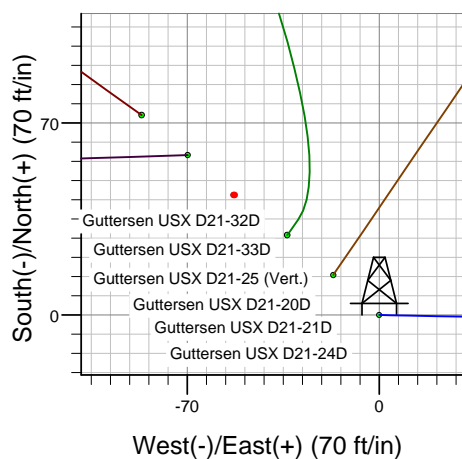
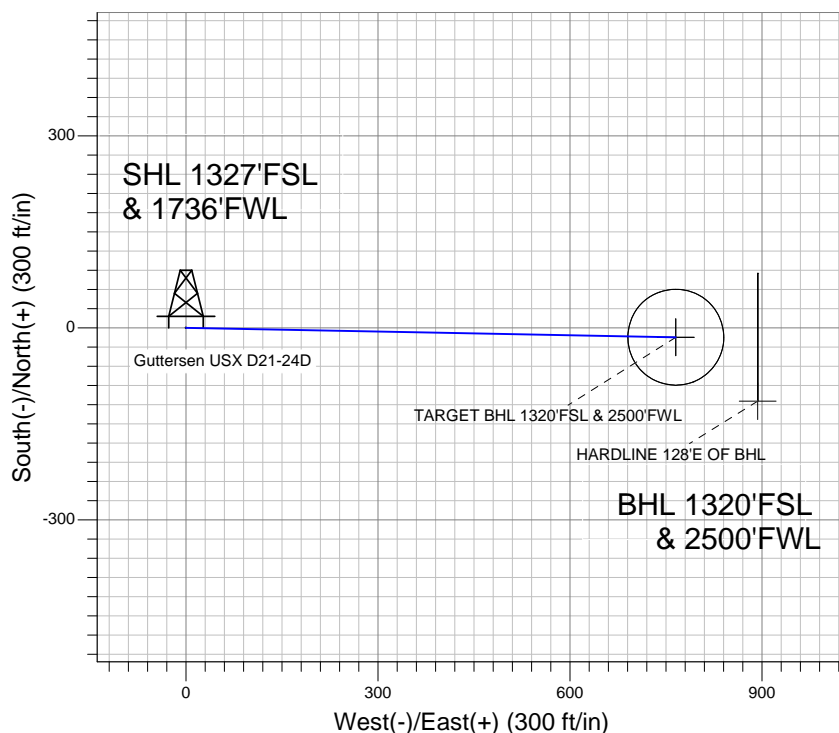
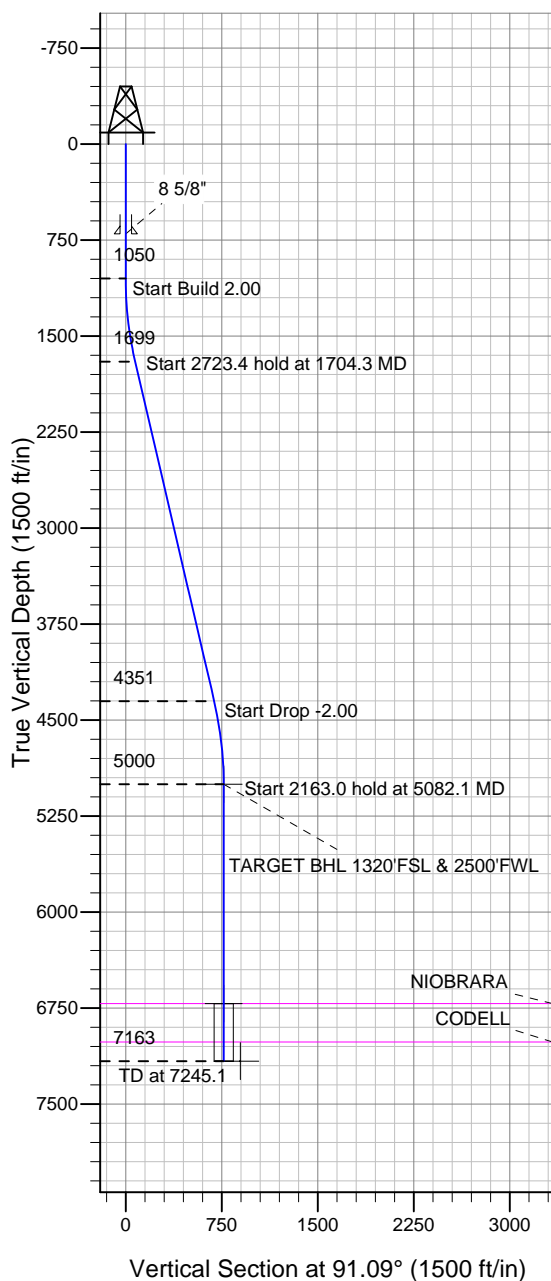


Well Name: Gutteresen USX D21-24D

Surface Location: Gutteresen USX D21-32D Pad Sec.21-T3N-R64W
 North American Datum 1983 , US State Plane 1983Colorado Northern Zone
 Ground Elevation: 4820.0
 +N/-S 0.0 +E/-W 0.0 Northing 1319772.98 Easting 3262681.20 Latitude 40.207350 Longitude -104.559490
 Original Well EleWELL @ 4833.0ft (Original Well Elev)

