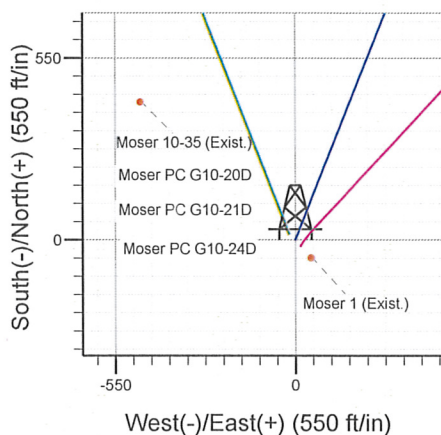
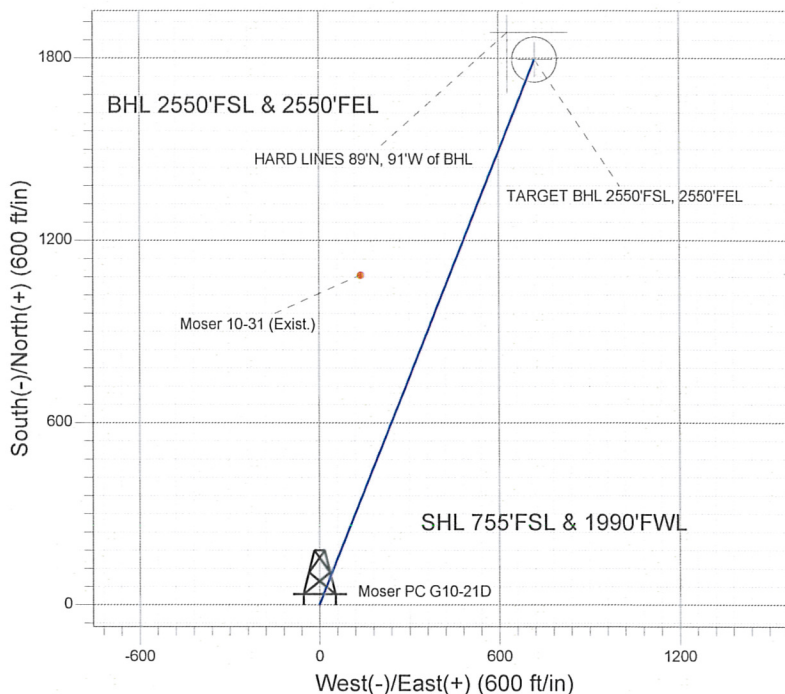
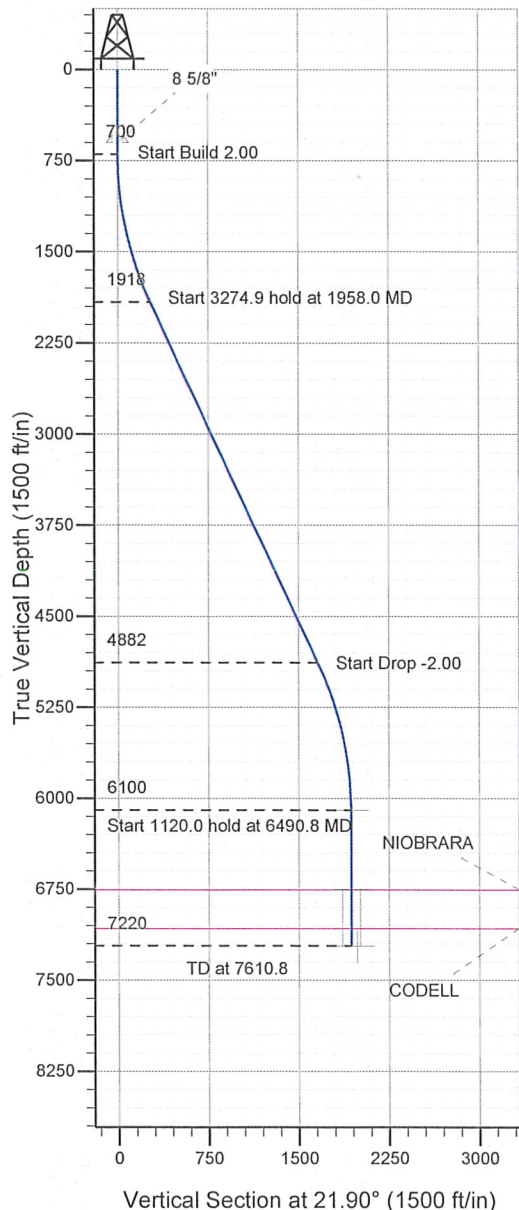


