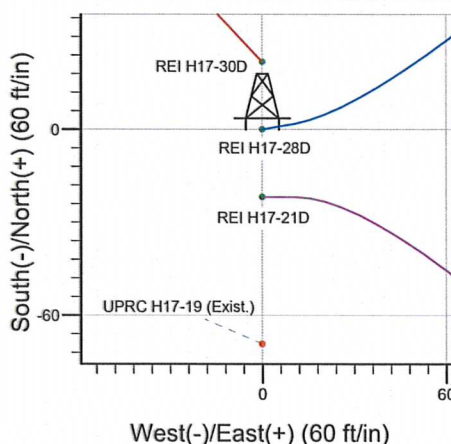
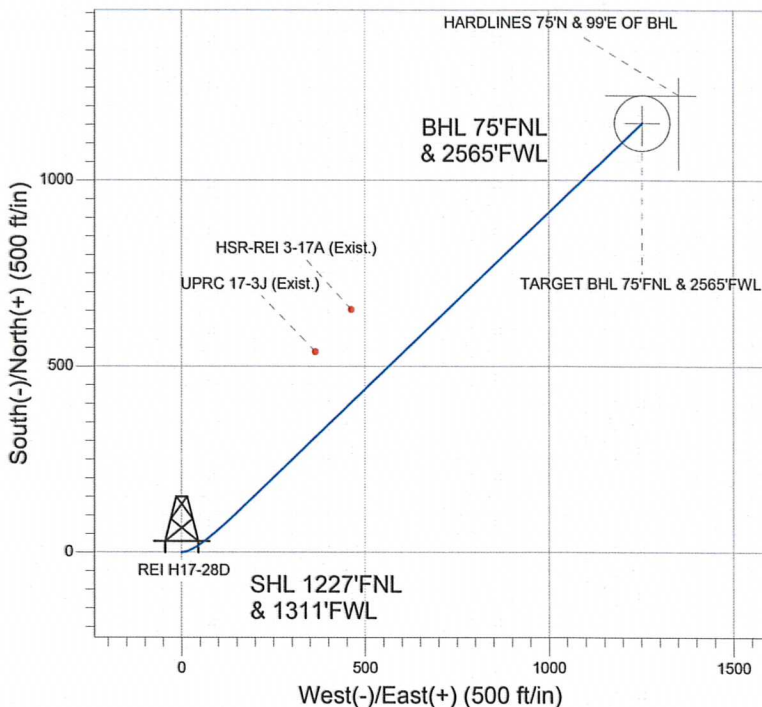
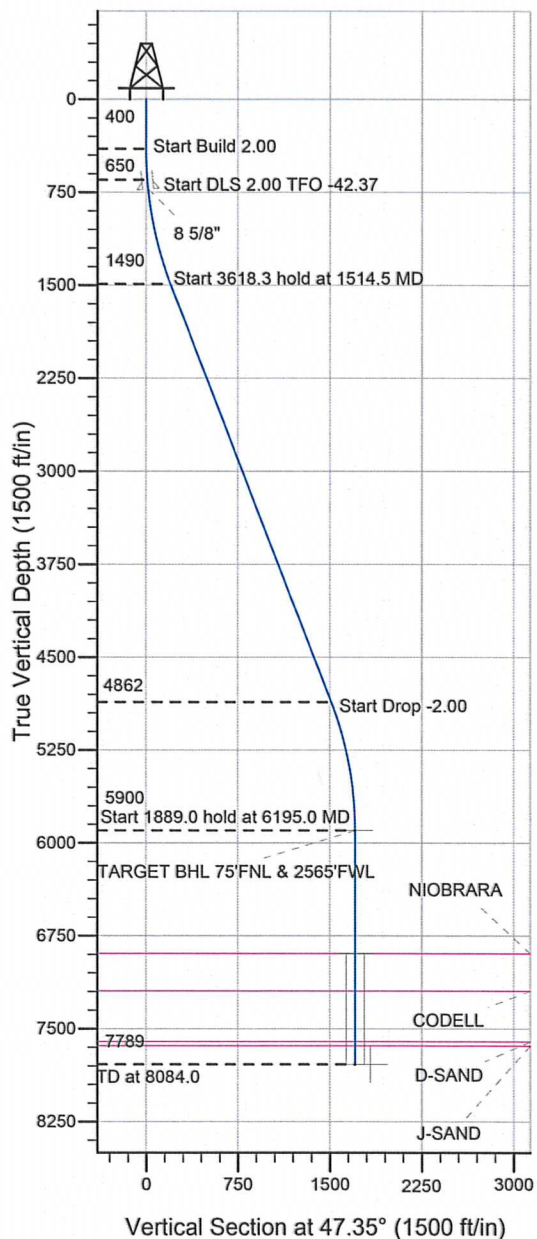


Well Name: REI H17-28D

Surface Location: REI H17-21D Pad Sec.17-T3N-R65W
North American Datum 1983, US State Plane 1983 Colorado Northern Zone
Ground Elevation: 4928.0

| | | | | | | |
|--------------|--------------|------------------------|--------------------------------------|-----------------------|--------------------------|------|
| +N/-S 0.0 | +E/-W 0.0 | Northing 1327392.55 | Easting 3225563.67 | Latitude 40.229270 | Longitude -104.692130 | Slot |
| | | Original Well Elev | WELL @ 4941.0ft (Original Well Elev) | | | |

NOBLE ENERGY INC WELD COUNTY CO



REI H17-21D Pad Sec.17-T3N-R65W
REI H17-28D
Noble NEI H17-28D Plan #2 (2-20-12)
12:07, February 21 2012



Azimuths to True North
Magnetic North: 8.72°
Magnetic Field
Strength: 52976.6snT
Dip Angle: 66.90°
Date: 2/20/2012
Model: IGRF2010

WELLBORE TARGET DETAILS (LAT/LONG)

| Name | TVD | +N/-S | +E/-W | Latitude | Longitude | Shape |
|---------------------------------|--------|--------|--------|-----------|-------------|-----------------------|
| TARGET BHL 75'FNL & 2565'FWL | 5900.0 | 1154.9 | 1253.7 | 40.232440 | -104.687640 | Point |
| TARGET CIRCLE 75'FNL & 2565'FWL | 6893.0 | 1154.9 | 1253.7 | 40.232440 | -104.687640 | Circle (Radius: 75.0) |
| HARDLINES 75'N & 99'E OF BHL | 7789.0 | 1229.9 | 1352.6 | 40.232646 | -104.687285 | Polygon |

