

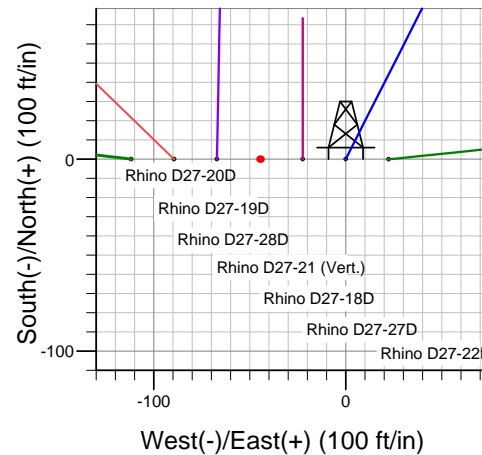
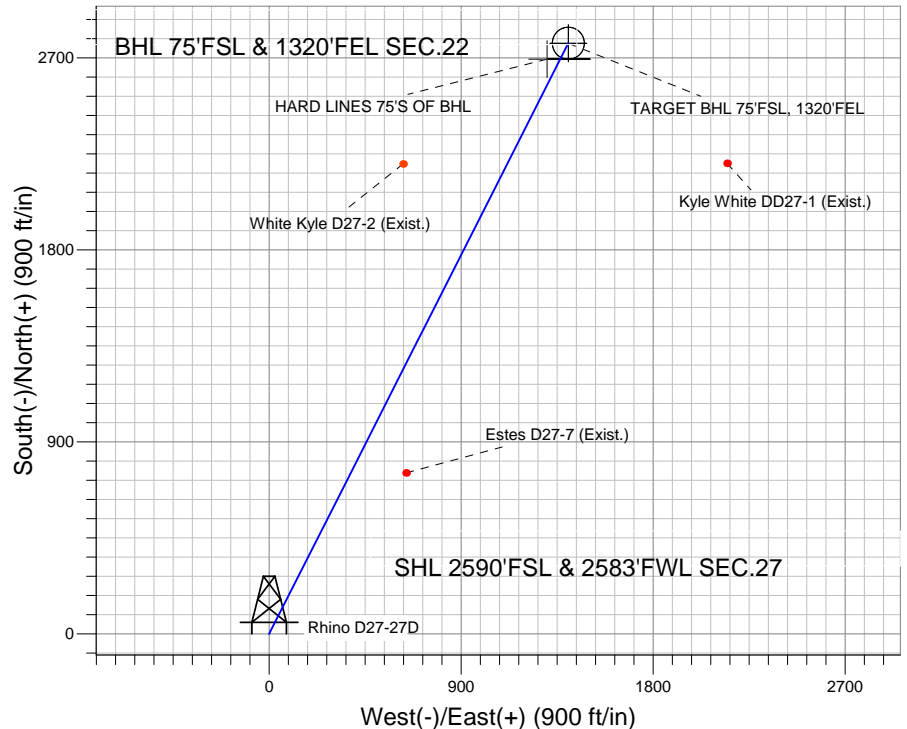
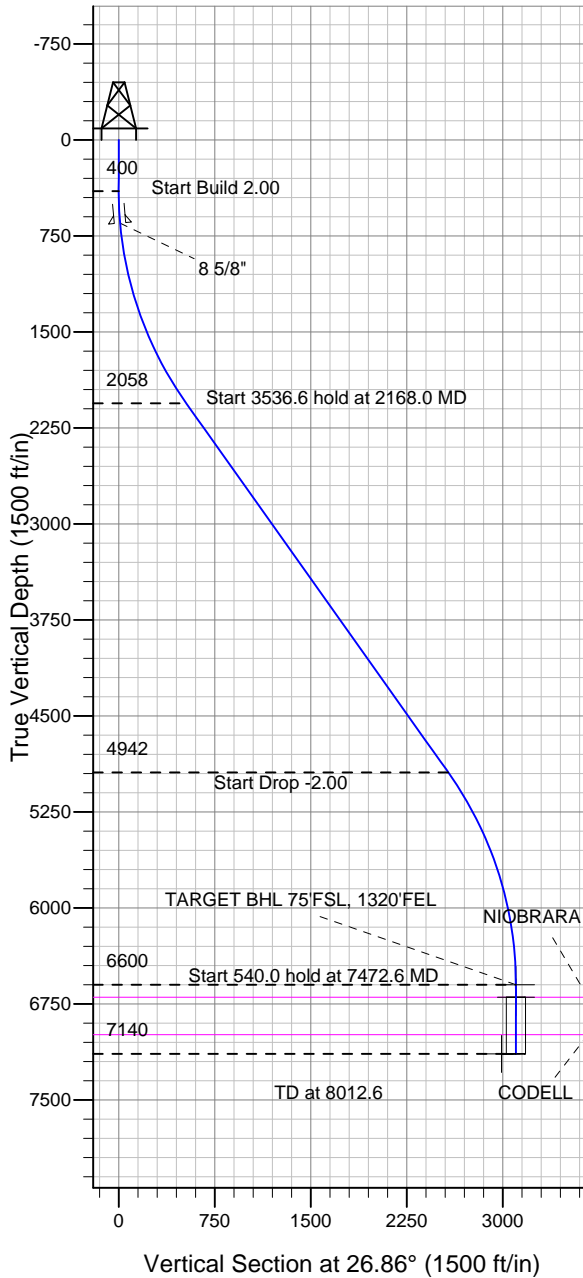
ENSIGN

Directional

Well Name: Rhino D27-27D

Surface Location: Rhino D27-20D Pad Sec.27-T3N-R64W
 North American Datum 1983 US State Plane 1983 Colorado Northern Zone
 Ground Elevation: 4866.0
 +N/-S +E/-W Northing Easting Latitude Longitude Slot
 0.0 0.0 1315787.52 3268799.63 40.196230 -104.537740
 Original Well Elev WELL @ 4879.0ft (Original Well Elev)

NOBLE ENERGY INC WELD COUNTY CO



Rhino D27-20D Pad Sec.27-T3N-R64W
 Rhino D27-27D
 Noble Rhino D27-27D Plan #1 (5-02-11)
 7:08, May 02 2011



Azimuths to True North
 Magnetic North: 8.74°

Magnetic Field
 Strength: 53061.2snT
 Dip Angle: 66.93°
 Date: 5/2/2011
 Model: IGRF2010