NOBLE ENERGY INC WELD COUNTY CO



Gutteresen USX D21-32D Pad Sec.21-T3N-R64W
 Gutteresen USX D21-24D
 Noble Gutteresen USX D21-24D Plan #1 (11-1-11)
 11:35, November 03 2011



Azimuths to True North
 Magnetic North: 8.69°
 Magnetic Field
 Strength: 53012.2snT
 Dip Angle: 66.92°
 Date: 11/1/2011
 Model: IGRF2010

WELLBORE TARGET DETAILS (LAT/LONG)

| Name | TVD | +N/-S | +E/-W | Latitude | Longitude | Shape |
|-----------------------------------|--------|--------|-------|-----------|-------------|-----------------------|
| TARGET BHL 1320'FSL & 2500'FWL | 5000.0 | -14.6 | 765.3 | 40.207310 | -104.556750 | Point |
| TARGET CIRCLE 1320'FSL & 2500'FWL | 6714.0 | -14.6 | 765.3 | 40.207310 | -104.556750 | Circle (Radius: 75.0) |
| HARDLINE 128'E OF BHL | 7163.0 | -114.6 | 893.3 | 40.207035 | -104.556292 | 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 | 1050.0 | 0.00 | 0.00 | 1050.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.0 | |
| 3 | 1704.3 | 13.09 | 91.09 | 1698.7 | -1.4 | 74.4 | 2.00 | 91.09 | 74.4 | |
| 4 | 4427.7 | 13.09 | 91.09 | 4351.3 | -13.1 | 690.9 | 0.00 | 0.00 | 691.1 | |
| 5 | 5082.1 | 0.00 | 0.00 | 5000.0 | -14.6 | 765.3 | 2.00 | 180.00 | 765.5 | TARGET BHL 1320'FSL & 2500'FWL |
| 6 | 7245.1 | 0.00 | 0.00 | 7163.0 | -14.6 | 765.3 | 0.00 | 0.00 | 765.5 | |



NOBLE ENERGY INC WELD COUNTY CO

SEC.21-T3N-R64W

Guttersen USX D21-32D Pad Sec.21-T3N-R64W

Guttersen USX D21-24D

Wellbore #1

Plan: Noble Guttersen USX D21-24D Plan #1 (11-1-11)

Standard Planning Report

03 November, 2011



| | | | |
|------------------|-----------------------------------------------|-------------------------------------|--------------------------------------|
| Database: | Landmark | Local Co-ordinate Reference: | Well Guttersen USX D21-24D |
| Company: | NOBLE ENERGY INC WELD COUNTY CO | TVD Reference: | WELL @ 4833.0ft (Original Well Elev) |
| Project: | SEC.21-T3N-R64W | MD Reference: | WELL @ 4833.0ft (Original Well Elev) |
| Site: | Guttersen USX D21-32D Pad Sec.21-T3N-R64W | North Reference: | True |
| Well: | Guttersen USX D21-24D | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Noble Guttersen USX D21-24D Plan #1 (11-1-11) | | |

| | | | |
|--------------------|----------------------------------|----------------------|-----------------------------|
| Project | SEC.21-T3N-R64W, Weld County, CO | | |
| 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 | | | | | | Guttersen USX D21-32D Pad Sec.21-T3N-R64W | | | | | | | | | | | |
| Site Position: | | | | | | Northing: | | | 1,319,830.53ft | | | Latitude: | | | 40.207510 | | |
| From: | | | Lat/Long | | | Easting: | | | 3,262,610.76ft | | | Longitude: | | | -104.559740 | | |
| Position Uncertainty: | | | 0.0 ft | | | Slot Radius: | | | " | | | Grid Convergence: | | | 0.61 ° | | |

| Well | Guttersen USX D21-24D | | | | | |
|----------------------|-----------------------|----------|---------------------|-----------------|---------------|-------------|
| Well Position | +N/-S | -58.3 ft | Northing: | 1,319,772.98 ft | Latitude: | 40.207350 |
| | +E/-W | 69.8 ft | Easting: | 3,262,681.20 ft | Longitude: | -104.559490 |
| Position Uncertainty | | 0.0 ft | Wellhead Elevation: | ft | Ground Level: | 4,820.0 ft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | Wellbore #1 | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2010 | 11/1/2011 | 8.69 | 66.92 | 53,012 |

| | | | | |
|--------------------------|-----------------------------------------------|-------------------|----------------------|----------------------|
| Design | Noble Guttersen USX D21-24D Plan #1 (11-1-11) | | | |
| 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 | 91.09 |

| 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 | |
| 1,050.0 | 0.00 | 0.00 | 1,050.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,704.3 | 13.09 | 91.09 | 1,698.7 | -1.4 | 74.4 | 2.00 | 2.00 | 0.00 | 91.09 | |
| 4,427.7 | 13.09 | 91.09 | 4,351.3 | -13.1 | 690.9 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 5,082.1 | 0.00 | 0.00 | 5,000.0 | -14.6 | 765.3 | 2.00 | -2.00 | 0.00 | 180.00 | TARGET BHL 132C |
| 7,245.1 | 0.00 | 0.00 | 7,163.0 | -14.6 | 765.3 | 0.00 | 0.00 | 0.00 | 0.00 | |

| | | | |
|------------------|----------------------------------------------|-------------------------------------|--------------------------------------|
| Database: | Landmark | Local Co-ordinate Reference: | Well Guttersen USX D21-24D |
| Company: | NOBLE ENERGY INC WELD COUNTY CO | TVD Reference: | WELL @ 4833.0ft (Original Well Elev) |
| Project: | SEC.21-T3N-R64W | MD Reference: | WELL @ 4833.0ft (Original Well Elev) |
| Site: | Guttersen USX D21-32D Pad Sec.21-T3N-R64W | North Reference: | True |
| Well: | Guttersen USX D21-24D | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Noble Guttersen USX D21-24D Plan #1 (11-1-1) | | |