SECTION DETAILS

| Sec | MD | Inc | Azi | TVD | +N/-S | +E/-W | DLeg | TFace | VSec |
|-----|--------|-------|-------|--------|--------|--------|------|--------|--------|
| 1 | 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.0 |
| 2 | 400.0 | 0.00 | 0.00 | 400.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.0 |
| 3 | 650.0 | 5.00 | 80.00 | 649.7 | 1.9 | 10.7 | 2.00 | 80.00 | 9.2 |
| 4 | 1514.5 | 21.24 | 46.44 | 1489.6 | 117.2 | 162.5 | 2.00 | -42.37 | 198.9 |
| 5 | 5132.8 | 21.24 | 46.44 | 4861.9 | 1020.7 | 1112.6 | 0.00 | 0.00 | 1509.9 |
| 6 | 6195.0 | 0.00 | 0.00 | 5900.0 | 1154.9 | 1253.7 | 2.00 | 180.00 | 1704.5 |
| 7 | 8084.0 | 0.00 | 0.00 | 7789.0 | 1154.9 | 1253.7 | 0.00 | 0.00 | 1704.5 |

TARGET BHL 75'FNL & 2565'FWL



NOBLE ENERGY INC WELD COUNTY CO

SEC.17-T3N-R65W

REI H17-21D Pad Sec.17-T3N-R65W

REI H17-28D

Wellbore #1

Plan: Noble NEI H17-28D Plan #2 (2-20-12)

Standard Planning Report

21 February, 2012



Database: Landmark
Company: NOBLE ENERGY INC WELD COUNTY CO
Project: SEC.17-T3N-R65W
Site: REI H17-21D Pad Sec.17-T3N-R65W
Well: REI H17-28D
Wellbore: Wellbore #1
Design: Noble NEI H17-28D Plan #2 (2-20-12)

Local Co-ordinate Reference: Well REI H17-28D
TVD Reference: WELL @ 4941.0ft (Original Well Elev)
MD Reference: WELL @ 4941.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

| | | | |
|-------------|----------------------------------------|---------------|-----------------------------|
| Project | SEC.17-T3N-R65W, Weld County, Colorado | | |
| Map System: | US State Plane 1983 | System Datum: | Mean Sea Level |
| Geo Datum: | North American Datum 1983 | | |
| Map Zone: | Colorado Northern Zone | | Using geodetic scale factor |

| | | | | | |
|-----------------------|---------------------------------|--------------|-----------------|-------------------|-------------|
| Site | REI H17-21D Pad Sec.17-T3N-R65W | | | | |
| Site Position: | | Northing: | 1,327,370.70 ft | Latitude: | 40.229210 |
| From: | Lat/Long | Easting: | 3,225,563.87 ft | Longitude: | -104.692130 |
| Position Uncertainty: | 0.0 ft | Slot Radius: | " | Grid Convergence: | 0.52 ° |

| | | | | | | |
|----------------------|-------------|---------|---------------------|-----------------|---------------|-------------|
| Well | REI H17-28D | | | | | |
| Well Position | +N/-S | 21.8 ft | Northing: | 1,327,392.55 ft | Latitude: | 40.229270 |
| | +E/-W | 0.0 ft | Easting: | 3,225,563.67 ft | Longitude: | -104.692130 |
| Position Uncertainty | | 0.0 ft | Wellhead Elevation: | ft | Ground Level: | 4,928.0 ft |

| | | | | | |
|-----------|-------------|-------------|-----------------|---------------|---------------------|
| Wellbore | Wellbore #1 | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2010 | 2/20/2012 | 8.72 | 66.90 | 52,977 |

| | | | | |
|-------------------|-------------------------------------|---------------|---------------|------------------|
| Design | Noble NEI H17-28D Plan #2 (2-20-12) | | | |
| Audit Notes: | | | | |
| Version: | Phase: | PROTOTYPE | Tie On Depth: | 0.0 |
| Vertical Section: | Depth From (TVD) (ft) | +N/-S (ft) | +E/-W (ft) | Direction (°) |
| | 0.0 | 0.0 | 0.0 | 47.35 |

| Plan Sections | | | | | | | | | | |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|----------------------|---------------------|---------|------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) | TFO (°) | Target |
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 400.0 | 0.00 | 0.00 | 400.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 650.0 | 5.00 | 80.00 | 649.7 | 1.9 | 10.7 | 2.00 | 2.00 | 0.00 | 80.00 | |
| 1,514.5 | 21.24 | 46.44 | 1,489.6 | 117.2 | 162.5 | 2.00 | 1.88 | -3.88 | -42.37 | |
| 5,132.8 | 21.24 | 46.44 | 4,861.9 | 1,020.7 | 1,112.6 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 6,195.0 | 0.00 | 0.00 | 5,900.0 | 1,154.9 | 1,253.7 | 2.00 | -2.00 | 0.00 | 180.00 | TARGET BHL 75'FI |
| 8,084.0 | 0.00 | 0.00 | 7,789.0 | 1,154.9 | 1,253.7 | 0.00 | 0.00 | 0.00 | 0.00 | |

Database: Landmark
Company: NOBLE ENERGY INC WELD COUNTY CO
Project: SEC.17-T3N-R65W
Site: REI H17-21D Pad Sec.17-T3N-R65W
Well: REI H17-28D
Wellbore: Wellbore #1
Design: Noble NEI H17-28D Plan #2 (2-20-12)

Local Co-ordinate Reference: Well REI H17-28D
TVD Reference: WELL @ 4941.0ft (Original Well Elev)
MD Reference: WELL @ 4941.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