WELLBORE TARGET DETAILS (LAT/LONG)

| Name | TVD | +N/-S | +E/-W | Latitude | Longitude | Shape |
|---------------------------------|--------|--------|--------|-----------|-------------|-----------------------|
| TARGET BHL 75'FSL, 1320'FEL | 6600.0 | 2768.8 | 1402.2 | 40.203830 | -104.532720 | Point |
| TARGET CIRCLE 75'FSL & 1320'FEL | 6698.0 | 2768.8 | 1402.2 | 40.203830 | -104.532720 | Circle (Radius: 75.0) |
| HARD LINES 75'S OF BHL | 7140.0 | 2693.8 | 1302.2 | 40.203624 | -104.533078 | Polygon |

SECTION DETAILS

| Sec | MD | Inc | Azi | TVD | +N/-S | +E/-W | DLeg | TFace | VSec | Target |
|-----|--------|-------|-------|--------|--------|--------|------|--------|--------|-----------------------------|
| 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 | 2168.0 | 35.36 | 26.86 | 2057.9 | 471.5 | 238.8 | 2.00 | 26.86 | 528.5 | |
| 4 | 5704.6 | 35.36 | 26.86 | 4942.1 | 2297.3 | 1163.5 | 0.00 | 0.00 | 2575.1 | |
| 5 | 7472.6 | 0.00 | 0.00 | 6600.0 | 2768.8 | 1402.2 | 2.00 | 180.00 | 3103.6 | TARGET BHL 75'FSL, 1320'FEL |
| 6 | 8012.6 | 0.00 | 0.00 | 7140.0 | 2768.8 | 1402.2 | 0.00 | 0.00 | 3103.6 | |



Directional

NOBLE ENERGY INC WELD COUNTY CO

SEC.27-T3N-R64W

Rhino D27-20D Pad Sec.27-T3N-R64W

Rhino D27-27D

Wellbore #1

Plan: Noble Rhino D27-27D Plan #1 (5-02-11)

Standard Planning Report

02 May, 2011



| | | | |
|------------------|---------------------------------------|-------------------------------------|--------------------------------------|
| Database: | Landmark | Local Co-ordinate Reference: | Well Rhino D27-27D |
| Company: | NOBLE ENERGY INC WELD COUNTY CO | TVD Reference: | WELL @ 4879.0ft (Original Well Elev) |
| Project: | SEC.27-T3N-R64W | MD Reference: | WELL @ 4879.0ft (Original Well Elev) |
| Site: | Rhino D27-20D Pad Sec.27-T3N-R64W | North Reference: | True |
| Well: | Rhino D27-27D | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Noble Rhino D27-27D Plan #1 (5-02-11) | | |

| | | | |
|--------------------|--|----------------------|-----------------------------|
| Project | SEC.27-T3N-R64W, Weld County, Colorado | | |
| Map System: | US State Plane 1983 | System Datum: | Mean Sea Level |
| Geo Datum: | North American Datum 1983 | | Using Well Reference Point |
| Map Zone: | Colorado Northern Zone | | Using geodetic scale factor |

| Site | | | | | | Rhino D27-20D Pad Sec.27-T3N-R64W | | | | | | | | | | | |
|-----------------------|--|--|----------|--|--|-----------------------------------|--|--|----------------|--|--|-------------------|--|--|-------------|--|--|
| Site Position: | | | | | | Northing: | | | 1,315,786.36ft | | | Latitude: | | | 40.196230 | | |
| From: | | | Lat/Long | | | Easting: | | | 3,268,687.89ft | | | Longitude: | | | -104.538140 | | |
| Position Uncertainty: | | | 0.0 ft | | | Slot Radius: | | | " | | | Grid Convergence: | | | 0.62 ° | | |

| | | | | | | |
|----------------------|---------------|----------|---------------------|-----------------|---------------|-------------|
| Well | Rhino D27-27D | | | | | |
| Well Position | +N-S | -0.1 ft | Northing: | 1,315,787.52 ft | Latitude: | 40.196230 |
| | +E-W | 111.7 ft | Easting: | 3,268,799.63 ft | Longitude: | -104.537740 |
| Position Uncertainty | | 0.0 ft | Wellhead Elevation: | ft | Ground Level: | 4,866.0 ft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | Wellbore #1 | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2010 | 5/2/2011 | 8.74 | 66.93 | 53,061 |

| | | | | |
|--------------------------|---------------------------------------|-------------------|----------------------|----------------------|
| Design | Noble Rhino D27-27D Plan #1 (5-02-11) | | | |
| 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 | 26.86 |

| 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 | |
| 2,168.0 | 35.36 | 26.86 | 2,057.9 | 471.5 | 238.8 | 2.00 | 2.00 | 0.00 | 26.86 | |
| 5,704.6 | 35.36 | 26.86 | 4,942.1 | 2,297.3 | 1,163.5 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 7,472.6 | 0.00 | 0.00 | 6,600.0 | 2,768.8 | 1,402.2 | 2.00 | -2.00 | 0.00 | 180.00 | TARGET BHL 75'F! |
| 8,012.6 | 0.00 | 0.00 | 7,140.0 | 2,768.8 | 1,402.2 | 0.00 | 0.00 | 0.00 | 0.00 | |

| | | | |
|------------------|---------------------------------------|-------------------------------------|--------------------------------------|
| Database: | Landmark | Local Co-ordinate Reference: | Well Rhino D27-27D |
| Company: | NOBLE ENERGY INC WELD COUNTY CO | TVD Reference: | WELL @ 4879.0ft (Original Well Elev) |
| Project: | SEC.27-T3N-R64W | MD Reference: | WELL @ 4879.0ft (Original Well Elev) |
| Site: | Rhino D27-20D Pad Sec.27-T3N-R64W | North Reference: | True |
| Well: | Rhino D27-27D | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Noble Rhino D27-27D Plan #1 (5-02-11) | | |