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 | 0.00 | 0.00 | 440.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 480.0 | 0.00 | 0.00 | 480.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 520.0 | 0.00 | 0.00 | 520.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 560.0 | 0.00 | 0.00 | 560.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 600.0 | 0.00 | 0.00 | 600.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 640.0 | 0.00 | 0.00 | 640.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 680.0 | 0.00 | 0.00 | 680.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 700.0 | 0.00 | 0.00 | 700.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 8 5/8" | | | | | | | | | |
| 720.0 | 0.00 | 0.00 | 720.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 760.0 | 0.00 | 0.00 | 760.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 800.0 | 0.00 | 0.00 | 800.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 840.0 | 0.00 | 0.00 | 840.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 880.0 | 0.00 | 0.00 | 880.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 920.0 | 0.00 | 0.00 | 920.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 960.0 | 0.00 | 0.00 | 960.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,000.0 | 0.00 | 0.00 | 1,000.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,040.0 | 0.00 | 0.00 | 1,040.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,050.0 | 0.00 | 0.00 | 1,050.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,080.0 | 0.60 | 91.09 | 1,080.0 | 0.0 | 0.2 | 0.2 | 2.00 | 2.00 | 0.00 |
| 1,120.0 | 1.40 | 91.09 | 1,120.0 | 0.0 | 0.9 | 0.9 | 2.00 | 2.00 | 0.00 |
| 1,160.0 | 2.20 | 91.09 | 1,160.0 | 0.0 | 2.1 | 2.1 | 2.00 | 2.00 | 0.00 |
| 1,200.0 | 3.00 | 91.09 | 1,199.9 | -0.1 | 3.9 | 3.9 | 2.00 | 2.00 | 0.00 |
| 1,240.0 | 3.80 | 91.09 | 1,239.9 | -0.1 | 6.3 | 6.3 | 2.00 | 2.00 | 0.00 |
| 1,280.0 | 4.60 | 91.09 | 1,279.8 | -0.2 | 9.2 | 9.2 | 2.00 | 2.00 | 0.00 |
| 1,320.0 | 5.40 | 91.09 | 1,319.6 | -0.2 | 12.7 | 12.7 | 2.00 | 2.00 | 0.00 |
| 1,360.0 | 6.20 | 91.09 | 1,359.4 | -0.3 | 16.8 | 16.8 | 2.00 | 2.00 | 0.00 |
| 1,400.0 | 7.00 | 91.09 | 1,399.1 | -0.4 | 21.3 | 21.4 | 2.00 | 2.00 | 0.00 |
| 1,440.0 | 7.80 | 91.09 | 1,438.8 | -0.5 | 26.5 | 26.5 | 2.00 | 2.00 | 0.00 |
| 1,480.0 | 8.60 | 91.09 | 1,478.4 | -0.6 | 32.2 | 32.2 | 2.00 | 2.00 | 0.00 |
| 1,520.0 | 9.40 | 91.09 | 1,517.9 | -0.7 | 38.5 | 38.5 | 2.00 | 2.00 | 0.00 |
| 1,560.0 | 10.20 | 91.09 | 1,557.3 | -0.9 | 45.3 | 45.3 | 2.00 | 2.00 | 0.00 |
| 1,600.0 | 11.00 | 91.09 | 1,596.6 | -1.0 | 52.6 | 52.6 | 2.00 | 2.00 | 0.00 |
| 1,640.0 | 11.80 | 91.09 | 1,635.8 | -1.2 | 60.5 | 60.5 | 2.00 | 2.00 | 0.00 |
| 1,680.0 | 12.60 | 91.09 | 1,674.9 | -1.3 | 69.0 | 69.0 | 2.00 | 2.00 | 0.00 |
| 1,704.3 | 13.09 | 91.09 | 1,698.7 | -1.4 | 74.4 | 74.4 | 2.00 | 2.00 | 0.00 |
| 1,720.0 | 13.09 | 91.09 | 1,713.9 | -1.5 | 77.9 | 77.9 | 0.00 | 0.00 | 0.00 |
| 1,760.0 | 13.09 | 91.09 | 1,752.9 | -1.7 | 87.0 | 87.0 | 0.00 | 0.00 | 0.00 |
| 1,800.0 | 13.09 | 91.09 | 1,791.8 | -1.8 | 96.0 | 96.1 | 0.00 | 0.00 | 0.00 |
| 1,840.0 | 13.09 | 91.09 | 1,830.8 | -2.0 | 105.1 | 105.1 | 0.00 | 0.00 | 0.00 |
| 1,880.0 | 13.09 | 91.09 | 1,869.8 | -2.2 | 114.2 | 114.2 | 0.00 | 0.00 | 0.00 |
| 1,920.0 | 13.09 | 91.09 | 1,908.7 | -2.3 | 123.2 | 123.2 | 0.00 | 0.00 | 0.00 |

| | | | |
|------------------|----------------------------------------------|-------------------------------------|--------------------------------------|
| Database: | Landmark | Local Co-ordinate Reference: | Well Guttersen USX D21-24D |
| Company: | NOBLE ENERGY INC WELD COUNTY CO | TVD Reference: | WELL @ 4833.0ft (Original Well Elev) |
| Project: | SEC.21-T3N-R64W | MD Reference: | WELL @ 4833.0ft (Original Well Elev) |
| Site: | Guttersen USX D21-32D Pad Sec.21-T3N-R64W | North Reference: | True |
| Well: | Guttersen USX D21-24D | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Noble Guttersen USX D21-24D Plan #1 (11-1-1) | | |