Planned Survey

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 40.0 | 0.00 | 0.00 | 40.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 80.0 | 0.00 | 0.00 | 80.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 120.0 | 0.00 | 0.00 | 120.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 160.0 | 0.00 | 0.00 | 160.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 200.0 | 0.00 | 0.00 | 200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 240.0 | 0.00 | 0.00 | 240.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 280.0 | 0.00 | 0.00 | 280.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 320.0 | 0.00 | 0.00 | 320.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 360.0 | 0.00 | 0.00 | 360.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 400.0 | 0.00 | 0.00 | 400.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 440.0 | 0.80 | 80.00 | 440.0 | 0.0 | 0.3 | 0.2 | 2.00 | 2.00 | 0.00 |
| 480.0 | 1.60 | 80.00 | 480.0 | 0.2 | 1.1 | 0.9 | 2.00 | 2.00 | 0.00 |
| 520.0 | 2.40 | 80.00 | 520.0 | 0.4 | 2.5 | 2.1 | 2.00 | 2.00 | 0.00 |
| 560.0 | 3.20 | 80.00 | 559.9 | 0.8 | 4.4 | 3.8 | 2.00 | 2.00 | 0.00 |
| 600.0 | 4.00 | 80.00 | 599.8 | 1.2 | 6.9 | 5.9 | 2.00 | 2.00 | 0.00 |
| 640.0 | 4.80 | 80.00 | 639.7 | 1.7 | 9.9 | 8.5 | 2.00 | 2.00 | 0.00 |
| 650.0 | 5.00 | 80.00 | 649.7 | 1.9 | 10.7 | 9.2 | 2.00 | 2.00 | 0.00 |
| 680.0 | 5.46 | 75.75 | 679.6 | 2.5 | 13.4 | 11.5 | 2.00 | 1.53 | -14.18 |
| 720.0 | 6.11 | 71.10 | 719.4 | 3.6 | 17.3 | 15.2 | 2.00 | 1.62 | -11.62 |
| 725.7 | 6.20 | 70.52 | 725.0 | 3.8 | 17.8 | 15.7 | 2.00 | 1.67 | -10.22 |
| 8 5/8" | | | | | | | | | |
| 760.0 | 6.79 | 67.36 | 759.1 | 5.2 | 21.5 | 19.3 | 2.00 | 1.71 | -9.20 |
| 800.0 | 7.49 | 64.31 | 798.8 | 7.3 | 26.0 | 24.0 | 2.00 | 1.76 | -7.62 |
| 840.0 | 8.22 | 61.79 | 838.4 | 9.8 | 30.9 | 29.3 | 2.00 | 1.81 | -6.31 |
| 880.0 | 8.95 | 59.67 | 878.0 | 12.7 | 36.1 | 35.1 | 2.00 | 1.84 | -5.28 |
| 920.0 | 9.70 | 57.88 | 917.4 | 16.0 | 41.6 | 41.5 | 2.00 | 1.86 | -4.48 |
| 960.0 | 10.45 | 56.34 | 956.8 | 19.8 | 47.5 | 48.4 | 2.00 | 1.88 | -3.85 |
| 1,000.0 | 11.21 | 55.01 | 996.1 | 24.1 | 53.7 | 55.8 | 2.00 | 1.90 | -3.33 |
| 1,040.0 | 11.97 | 53.84 | 1,035.3 | 28.8 | 60.2 | 63.8 | 2.00 | 1.91 | -2.91 |
| 1,080.0 | 12.74 | 52.82 | 1,074.4 | 33.9 | 67.1 | 72.3 | 2.00 | 1.92 | -2.57 |
| 1,120.0 | 13.52 | 51.90 | 1,113.3 | 39.4 | 74.3 | 81.3 | 2.00 | 1.93 | -2.28 |
| 1,160.0 | 14.29 | 51.09 | 1,152.1 | 45.4 | 81.8 | 90.9 | 2.00 | 1.94 | -2.04 |
| 1,200.0 | 15.07 | 50.36 | 1,190.8 | 51.8 | 89.6 | 101.0 | 2.00 | 1.95 | -1.83 |
| 1,240.0 | 15.85 | 49.70 | 1,229.4 | 58.7 | 97.8 | 111.7 | 2.00 | 1.95 | -1.65 |
| 1,280.0 | 16.63 | 49.09 | 1,267.8 | 66.0 | 106.3 | 122.9 | 2.00 | 1.96 | -1.50 |
| 1,320.0 | 17.42 | 48.55 | 1,306.0 | 73.7 | 115.1 | 134.6 | 2.00 | 1.96 | -1.37 |
| 1,360.0 | 18.20 | 48.04 | 1,344.1 | 81.8 | 124.3 | 146.8 | 2.00 | 1.96 | -1.26 |
| 1,400.0 | 18.99 | 47.58 | 1,382.0 | 90.4 | 133.7 | 159.6 | 2.00 | 1.97 | -1.16 |
| 1,440.0 | 19.78 | 47.15 | 1,419.8 | 99.4 | 143.5 | 172.8 | 2.00 | 1.97 | -1.07 |
| 1,480.0 | 20.56 | 46.76 | 1,457.3 | 108.8 | 153.5 | 186.6 | 2.00 | 1.97 | -0.99 |
| 1,514.5 | 21.24 | 46.44 | 1,489.6 | 117.2 | 162.5 | 198.9 | 2.00 | 1.97 | -0.92 |
| 1,520.0 | 21.24 | 46.44 | 1,494.7 | 118.6 | 163.9 | 200.9 | 0.00 | 0.00 | 0.00 |
| 1,560.0 | 21.24 | 46.44 | 1,532.0 | 128.6 | 174.4 | 215.4 | 0.00 | 0.00 | 0.00 |
| 1,600.0 | 21.24 | 46.44 | 1,569.2 | 138.6 | 184.9 | 229.9 | 0.00 | 0.00 | 0.00 |
| 1,640.0 | 21.24 | 46.44 | 1,606.5 | 148.6 | 195.4 | 244.4 | 0.00 | 0.00 | 0.00 |
| 1,680.0 | 21.24 | 46.44 | 1,643.8 | 158.6 | 205.9 | 258.9 | 0.00 | 0.00 | 0.00 |
| 1,720.0 | 21.24 | 46.44 | 1,681.1 | 168.6 | 216.4 | 273.4 | 0.00 | 0.00 | 0.00 |
| 1,760.0 | 21.24 | 46.44 | 1,718.4 | 178.5 | 227.0 | 287.9 | 0.00 | 0.00 | 0.00 |
| 1,800.0 | 21.24 | 46.44 | 1,755.6 | 188.5 | 237.5 | 302.4 | 0.00 | 0.00 | 0.00 |
| 1,840.0 | 21.24 | 46.44 | 1,792.9 | 198.5 | 248.0 | 316.9 | 0.00 | 0.00 | 0.00 |
| 1,880.0 | 21.24 | 46.44 | 1,830.2 | 208.5 | 258.5 | 331.4 | 0.00 | 0.00 | 0.00 |
| 1,920.0 | 21.24 | 46.44 | 1,867.5 | 218.5 | 269.0 | 345.9 | 0.00 | 0.00 | 0.00 |
| 1,960.0 | 21.24 | 46.44 | 1,904.8 | 228.5 | 279.5 | 360.4 | 0.00 | 0.00 | 0.00 |