| 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 | 26.86 | 440.0 | 0.2 | 0.1 | 0.3 | 2.00 | 2.00 | 0.00 |
| 480.0 | 1.60 | 26.86 | 480.0 | 1.0 | 0.5 | 1.1 | 2.00 | 2.00 | 0.00 |
| 520.0 | 2.40 | 26.86 | 520.0 | 2.2 | 1.1 | 2.5 | 2.00 | 2.00 | 0.00 |
| 560.0 | 3.20 | 26.86 | 559.9 | 4.0 | 2.0 | 4.5 | 2.00 | 2.00 | 0.00 |
| 600.0 | 4.00 | 26.86 | 599.8 | 6.2 | 3.2 | 7.0 | 2.00 | 2.00 | 0.00 |
| 640.0 | 4.80 | 26.86 | 639.7 | 9.0 | 4.5 | 10.0 | 2.00 | 2.00 | 0.00 |
| 650.3 | 5.01 | 26.86 | 650.0 | 9.8 | 4.9 | 10.9 | 2.00 | 2.00 | 0.00 |
| 8 5/8" | | | | | | | | | |
| 680.0 | 5.60 | 26.86 | 679.6 | 12.2 | 6.2 | 13.7 | 2.00 | 2.00 | 0.00 |
| 720.0 | 6.40 | 26.86 | 719.3 | 15.9 | 8.1 | 17.9 | 2.00 | 2.00 | 0.00 |
| 760.0 | 7.20 | 26.86 | 759.1 | 20.2 | 10.2 | 22.6 | 2.00 | 2.00 | 0.00 |
| 800.0 | 8.00 | 26.86 | 798.7 | 24.9 | 12.6 | 27.9 | 2.00 | 2.00 | 0.00 |
| 840.0 | 8.80 | 26.86 | 838.3 | 30.1 | 15.2 | 33.7 | 2.00 | 2.00 | 0.00 |
| 880.0 | 9.60 | 26.86 | 877.8 | 35.8 | 18.1 | 40.1 | 2.00 | 2.00 | 0.00 |
| 920.0 | 10.40 | 26.86 | 917.1 | 42.0 | 21.3 | 47.1 | 2.00 | 2.00 | 0.00 |
| 960.0 | 11.20 | 26.86 | 956.4 | 48.7 | 24.7 | 54.6 | 2.00 | 2.00 | 0.00 |
| 1,000.0 | 12.00 | 26.86 | 995.6 | 55.8 | 28.3 | 62.6 | 2.00 | 2.00 | 0.00 |
| 1,040.0 | 12.80 | 26.86 | 1,034.7 | 63.5 | 32.2 | 71.2 | 2.00 | 2.00 | 0.00 |
| 1,080.0 | 13.60 | 26.86 | 1,073.6 | 71.7 | 36.3 | 80.3 | 2.00 | 2.00 | 0.00 |
| 1,120.0 | 14.40 | 26.86 | 1,112.4 | 80.3 | 40.7 | 90.0 | 2.00 | 2.00 | 0.00 |
| 1,160.0 | 15.20 | 26.86 | 1,151.1 | 89.4 | 45.3 | 100.2 | 2.00 | 2.00 | 0.00 |
| 1,200.0 | 16.00 | 26.86 | 1,189.6 | 99.0 | 50.1 | 111.0 | 2.00 | 2.00 | 0.00 |
| 1,240.0 | 16.80 | 26.86 | 1,228.0 | 109.1 | 55.2 | 122.3 | 2.00 | 2.00 | 0.00 |
| 1,280.0 | 17.60 | 26.86 | 1,266.2 | 119.6 | 60.6 | 134.1 | 2.00 | 2.00 | 0.00 |
| 1,320.0 | 18.40 | 26.86 | 1,304.3 | 130.7 | 66.2 | 146.5 | 2.00 | 2.00 | 0.00 |
| 1,360.0 | 19.20 | 26.86 | 1,342.1 | 142.2 | 72.0 | 159.3 | 2.00 | 2.00 | 0.00 |
| 1,400.0 | 20.00 | 26.86 | 1,379.8 | 154.1 | 78.1 | 172.8 | 2.00 | 2.00 | 0.00 |
| 1,440.0 | 20.80 | 26.86 | 1,417.3 | 166.6 | 84.4 | 186.7 | 2.00 | 2.00 | 0.00 |
| 1,480.0 | 21.60 | 26.86 | 1,454.6 | 179.5 | 90.9 | 201.2 | 2.00 | 2.00 | 0.00 |
| 1,520.0 | 22.40 | 26.86 | 1,491.7 | 192.8 | 97.7 | 216.2 | 2.00 | 2.00 | 0.00 |
| 1,560.0 | 23.20 | 26.86 | 1,528.6 | 206.7 | 104.7 | 231.7 | 2.00 | 2.00 | 0.00 |
| 1,600.0 | 24.00 | 26.86 | 1,565.2 | 221.0 | 111.9 | 247.7 | 2.00 | 2.00 | 0.00 |
| 1,640.0 | 24.80 | 26.86 | 1,601.6 | 235.7 | 119.4 | 264.2 | 2.00 | 2.00 | 0.00 |
| 1,680.0 | 25.60 | 26.86 | 1,637.8 | 250.9 | 127.1 | 281.2 | 2.00 | 2.00 | 0.00 |
| 1,720.0 | 26.40 | 26.86 | 1,673.8 | 266.5 | 135.0 | 298.8 | 2.00 | 2.00 | 0.00 |
| 1,760.0 | 27.20 | 26.86 | 1,709.5 | 282.6 | 143.1 | 316.8 | 2.00 | 2.00 | 0.00 |
| 1,800.0 | 28.00 | 26.86 | 1,744.9 | 299.2 | 151.5 | 335.3 | 2.00 | 2.00 | 0.00 |
| 1,840.0 | 28.80 | 26.86 | 1,780.1 | 316.1 | 160.1 | 354.4 | 2.00 | 2.00 | 0.00 |
| 1,880.0 | 29.60 | 26.86 | 1,815.0 | 333.5 | 168.9 | 373.9 | 2.00 | 2.00 | 0.00 |
| 1,920.0 | 30.40 | 26.86 | 1,849.7 | 351.4 | 178.0 | 393.9 | 2.00 | 2.00 | 0.00 |
| 1,960.0 | 31.20 | 26.86 | 1,884.0 | 369.6 | 187.2 | 414.4 | 2.00 | 2.00 | 0.00 |
| 2,000.0 | 32.00 | 26.86 | 1,918.1 | 388.3 | 196.7 | 435.3 | 2.00 | 2.00 | 0.00 |
| 2,040.0 | 32.80 | 26.86 | 1,951.9 | 407.5 | 206.4 | 456.7 | 2.00 | 2.00 | 0.00 |

| | | | |
|------------------|---------------------------------------|-------------------------------------|--------------------------------------|
| Database: | Landmark | Local Co-ordinate Reference: | Well Rhino D27-27D |
| Company: | NOBLE ENERGY INC WELD COUNTY CO | TVD Reference: | WELL @ 4879.0ft (Original Well Elev) |
| Project: | SEC.27-T3N-R64W | MD Reference: | WELL @ 4879.0ft (Original Well Elev) |
| Site: | Rhino D27-20D Pad Sec.27-T3N-R64W | North Reference: | True |
| Well: | Rhino D27-27D | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Noble Rhino D27-27D Plan #1 (5-02-11) | | |