| 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) |
| 1,960.0 | 13.09 | 91.09 | 1,947.7 | -2.5 | 132.3 | 132.3 | 0.00 | 0.00 | 0.00 |
| 2,000.0 | 13.09 | 91.09 | 1,986.6 | -2.7 | 141.3 | 141.3 | 0.00 | 0.00 | 0.00 |
| 2,040.0 | 13.09 | 91.09 | 2,025.6 | -2.9 | 150.4 | 150.4 | 0.00 | 0.00 | 0.00 |
| 2,080.0 | 13.09 | 91.09 | 2,064.6 | -3.0 | 159.4 | 159.5 | 0.00 | 0.00 | 0.00 |
| 2,120.0 | 13.09 | 91.09 | 2,103.5 | -3.2 | 168.5 | 168.5 | 0.00 | 0.00 | 0.00 |
| 2,160.0 | 13.09 | 91.09 | 2,142.5 | -3.4 | 177.5 | 177.6 | 0.00 | 0.00 | 0.00 |
| 2,200.0 | 13.09 | 91.09 | 2,181.5 | -3.5 | 186.6 | 186.6 | 0.00 | 0.00 | 0.00 |
| 2,240.0 | 13.09 | 91.09 | 2,220.4 | -3.7 | 195.7 | 195.7 | 0.00 | 0.00 | 0.00 |
| 2,280.0 | 13.09 | 91.09 | 2,259.4 | -3.9 | 204.7 | 204.7 | 0.00 | 0.00 | 0.00 |
| 2,320.0 | 13.09 | 91.09 | 2,298.3 | -4.1 | 213.8 | 213.8 | 0.00 | 0.00 | 0.00 |
| 2,360.0 | 13.09 | 91.09 | 2,337.3 | -4.2 | 222.8 | 222.9 | 0.00 | 0.00 | 0.00 |
| 2,400.0 | 13.09 | 91.09 | 2,376.3 | -4.4 | 231.9 | 231.9 | 0.00 | 0.00 | 0.00 |
| 2,440.0 | 13.09 | 91.09 | 2,415.2 | -4.6 | 240.9 | 241.0 | 0.00 | 0.00 | 0.00 |
| 2,480.0 | 13.09 | 91.09 | 2,454.2 | -4.8 | 250.0 | 250.0 | 0.00 | 0.00 | 0.00 |
| 2,520.0 | 13.09 | 91.09 | 2,493.1 | -4.9 | 259.0 | 259.1 | 0.00 | 0.00 | 0.00 |
| 2,560.0 | 13.09 | 91.09 | 2,532.1 | -5.1 | 268.1 | 268.1 | 0.00 | 0.00 | 0.00 |
| 2,600.0 | 13.09 | 91.09 | 2,571.1 | -5.3 | 277.2 | 277.2 | 0.00 | 0.00 | 0.00 |
| 2,640.0 | 13.09 | 91.09 | 2,610.0 | -5.4 | 286.2 | 286.3 | 0.00 | 0.00 | 0.00 |
| 2,680.0 | 13.09 | 91.09 | 2,649.0 | -5.6 | 295.3 | 295.3 | 0.00 | 0.00 | 0.00 |
| 2,720.0 | 13.09 | 91.09 | 2,687.9 | -5.8 | 304.3 | 304.4 | 0.00 | 0.00 | 0.00 |
| 2,760.0 | 13.09 | 91.09 | 2,726.9 | -6.0 | 313.4 | 313.4 | 0.00 | 0.00 | 0.00 |
| 2,800.0 | 13.09 | 91.09 | 2,765.9 | -6.1 | 322.4 | 322.5 | 0.00 | 0.00 | 0.00 |
| 2,840.0 | 13.09 | 91.09 | 2,804.8 | -6.3 | 331.5 | 331.5 | 0.00 | 0.00 | 0.00 |
| 2,880.0 | 13.09 | 91.09 | 2,843.8 | -6.5 | 340.5 | 340.6 | 0.00 | 0.00 | 0.00 |
| 2,920.0 | 13.09 | 91.09 | 2,882.8 | -6.6 | 349.6 | 349.7 | 0.00 | 0.00 | 0.00 |
| 2,960.0 | 13.09 | 91.09 | 2,921.7 | -6.8 | 358.7 | 358.7 | 0.00 | 0.00 | 0.00 |
| 3,000.0 | 13.09 | 91.09 | 2,960.7 | -7.0 | 367.7 | 367.8 | 0.00 | 0.00 | 0.00 |
| 3,040.0 | 13.09 | 91.09 | 2,999.6 | -7.2 | 376.8 | 376.8 | 0.00 | 0.00 | 0.00 |
| 3,080.0 | 13.09 | 91.09 | 3,038.6 | -7.3 | 385.8 | 385.9 | 0.00 | 0.00 | 0.00 |
| 3,120.0 | 13.09 | 91.09 | 3,077.6 | -7.5 | 394.9 | 394.9 | 0.00 | 0.00 | 0.00 |
| 3,160.0 | 13.09 | 91.09 | 3,116.5 | -7.7 | 403.9 | 404.0 | 0.00 | 0.00 | 0.00 |
| 3,200.0 | 13.09 | 91.09 | 3,155.5 | -7.9 | 413.0 | 413.1 | 0.00 | 0.00 | 0.00 |
| 3,240.0 | 13.09 | 91.09 | 3,194.4 | -8.0 | 422.0 | 422.1 | 0.00 | 0.00 | 0.00 |
| 3,280.0 | 13.09 | 91.09 | 3,233.4 | -8.2 | 431.1 | 431.2 | 0.00 | 0.00 | 0.00 |
| 3,320.0 | 13.09 | 91.09 | 3,272.4 | -8.4 | 440.2 | 440.2 | 0.00 | 0.00 | 0.00 |
| 3,360.0 | 13.09 | 91.09 | 3,311.3 | -8.5 | 449.2 | 449.3 | 0.00 | 0.00 | 0.00 |
| 3,400.0 | 13.09 | 91.09 | 3,350.3 | -8.7 | 458.3 | 458.3 | 0.00 | 0.00 | 0.00 |
| 3,440.0 | 13.09 | 91.09 | 3,389.2 | -8.9 | 467.3 | 467.4 | 0.00 | 0.00 | 0.00 |
| 3,480.0 | 13.09 | 91.09 | 3,428.2 | -9.1 | 476.4 | 476.5 | 0.00 | 0.00 | 0.00 |
| 3,520.0 | 13.09 | 91.09 | 3,467.2 | -9.2 | 485.4 | 485.5 | 0.00 | 0.00 | 0.00 |
| 3,560.0 | 13.09 | 91.09 | 3,506.1 | -9.4 | 494.5 | 494.6 | 0.00 | 0.00 | 0.00 |
| 3,600.0 | 13.09 | 91.09 | 3,545.1 | -9.6 | 503.5 | 503.6 | 0.00 | 0.00 | 0.00 |
| 3,640.0 | 13.09 | 91.09 | 3,584.1 | -9.7 | 512.6 | 512.7 | 0.00 | 0.00 | 0.00 |
| 3,680.0 | 13.09 | 91.09 | 3,623.0 | -9.9 | 521.7 | 521.7 | 0.00 | 0.00 | 0.00 |
| 3,720.0 | 13.09 | 91.09 | 3,662.0 | -10.1 | 530.7 | 530.8 | 0.00 | 0.00 | 0.00 |
| 3,760.0 | 13.09 | 91.09 | 3,700.9 | -10.3 | 539.8 | 539.9 | 0.00 | 0.00 | 0.00 |
| 3,800.0 | 13.09 | 91.09 | 3,739.9 | -10.4 | 548.8 | 548.9 | 0.00 | 0.00 | 0.00 |
| 3,840.0 | 13.09 | 91.09 | 3,778.9 | -10.6 | 557.9 | 558.0 | 0.00 | 0.00 | 0.00 |
| 3,880.0 | 13.09 | 91.09 | 3,817.8 | -10.8 | 566.9 | 567.0 | 0.00 | 0.00 | 0.00 |
| 3,920.0 | 13.09 | 91.09 | 3,856.8 | -11.0 | 576.0 | 576.1 | 0.00 | 0.00 | 0.00 |
| 3,960.0 | 13.09 | 91.09 | 3,895.7 | -11.1 | 585.0 | 585.1 | 0.00 | 0.00 | 0.00 |
| 4,000.0 | 13.09 | 91.09 | 3,934.7 | -11.3 | 594.1 | 594.2 | 0.00 | 0.00 | 0.00 |
| 4,040.0 | 13.09 | 91.09 | 3,973.7 | -11.5 | 603.2 | 603.3 | 0.00 | 0.00 | 0.00 |