Database: Landmark
Company: NOBLE ENERGY INC WELD COUNTY CO
Project: SEC.17-T3N-R65W
Site: REI H17-21D Pad Sec.17-T3N-R65W
Well: REI H17-28D
Wellbore: Wellbore #1
Design: Noble NEI H17-28D Plan #2 (2-20-12)

Local Co-ordinate Reference: Well REI H17-28D
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MD Reference: WELL @ 4941.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

Planned Survey

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| 2,000.0 | 21.24 | 46.44 | 1,942.1 | 238.5 | 290.0 | 374.8 | 0.00 | 0.00 | 0.00 |
| 2,040.0 | 21.24 | 46.44 | 1,979.3 | 248.5 | 300.5 | 389.3 | 0.00 | 0.00 | 0.00 |
| 2,080.0 | 21.24 | 46.44 | 2,016.6 | 258.4 | 311.0 | 403.8 | 0.00 | 0.00 | 0.00 |
| 2,120.0 | 21.24 | 46.44 | 2,053.9 | 268.4 | 321.5 | 418.3 | 0.00 | 0.00 | 0.00 |
| 2,160.0 | 21.24 | 46.44 | 2,091.2 | 278.4 | 332.0 | 432.8 | 0.00 | 0.00 | 0.00 |
| 2,200.0 | 21.24 | 46.44 | 2,128.5 | 288.4 | 342.5 | 447.3 | 0.00 | 0.00 | 0.00 |
| 2,240.0 | 21.24 | 46.44 | 2,165.7 | 298.4 | 353.0 | 461.8 | 0.00 | 0.00 | 0.00 |
| 2,280.0 | 21.24 | 46.44 | 2,203.0 | 308.4 | 363.5 | 476.3 | 0.00 | 0.00 | 0.00 |
| 2,320.0 | 21.24 | 46.44 | 2,240.3 | 318.4 | 374.0 | 490.8 | 0.00 | 0.00 | 0.00 |
| 2,360.0 | 21.24 | 46.44 | 2,277.6 | 328.4 | 384.5 | 505.3 | 0.00 | 0.00 | 0.00 |
| 2,400.0 | 21.24 | 46.44 | 2,314.9 | 338.3 | 395.0 | 519.8 | 0.00 | 0.00 | 0.00 |
| 2,440.0 | 21.24 | 46.44 | 2,352.2 | 348.3 | 405.5 | 534.3 | 0.00 | 0.00 | 0.00 |
| 2,480.0 | 21.24 | 46.44 | 2,389.4 | 358.3 | 416.0 | 548.7 | 0.00 | 0.00 | 0.00 |
| 2,520.0 | 21.24 | 46.44 | 2,426.7 | 368.3 | 426.5 | 563.2 | 0.00 | 0.00 | 0.00 |
| 2,560.0 | 21.24 | 46.44 | 2,464.0 | 378.3 | 437.0 | 577.7 | 0.00 | 0.00 | 0.00 |
| 2,600.0 | 21.24 | 46.44 | 2,501.3 | 388.3 | 447.5 | 592.2 | 0.00 | 0.00 | 0.00 |
| 2,640.0 | 21.24 | 46.44 | 2,538.6 | 398.3 | 458.0 | 606.7 | 0.00 | 0.00 | 0.00 |
| 2,680.0 | 21.24 | 46.44 | 2,575.8 | 408.3 | 468.5 | 621.2 | 0.00 | 0.00 | 0.00 |
| 2,720.0 | 21.24 | 46.44 | 2,613.1 | 418.3 | 479.0 | 635.7 | 0.00 | 0.00 | 0.00 |
| 2,760.0 | 21.24 | 46.44 | 2,650.4 | 428.2 | 489.5 | 650.2 | 0.00 | 0.00 | 0.00 |
| 2,800.0 | 21.24 | 46.44 | 2,687.7 | 438.2 | 500.0 | 664.7 | 0.00 | 0.00 | 0.00 |
| 2,840.0 | 21.24 | 46.44 | 2,725.0 | 448.2 | 510.5 | 679.2 | 0.00 | 0.00 | 0.00 |
| 2,880.0 | 21.24 | 46.44 | 2,762.3 | 458.2 | 521.0 | 693.7 | 0.00 | 0.00 | 0.00 |
| 2,920.0 | 21.24 | 46.44 | 2,799.5 | 468.2 | 531.5 | 708.2 | 0.00 | 0.00 | 0.00 |
| 2,960.0 | 21.24 | 46.44 | 2,836.8 | 478.2 | 542.0 | 722.7 | 0.00 | 0.00 | 0.00 |
| 3,000.0 | 21.24 | 46.44 | 2,874.1 | 488.2 | 552.6 | 737.1 | 0.00 | 0.00 | 0.00 |
| 3,040.0 | 21.24 | 46.44 | 2,911.4 | 498.2 | 563.1 | 751.6 | 0.00 | 0.00 | 0.00 |
| 3,080.0 | 21.24 | 46.44 | 2,948.7 | 508.1 | 573.6 | 766.1 | 0.00 | 0.00 | 0.00 |
| 3,120.0 | 21.24 | 46.44 | 2,985.9 | 518.1 | 584.1 | 780.6 | 0.00 | 0.00 | 0.00 |
| 3,160.0 | 21.24 | 46.44 | 3,023.2 | 528.1 | 594.6 | 795.1 | 0.00 | 0.00 | 0.00 |
| 3,200.0 | 21.24 | 46.44 | 3,060.5 | 538.1 | 605.1 | 809.6 | 0.00 | 0.00 | 0.00 |
| 3,240.0 | 21.24 | 46.44 | 3,097.8 | 548.1 | 615.6 | 824.1 | 0.00 | 0.00 | 0.00 |
| 3,280.0 | 21.24 | 46.44 | 3,135.1 | 558.1 | 626.1 | 838.6 | 0.00 | 0.00 | 0.00 |
| 3,320.0 | 21.24 | 46.44 | 3,172.3 | 568.1 | 636.6 | 853.1 | 0.00 | 0.00 | 0.00 |
| 3,360.0 | 21.24 | 46.44 | 3,209.6 | 578.1 | 647.1 | 867.6 | 0.00 | 0.00 | 0.00 |
| 3,400.0 | 21.24 | 46.44 | 3,246.9 | 588.0 | 657.6 | 882.1 | 0.00 | 0.00 | 0.00 |
| 3,440.0 | 21.24 | 46.44 | 3,284.2 | 598.0 | 668.1 | 896.6 | 0.00 | 0.00 | 0.00 |
| 3,480.0 | 21.24 | 46.44 | 3,321.5 | 608.0 | 678.6 | 911.1 | 0.00 | 0.00 | 0.00 |
| 3,520.0 | 21.24 | 46.44 | 3,358.8 | 618.0 | 689.1 | 925.5 | 0.00 | 0.00 | 0.00 |
| 3,560.0 | 21.24 | 46.44 | 3,396.0 | 628.0 | 699.6 | 940.0 | 0.00 | 0.00 | 0.00 |
| 3,600.0 | 21.24 | 46.44 | 3,433.3 | 638.0 | 710.1 | 954.5 | 0.00 | 0.00 | 0.00 |
| 3,640.0 | 21.24 | 46.44 | 3,470.6 | 648.0 | 720.6 | 969.0 | 0.00 | 0.00 | 0.00 |
| 3,680.0 | 21.24 | 46.44 | 3,507.9 | 658.0 | 731.1 | 983.5 | 0.00 | 0.00 | 0.00 |
| 3,720.0 | 21.24 | 46.44 | 3,545.2 | 667.9 | 741.6 | 998.0 | 0.00 | 0.00 | 0.00 |
| 3,760.0 | 21.24 | 46.44 | 3,582.4 | 677.9 | 752.1 | 1,012.5 | 0.00 | 0.00 | 0.00 |
| 3,800.0 | 21.24 | 46.44 | 3,619.7 | 687.9 | 762.6 | 1,027.0 | 0.00 | 0.00 | 0.00 |
| 3,840.0 | 21.24 | 46.44 | 3,657.0 | 697.9 | 773.1 | 1,041.5 | 0.00 | 0.00 | 0.00 |
| 3,880.0 | 21.24 | 46.44 | 3,694.3 | 707.9 | 783.6 | 1,056.0 | 0.00 | 0.00 | 0.00 |
| 3,920.0 | 21.24 | 46.44 | 3,731.6 | 717.9 | 794.1 | 1,070.5 | 0.00 | 0.00 | 0.00 |
| 3,960.0 | 21.24 | 46.44 | 3,768.9 | 727.9 | 804.6 | 1,085.0 | 0.00 | 0.00 | 0.00 |
| 4,000.0 | 21.24 | 46.44 | 3,806.1 | 737.9 | 815.1 | 1,099.5 | 0.00 | 0.00 | 0.00 |
| 4,040.0 | 21.24 | 46.44 | 3,843.4 | 747.9 | 825.6 | 1,113.9 | 0.00 | 0.00 | 0.00 |
| 4,080.0 | 21.24 | 46.44 | 3,880.7 | 757.8 | 836.1 | 1,128.4 | 0.00 | 0.00 | 0.00 |
| 4,120.0 | 21.24 | 46.44 | 3,918.0 | 767.8 | 846.6 | 1,142.9 | 0.00 | 0.00 | 0.00 |