Well Name: **Moser PC G10-21D**

Surface Location: Moser PC G10-24D Pad Sec.10-T4N- R65W
 North American Datum 1983 , US State Plane 1983 Colorado Northern Zone
 Ground Elevation: 4697.0
 +N/-S +E/-W Northing Easting Latitude Longitude Slot
 0.0 0.0 1361204.59 3236593.38 40° 19' 18.480 N 104° 39' 5.292 W
 Original Well EleWELL @ 4710.0ft (Original Well Elev)

NOBLE ENERGY INC WELD COUNTY CO



Moser PC G10-24D Pad Sec.10-T4N- R65W
 Moser PC G10-21D
 Noble Moser PC G10-21D Plan #1 (10-04-10)
 7:44, October 08 2010



Azimuths to True North
 Magnetic North: 8.89°
 Magnetic Field
 Strength: 53177.2snT
 Dip Angle: 67.03°
 Date: 10/4/2010
 Model: IGRF2010

WELLBORE TARGET DETAILS (LAT/LONG)

| Name | TVD | +N/-S | +E/-W | Latitude | Longitude | Shape |
|----------------------------------|--------|--------|-------|------------------|-------------------|-----------------------|
| TARGET BHL 2550'FSL, 2550'FEL | 6100.0 | 1796.1 | 722.2 | 40° 19' 36.228 N | 104° 38' 55.968 W | Point |
| TARGET CIRCLE 2550'FSL, 2550'FEL | 6750.0 | 1796.1 | 722.2 | 40° 19' 36.228 N | 104° 38' 55.968 W | Circle (Radius: 75.0) |
| HARD LINES 89°N, 91°W of BHL | 7220.0 | 1885.1 | 631.2 | 40° 19' 37.108 N | 104° 38' 57.142 W | 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 | 700.0 | 0.00 | 0.00 | 700.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.0 | |
| 3 | 1958.0 | 25.16 | 21.90 | 1917.9 | 252.2 | 101.4 | 2.00 | 21.90 | 271.8 | |
| 4 | 5232.8 | 25.16 | 21.90 | 4882.1 | 1543.9 | 620.8 | 0.00 | 0.00 | 1664.0 | |
| 5 | 6490.8 | 0.00 | 0.00 | 6100.0 | 1796.1 | 722.2 | 2.00 | 180.00 | 1935.8 | TARGET BHL 2550'FSL, 2550'FEL |
| 6 | 7610.8 | 0.00 | 0.00 | 7220.0 | 1796.1 | 722.2 | 0.00 | 0.00 | 1935.8 | |



Directional

**NOBLE ENERGY INC WELD
COUNTY CO**

SEC.10-T4N-R65W

Moser PC G10-24D Pad Sec.10-T4N- R65W

Moser PC G10-21D

Wellbore #1

Plan: Noble Moser PC G10-21D Plan #1 (10-04-10)

Standard Planning Report

08 October, 2010



Database: Landmark
Company: NOBLE ENERGY INC WELD COUNTY CO
Project: SEC.10-T4N-R65W
Site: Moser PC G10-24D Pad Sec.10-T4N- R65W
Well: Moser PC G10-21D
Wellbore: Wellbore #1
Design: Noble Moser PC G10-21D Plan #1 (10-04-10)