| 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) |
| 2,080.0 | 33.60 | 26.86 | 1,985.4 | 427.0 | 216.3 | 478.6 | 2.00 | 2.00 | 0.00 |
| 2,120.0 | 34.40 | 26.86 | 2,018.5 | 447.0 | 226.4 | 501.0 | 2.00 | 2.00 | 0.00 |
| 2,160.0 | 35.20 | 26.86 | 2,051.4 | 467.3 | 236.7 | 523.8 | 2.00 | 2.00 | 0.00 |
| 2,168.0 | 35.36 | 26.86 | 2,057.9 | 471.5 | 238.8 | 528.5 | 2.00 | 2.00 | 0.00 |
| 2,200.0 | 35.36 | 26.86 | 2,084.0 | 488.0 | 247.1 | 547.0 | 0.00 | 0.00 | 0.00 |
| 2,240.0 | 35.36 | 26.86 | 2,116.6 | 508.6 | 257.6 | 570.1 | 0.00 | 0.00 | 0.00 |
| 2,280.0 | 35.36 | 26.86 | 2,149.2 | 529.3 | 268.0 | 593.3 | 0.00 | 0.00 | 0.00 |
| 2,320.0 | 35.36 | 26.86 | 2,181.8 | 549.9 | 278.5 | 616.4 | 0.00 | 0.00 | 0.00 |
| 2,360.0 | 35.36 | 26.86 | 2,214.5 | 570.6 | 289.0 | 639.6 | 0.00 | 0.00 | 0.00 |
| 2,400.0 | 35.36 | 26.86 | 2,247.1 | 591.2 | 299.4 | 662.7 | 0.00 | 0.00 | 0.00 |
| 2,440.0 | 35.36 | 26.86 | 2,279.7 | 611.9 | 309.9 | 685.9 | 0.00 | 0.00 | 0.00 |
| 2,480.0 | 35.36 | 26.86 | 2,312.3 | 632.5 | 320.3 | 709.0 | 0.00 | 0.00 | 0.00 |
| 2,520.0 | 35.36 | 26.86 | 2,345.0 | 653.2 | 330.8 | 732.2 | 0.00 | 0.00 | 0.00 |
| 2,560.0 | 35.36 | 26.86 | 2,377.6 | 673.8 | 341.3 | 755.3 | 0.00 | 0.00 | 0.00 |
| 2,600.0 | 35.36 | 26.86 | 2,410.2 | 694.5 | 351.7 | 778.5 | 0.00 | 0.00 | 0.00 |
| 2,640.0 | 35.36 | 26.86 | 2,442.8 | 715.1 | 362.2 | 801.6 | 0.00 | 0.00 | 0.00 |
| 2,680.0 | 35.36 | 26.86 | 2,475.4 | 735.8 | 372.6 | 824.8 | 0.00 | 0.00 | 0.00 |
| 2,720.0 | 35.36 | 26.86 | 2,508.1 | 756.4 | 383.1 | 847.9 | 0.00 | 0.00 | 0.00 |
| 2,760.0 | 35.36 | 26.86 | 2,540.7 | 777.1 | 393.6 | 871.1 | 0.00 | 0.00 | 0.00 |
| 2,800.0 | 35.36 | 26.86 | 2,573.3 | 797.7 | 404.0 | 894.2 | 0.00 | 0.00 | 0.00 |
| 2,840.0 | 35.36 | 26.86 | 2,605.9 | 818.4 | 414.5 | 917.4 | 0.00 | 0.00 | 0.00 |
| 2,880.0 | 35.36 | 26.86 | 2,638.5 | 839.0 | 424.9 | 940.5 | 0.00 | 0.00 | 0.00 |
| 2,920.0 | 35.36 | 26.86 | 2,671.2 | 859.7 | 435.4 | 963.7 | 0.00 | 0.00 | 0.00 |
| 2,960.0 | 35.36 | 26.86 | 2,703.8 | 880.3 | 445.8 | 986.8 | 0.00 | 0.00 | 0.00 |
| 3,000.0 | 35.36 | 26.86 | 2,736.4 | 901.0 | 456.3 | 1,009.9 | 0.00 | 0.00 | 0.00 |
| 3,040.0 | 35.36 | 26.86 | 2,769.0 | 921.6 | 466.8 | 1,033.1 | 0.00 | 0.00 | 0.00 |
| 3,080.0 | 35.36 | 26.86 | 2,801.7 | 942.3 | 477.2 | 1,056.2 | 0.00 | 0.00 | 0.00 |
| 3,120.0 | 35.36 | 26.86 | 2,834.3 | 962.9 | 487.7 | 1,079.4 | 0.00 | 0.00 | 0.00 |
| 3,160.0 | 35.36 | 26.86 | 2,866.9 | 983.6 | 498.1 | 1,102.5 | 0.00 | 0.00 | 0.00 |
| 3,200.0 | 35.36 | 26.86 | 2,899.5 | 1,004.2 | 508.6 | 1,125.7 | 0.00 | 0.00 | 0.00 |
| 3,240.0 | 35.36 | 26.86 | 2,932.1 | 1,024.9 | 519.1 | 1,148.8 | 0.00 | 0.00 | 0.00 |
| 3,280.0 | 35.36 | 26.86 | 2,964.8 | 1,045.5 | 529.5 | 1,172.0 | 0.00 | 0.00 | 0.00 |
| 3,320.0 | 35.36 | 26.86 | 2,997.4 | 1,066.2 | 540.0 | 1,195.1 | 0.00 | 0.00 | 0.00 |
| 3,360.0 | 35.36 | 26.86 | 3,030.0 | 1,086.9 | 550.4 | 1,218.3 | 0.00 | 0.00 | 0.00 |
| 3,400.0 | 35.36 | 26.86 | 3,062.6 | 1,107.5 | 560.9 | 1,241.4 | 0.00 | 0.00 | 0.00 |
| 3,440.0 | 35.36 | 26.86 | 3,095.2 | 1,128.2 | 571.3 | 1,264.6 | 0.00 | 0.00 | 0.00 |
| 3,480.0 | 35.36 | 26.86 | 3,127.9 | 1,148.8 | 581.8 | 1,287.7 | 0.00 | 0.00 | 0.00 |
| 3,520.0 | 35.36 | 26.86 | 3,160.5 | 1,169.5 | 592.3 | 1,310.9 | 0.00 | 0.00 | 0.00 |
| 3,560.0 | 35.36 | 26.86 | 3,193.1 | 1,190.1 | 602.7 | 1,334.0 | 0.00 | 0.00 | 0.00 |
| 3,600.0 | 35.36 | 26.86 | 3,225.7 | 1,210.8 | 613.2 | 1,357.2 | 0.00 | 0.00 | 0.00 |
| 3,640.0 | 35.36 | 26.86 | 3,258.4 | 1,231.4 | 623.6 | 1,380.3 | 0.00 | 0.00 | 0.00 |
| 3,680.0 | 35.36 | 26.86 | 3,291.0 | 1,252.1 | 634.1 | 1,403.5 | 0.00 | 0.00 | 0.00 |
| 3,720.0 | 35.36 | 26.86 | 3,323.6 | 1,272.7 | 644.6 | 1,426.6 | 0.00 | 0.00 | 0.00 |
| 3,760.0 | 35.36 | 26.86 | 3,356.2 | 1,293.4 | 655.0 | 1,449.8 | 0.00 | 0.00 | 0.00 |
| 3,800.0 | 35.36 | 26.86 | 3,388.8 | 1,314.0 | 665.5 | 1,472.9 | 0.00 | 0.00 | 0.00 |
| 3,840.0 | 35.36 | 26.86 | 3,421.5 | 1,334.7 | 675.9 | 1,496.1 | 0.00 | 0.00 | 0.00 |
| 3,880.0 | 35.36 | 26.86 | 3,454.1 | 1,355.3 | 686.4 | 1,519.2 | 0.00 | 0.00 | 0.00 |
| 3,920.0 | 35.36 | 26.86 | 3,486.7 | 1,376.0 | 696.9 | 1,542.4 | 0.00 | 0.00 | 0.00 |
| 3,960.0 | 35.36 | 26.86 | 3,519.3 | 1,396.6 | 707.3 | 1,565.5 | 0.00 | 0.00 | 0.00 |
| 4,000.0 | 35.36 | 26.86 | 3,551.9 | 1,417.3 | 717.8 | 1,588.7 | 0.00 | 0.00 | 0.00 |
| 4,040.0 | 35.36 | 26.86 | 3,584.6 | 1,437.9 | 728.2 | 1,611.8 | 0.00 | 0.00 | 0.00 |
| 4,080.0 | 35.36 | 26.86 | 3,617.2 | 1,458.6 | 738.7 | 1,635.0 | 0.00 | 0.00 | 0.00 |
| 4,120.0 | 35.36 | 26.86 | 3,649.8 | 1,479.2 | 749.1 | 1,658.1 | 0.00 | 0.00 | 0.00 |
| 4,160.0 | 35.36 | 26.86 | 3,682.4 | 1,499.9 | 759.6 | 1,681.3 | 0.00 | 0.00 | 0.00 |