| | | | |
|------------------|----------------------------------------------|-------------------------------------|--------------------------------------|
| Database: | Landmark | Local Co-ordinate Reference: | Well Guttersen USX D21-24D |
| Company: | NOBLE ENERGY INC WELD COUNTY CO | TVD Reference: | WELL @ 4833.0ft (Original Well Elev) |
| Project: | SEC.21-T3N-R64W | MD Reference: | WELL @ 4833.0ft (Original Well Elev) |
| Site: | Guttersen USX D21-32D Pad Sec.21-T3N-R64W | North Reference: | True |
| Well: | Guttersen USX D21-24D | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Noble Guttersen USX D21-24D Plan #1 (11-1-1) | | |

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) |
|-------------------------------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| 4,080.0 | 13.09 | 91.09 | 4,012.6 | -11.6 | 612.2 | 612.3 | 0.00 | 0.00 | 0.00 |
| 4,120.0 | 13.09 | 91.09 | 4,051.6 | -11.8 | 621.3 | 621.4 | 0.00 | 0.00 | 0.00 |
| 4,160.0 | 13.09 | 91.09 | 4,090.5 | -12.0 | 630.3 | 630.4 | 0.00 | 0.00 | 0.00 |
| 4,200.0 | 13.09 | 91.09 | 4,129.5 | -12.2 | 639.4 | 639.5 | 0.00 | 0.00 | 0.00 |
| 4,240.0 | 13.09 | 91.09 | 4,168.5 | -12.3 | 648.4 | 648.5 | 0.00 | 0.00 | 0.00 |
| 4,280.0 | 13.09 | 91.09 | 4,207.4 | -12.5 | 657.5 | 657.6 | 0.00 | 0.00 | 0.00 |
| 4,320.0 | 13.09 | 91.09 | 4,246.4 | -12.7 | 666.5 | 666.7 | 0.00 | 0.00 | 0.00 |
| 4,360.0 | 13.09 | 91.09 | 4,285.4 | -12.8 | 675.6 | 675.7 | 0.00 | 0.00 | 0.00 |
| 4,400.0 | 13.09 | 91.09 | 4,324.3 | -13.0 | 684.7 | 684.8 | 0.00 | 0.00 | 0.00 |
| 4,427.7 | 13.09 | 91.09 | 4,351.3 | -13.1 | 690.9 | 691.1 | 0.00 | 0.00 | 0.00 |
| 4,440.0 | 12.84 | 91.09 | 4,363.3 | -13.2 | 693.7 | 693.8 | 2.00 | -2.00 | 0.00 |
| 4,480.0 | 12.04 | 91.09 | 4,402.3 | -13.4 | 702.3 | 702.4 | 2.00 | -2.00 | 0.00 |
| 4,520.0 | 11.24 | 91.09 | 4,441.5 | -13.5 | 710.4 | 710.5 | 2.00 | -2.00 | 0.00 |
| 4,560.0 | 10.44 | 91.09 | 4,480.8 | -13.6 | 717.9 | 718.0 | 2.00 | -2.00 | 0.00 |
| 4,600.0 | 9.64 | 91.09 | 4,520.2 | -13.8 | 724.9 | 725.0 | 2.00 | -2.00 | 0.00 |
| 4,640.0 | 8.84 | 91.09 | 4,559.7 | -13.9 | 731.3 | 731.4 | 2.00 | -2.00 | 0.00 |
| 4,680.0 | 8.04 | 91.09 | 4,599.2 | -14.0 | 737.2 | 737.3 | 2.00 | -2.00 | 0.00 |
| 4,720.0 | 7.24 | 91.09 | 4,638.9 | -14.1 | 742.5 | 742.6 | 2.00 | -2.00 | 0.00 |
| 4,760.0 | 6.44 | 91.09 | 4,678.6 | -14.2 | 747.2 | 747.4 | 2.00 | -2.00 | 0.00 |
| 4,800.0 | 5.64 | 91.09 | 4,718.4 | -14.3 | 751.4 | 751.6 | 2.00 | -2.00 | 0.00 |
| 4,840.0 | 4.84 | 91.09 | 4,758.2 | -14.4 | 755.1 | 755.2 | 2.00 | -2.00 | 0.00 |