Local Co-ordinate Reference: Well Moser PC G10-21D
TVD Reference: WELL @ 4710.0ft (Original Well Elev)
MD Reference: WELL @ 4710.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

| | | | |
|-------------|--|---------------|-----------------------------|
| Project | SEC.10-T4N-R65W, 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 | Moser PC G10-24D Pad Sec.10-T4N- R65W | | | | |
| Site Position: | | Northing: | 1,361,186.55 ft | Latitude: | 40° 19' 18.300 N |
| From: | Lat/Long | Easting: | 3,236,610.29 ft | Longitude: | 104° 39' 5.076 W |
| Position Uncertainty: | 0.0 ft | Slot Radius: | " | Grid Convergence: | 0.55 ° |

| | | | | | | |
|----------------------|------------------|---------------------|-----------|-----------------|------------|------------------|
| Well | Moser PC G10-21D | | | | | |
| Well Position | +N/-S | 18.2 ft | Northing: | 1,361,204.59 ft | Latitude: | 40° 19' 18.480 N |
| | +E/-W | -16.7 ft | Easting: | 3,236,593.38 ft | Longitude: | 104° 39' 5.292 W |
| Position Uncertainty | 0.0 ft | Wellhead Elevation: | ft | Ground Level: | 4,697.0 ft | |

| | | | | | |
|-----------|-------------|-------------|-----------------|---------------|---------------------|
| Wellbore | Wellbore #1 | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2010 | 10/4/2010 | 8.89 | 67.03 | 53,177 |

Design Noble Moser PC G10-21D Plan #1 (10-04-10)

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 | 21.90 |

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 | |
| 700.0 | 0.00 | 0.00 | 700.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,958.0 | 25.16 | 21.90 | 1,917.9 | 252.2 | 101.4 | 2.00 | 2.00 | 0.00 | 21.90 | |
| 5,232.8 | 25.16 | 21.90 | 4,882.1 | 1,543.9 | 620.8 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 6,490.8 | 0.00 | 0.00 | 6,100.0 | 1,796.1 | 722.2 | 2.00 | -2.00 | 0.00 | 180.00 | TARGET BHL 255C |
| 7,610.8 | 0.00 | 0.00 | 7,220.0 | 1,796.1 | 722.2 | 0.00 | 0.00 | 0.00 | 0.00 | |

Database: Landmark
Company: NOBLE ENERGY INC WELD COUNTY CO
Project: SEC.10-T4N-R65W
Site: Moser PC G10-24D Pad Sec.10-T4N- R65W
Well: Moser PC G10-21D
Wellbore: Wellbore #1
Design: Noble Moser PC G10-21D Plan #1 (10-04-10)

