 | -16.01 |
| 9,400.00 | 39.74 | 152.50 | 6,615.06 | -4,227.09 | -4,691.94 | -979.42 | 10.00 | 3.16 | -15.10 |
| 9,450.00 | 41.78 | 145.50 | 6,652.95 | -4,255.01 | -4,675.11 | -948.76 | 10.00 | 4.07 | -14.00 |
| 9,500.00 | 44.20 | 139.08 | 6,689.54 | -4,281.92 | -4,654.25 | -915.60 | 10.00 | 4.85 | -12.83 |
| 9,550.00 | 46.96 | 133.24 | 6,724.55 | -4,307.63 | -4,629.50 | -880.19 | 10.00 | 5.51 | -11.69 |
| 9,600.00 | 49.99 | 127.92 | 6,757.70 | -4,331.93 | -4,601.07 | -842.80 | 10.00 | 6.05 | -10.64 |
| 9,650.00 | 53.23 | 123.07 | 6,788.76 | -4,354.63 | -4,569.16 | -803.71 | 10.00 | 6.50 | -9.70 |
| 9,700.00 | 56.66 | 118.62 | 6,817.48 | -4,375.58 | -4,534.02 | -763.23 | 10.00 | 6.86 | -8.89 |
| 9,704.60 | 56.99 | 118.23 | 6,820.00 | -4,377.41 | -4,530.64 | -759.45 | 10.00 | 7.03 | -8.50 |
| Niobrara | | | | | | | | | |
| 9,750.00 | 60.24 | 114.52 | 6,843.65 | -4,394.60 | -4,495.92 | -721.66 | 10.00 | 7.16 | -8.18 |
| 9,800.00 | 63.93 | 110.70 | 6,867.06 | -4,411.56 | -4,455.14 | -679.31 | 10.00 | 7.39 | -7.63 |
| 9,850.00 | 67.72 | 107.12 | 6,887.54 | -4,426.32 | -4,412.00 | -636.51 | 10.00 | 7.57 | -7.16 |
| 9,900.00 | 71.58 | 103.73 | 6,904.93 | -4,438.76 | -4,366.82 | -593.59 | 10.00 | 7.72 | -6.78 |
| 9,950.00 | 75.50 | 100.49 | 6,919.10 | -4,448.81 | -4,319.95 | -550.86 | 10.00 | 7.84 | -6.48 |
| 10,000.00 | 79.46 | 97.37 | 6,929.94 | -4,456.38 | -4,271.75 | -508.67 | 10.00 | 7.92 | -6.25 |
| 10,050.00 | 83.45 | 94.32 | 6,937.37 | -4,461.40 | -4,222.57 | -467.32 | 10.00 | 7.98 | -6.09 |
| 10,100.00 | 87.46 | 91.33 | 6,941.33 | -4,463.85 | -4,172.81 | -427.13 | 10.00 | 8.02 | -5.99 |
| 10,125.57 | 89.52 | 89.80 | 6,942.00 | -4,464.11 | -4,147.25 | -407.13 | 10.00 | 8.03 | -5.96 |
| Start 2244.99 hold at 10125.57 MD | | | | | | | | | |
| 10,200.00 | 89.52 | 89.80 | 6,942.63 | -4,463.85 | -4,072.82 | -349.50 | 0.00 | 0.00 | 0.00 |
| 10,300.00 | 89.52 | 89.80 | 6,943.48 | -4,463.50 | -3,972.83 | -272.07 | 0.00 | 0.00 | 0.00 |
| 10,400.00 | 89.52 | 89.80 | 6,944.32 | -4,463.16 | -3,872.83 | -194.65 | 0.00 | 0.00 | 0.00 |
| 10,500.00 | 89.52 | 89.80 | 6,945.17 | -4,462.81 | -3,772.84 | -117.22 | 0.00 | 0.00 | 0.00 |