| | | | |
|------------------|---------------------------------------|-------------------------------------|--------------------------------------|
| Database: | Landmark | Local Co-ordinate Reference: | Well Rhino D27-27D |
| Company: | NOBLE ENERGY INC WELD COUNTY CO | TVD Reference: | WELL @ 4879.0ft (Original Well Elev) |
| Project: | SEC.27-T3N-R64W | MD Reference: | WELL @ 4879.0ft (Original Well Elev) |
| Site: | Rhino D27-20D Pad Sec.27-T3N-R64W | North Reference: | True |
| Well: | Rhino D27-27D | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Noble Rhino D27-27D Plan #1 (5-02-11) | | |

| 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) |
| 4,200.0 | 35.36 | 26.86 | 3,715.0 | 1,520.5 | 770.1 | 1,704.4 | 0.00 | 0.00 | 0.00 |
| 4,240.0 | 35.36 | 26.86 | 3,747.7 | 1,541.2 | 780.5 | 1,727.6 | 0.00 | 0.00 | 0.00 |
| 4,280.0 | 35.36 | 26.86 | 3,780.3 | 1,561.8 | 791.0 | 1,750.7 | 0.00 | 0.00 | 0.00 |
| 4,320.0 | 35.36 | 26.86 | 3,812.9 | 1,582.5 | 801.4 | 1,773.8 | 0.00 | 0.00 | 0.00 |
| 4,360.0 | 35.36 | 26.86 | 3,845.5 | 1,603.1 | 811.9 | 1,797.0 | 0.00 | 0.00 | 0.00 |
| 4,400.0 | 35.36 | 26.86 | 3,878.2 | 1,623.8 | 822.4 | 1,820.1 | 0.00 | 0.00 | 0.00 |
| 4,440.0 | 35.36 | 26.86 | 3,910.8 | 1,644.4 | 832.8 | 1,843.3 | 0.00 | 0.00 | 0.00 |
| 4,480.0 | 35.36 | 26.86 | 3,943.4 | 1,665.1 | 843.3 | 1,866.4 | 0.00 | 0.00 | 0.00 |
| 4,520.0 | 35.36 | 26.86 | 3,976.0 | 1,685.7 | 853.7 | 1,889.6 | 0.00 | 0.00 | 0.00 |
| 4,560.0 | 35.36 | 26.86 | 4,008.6 | 1,706.4 | 864.2 | 1,912.7 | 0.00 | 0.00 | 0.00 |
| 4,600.0 | 35.36 | 26.86 | 4,041.3 | 1,727.0 | 874.6 | 1,935.9 | 0.00 | 0.00 | 0.00 |
| 4,640.0 | 35.36 | 26.86 | 4,073.9 | 1,747.7 | 885.1 | 1,959.0 | 0.00 | 0.00 | 0.00 |
| 4,680.0 | 35.36 | 26.86 | 4,106.5 | 1,768.3 | 895.6 | 1,982.2 | 0.00 | 0.00 | 0.00 |
| 4,720.0 | 35.36 | 26.86 | 4,139.1 | 1,789.0 | 906.0 | 2,005.3 | 0.00 | 0.00 | 0.00 |
| 4,760.0 | 35.36 | 26.86 | 4,171.7 | 1,809.6 | 916.5 | 2,028.5 | 0.00 | 0.00 | 0.00 |
| 4,800.0 | 35.36 | 26.86 | 4,204.4 | 1,830.3 | 926.9 | 2,051.6 | 0.00 | 0.00 | 0.00 |
| 4,840.0 | 35.36 | 26.86 | 4,237.0 | 1,850.9 | 937.4 | 2,074.8 | 0.00 | 0.00 | 0.00 |
| 4,880.0 | 35.36 | 26.86 | 4,269.6 | 1,871.6 | 947.9 | 2,097.9 | 0.00 | 0.00 | 0.00 |
| 4,920.0 | 35.36 | 26.86 | 4,302.2 | 1,892.2 | 958.3 | 2,121.1 | 0.00 | 0.00 | 0.00 |
| 4,960.0 | 35.36 | 26.86 | 4,334.9 | 1,912.9 | 968.8 | 2,144.2 | 0.00 | 0.00 | 0.00 |
| 5,000.0 | 35.36 | 26.86 | 4,367.5 | 1,933.5 | 979.2 | 2,167.4 | 0.00 | 0.00 | 0.00 |
| 5,040.0 | 35.36 | 26.86 | 4,400.1 | 1,954.2 | 989.7 | 2,190.5 | 0.00 | 0.00 | 0.00 |
| 5,080.0 | 35.36 | 26.86 | 4,432.7 | 1,974.8 | 1,000.2 | 2,213.7 | 0.00 | 0.00 | 0.00 |
| 5,120.0 | 35.36 | 26.86 | 4,465.3 | 1,995.5 | 1,010.6 | 2,236.8 | 0.00 | 0.00 | 0.00 |