Database: Landmark
Company: NOBLE ENERGY INC WELD COUNTY CO
Project: SEC.17-T3N-R65W
Site: REI H17-21D Pad Sec.17-T3N-R65W
Well: REI H17-28D
Wellbore: Wellbore #1
Design: Noble NEI H17-28D Plan #2 (2-20-12)

Local Co-ordinate Reference: Well REI H17-28D
TVD Reference: WELL @ 4941.0ft (Original Well Elev)
MD Reference: WELL @ 4941.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

Planned Survey

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| 4,160.0 | 21.24 | 46.44 | 3,955.3 | 777.8 | 857.1 | 1,157.4 | 0.00 | 0.00 | 0.00 |
| 4,200.0 | 21.24 | 46.44 | 3,992.5 | 787.8 | 867.6 | 1,171.9 | 0.00 | 0.00 | 0.00 |
| 4,240.0 | 21.24 | 46.44 | 4,029.8 | 797.8 | 878.2 | 1,186.4 | 0.00 | 0.00 | 0.00 |
| 4,280.0 | 21.24 | 46.44 | 4,067.1 | 807.8 | 888.7 | 1,200.9 | 0.00 | 0.00 | 0.00 |
| 4,320.0 | 21.24 | 46.44 | 4,104.4 | 817.8 | 899.2 | 1,215.4 | 0.00 | 0.00 | 0.00 |
| 4,360.0 | 21.24 | 46.44 | 4,141.7 | 827.8 | 909.7 | 1,229.9 | 0.00 | 0.00 | 0.00 |
| 4,400.0 | 21.24 | 46.44 | 4,179.0 | 837.7 | 920.2 | 1,244.4 | 0.00 | 0.00 | 0.00 |
| 4,440.0 | 21.24 | 46.44 | 4,216.2 | 847.7 | 930.7 | 1,258.9 | 0.00 | 0.00 | 0.00 |
| 4,480.0 | 21.24 | 46.44 | 4,253.5 | 857.7 | 941.2 | 1,273.4 | 0.00 | 0.00 | 0.00 |
| 4,520.0 | 21.24 | 46.44 | 4,290.8 | 867.7 | 951.7 | 1,287.8 | 0.00 | 0.00 | 0.00 |
| 4,560.0 | 21.24 | 46.44 | 4,328.1 | 877.7 | 962.2 | 1,302.3 | 0.00 | 0.00 | 0.00 |
| 4,600.0 | 21.24 | 46.44 | 4,365.4 | 887.7 | 972.7 | 1,316.8 | 0.00 | 0.00 | 0.00 |
| 4,640.0 | 21.24 | 46.44 | 4,402.6 | 897.7 | 983.2 | 1,331.3 | 0.00 | 0.00 | 0.00 |
| 4,680.0 | 21.24 | 46.44 | 4,439.9 | 907.7 | 993.7 | 1,345.8 | 0.00 | 0.00 | 0.00 |
| 4,720.0 | 21.24 | 46.44 | 4,477.2 | 917.6 | 1,004.2 | 1,360.3 | 0.00 | 0.00 | 0.00 |
| 4,760.0 | 21.24 | 46.44 | 4,514.5 | 927.6 | 1,014.7 | 1,374.8 | 0.00 | 0.00 | 0.00 |
| 4,800.0 | 21.24 | 46.44 | 4,551.8 | 937.6 | 1,025.2 | 1,389.3 | 0.00 | 0.00 | 0.00 |
| 4,840.0 | 21.24 | 46.44 | 4,589.1 | 947.6 | 1,035.7 | 1,403.8 | 0.00 | 0.00 | 0.00 |
| 4,880.0 | 21.24 | 46.44 | 4,626.3 | 957.6 | 1,046.2 | 1,418.3 | 0.00 | 0.00 | 0.00 |
| 4,920.0 | 21.24 | 46.44 | 4,663.6 | 967.6 | 1,056.7 | 1,432.8 | 0.00 | 0.00 | 0.00 |
| 4,960.0 | 21.24 | 46.44 | 4,700.9 | 977.6 | 1,067.2 | 1,447.3 | 0.00 | 0.00 | 0.00 |
| 5,000.0 | 21.24 | 46.44 | 4,738.2 | 987.6 | 1,077.7 | 1,461.8 | 0.00 | 0.00 | 0.00 |
| 5,040.0 | 21.24 | 46.44 | 4,775.5 | 997.5 | 1,088.2 | 1,476.2 | 0.00 | 0.00 | 0.00 |
| 5,080.0 | 21.24 | 46.44 | 4,812.7 | 1,007.5 | 1,098.7 | 1,490.7 | 0.00 | 0.00 | 0.00 |