| 4,880.0 | 4.04 | 91.09 | 4,798.1 | -14.4 | 758.2 | 758.3 | 2.00 | -2.00 | 0.00 |
| 4,920.0 | 3.24 | 91.09 | 4,838.0 | -14.5 | 760.7 | 760.9 | 2.00 | -2.00 | 0.00 |
| 4,960.0 | 2.44 | 91.09 | 4,878.0 | -14.5 | 762.7 | 762.9 | 2.00 | -2.00 | 0.00 |
| 5,000.0 | 1.64 | 91.09 | 4,917.9 | -14.5 | 764.1 | 764.3 | 2.00 | -2.00 | 0.00 |
| 5,040.0 | 0.84 | 91.09 | 4,957.9 | -14.5 | 765.0 | 765.2 | 2.00 | -2.00 | 0.00 |
| 5,080.0 | 0.04 | 91.09 | 4,997.9 | -14.6 | 765.3 | 765.5 | 2.00 | -2.00 | 0.00 |
| 5,082.1 | 0.00 | 0.00 | 5,000.0 | -14.6 | 765.3 | 765.5 | 2.00 | -2.00 | 0.00 |
| TARGET BHL 1320'FSL & 2500'FWL | | | | | | | | | |
| 5,120.0 | 0.00 | 0.00 | 5,037.9 | -14.6 | 765.3 | 765.5 | 0.00 | 0.00 | 0.00 |
| 5,160.0 | 0.00 | 0.00 | 5,077.9 | -14.6 | 765.3 | 765.5 | 0.00 | 0.00 | 0.00 |
| 5,200.0 | 0.00 | 0.00 | 5,117.9 | -14.6 | 765.3 | 765.5 | 0.00 | 0.00 | 0.00 |
| 5,240.0 | 0.00 | 0.00 | 5,157.9 | -14.6 | 765.3 | 765.5 | 0.00 | 0.00 | 0.00 |
| 5,280.0 | 0.00 | 0.00 | 5,197.9 | -14.6 | 765.3 | 765.5 | 0.00 | 0.00 | 0.00 |
| 5,320.0 | 0.00 | 0.00 | 5,237.9 | -14.6 | 765.3 | 765.5 | 0.00 | 0.00 | 0.00 |
| 5,360.0 | 0.00 | 0.00 | 5,277.9 | -14.6 | 765.3 | 765.5 | 0.00 | 0.00 | 0.00 |
| 5,400.0 | 0.00 | 0.00 | 5,317.9 | -14.6 | 765.3 | 765.5 | 0.00 | 0.00 | 0.00 |
| 5,440.0 | 0.00 | 0.00 | 5,357.9 | -14.6 | 765.3 | 765.5 | 0.00 | 0.00 | 0.00 |
| 5,480.0 | 0.00 | 0.00 | 5,397.9 | -14.6 | 765.3 | 765.5 | 0.00 | 0.00 | 0.00 |
| 5,520.0 | 0.00 | 0.00 | 5,437.9 | -14.6 | 765.3 | 765.5 | 0.00 | 0.00 | 0.00 |
| 5,560.0 | 0.00 | 0.00 | 5,477.9 | -14.6 | 765.3 | 765.5 | 0.00 | 0.00 | 0.00 |
| 5,600.0 | 0.00 | 0.00 | 5,517.9 | -14.6 | 765.3 | 765.5 | 0.00 | 0.00 | 0.00 |
| 5,640.0 | 0.00 | 0.00 | 5,557.9 | -14.6 | 765.3 | 765.5 | 0.00 | 0.00 | 0.00 |
| 5,680.0 | 0.00 | 0.00 | 5,597.9 | -14.6 | 765.3 | 765.5 | 0.00 | 0.00 | 0.00 |
| 5,720.0 | 0.00 | 0.00 | 5,637.9 | -14.6 | 765.3 | 765.5 | 0.00 | 0.00 | 0.00 |
| 5,760.0 | 0.00 | 0.00 | 5,677.9 | -14.6 | 765.3 | 765.5 | 0.00 | 0.00 | 0.00 |
| 5,800.0 | 0.00 | 0.00 | 5,717.9 | -14.6 | 765.3 | 765.5 | 0.00 | 0.00 | 0.00 |
| 5,840.0 | 0.00 | 0.00 | 5,757.9 | -14.6 | 765.3 | 765.5 | 0.00 | 0.00 | 0.00 |
| 5,880.0 | 0.00 | 0.00 | 5,797.9 | -14.6 | 765.3 | 765.5 | 0.00 | 0.00 | 0.00 |
| 5,920.0 | 0.00 | 0.00 | 5,837.9 | -14.6 | 765.3 | 765.5 | 0.00 | 0.00 | 0.00 |
| 5,960.0 | 0.00 | 0.00 | 5,877.9 | -14.6 | 765.3 | 765.5 | 0.00 | 0.00 | 0.00 |
| 6,000.0 | 0.00 | 0.00 | 5,917.9 | -14.6 | 765.3 | 765.5 | 0.00 | 0.00 | 0.00 |
| 6,040.0 | 0.00 | 0.00 | 5,957.9 | -14.6 | 765.3 | 765.5 | 0.00 | 0.00 | 0.00 |