Local Co-ordinate Reference: Well Moser PC G10-21D
TVD Reference: WELL @ 4710.0ft (Original Well Elev)
MD Reference: WELL @ 4710.0ft (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 | 0.00 | 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 |
| 8 5/8" | | | | | | | | | |
| 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 |
| 720.0 | 0.40 | 21.90 | 720.0 | 0.1 | 0.0 | 0.1 | 2.00 | 2.00 | 0.00 |
| 760.0 | 1.20 | 21.90 | 760.0 | 0.6 | 0.2 | 0.6 | 2.00 | 2.00 | 0.00 |
| 800.0 | 2.00 | 21.90 | 800.0 | 1.6 | 0.7 | 1.7 | 2.00 | 2.00 | 0.00 |
| 840.0 | 2.80 | 21.90 | 839.9 | 3.2 | 1.3 | 3.4 | 2.00 | 2.00 | 0.00 |
| 880.0 | 3.60 | 21.90 | 879.9 | 5.2 | 2.1 | 5.7 | 2.00 | 2.00 | 0.00 |
| 920.0 | 4.40 | 21.90 | 919.8 | 7.8 | 3.1 | 8.4 | 2.00 | 2.00 | 0.00 |
| 960.0 | 5.20 | 21.90 | 959.6 | 10.9 | 4.4 | 11.8 | 2.00 | 2.00 | 0.00 |
| 1,000.0 | 6.00 | 21.90 | 999.5 | 14.6 | 5.9 | 15.7 | 2.00 | 2.00 | 0.00 |
| 1,040.0 | 6.80 | 21.90 | 1,039.2 | 18.7 | 7.5 | 20.2 | 2.00 | 2.00 | 0.00 |
| 1,080.0 | 7.60 | 21.90 | 1,078.9 | 23.3 | 9.4 | 25.2 | 2.00 | 2.00 | 0.00 |
| 1,120.0 | 8.40 | 21.90 | 1,118.5 | 28.5 | 11.5 | 30.7 | 2.00 | 2.00 | 0.00 |
| 1,160.0 | 9.20 | 21.90 | 1,158.0 | 34.2 | 13.7 | 36.9 | 2.00 | 2.00 | 0.00 |
| 1,200.0 | 10.00 | 21.90 | 1,197.5 | 40.4 | 16.2 | 43.5 | 2.00 | 2.00 | 0.00 |
| 1,240.0 | 10.80 | 21.90 | 1,236.8 | 47.1 | 18.9 | 50.7 | 2.00 | 2.00 | 0.00 |
| 1,280.0 | 11.60 | 21.90 | 1,276.0 | 54.3 | 21.8 | 58.5 | 2.00 | 2.00 | 0.00 |
| 1,320.0 | 12.40 | 21.90 | 1,315.2 | 62.0 | 24.9 | 66.8 | 2.00 | 2.00 | 0.00 |
| 1,360.0 | 13.20 | 21.90 | 1,354.2 | 70.2 | 28.2 | 75.7 | 2.00 | 2.00 | 0.00 |
| 1,400.0 | 14.00 | 21.90 | 1,393.1 | 79.0 | 31.7 | 85.1 | 2.00 | 2.00 | 0.00 |
| 1,440.0 | 14.80 | 21.90 | 1,431.8 | 88.2 | 35.5 | 95.0 | 2.00 | 2.00 | 0.00 |
| 1,480.0 | 15.60 | 21.90 | 1,470.4 | 97.9 | 39.4 | 105.5 | 2.00 | 2.00 | 0.00 |
| 1,520.0 | 16.40 | 21.90 | 1,508.8 | 108.1 | 43.5 | 116.6 | 2.00 | 2.00 | 0.00 |
| 1,560.0 | 17.20 | 21.90 | 1,547.1 | 118.9 | 47.8 | 128.1 | 2.00 | 2.00 | 0.00 |
| 1,600.0 | 18.00 | 21.90 | 1,585.3 | 130.1 | 52.3 | 140.2 | 2.00 | 2.00 | 0.00 |
| 1,640.0 | 18.80 | 21.90 | 1,623.2 | 141.8 | 57.0 | 152.8 | 2.00 | 2.00 | 0.00 |
| 1,680.0 | 19.60 | 21.90 | 1,661.0 | 154.0 | 61.9 | 166.0 | 2.00 | 2.00 | 0.00 |
| 1,720.0 | 20.40 | 21.90 | 1,698.6 | 166.7 | 67.0 | 179.7 | 2.00 | 2.00 | 0.00 |
| 1,760.0 | 21.20 | 21.90 | 1,736.0 | 179.9 | 72.3 | 193.9 | 2.00 | 2.00 | 0.00 |
| 1,800.0 | 22.00 | 21.90 | 1,773.2 | 193.5 | 77.8 | 208.6 | 2.00 | 2.00 | 0.00 |
| 1,840.0 | 22.80 | 21.90 | 1,810.2 | 207.7 | 83.5 | 223.8 | 2.00 | 2.00 | 0.00 |
| 1,880.0 | 23.60 | 21.90 | 1,846.9 | 222.3 | 89.4 | 239.6 | 2.00 | 2.00 | 0.00 |
| 1,920.0 | 24.40 | 21.90 | 1,883.5 | 237.4 | 95.5 | 255.9 | 2.00 | 2.00 | 0.00 |
| 1,958.0 | 25.16 | 21.90 | 1,917.9 | 252.2 | 101.4 | 271.8 | 2.00 | 2.00 | 0.00 |
| 1,960.0 | 25.16 | 21.90 | 1,919.8 | 253.0 | 101.7 | 272.6 | 0.00 | 0.00 | 0.00 |
| 2,000.0 | 25.16 | 21.90 | 1,956.0 | 268.7 | 108.1 | 289.7 | 0.00 | 0.00 | 0.00 |