| 5,160.0 | 35.36 | 26.86 | 4,498.0 | 2,016.2 | 1,021.1 | 2,260.0 | 0.00 | 0.00 | 0.00 |
| 5,200.0 | 35.36 | 26.86 | 4,530.6 | 2,036.8 | 1,031.5 | 2,283.1 | 0.00 | 0.00 | 0.00 |
| 5,240.0 | 35.36 | 26.86 | 4,563.2 | 2,057.5 | 1,042.0 | 2,306.3 | 0.00 | 0.00 | 0.00 |
| 5,280.0 | 35.36 | 26.86 | 4,595.8 | 2,078.1 | 1,052.4 | 2,329.4 | 0.00 | 0.00 | 0.00 |
| 5,320.0 | 35.36 | 26.86 | 4,628.4 | 2,098.8 | 1,062.9 | 2,352.6 | 0.00 | 0.00 | 0.00 |
| 5,360.0 | 35.36 | 26.86 | 4,661.1 | 2,119.4 | 1,073.4 | 2,375.7 | 0.00 | 0.00 | 0.00 |
| 5,400.0 | 35.36 | 26.86 | 4,693.7 | 2,140.1 | 1,083.8 | 2,398.9 | 0.00 | 0.00 | 0.00 |
| 5,440.0 | 35.36 | 26.86 | 4,726.3 | 2,160.7 | 1,094.3 | 2,422.0 | 0.00 | 0.00 | 0.00 |
| 5,480.0 | 35.36 | 26.86 | 4,758.9 | 2,181.4 | 1,104.7 | 2,445.2 | 0.00 | 0.00 | 0.00 |
| 5,520.0 | 35.36 | 26.86 | 4,791.6 | 2,202.0 | 1,115.2 | 2,468.3 | 0.00 | 0.00 | 0.00 |
| 5,560.0 | 35.36 | 26.86 | 4,824.2 | 2,222.7 | 1,125.7 | 2,491.5 | 0.00 | 0.00 | 0.00 |
| 5,600.0 | 35.36 | 26.86 | 4,856.8 | 2,243.3 | 1,136.1 | 2,514.6 | 0.00 | 0.00 | 0.00 |
| 5,640.0 | 35.36 | 26.86 | 4,889.4 | 2,264.0 | 1,146.6 | 2,537.7 | 0.00 | 0.00 | 0.00 |
| 5,680.0 | 35.36 | 26.86 | 4,922.0 | 2,284.6 | 1,157.0 | 2,560.9 | 0.00 | 0.00 | 0.00 |
| 5,704.6 | 35.36 | 26.86 | 4,942.1 | 2,297.3 | 1,163.5 | 2,575.1 | 0.00 | 0.00 | 0.00 |
| 5,720.0 | 35.05 | 26.86 | 4,954.7 | 2,305.2 | 1,167.5 | 2,584.0 | 2.00 | -2.00 | 0.00 |
| 5,760.0 | 34.25 | 26.86 | 4,987.6 | 2,325.5 | 1,177.8 | 2,606.8 | 2.00 | -2.00 | 0.00 |
| 5,800.0 | 33.45 | 26.86 | 5,020.8 | 2,345.4 | 1,187.8 | 2,629.0 | 2.00 | -2.00 | 0.00 |
| 5,840.0 | 32.65 | 26.86 | 5,054.3 | 2,364.9 | 1,197.7 | 2,650.9 | 2.00 | -2.00 | 0.00 |
| 5,880.0 | 31.85 | 26.86 | 5,088.2 | 2,383.9 | 1,207.3 | 2,672.2 | 2.00 | -2.00 | 0.00 |
| 5,920.0 | 31.05 | 26.86 | 5,122.3 | 2,402.5 | 1,216.7 | 2,693.1 | 2.00 | -2.00 | 0.00 |
| 5,960.0 | 30.25 | 26.86 | 5,156.7 | 2,420.7 | 1,226.0 | 2,713.5 | 2.00 | -2.00 | 0.00 |
| 6,000.0 | 29.45 | 26.86 | 5,191.4 | 2,438.5 | 1,235.0 | 2,733.4 | 2.00 | -2.00 | 0.00 |
| 6,040.0 | 28.65 | 26.86 | 5,226.4 | 2,455.8 | 1,243.7 | 2,752.8 | 2.00 | -2.00 | 0.00 |
| 6,080.0 | 27.85 | 26.86 | 5,261.6 | 2,472.7 | 1,252.3 | 2,771.7 | 2.00 | -2.00 | 0.00 |
| 6,120.0 | 27.05 | 26.86 | 5,297.1 | 2,489.2 | 1,260.6 | 2,790.2 | 2.00 | -2.00 | 0.00 |
| 6,160.0 | 26.25 | 26.86 | 5,332.8 | 2,505.2 | 1,268.7 | 2,808.1 | 2.00 | -2.00 | 0.00 |
| 6,200.0 | 25.45 | 26.86 | 5,368.8 | 2,520.7 | 1,276.6 | 2,825.6 | 2.00 | -2.00 | 0.00 |
| 6,240.0 | 24.65 | 26.86 | 5,405.1 | 2,535.8 | 1,284.3 | 2,842.5 | 2.00 | -2.00 | 0.00 |
| 6,280.0 | 23.85 | 26.86 | 5,441.5 | 2,550.5 | 1,291.7 | 2,858.9 | 2.00 | -2.00 | 0.00 |