| | | | |
|------------------|----------------------------------------------|-------------------------------------|--------------------------------------|
| Database: | Landmark | Local Co-ordinate Reference: | Well Guttersen USX D21-24D |
| Company: | NOBLE ENERGY INC WELD COUNTY CO | TVD Reference: | WELL @ 4833.0ft (Original Well Elev) |
| Project: | SEC.21-T3N-R64W | MD Reference: | WELL @ 4833.0ft (Original Well Elev) |
| Site: | Guttersen USX D21-32D Pad Sec.21-T3N-R64W | North Reference: | True |
| Well: | Guttersen USX D21-24D | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Noble Guttersen USX D21-24D Plan #1 (11-1-1) | | |

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) |
|---------------------------------------------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| 6,080.0 | 0.00 | 0.00 | 5,997.9 | -14.6 | 765.3 | 765.5 | 0.00 | 0.00 | 0.00 |
| 6,120.0 | 0.00 | 0.00 | 6,037.9 | -14.6 | 765.3 | 765.5 | 0.00 | 0.00 | 0.00 |
| 6,160.0 | 0.00 | 0.00 | 6,077.9 | -14.6 | 765.3 | 765.5 | 0.00 | 0.00 | 0.00 |
| 6,200.0 | 0.00 | 0.00 | 6,117.9 | -14.6 | 765.3 | 765.5 | 0.00 | 0.00 | 0.00 |
| 6,240.0 | 0.00 | 0.00 | 6,157.9 | -14.6 | 765.3 | 765.5 | 0.00 | 0.00 | 0.00 |
| 6,280.0 | 0.00 | 0.00 | 6,197.9 | -14.6 | 765.3 | 765.5 | 0.00 | 0.00 | 0.00 |
| 6,320.0 | 0.00 | 0.00 | 6,237.9 | -14.6 | 765.3 | 765.5 | 0.00 | 0.00 | 0.00 |
| 6,360.0 | 0.00 | 0.00 | 6,277.9 | -14.6 | 765.3 | 765.5 | 0.00 | 0.00 | 0.00 |
| 6,400.0 | 0.00 | 0.00 | 6,317.9 | -14.6 | 765.3 | 765.5 | 0.00 | 0.00 | 0.00 |
| 6,440.0 | 0.00 | 0.00 | 6,357.9 | -14.6 | 765.3 | 765.5 | 0.00 | 0.00 | 0.00 |
| 6,480.0 | 0.00 | 0.00 | 6,397.9 | -14.6 | 765.3 | 765.5 | 0.00 | 0.00 | 0.00 |
| 6,520.0 | 0.00 | 0.00 | 6,437.9 | -14.6 | 765.3 | 765.5 | 0.00 | 0.00 | 0.00 |
| 6,560.0 | 0.00 | 0.00 | 6,477.9 | -14.6 | 765.3 | 765.5 | 0.00 | 0.00 | 0.00 |
| 6,600.0 | 0.00 | 0.00 | 6,517.9 | -14.6 | 765.3 | 765.5 | 0.00 | 0.00 | 0.00 |
| 6,640.0 | 0.00 | 0.00 | 6,557.9 | -14.6 | 765.3 | 765.5 | 0.00 | 0.00 | 0.00 |
| 6,680.0 | 0.00 | 0.00 | 6,597.9 | -14.6 | 765.3 | 765.5 | 0.00 | 0.00 | 0.00 |
| 6,720.0 | 0.00 | 0.00 | 6,637.9 | -14.6 | 765.3 | 765.5 | 0.00 | 0.00 | 0.00 |
| 6,760.0 | 0.00 | 0.00 | 6,677.9 | -14.6 | 765.3 | 765.5 | 0.00 | 0.00 | 0.00 |
| 6,796.1 | 0.00 | 0.00 | 6,714.0 | -14.6 | 765.3 | 765.5 | 0.00 | 0.00 | 0.00 |
| NIOBRARA - TARGET CIRCLE 1320'FSL & 2500'FWL | | | | | | | | | |
| 6,800.0 | 0.00 | 0.00 | 6,717.9 | -14.6 | 765.3 | 765.5 | 0.00 | 0.00 | 0.00 |
| 6,840.0 | 0.00 | 0.00 | 6,757.9 | -14.6 | 765.3 | 765.5 | 0.00 | 0.00 | 0.00 |
| 6,880.0 | 0.00 | 0.00 | 6,797.9 | -14.6 | 765.3 | 765.5 | 0.00 | 0.00 | 0.00 |
| 6,920.0 | 0.00 | 0.00 | 6,837.9 | -14.6 | 765.3 | 765.5 | 0.00 | 0.00 | 0.00 |
| 6,960.0 | 0.00 | 0.00 | 6,877.9 | -14.6 | 765.3 | 765.5 | 0.00 | 0.00 | 0.00 |
| 7,000.0 | 0.00 | 0.00 | 6,917.9 | -14.6 | 765.3 | 765.5 | 0.00 | 0.00 | 0.00 |
| 7,040.0 | 0.00 | 0.00 | 6,957.9 | -14.6 | 765.3 | 765.5 | 0.00 | 0.00 | 0.00 |
| 7,080.0 | 0.00 | 0.00 | 6,997.9 | -14.6 | 765.3 | 765.5 | 0.00 | 0.00 | 0.00 |
| 7,095.1 | 0.00 | 0.00 | 7,013.0 | -14.6 | 765.3 | 765.5 | 0.00 | 0.00 | 0.00 |
| CODELL | | | | | | | | | |
| 7,120.0 | 0.00 | 0.00 | 7,037.9 | -14.6 | 765.3 | 765.5 | 0.00 | 0.00 | 0.00 |
| 7,160.0 | 0.00 | 0.00 | 7,077.9 | -14.6 | 765.3 | 765.5 | 0.00 | 0.00 | 0.00 |
| 7,200.0 | 0.00 | 0.00 | 7,117.9 | -14.6 | 765.3 | 765.5 | 0.00 | 0.00 | 0.00 |
| 7,240.0 | 0.00 | 0.00 | 7,157.9 | -14.6 | 765.3 | 765.5 | 0.00 | 0.00 | 0.00 |
| 7,245.1 | 0.00 | 0.00 | 7,163.0 | -14.6 | 765.3 | 765.5 | 0.00 | 0.00 | 0.00 |
| HARDLINE 128'E OF BHL | | | | | | | | | |