Database: Landmark
Company: NOBLE ENERGY INC WELD COUNTY CO
Project: SEC.10-T4N-R65W
Site: Moser PC G10-24D Pad Sec.10-T4N- R65W
Well: Moser PC G10-21D
Wellbore: Wellbore #1
Design: Noble Moser PC G10-21D Plan #1 (10-04-10)

Local Co-ordinate Reference: Well Moser PC G10-21D
TVD Reference: WELL @ 4710.0ft (Original Well Elev)
MD Reference: WELL @ 4710.0ft (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) |
|---------------------------|--------------------|----------------|---------------------------|---------------|---------------|-----------------------------|-----------------------------|----------------------------|---------------------------|
| 2,040.0 | 25.16 | 21.90 | 1,992.2 | 284.5 | 114.4 | 306.7 | 0.00 | 0.00 | 0.00 |
| 2,080.0 | 25.16 | 21.90 | 2,028.4 | 300.3 | 120.7 | 323.7 | 0.00 | 0.00 | 0.00 |
| 2,120.0 | 25.16 | 21.90 | 2,064.6 | 316.1 | 127.1 | 340.7 | 0.00 | 0.00 | 0.00 |
| 2,160.0 | 25.16 | 21.90 | 2,100.8 | 331.9 | 133.4 | 357.7 | 0.00 | 0.00 | 0.00 |
| 2,200.0 | 25.16 | 21.90 | 2,137.0 | 347.6 | 139.8 | 374.7 | 0.00 | 0.00 | 0.00 |
| 2,240.0 | 25.16 | 21.90 | 2,173.2 | 363.4 | 146.1 | 391.7 | 0.00 | 0.00 | 0.00 |
| 2,280.0 | 25.16 | 21.90 | 2,209.4 | 379.2 | 152.5 | 408.7 | 0.00 | 0.00 | 0.00 |
| 2,320.0 | 25.16 | 21.90 | 2,245.6 | 395.0 | 158.8 | 425.7 | 0.00 | 0.00 | 0.00 |
| 2,360.0 | 25.16 | 21.90 | 2,281.8 | 410.7 | 165.2 | 442.7 | 0.00 | 0.00 | 0.00 |
| 2,400.0 | 25.16 | 21.90 | 2,318.0 | 426.5 | 171.5 | 459.7 | 0.00 | 0.00 | 0.00 |
| 2,440.0 | 25.16 | 21.90 | 2,354.2 | 442.3 | 177.8 | 476.7 | 0.00 | 0.00 | 0.00 |
| 2,480.0 | 25.16 | 21.90 | 2,390.4 | 458.1 | 184.2 | 493.7 | 0.00 | 0.00 | 0.00 |
| 2,520.0 | 25.16 | 21.90 | 2,426.6 | 473.9 | 190.5 | 510.7 | 0.00 | 0.00 | 0.00 |
| 2,560.0 | 25.16 | 21.90 | 2,462.8 | 489.6 | 196.9 | 527.7 | 0.00 | 0.00 | 0.00 |
| 2,600.0 | 25.16 | 21.90 | 2,499.1 | 505.4 | 203.2 | 544.7 | 0.00 | 0.00 | 0.00 |
| 2,640.0 | 25.16 | 21.90 | 2,535.3 | 521.2 | 209.6 | 561.7 | 0.00 | 0.00 | 0.00 |
| 2,680.0 | 25.16 | 21.90 | 2,571.5 | 537.0 | 215.9 | 578.7 | 0.00 | 0.00 | 0.00 |
| 2,720.0 | 25.16 | 21.90 | 2,607.7 | 552.7 | 222.2 | 595.7 | 0.00 | 0.00 | 0.00 |
| 2,760.0 | 25.16 | 21.90 | 2,643.9 | 568.5 | 228.6 | 612.8 | 0.00 | 0.00 | 0.00 |