| 5,120.0 | 21.24 | 46.44 | 4,850.0 | 1,017.5 | 1,109.2 | 1,505.2 | 0.00 | 0.00 | 0.00 |
| 5,132.8 | 21.24 | 46.44 | 4,861.9 | 1,020.7 | 1,112.6 | 1,509.9 | 0.00 | 0.00 | 0.00 |
| 5,160.0 | 20.70 | 46.44 | 4,887.4 | 1,027.4 | 1,119.6 | 1,519.6 | 2.00 | -2.00 | 0.00 |
| 5,200.0 | 19.90 | 46.44 | 4,924.9 | 1,037.0 | 1,129.7 | 1,533.5 | 2.00 | -2.00 | 0.00 |
| 5,240.0 | 19.10 | 46.44 | 4,962.6 | 1,046.2 | 1,139.4 | 1,546.8 | 2.00 | -2.00 | 0.00 |
| 5,280.0 | 18.30 | 46.44 | 5,000.5 | 1,055.0 | 1,148.7 | 1,559.7 | 2.00 | -2.00 | 0.00 |
| 5,320.0 | 17.50 | 46.44 | 5,038.5 | 1,063.5 | 1,157.6 | 1,571.9 | 2.00 | -2.00 | 0.00 |
| 5,360.0 | 16.70 | 46.44 | 5,076.8 | 1,071.6 | 1,166.1 | 1,583.7 | 2.00 | -2.00 | 0.00 |
| 5,400.0 | 15.90 | 46.44 | 5,115.1 | 1,079.3 | 1,174.2 | 1,594.9 | 2.00 | -2.00 | 0.00 |
| 5,440.0 | 15.10 | 46.44 | 5,153.7 | 1,086.7 | 1,182.0 | 1,605.6 | 2.00 | -2.00 | 0.00 |
| 5,480.0 | 14.30 | 46.44 | 5,192.4 | 1,093.7 | 1,189.3 | 1,615.8 | 2.00 | -2.00 | 0.00 |
| 5,520.0 | 13.50 | 46.44 | 5,231.2 | 1,100.3 | 1,196.3 | 1,625.4 | 2.00 | -2.00 | 0.00 |
| 5,560.0 | 12.70 | 46.44 | 5,270.2 | 1,106.6 | 1,202.9 | 1,634.4 | 2.00 | -2.00 | 0.00 |
| 5,600.0 | 11.90 | 46.44 | 5,309.3 | 1,112.4 | 1,209.0 | 1,643.0 | 2.00 | -2.00 | 0.00 |
| 5,640.0 | 11.10 | 46.44 | 5,348.4 | 1,117.9 | 1,214.8 | 1,650.9 | 2.00 | -2.00 | 0.00 |
| 5,680.0 | 10.30 | 46.44 | 5,387.8 | 1,123.1 | 1,220.2 | 1,658.4 | 2.00 | -2.00 | 0.00 |
| 5,720.0 | 9.50 | 46.44 | 5,427.2 | 1,127.8 | 1,225.2 | 1,665.2 | 2.00 | -2.00 | 0.00 |
| 5,760.0 | 8.70 | 46.44 | 5,466.7 | 1,132.2 | 1,229.8 | 1,671.6 | 2.00 | -2.00 | 0.00 |
| 5,800.0 | 7.90 | 46.44 | 5,506.2 | 1,136.1 | 1,234.0 | 1,677.3 | 2.00 | -2.00 | 0.00 |
| 5,840.0 | 7.10 | 46.44 | 5,545.9 | 1,139.7 | 1,237.7 | 1,682.6 | 2.00 | -2.00 | 0.00 |
| 5,880.0 | 6.30 | 46.44 | 5,585.6 | 1,143.0 | 1,241.1 | 1,687.2 | 2.00 | -2.00 | 0.00 |
| 5,920.0 | 5.50 | 46.44 | 5,625.4 | 1,145.8 | 1,244.1 | 1,691.3 | 2.00 | -2.00 | 0.00 |
| 5,960.0 | 4.70 | 46.44 | 5,665.2 | 1,148.2 | 1,246.7 | 1,694.9 | 2.00 | -2.00 | 0.00 |
| 6,000.0 | 3.90 | 46.44 | 5,705.1 | 1,150.3 | 1,248.9 | 1,697.9 | 2.00 | -2.00 | 0.00 |
| 6,040.0 | 3.10 | 46.44 | 5,745.1 | 1,152.0 | 1,250.6 | 1,700.3 | 2.00 | -2.00 | 0.00 |
| 6,080.0 | 2.30 | 46.44 | 5,785.0 | 1,153.3 | 1,252.0 | 1,702.2 | 2.00 | -2.00 | 0.00 |
| 6,120.0 | 1.50 | 46.44 | 5,825.0 | 1,154.2 | 1,252.9 | 1,703.5 | 2.00 | -2.00 | 0.00 |
| 6,160.0 | 0.70 | 46.44 | 5,865.0 | 1,154.7 | 1,253.5 | 1,704.3 | 2.00 | -2.00 | 0.00 |
| 6,195.0 | 0.00 | 0.00 | 5,900.0 | 1,154.9 | 1,253.7 | 1,704.5 | 2.00 | -2.00 | 0.00 |