| 10,600.00 | 89.52 | 89.80 | 6,946.02 | -4,462.47 | -3,672.84 | -39.79 | 0.00 | 0.00 | 0.00 |
| 10,700.00 | 89.52 | 89.80 | 6,946.86 | -4,462.12 | -3,572.84 | 37.63 | 0.00 | 0.00 | 0.00 |
| 10,800.00 | 89.52 | 89.80 | 6,947.71 | -4,461.78 | -3,472.85 | 115.06 | 0.00 | 0.00 | 0.00 |
| 10,900.00 | 89.52 | 89.80 | 6,948.55 | -4,461.44 | -3,372.85 | 192.48 | 0.00 | 0.00 | 0.00 |
| 11,000.00 | 89.52 | 89.80 | 6,949.40 | -4,461.09 | -3,272.86 | 269.91 | 0.00 | 0.00 | 0.00 |
| 11,100.00 | 89.52 | 89.80 | 6,950.25 | -4,460.75 | -3,172.86 | 347.34 | 0.00 | 0.00 | 0.00 |
| 11,200.00 | 89.52 | 89.80 | 6,951.09 | -4,460.40 | -3,072.86 | 424.76 | 0.00 | 0.00 | 0.00 |
| 11,300.00 | 89.52 | 89.80 | 6,951.94 | -4,460.06 | -2,972.87 | 502.19 | 0.00 | 0.00 | 0.00 |
| 11,400.00 | 89.52 | 89.80 | 6,952.79 | -4,459.71 | -2,872.87 | 579.62 | 0.00 | 0.00 | 0.00 |
| 11,500.00 | 89.52 | 89.80 | 6,953.63 | -4,459.37 | -2,772.88 | 657.04 | 0.00 | 0.00 | 0.00 |
| 11,600.00 | 89.52 | 89.80 | 6,954.48 | -4,459.02 | -2,672.88 | 734.47 | 0.00 | 0.00 | 0.00 |
| 11,700.00 | 89.52 | 89.80 | 6,955.33 | -4,458.68 | -2,572.89 | 811.89 | 0.00 | 0.00 | 0.00 |
| 11,800.00 | 89.52 | 89.80 | 6,956.17 | -4,458.33 | -2,472.89 | 889.32 | 0.00 | 0.00 | 0.00 |
| 11,900.00 | 89.52 | 89.80 | 6,957.02 | -4,457.99 | -2,372.89 | 966.75 | 0.00 | 0.00 | 0.00 |
| 12,000.00 | 89.52 | 89.80 | 6,957.86 | -4,457.64 | -2,272.90 | 1,044.17 | 0.00 | 0.00 | 0.00 |
| 12,100.00 | 89.52 | 89.80 | 6,958.71 | -4,457.30 | -2,172.90 | 1,121.60 | 0.00 | 0.00 | 0.00 |
| 12,200.00 | 89.52 | 89.80 | 6,959.56 | -4,456.95 | -2,072.91 | 1,199.03 | 0.00 | 0.00 | 0.00 |
| 12,300.00 | 89.52 | 89.80 | 6,960.40 | -4,456.61 | -1,972.91 | 1,276.45 | 0.00 | 0.00 | 0.00 |
| 12,370.56 | 89.52 | 89.80 | 6,961.00 | -4,456.36 | -1,902.36 | 1,331.08 | 0.00 | 0.00 | 0.00 |
| Start DLS 2.00 TFO -2.20 | | | | | | | | | |
| 12,373.55 | 89.58 | 89.80 | 6,961.02 | -4,456.35 | -1,899.36 | 1,333.40 | 2.00 | 2.00 | -0.08 |
| Start Build 0.00 | | | | | | | | | |
| 12,400.00 | 89.58 | 89.80 | 6,961.22 | -4,456.26 | -1,872.91 | 1,353.88 | 0.00 | 0.00 | 0.00 |