| | | | |
|------------------|-----------------------------------------------|-------------------------------------|--------------------------------------|
| Database: | Landmark | Local Co-ordinate Reference: | Well Guttersten USX D21-24D |
| Company: | NOBLE ENERGY INC WELD COUNTY CO | TVD Reference: | WELL @ 4833.0ft (Original Well Elev) |
| Project: | SEC.21-T3N-R64W | MD Reference: | WELL @ 4833.0ft (Original Well Elev) |
| Site: | Guttersten USX D21-32D Pad Sec.21-T3N-R64W | North Reference: | True |
| Well: | Guttersten USX D21-24D | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Noble Guttersten USX D21-24D Plan #1 (11-1-1) | | |

| Targets | | | | | | | | | |
|--------------------------------------------------------------------------------------|-----------|----------|---------|--------|-------|--------------|--------------|-----------|-------------|
| Target Name | Dip Angle | Dip Dir. | TVD | +N/-S | +E/-W | Northing | Easting | Latitude | Longitude |
| - hit/miss target | (°) | (°) | (ft) | (ft) | (ft) | (ft) | (ft) | | |
| - Shape | | | | | | | | | |
| HARDLINE 128'E OF | 0.00 | 0.00 | 7,163.0 | -114.6 | 893.3 | 1,319,667.87 | 3,263,575.63 | 40.207035 | -104.556292 |
| - plan misses target center by 162.4ft at 7245.1ft MD (7163.0 TVD, -14.6 N, 765.3 E) | | | | | | | | | |
| - Polygon | | | | | | | | | |
| Point 1 | | | 7,163.0 | 0.0 | 0.0 | 1,319,667.87 | 3,263,575.63 | | |
| Point 2 | | | 7,163.0 | 200.0 | 0.0 | 1,319,867.85 | 3,263,573.51 | | |
| TARGET CIRCLE 132' | 0.00 | 0.00 | 6,714.0 | -14.6 | 765.3 | 1,319,766.55 | 3,263,446.60 | 40.207310 | -104.556750 |
| - plan hits target center | | | | | | | | | |
| - Circle (radius 75.0) | | | | | | | | | |
| TARGET BHL 1320'F | 0.00 | 0.00 | 5,000.0 | -14.6 | 765.3 | 1,319,766.55 | 3,263,446.60 | 40.207310 | -104.556750 |
| - plan hits target center | | | | | | | | | |
| - Point | | | | | | | | | |

| Casing Points | | | | | |
|----------------|----------------|--------|--|-----------------|---------------|
| Measured Depth | Vertical Depth | Name | | Casing Diameter | Hole Diameter |
| (ft) | (ft) | | | (") | (") |
| 700.0 | 700.0 | 8 5/8" | | 8-5/8 | 12-1/4 |

| Formations | | | | | | |
|----------------|----------------|----------|--|-----------|------|---------------|
| Measured Depth | Vertical Depth | Name | | Lithology | Dip | Dip Direction |
| (ft) | (ft) | | | | (°) | (°) |
| 6,796.1 | 6,714.0 | NIOBRARA | | | 0.00 | |
| 7,095.1 | 7,013.0 | CODELL | | | 0.00 | |