TARGET BHL 75°FNL & 2565°FNL

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Local Co-ordinate Reference: Well REI H17-28D
TVD Reference: WELL @ 4941.0ft (Original Well Elev)
MD Reference: WELL @ 4941.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

Planned Survey

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|------------------------------------------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| 6,200.0 | 0.00 | 0.00 | 5,905.0 | 1,154.9 | 1,253.7 | 1,704.5 | 0.00 | 0.00 | 0.00 |
| 6,240.0 | 0.00 | 0.00 | 5,945.0 | 1,154.9 | 1,253.7 | 1,704.5 | 0.00 | 0.00 | 0.00 |
| 6,280.0 | 0.00 | 0.00 | 5,985.0 | 1,154.9 | 1,253.7 | 1,704.5 | 0.00 | 0.00 | 0.00 |
| 6,320.0 | 0.00 | 0.00 | 6,025.0 | 1,154.9 | 1,253.7 | 1,704.5 | 0.00 | 0.00 | 0.00 |
| 6,360.0 | 0.00 | 0.00 | 6,065.0 | 1,154.9 | 1,253.7 | 1,704.5 | 0.00 | 0.00 | 0.00 |
| 6,400.0 | 0.00 | 0.00 | 6,105.0 | 1,154.9 | 1,253.7 | 1,704.5 | 0.00 | 0.00 | 0.00 |
| 6,440.0 | 0.00 | 0.00 | 6,145.0 | 1,154.9 | 1,253.7 | 1,704.5 | 0.00 | 0.00 | 0.00 |
| 6,480.0 | 0.00 | 0.00 | 6,185.0 | 1,154.9 | 1,253.7 | 1,704.5 | 0.00 | 0.00 | 0.00 |
| 6,520.0 | 0.00 | 0.00 | 6,225.0 | 1,154.9 | 1,253.7 | 1,704.5 | 0.00 | 0.00 | 0.00 |
| 6,560.0 | 0.00 | 0.00 | 6,265.0 | 1,154.9 | 1,253.7 | 1,704.5 | 0.00 | 0.00 | 0.00 |
| 6,600.0 | 0.00 | 0.00 | 6,305.0 | 1,154.9 | 1,253.7 | 1,704.5 | 0.00 | 0.00 | 0.00 |
| 6,640.0 | 0.00 | 0.00 | 6,345.0 | 1,154.9 | 1,253.7 | 1,704.5 | 0.00 | 0.00 | 0.00 |
| 6,680.0 | 0.00 | 0.00 | 6,385.0 | 1,154.9 | 1,253.7 | 1,704.5 | 0.00 | 0.00 | 0.00 |
| 6,720.0 | 0.00 | 0.00 | 6,425.0 | 1,154.9 | 1,253.7 | 1,704.5 | 0.00 | 0.00 | 0.00 |
| 6,760.0 | 0.00 | 0.00 | 6,465.0 | 1,154.9 | 1,253.7 | 1,704.5 | 0.00 | 0.00 | 0.00 |
| 6,800.0 | 0.00 | 0.00 | 6,505.0 | 1,154.9 | 1,253.7 | 1,704.5 | 0.00 | 0.00 | 0.00 |
| 6,840.0 | 0.00 | 0.00 | 6,545.0 | 1,154.9 | 1,253.7 | 1,704.5 | 0.00 | 0.00 | 0.00 |
| 6,880.0 | 0.00 | 0.00 | 6,585.0 | 1,154.9 | 1,253.7 | 1,704.5 | 0.00 | 0.00 | 0.00 |
| 6,920.0 | 0.00 | 0.00 | 6,625.0 | 1,154.9 | 1,253.7 | 1,704.5 | 0.00 | 0.00 | 0.00 |
| 6,960.0 | 0.00 | 0.00 | 6,665.0 | 1,154.9 | 1,253.7 | 1,704.5 | 0.00 | 0.00 | 0.00 |
| 7,000.0 | 0.00 | 0.00 | 6,705.0 | 1,154.9 | 1,253.7 | 1,704.5 | 0.00 | 0.00 | 0.00 |
| 7,040.0 | 0.00 | 0.00 | 6,745.0 | 1,154.9 | 1,253.7 | 1,704.5 | 0.00 | 0.00 | 0.00 |
| 7,080.0 | 0.00 | 0.00 | 6,785.0 | 1,154.9 | 1,253.7 | 1,704.5 | 0.00 | 0.00 | 0.00 |
| 7,120.0 | 0.00 | 0.00 | 6,825.0 | 1,154.9 | 1,253.7 | 1,704.5 | 0.00 | 0.00 | 0.00 |
| 7,160.0 | 0.00 | 0.00 | 6,865.0 | 1,154.9 | 1,253.7 | 1,704.5 | 0.00 | 0.00 | 0.00 |
| 7,188.0 | 0.00 | 0.00 | 6,893.0 | 1,154.9 | 1,253.7 | 1,704.5 | 0.00 | 0.00 | 0.00 |
| NIORARA - TARGET CIRCLE 75'FNL & 2565'FWL | | | | | | | | | |
| 7,200.0 | 0.00 | 0.00 | 6,905.0 | 1,154.9 | 1,253.7 | 1,704.5 | 0.00 | 0.00 | 0.00 |
| 7,240.0 | 0.00 | 0.00 | 6,945.0 | 1,154.9 | 1,253.7 | 1,704.5 | 0.00 | 0.00 | 0.00 |
| 7,280.0 | 0.00 | 0.00 | 6,985.0 | 1,154.9 | 1,253.7 | 1,704.5 | 0.00 | 0.00 | 0.00 |
| 7,320.0 | 0.00 | 0.00 | 7,025.0 | 1,154.9 | 1,253.7 | 1,704.5 | 0.00 | 0.00 | 0.00 |
| 7,360.0 | 0.00 | 0.00 | 7,065.0 | 1,154.9 | 1,253.7 | 1,704.5 | 0.00 | 0.00 | 0.00 |
| 7,400.0 | 0.00 | 0.00 | 7,105.0 | 1,154.9 | 1,253.7 | 1,704.5 | 0.00 | 0.00 | 0.00 |
| 7,440.0 | 0.00 | 0.00 | 7,145.0 | 1,154.9 | 1,253.7 | 1,704.5 | 0.00 | 0.00 | 0.00 |
| 7,480.0 | 0.00 | 0.00 | 7,185.0 | 1,154.9 | 1,253.7 | 1,704.5 | 0.00 | 0.00 | 0.00 |
| 7,491.0 | 0.00 | 0.00 | 7,196.0 | 1,154.9 | 1,253.7 | 1,704.5 | 0.00 | 0.00 | 0.00 |
| CODELL | | | | | | | | | |
| 7,520.0 | 0.00 | 0.00 | 7,225.0 | 1,154.9 | 1,253.7 | 1,704.5 | 0.00 | 0.00 | 0.00 |
| 7,560.0 | 0.00 | 0.00 | 7,265.0 | 1,154.9 | 1,253.7 | 1,704.5 | 0.00 | 0.00 | 0.00 |
| 7,600.0 | 0.00 | 0.00 | 7,305.0 | 1,154.9 | 1,253.7 | 1,704.5 | 0.00 | 0.00 | 0.00 |
| 7,640.0 | 0.00 | 0.00 | 7,345.0 | 1,154.9 | 1,253.7 | 1,704.5 | 0.00 | 0.00 | 0.00 |
| 7,680.0 | 0.00 | 0.00 | 7,385.0 | 1,154.9 | 1,253.7 | 1,704.5 | 0.00 | 0.00 | 0.00 |
| 7,720.0 | 0.00 | 0.00 | 7,425.0 | 1,154.9 | 1,253.7 | 1,704.5 | 0.00 | 0.00 | 0.00 |
| 7,760.0 | 0.00 | 0.00 | 7,465.0 | 1,154.9 | 1,253.7 | 1,704.5 | 0.00 | 0.00 | 0.00 |
| 7,800.0 | 0.00 | 0.00 | 7,505.0 | 1,154.9 | 1,253.7 | 1,704.5 | 0.00 | 0.00 | 0.00 |
| 7,840.0 | 0.00 | 0.00 | 7,545.0 | 1,154.9 | 1,253.7 | 1,704.5 | 0.00 | 0.00 | 0.00 |
| 7,880.0 | 0.00 | 0.00 | 7,585.0 | 1,154.9 | 1,253.7 | 1,704.5 | 0.00 | 0.00 | 0.00 |
| 7,899.0 | 0.00 | 0.00 | 7,604.0 | 1,154.9 | 1,253.7 | 1,704.5 | 0.00 | 0.00 | 0.00 |
| D-SAND | | | | | | | | | |
| 7,920.0 | 0.00 | 0.00 | 7,625.0 | 1,154.9 | 1,253.7 | 1,704.5 | 0.00 | 0.00 | 0.00 |
| 7,934.0 | 0.00 | 0.00 | 7,639.0 | 1,154.9 | 1,253.7 | 1,704.5 | 0.00 | 0.00 | 0.00 |
| J-SAND | | | | | | | | | |
| 7,960.0 | 0.00 | 0.00 | 7,665.0 | 1,154.9 | 1,253.7 | 1,704.5 | 0.00 | 0.00 | 0.00 |