Planning Report

| | | | |
|------------------|----------------------------|-------------------------------------|----------------------------|
| Database: | EDM 5000.16 Single User Db | Local Co-ordinate Reference: | Well BLEHM 8X-HNC-10-07-67 |
| Company: | NICKEL ROAD OPERATING | TVD Reference: | KB 27' @ 5115.00usft |
| Project: | WELD COUNTY | MD Reference: | KB 27' @ 5115.00usft |
| Site: | SEC 9-T7N-R67W | North Reference: | Grid |
| Well: | BLEHM 8X-HNC-10-07-67 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OWB | | |
| Design: | PROPOSAL 1 | | |

| Planned Survey | | | | | | | | | |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-----------------------|----------------------|---------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 12,500.00 | 89.58 | 89.80 | 6,961.96 | -4,455.91 | -1,772.92 | 1,431.30 | 0.00 | 0.00 | 0.00 |
| 12,600.00 | 89.58 | 89.80 | 6,962.70 | -4,455.56 | -1,672.92 | 1,508.73 | 0.00 | 0.00 | 0.00 |
| 12,700.00 | 89.58 | 89.80 | 6,963.44 | -4,455.21 | -1,572.92 | 1,586.15 | 0.00 | 0.00 | 0.00 |
| 12,800.00 | 89.58 | 89.80 | 6,964.19 | -4,454.86 | -1,472.93 | 1,663.58 | 0.00 | 0.00 | 0.00 |
| 12,900.00 | 89.58 | 89.80 | 6,964.93 | -4,454.52 | -1,372.93 | 1,741.00 | 0.00 | 0.00 | 0.00 |
| 13,000.00 | 89.58 | 89.80 | 6,965.67 | -4,454.17 | -1,272.93 | 1,818.42 | 0.00 | 0.00 | 0.00 |
| 13,100.00 | 89.58 | 89.80 | 6,966.41 | -4,453.82 | -1,172.94 | 1,895.85 | 0.00 | 0.00 | 0.00 |
| 13,200.00 | 89.58 | 89.80 | 6,967.15 | -4,453.47 | -1,072.94 | 1,973.27 | 0.00 | 0.00 | 0.00 |
| 13,300.00 | 89.58 | 89.80 | 6,967.89 | -4,453.12 | -972.94 | 2,050.70 | 0.00 | 0.00 | 0.00 |
| 13,400.00 | 89.58 | 89.80 | 6,968.63 | -4,452.77 | -872.95 | 2,128.12 | 0.00 | 0.00 | 0.00 |
| 13,500.00 | 89.58 | 89.80 | 6,969.37 | -4,452.42 | -772.95 | 2,205.55 | 0.00 | 0.00 | 0.00 |
| 13,600.00 | 89.58 | 89.80 | 6,970.10 | -4,452.07 | -672.95 | 2,282.97 | 0.00 | 0.00 | 0.00 |
| 13,700.00 | 89.58 | 89.80 | 6,970.84 | -4,451.72 | -572.96 | 2,360.40 | 0.00 | 0.00 | 0.00 |
| 13,800.00 | 89.58 | 89.80 | 6,971.58 | -4,451.38 | -472.96 | 2,437.82 | 0.00 | 0.00 | 0.00 |
| 13,900.00 | 89.58 | 89.80 | 6,972.32 | -4,451.03 | -372.96 | 2,515.24 | 0.00 | 0.00 | 0.00 |
| 14,000.00 | 89.58 | 89.80 | 6,973.06 | -4,450.68 | -272.97 | 2,592.67 | 0.00 | 0.00 | 0.00 |
| 14,100.00 | 89.58 | 89.80 | 6,973.80 | -4,450.33 | -172.97 | 2,670.09 | 0.00 | 0.00 | 0.00 |
| 14,200.00 | 89.58 | 89.80 | 6,974.53 | -4,449.98 | -72.97 | 2,747.52 | 0.00 | 0.00 | 0.00 |
| 14,300.00 | 89.58 | 89.80 | 6,975.27 | -4,449.63 | 27.02 | 2,824.94 | 0.00 | 0.00 | 0.00 |
| 14,400.00 | 89.58 | 89.80 | 6,976.01 | -4,449.28 | 127.02 | 2,902.37 | 0.00 | 0.00 | 0.00 |
| 14,500.00 | 89.58 | 89.80 | 6,976.75 | -4,448.93 | 227.02 | 2,979.79 | 0.00 | 0.00 | 0.00 |
| 14,600.00 | 89.58 | 89.80 | 6,977.48 | -4,448.58 | 327.01 | 3,057.22 | 0.00 | 0.00 | 0.00 |
| 14,700.00 | 89.58 | 89.80 | 6,978.22 | -4,448.24 | 427.01 | 3,134.64 | 0.00 | 0.00 | 0.00 |