| | | | |
|------------------|---------------------------------------|-------------------------------------|--------------------------------------|
| Database: | Landmark | Local Co-ordinate Reference: | Well Rhino D27-27D |
| Company: | NOBLE ENERGY INC WELD COUNTY CO | TVD Reference: | WELL @ 4879.0ft (Original Well Elev) |
| Project: | SEC.27-T3N-R64W | MD Reference: | WELL @ 4879.0ft (Original Well Elev) |
| Site: | Rhino D27-20D Pad Sec.27-T3N-R64W | North Reference: | True |
| Well: | Rhino D27-27D | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Noble Rhino D27-27D Plan #1 (5-02-11) | | |

| 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) |
| 6,320.0 | 23.05 | 26.86 | 5,478.2 | 2,564.7 | 1,298.9 | 2,874.8 | 2.00 | -2.00 | 0.00 |
| 6,360.0 | 22.25 | 26.86 | 5,515.1 | 2,578.4 | 1,305.8 | 2,890.2 | 2.00 | -2.00 | 0.00 |
| 6,400.0 | 21.45 | 26.86 | 5,552.3 | 2,591.7 | 1,312.6 | 2,905.1 | 2.00 | -2.00 | 0.00 |
| 6,440.0 | 20.65 | 26.86 | 5,589.6 | 2,604.5 | 1,319.1 | 2,919.5 | 2.00 | -2.00 | 0.00 |
| 6,480.0 | 19.85 | 26.86 | 5,627.1 | 2,616.9 | 1,325.3 | 2,933.4 | 2.00 | -2.00 | 0.00 |
| 6,520.0 | 19.05 | 26.86 | 5,664.8 | 2,628.8 | 1,331.3 | 2,946.7 | 2.00 | -2.00 | 0.00 |
| 6,560.0 | 18.25 | 26.86 | 5,702.7 | 2,640.2 | 1,337.1 | 2,959.5 | 2.00 | -2.00 | 0.00 |
| 6,600.0 | 17.45 | 26.86 | 5,740.8 | 2,651.1 | 1,342.6 | 2,971.7 | 2.00 | -2.00 | 0.00 |
| 6,640.0 | 16.65 | 26.86 | 5,779.1 | 2,661.6 | 1,347.9 | 2,983.5 | 2.00 | -2.00 | 0.00 |
| 6,680.0 | 15.85 | 26.86 | 5,817.5 | 2,671.6 | 1,353.0 | 2,994.7 | 2.00 | -2.00 | 0.00 |
| 6,720.0 | 15.05 | 26.86 | 5,856.0 | 2,681.1 | 1,357.8 | 3,005.3 | 2.00 | -2.00 | 0.00 |
| 6,760.0 | 14.25 | 26.86 | 5,894.7 | 2,690.1 | 1,362.4 | 3,015.4 | 2.00 | -2.00 | 0.00 |
| 6,800.0 | 13.45 | 26.86 | 5,933.5 | 2,698.7 | 1,366.7 | 3,025.0 | 2.00 | -2.00 | 0.00 |
| 6,840.0 | 12.65 | 26.86 | 5,972.5 | 2,706.7 | 1,370.8 | 3,034.0 | 2.00 | -2.00 | 0.00 |
| 6,880.0 | 11.85 | 26.86 | 6,011.6 | 2,714.3 | 1,374.6 | 3,042.5 | 2.00 | -2.00 | 0.00 |
| 6,920.0 | 11.05 | 26.86 | 6,050.8 | 2,721.4 | 1,378.2 | 3,050.5 | 2.00 | -2.00 | 0.00 |
| 6,960.0 | 10.25 | 26.86 | 6,090.1 | 2,728.0 | 1,381.6 | 3,057.9 | 2.00 | -2.00 | 0.00 |
| 7,000.0 | 9.45 | 26.86 | 6,129.5 | 2,734.1 | 1,384.7 | 3,064.7 | 2.00 | -2.00 | 0.00 |
| 7,040.0 | 8.65 | 26.86 | 6,169.0 | 2,739.7 | 1,387.5 | 3,071.0 | 2.00 | -2.00 | 0.00 |
| 7,080.0 | 7.85 | 26.86 | 6,208.6 | 2,744.8 | 1,390.1 | 3,076.7 | 2.00 | -2.00 | 0.00 |
| 7,120.0 | 7.05 | 26.86 | 6,248.3 | 2,749.4 | 1,392.4 | 3,081.9 | 2.00 | -2.00 | 0.00 |
| 7,160.0 | 6.25 | 26.86 | 6,288.0 | 2,753.6 | 1,394.5 | 3,086.6 | 2.00 | -2.00 | 0.00 |
| 7,200.0 | 5.45 | 26.86 | 6,327.8 | 2,757.2 | 1,396.4 | 3,090.6 | 2.00 | -2.00 | 0.00 |
| 7,240.0 | 4.65 | 26.86 | 6,367.6 | 2,760.4 | 1,398.0 | 3,094.2 | 2.00 | -2.00 | 0.00 |
| 7,280.0 | 3.85 | 26.86 | 6,407.5 | 2,763.0 | 1,399.3 | 3,097.1 | 2.00 | -2.00 | 0.00 |
| 7,320.0 | 3.05 | 26.86 | 6,447.5 | 2,765.1 | 1,400.4 | 3,099.5 | 2.00 | -2.00 | 0.00 |
| 7,360.0 | 2.25 | 26.86 | 6,487.4 | 2,766.8 | 1,401.2 | 3,101.4 | 2.00 | -2.00 | 0.00 |
| 7,400.0 | 1.45 | 26.86 | 6,527.4 | 2,768.0 | 1,401.8 | 3,102.7 | 2.00 | -2.00 | 0.00 |
| 7,440.0 | 0.65 | 26.86 | 6,567.4 | 2,768.6 | 1,402.1 | 3,103.4 | 2.00 | -2.00 | 0.00 |
| 7,472.6 | 0.00 | 0.00 | 6,600.0 | 2,768.8 | 1,402.2 | 3,103.6 | 2.00 | -2.00 | 0.00 |
| TARGET BHL 75'FSL, 1320'FEL | | | | | | | | | |
| 7,480.0 | 0.00 | 0.00 | 6,607.4 | 2,768.8 | 1,402.2 | 3,103.6 | 0.00 | 0.00 | 0.00 |
| 7,520.0 | 0.00 | 0.00 | 6,647.4 | 2,768.8 | 1,402.2 | 3,103.6 | 0.00 | 0.00 | 0.00 |
| 7,560.0 | 0.00 | 0.00 | 6,687.4 | 2,768.8 | 1,402.2 | 3,103.6 | 0.00 | 0.00 | 0.00 |
| 7,570.6 | 0.00 | 0.00 | 6,698.0 | 2,768.8 | 1,402.2 | 3,103.6 | 0.00 | 0.00 | 0.00 |
| NIOBRARA - TARGET CIRCLE 75'FSL & 1320'FEL | | | | | | | | | |
| 7,600.0 | 0.00 | 0.00 | 6,727.4 | 2,768.8 | 1,402.2 | 3,103.6 | 0.00 | 0.00 | 0.00 |
| 7,640.0 | 0.00 | 0.00 | 6,767.4 | 2,768.8 | 1,402.2 | 3,103.6 | 0.00 | 0.00 | 0.00 |
| 7,680.0 | 0.00 | 0.00 | 6,807.4 | 2,768.8 | 1,402.2 | 3,103.6 | 0.00 | 0.00 | 0.00 |
| 7,720.0 | 0.00 | 0.00 | 6,847.4 | 2,768.8 | 1,402.2 | 3,103.6 | 0.00 | 0.00 | 0.00 |
| 7,760.0 | 0.00 | 0.00 | 6,887.4 | 2,768.8 | 1,402.2 | 3,103.6 | 0.00 | 0.00 | 0.00 |
| 7,800.0 | 0.00 | 0.00 | 6,927.4 | 2,768.8 | 1,402.2 | 3,103.6 | 0.00 | 0.00 | 0.00 |
| 7,840.0 | 0.00 | 0.00 | 6,967.4 | 2,768.8 | 1,402.2 | 3,103.6 | 0.00 | 0.00 | 0.00 |
| 7,862.6 | 0.00 | 0.00 | 6,990.0 | 2,768.8 | 1,402.2 | 3,103.6 | 0.00 | 0.00 | 0.00 |
| CODELL | | | | | | | | | |
| 7,880.0 | 0.00 | 0.00 | 7,007.4 | 2,768.8 | 1,402.2 | 3,103.6 | 0.00 | 0.00 | 0.00 |
| 7,920.0 | 0.00 | 0.00 | 7,047.4 | 2,768.8 | 1,402.2 | 3,103.6 | 0.00 | 0.00 | 0.00 |
| 7,960.0 | 0.00 | 0.00 | 7,087.4 | 2,768.8 | 1,402.2 | 3,103.6 | 0.00 | 0.00 | 0.00 |
| 8,000.0 | 0.00 | 0.00 | 7,127.4 | 2,768.8 | 1,402.2 | 3,103.6 | 0.00 | 0.00 | 0.00 |
| 8,012.6 | 0.00 | 0.00 | 7,140.0 | 2,768.8 | 1,402.2 | 3,103.6 | 0.00 | 0.00 | 0.00 |
| HARD LINES 75'S OF BHL | | | | | | | | | |