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 North Reference: True
 Survey Calculation Method: Minimum Curvature

Planned Survey

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| 8,000.0 | 0.00 | 0.00 | 7,705.0 | 1,154.9 | 1,253.7 | 1,704.5 | 0.00 | 0.00 | 0.00 |
| 8,040.0 | 0.00 | 0.00 | 7,745.0 | 1,154.9 | 1,253.7 | 1,704.5 | 0.00 | 0.00 | 0.00 |
| 8,080.0 | 0.00 | 0.00 | 7,785.0 | 1,154.9 | 1,253.7 | 1,704.5 | 0.00 | 0.00 | 0.00 |
| 8,084.0 | 0.00 | 0.00 | 7,789.0 | 1,154.9 | 1,253.7 | 1,704.5 | 0.00 | 0.00 | 0.00 |

HARDLINES 75°N & 99°E OF BHL

Targets
Target Name

| - hit/miss target - Shape | Dip Angle (°) | Dip Dir. (°) | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Northing (ft) | Easting (ft) | Latitude | Longitude |
|----------------------------------------------------------------------------------------|---------------|--------------|----------|------------|------------|---------------|--------------|-----------|-------------|
| HARDLINES 75°N & 99°E | 0.00 | 0.00 | 7,789.0 | 1,229.9 | 1,352.6 | 1,328,634.67 | 3,226,905.00 | 40.232646 | -104.687285 |
| - plan misses target center by 124.2ft at 8084.0ft MD (7789.0 TVD, 1154.9 N, 1253.7 E) | | | | | | | | | |
| - Polygon | | | | | | | | | |
| Point 1 | | | 7,789.0 | 0.0 | 0.0 | 1,328,634.67 | 3,226,905.00 | | |
| Point 2 | | | 7,789.0 | 0.0 | -200.0 | 1,328,632.85 | 3,226,705.01 | | |
| Point 3 | | | 7,789.0 | 0.0 | 0.0 | 1,328,634.67 | 3,226,905.00 | | |
| Point 4 | | | 7,789.0 | -200.0 | 0.0 | 1,328,434.69 | 3,226,906.82 | | |
| TARGET BHL 75°FNL | 0.00 | 0.00 | 5,900.0 | 1,154.9 | 1,253.7 | 1,328,558.75 | 3,226,806.70 | 40.232440 | -104.687640 |
| - plan hits target center | | | | | | | | | |
| - Point | | | | | | | | | |
| TARGET CIRCLE 75' | 0.00 | 0.00 | 6,893.0 | 1,154.9 | 1,253.7 | 1,328,558.75 | 3,226,806.70 | 40.232440 | -104.687640 |
| - plan hits target center | | | | | | | | | |
| - Circle (radius 75.0) | | | | | | | | | |

Casing Points

| Measured Depth (ft) | Vertical Depth (ft) | Name | Casing Diameter (") | Hole Diameter (") |
|---------------------|---------------------|--------|---------------------|-------------------|
| 725.7 | 725.0 | 8 5/8" | 8-5/8 | 12-1/4 |

Formations

| Measured Depth (ft) | Vertical Depth (ft) | Name | Lithology | Dip (°) | Dip Direction (°) |
|---------------------|---------------------|----------|-----------|---------|-------------------|
| 7,188.0 | 6,893.0 | NIOBRARA | | 0.00 | |
| 7,491.0 | 7,196.0 | CODELL | | 0.00 | |
| 7,899.0 | 7,604.0 | D-SAND | | 0.00 | |
| 7,934.0 | 7,639.0 | J-SAND | | 0.00 | |