| 14,800.00 | 89.58 | 89.80 | 6,978.96 | -4,447.89 | 527.01 | 3,212.06 | 0.00 | 0.00 | 0.00 |
| 14,900.00 | 89.58 | 89.80 | 6,979.69 | -4,447.54 | 627.00 | 3,289.49 | 0.00 | 0.00 | 0.00 |
| 15,000.00 | 89.58 | 89.80 | 6,980.43 | -4,447.19 | 727.00 | 3,366.91 | 0.00 | 0.00 | 0.00 |
| 15,100.00 | 89.58 | 89.80 | 6,981.16 | -4,446.84 | 827.00 | 3,444.34 | 0.00 | 0.00 | 0.00 |
| 15,200.00 | 89.58 | 89.80 | 6,981.90 | -4,446.49 | 926.99 | 3,521.76 | 0.00 | 0.00 | 0.00 |
| 15,300.00 | 89.58 | 89.80 | 6,982.63 | -4,446.14 | 1,026.99 | 3,599.19 | 0.00 | 0.00 | 0.00 |
| 15,400.00 | 89.58 | 89.80 | 6,983.37 | -4,445.79 | 1,126.99 | 3,676.61 | 0.00 | 0.00 | 0.00 |
| 15,500.00 | 89.58 | 89.80 | 6,984.10 | -4,445.44 | 1,226.98 | 3,754.04 | 0.00 | 0.00 | 0.00 |
| 15,600.00 | 89.58 | 89.80 | 6,984.84 | -4,445.09 | 1,326.98 | 3,831.46 | 0.00 | 0.00 | 0.00 |
| 15,700.00 | 89.58 | 89.80 | 6,985.57 | -4,444.75 | 1,426.98 | 3,908.88 | 0.00 | 0.00 | 0.00 |
| 15,800.00 | 89.58 | 89.80 | 6,986.31 | -4,444.40 | 1,526.97 | 3,986.31 | 0.00 | 0.00 | 0.00 |
| 15,900.00 | 89.58 | 89.80 | 6,987.04 | -4,444.05 | 1,626.97 | 4,063.73 | 0.00 | 0.00 | 0.00 |
| 16,000.00 | 89.58 | 89.80 | 6,987.78 | -4,443.70 | 1,726.97 | 4,141.16 | 0.00 | 0.00 | 0.00 |
| 16,100.00 | 89.58 | 89.80 | 6,988.51 | -4,443.35 | 1,826.96 | 4,218.58 | 0.00 | 0.00 | 0.00 |
| 16,200.00 | 89.58 | 89.80 | 6,989.24 | -4,443.00 | 1,926.96 | 4,296.01 | 0.00 | 0.00 | 0.00 |
| 16,300.00 | 89.58 | 89.80 | 6,989.98 | -4,442.65 | 2,026.96 | 4,373.43 | 0.00 | 0.00 | 0.00 |
| 16,400.00 | 89.58 | 89.80 | 6,990.71 | -4,442.30 | 2,126.95 | 4,450.86 | 0.00 | 0.00 | 0.00 |
| 16,500.00 | 89.58 | 89.80 | 6,991.44 | -4,441.95 | 2,226.95 | 4,528.28 | 0.00 | 0.00 | 0.00 |
| 16,600.00 | 89.58 | 89.80 | 6,992.17 | -4,441.61 | 2,326.95 | 4,605.70 | 0.00 | 0.00 | 0.00 |
| 16,700.00 | 89.58 | 89.80 | 6,992.90 | -4,441.26 | 2,426.94 | 4,683.13 | 0.00 | 0.00 | 0.00 |
| 16,800.00 | 89.58 | 89.80 | 6,993.64 | -4,440.91 | 2,526.94 | 4,760.55 | 0.00 | 0.00 | 0.00 |
| 16,900.00 | 89.58 | 89.80 | 6,994.37 | -4,440.56 | 2,626.94 | 4,837.98 | 0.00 | 0.00 | 0.00 |
| 17,000.00 | 89.58 | 89.80 | 6,995.10 | -4,440.21 | 2,726.93 | 4,915.40 | 0.00 | 0.00 | 0.00 |
| 17,100.00 | 89.58 | 89.80 | 6,995.83 | -4,439.86 | 2,826.93 | 4,992.83 | 0.00 | 0.00 | 0.00 |
| 17,200.00 | 89.58 | 89.80 | 6,996.56 | -4,439.51 | 2,926.93 | 5,070.25 | 0.00 | 0.00 | 0.00 |
| 17,300.00 | 89.58 | 89.80 | 6,997.29 | -4,439.16 | 3,026.92 | 5,147.68 | 0.00 | 0.00 | 0.00 |
| 17,400.00 | 89.58 | 89.80 | 6,998.02 | -4,438.81 | 3,126.92 | 5,225.10 | 0.00 | 0.00 | 0.00 |
| 17,500.00 | 89.58 | 89.80 | 6,998.75 | -4,438.47 | 3,226.92 | 5,302.52 | 0.00 | 0.00 | 0.00 |
| 17,600.00 | 89.58 | 89.80 | 6,999.48 | -4,438.12 | 3,326.91 | 5,379.95 | 0.00 | 0.00 | 0.00 |
| 17,700.00 | 89.58 | 89.80 | 7,000.21 | -4,437.77 | 3,426.91 | 5,457.37 | 0.00 | 0.00 | 0.00 |
| 17,800.00 | 89.58 | 89.80 | 7,000.94 | -4,437.42 | 3,526.91 | 5,534.80 | 0.00 | 0.00 | 0.00 |