| | | | |
|------------------|---------------------------------------|-------------------------------------|--------------------------------------|
| Database: | Landmark | Local Co-ordinate Reference: | Well Rhino D27-27D |
| Company: | NOBLE ENERGY INC WELD COUNTY CO | TVD Reference: | WELL @ 4879.0ft (Original Well Elev) |
| Project: | SEC.27-T3N-R64W | MD Reference: | WELL @ 4879.0ft (Original Well Elev) |
| Site: | Rhino D27-20D Pad Sec.27-T3N-R64W | North Reference: | True |
| Well: | Rhino D27-27D | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Noble Rhino D27-27D Plan #1 (5-02-11) | | |

| Targets | | | | | | | | | |
|--|-----------|----------|---------|---------|---------|--------------|--------------|-----------|-------------|
| Target Name | | | | | | | | | |
| - hit/miss target | Dip Angle | Dip Dir. | TVD | +N/-S | +E/-W | Northing | Easting | Latitude | Longitude |
| - Shape | (°) | (°) | (ft) | (ft) | (ft) | (ft) | (ft) | | |
| HARD LINES 75'S OF | 0.00 | 0.00 | 7,140.0 | 2,693.8 | 1,302.2 | 1,318,495.17 | 3,270,072.46 | 40.203624 | -104.533078 |
| - plan misses target center by 125.0ft at 8012.6ft MD (7140.0 TVD, 2768.8 N, 1402.2 E) | | | | | | | | | |
| - Polygon | | | | | | | | | |
| Point 1 | | | 7,140.0 | 0.0 | 0.0 | 1,318,495.17 | 3,270,072.46 | | |
| Point 2 | | | 7,140.0 | 0.0 | 200.0 | 1,318,497.34 | 3,270,272.44 | | |
| TARGET BHL 75'FSL | 0.00 | 0.00 | 6,600.0 | 2,768.8 | 1,402.2 | 1,318,571.22 | 3,270,171.67 | 40.203830 | -104.532720 |
| - plan hits target center | | | | | | | | | |
| - Point | | | | | | | | | |
| TARGET CIRCLE 75' | 0.00 | 0.00 | 6,698.0 | 2,768.8 | 1,402.2 | 1,318,571.22 | 3,270,171.67 | 40.203830 | -104.532720 |
| - plan hits target center | | | | | | | | | |
| - Circle (radius 75.0) | | | | | | | | | |

| Casing Points | | | | | |
|---------------|----------------|----------------|--------|-----------------|---------------|
| | Measured Depth | Vertical Depth | | Casing Diameter | Hole Diameter |
| | (ft) | (ft) | Name | (") | (") |
| | 650.3 | 650.0 | 8 5/8" | 8-5/8 | 12-1/4 |

| Formations | | | | | |
|------------|----------------|----------------|----------|------|---------------|
| | Measured Depth | Vertical Depth | | Dip | Dip Direction |
| | (ft) | (ft) | Name | (°) | (°) |
| | 7,570.6 | 6,698.0 | NIOBRARA | 0.00 | |
| | 7,862.6 | 6,990.0 | CODELL | 0.00 | |