Planning Report

| | | | |
|------------------|----------------------------|-------------------------------------|----------------------------|
| Database: | EDM 5000.16 Single User Db | Local Co-ordinate Reference: | Well BLEHM 8X-HNC-10-07-67 |
| Company: | NICKEL ROAD OPERATING | TVD Reference: | KB 27' @ 5115.00usft |
| Project: | WELD COUNTY | MD Reference: | KB 27' @ 5115.00usft |
| Site: | SEC 9-T7N-R67W | North Reference: | Grid |
| Well: | BLEHM 8X-HNC-10-07-67 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OWB | | |
| Design: | PROPOSAL 1 | | |

| Planned Survey | | | | | | | | | | |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-----------------------|----------------------|---------------------|--|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) | |
| 17,900.00 | 89.58 | 89.80 | 7,001.67 | -4,437.07 | 3,626.90 | 5,612.22 | 0.00 | 0.00 | 0.00 | |
| 18,000.00 | 89.58 | 89.80 | 7,002.40 | -4,436.72 | 3,726.90 | 5,689.65 | 0.00 | 0.00 | 0.00 | |
| 18,100.00 | 89.58 | 89.80 | 7,003.13 | -4,436.37 | 3,826.90 | 5,767.07 | 0.00 | 0.00 | 0.00 | |
| 18,200.00 | 89.58 | 89.80 | 7,003.86 | -4,436.02 | 3,926.89 | 5,844.50 | 0.00 | 0.00 | 0.00 | |
| 18,300.00 | 89.58 | 89.80 | 7,004.59 | -4,435.67 | 4,026.89 | 5,921.92 | 0.00 | 0.00 | 0.00 | |
| 18,400.00 | 89.58 | 89.80 | 7,005.32 | -4,435.33 | 4,126.89 | 5,999.34 | 0.00 | 0.00 | 0.00 | |
| 18,500.00 | 89.58 | 89.80 | 7,006.04 | -4,434.98 | 4,226.88 | 6,076.77 | 0.00 | 0.00 | 0.00 | |
| 18,600.00 | 89.58 | 89.80 | 7,006.77 | -4,434.63 | 4,326.88 | 6,154.19 | 0.00 | 0.00 | 0.00 | |
| 18,700.00 | 89.58 | 89.80 | 7,007.50 | -4,434.28 | 4,426.88 | 6,231.62 | 0.00 | 0.00 | 0.00 | |
| 18,800.00 | 89.58 | 89.80 | 7,008.23 | -4,433.93 | 4,526.87 | 6,309.04 | 0.00 | 0.00 | 0.00 | |
| 18,900.00 | 89.58 | 89.80 | 7,008.95 | -4,433.58 | 4,626.87 | 6,386.47 | 0.00 | 0.00 | 0.00 | |
| 19,000.00 | 89.58 | 89.80 | 7,009.68 | -4,433.23 | 4,726.87 | 6,463.89 | 0.00 | 0.00 | 0.00 | |
| 19,100.00 | 89.58 | 89.80 | 7,010.41 | -4,432.88 | 4,826.86 | 6,541.32 | 0.00 | 0.00 | 0.00 | |
| 19,200.00 | 89.58 | 89.80 | 7,011.13 | -4,432.53 | 4,926.86 | 6,618.74 | 0.00 | 0.00 | 0.00 | |
| 19,300.00 | 89.58 | 89.80 | 7,011.86 | -4,432.18 | 5,026.86 | 6,696.16 | 0.00 | 0.00 | 0.00 | |
| 19,400.00 | 89.58 | 89.80 | 7,012.59 | -4,431.84 | 5,126.85 | 6,773.59 | 0.00 | 0.00 | 0.00 | |
| 19,500.00 | 89.58 | 89.80 | 7,013.31 | -4,431.49 | 5,226.85 | 6,851.01 | 0.00 | 0.00 | 0.00 | |
| 19,600.00 | 89.58 | 89.80 | 7,014.04 | -4,431.14 | 5,326.85 | 6,928.44 | 0.00 | 0.00 | 0.00 | |
| 19,700.00 | 89.58 | 89.80 | 7,014.76 | -4,430.79 | 5,426.85 | 7,005.86 | 0.00 | 0.00 | 0.00 | |
| 19,732.57 | 89.58 | 89.80 | 7,015.00 | -4,430.68 | 5,459.42 | 7,031.08 | 0.00 | 0.00 | 0.00 | |
| TD at 19732.57 | | | | | | | | | | |

| Design 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 |
| BLEHM 8X-HNC-LP - plan hits target center - Point | 0.00 | 0.00 | 6,942.00 | -4,464.11 | -4,147.25 | 1,455,505.25 | 3,164,972.79 | 40.582244°N | 104.906059°W |
| BLEHM 8X-HNC-WP - plan hits target center - Point | 0.00 | 0.00 | 6,961.00 | -4,456.36 | -1,902.36 | 1,455,512.99 | 3,167,217.69 | 40.582224°N | 104.897977°W |
| BLEHM 8X-HNC-PBHL - plan hits target center - Point | 0.00 | 0.01 | 7,015.00 | -4,430.68 | 5,459.42 | 1,455,538.68 | 3,174,579.46 | 40.582154°N | 104.871473°W |

| Formations | | | | | | |
|-----------------------|-----------------------|--------------|-----------|---------|-------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Name | Lithology | Dip (°) | Dip Direction (°) | |
| 300.37 | 300.00 | Upper Pierre | | | | |
| 1,415.60 | 1,314.00 | Pierre Shale | | | | |
| 5,804.99 | 4,205.00 | Sussex | | | | |
| 6,338.48 | 4,554.00 | Shannon | | | | |
| 6,382.81 | 4,583.00 | Pierre Shale | | | | |
| 9,704.60 | 6,820.00 | Niobrara | | | | |

Planning Report

| | | | |
|------------------|----------------------------|-------------------------------------|----------------------------|
| Database: | EDM 5000.16 Single User Db | Local Co-ordinate Reference: | Well BLEHM 8X-HNC-10-07-67 |
| Company: | NICKEL ROAD OPERATING | TVD Reference: | KB 27' @ 5115.00usft |
| Project: | WELD COUNTY | MD Reference: | KB 27' @ 5115.00usft |
| Site: | SEC 9-T7N-R67W | North Reference: | Grid |
| Well: | BLEHM 8X-HNC-10-07-67 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OWB | | |
| Design: | PROPOSAL 1 | | |

| Plan Annotations | | | | |
|-----------------------------|-----------------------------|-------------------|-----------------|-----------------------------------|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates | | Comment |
| | | +N/-S (usft) | +E/-W (usft) | |
| 100.00 | 100.00 | 0.00 | 0.00 | Start Build 3.00 |
| 1,738.07 | 1,544.49 | -428.28 | -502.78 | Start 7138.67 hold at 1738.07 MD |
| 8,876.74 | 6,214.49 | -3,929.43 | -4,612.97 | Start DLS 10.00 TFO -128.07 |
| 10,125.57 | 6,942.00 | -4,464.11 | -4,147.25 | Start 2244.99 hold at 10125.57 MD |
| 12,370.56 | 6,961.00 | -4,456.36 | -1,902.36 | Start DLS 2.00 TFO -2.20 |
| 12,373.55 | 6,961.02 | -4,456.35 | -1,899.36 | Start Build 0.00 |
| 19,732.57 | 7,015.00 | -4,430.68 | 5,459.42 | TD at 19732.57 |