| 2,800.0 | 25.16 | 21.90 | 2,680.1 | 584.3 | 234.9 | 629.8 | 0.00 | 0.00 | 0.00 |
| 2,840.0 | 25.16 | 21.90 | 2,716.3 | 600.1 | 241.3 | 646.8 | 0.00 | 0.00 | 0.00 |
| 2,880.0 | 25.16 | 21.90 | 2,752.5 | 615.9 | 247.6 | 663.8 | 0.00 | 0.00 | 0.00 |
| 2,920.0 | 25.16 | 21.90 | 2,788.7 | 631.6 | 254.0 | 680.8 | 0.00 | 0.00 | 0.00 |
| 2,960.0 | 25.16 | 21.90 | 2,824.9 | 647.4 | 260.3 | 697.8 | 0.00 | 0.00 | 0.00 |
| 3,000.0 | 25.16 | 21.90 | 2,861.1 | 663.2 | 266.7 | 714.8 | 0.00 | 0.00 | 0.00 |
| 3,040.0 | 25.16 | 21.90 | 2,897.3 | 679.0 | 273.0 | 731.8 | 0.00 | 0.00 | 0.00 |
| 3,080.0 | 25.16 | 21.90 | 2,933.5 | 694.7 | 279.3 | 748.8 | 0.00 | 0.00 | 0.00 |
| 3,120.0 | 25.16 | 21.90 | 2,969.7 | 710.5 | 285.7 | 765.8 | 0.00 | 0.00 | 0.00 |
| 3,160.0 | 25.16 | 21.90 | 3,005.9 | 726.3 | 292.0 | 782.8 | 0.00 | 0.00 | 0.00 |
| 3,200.0 | 25.16 | 21.90 | 3,042.1 | 742.1 | 298.4 | 799.8 | 0.00 | 0.00 | 0.00 |
| 3,240.0 | 25.16 | 21.90 | 3,078.3 | 757.9 | 304.7 | 816.8 | 0.00 | 0.00 | 0.00 |
| 3,280.0 | 25.16 | 21.90 | 3,114.5 | 773.6 | 311.1 | 833.8 | 0.00 | 0.00 | 0.00 |
| 3,320.0 | 25.16 | 21.90 | 3,150.7 | 789.4 | 317.4 | 850.8 | 0.00 | 0.00 | 0.00 |
| 3,360.0 | 25.16 | 21.90 | 3,187.0 | 805.2 | 323.7 | 867.8 | 0.00 | 0.00 | 0.00 |
| 3,400.0 | 25.16 | 21.90 | 3,223.2 | 821.0 | 330.1 | 884.8 | 0.00 | 0.00 | 0.00 |
| 3,440.0 | 25.16 | 21.90 | 3,259.4 | 836.7 | 336.4 | 901.8 | 0.00 | 0.00 | 0.00 |
| 3,480.0 | 25.16 | 21.90 | 3,295.6 | 852.5 | 342.8 | 918.8 | 0.00 | 0.00 | 0.00 |
| 3,520.0 | 25.16 | 21.90 | 3,331.8 | 868.3 | 349.1 | 935.9 | 0.00 | 0.00 | 0.00 |
| 3,560.0 | 25.16 | 21.90 | 3,368.0 | 884.1 | 355.5 | 952.9 | 0.00 | 0.00 | 0.00 |
| 3,600.0 | 25.16 | 21.90 | 3,404.2 | 899.9 | 361.8 | 969.9 | 0.00 | 0.00 | 0.00 |
| 3,640.0 | 25.16 | 21.90 | 3,440.4 | 915.6 | 368.2 | 986.9 | 0.00 | 0.00 | 0.00 |
| 3,680.0 | 25.16 | 21.90 | 3,476.6 | 931.4 | 374.5 | 1,003.9 | 0.00 | 0.00 | 0.00 |
| 3,720.0 | 25.16 | 21.90 | 3,512.8 | 947.2 | 380.8 | 1,020.9 | 0.00 | 0.00 | 0.00 |
| 3,760.0 | 25.16 | 21.90 | 3,549.0 | 963.0 | 387.2 | 1,037.9 | 0.00 | 0.00 | 0.00 |
| 3,800.0 | 25.16 | 21.90 | 3,585.2 | 978.7 | 393.5 | 1,054.9 | 0.00 | 0.00 | 0.00 |
| 3,840.0 | 25.16 | 21.90 | 3,621.4 | 994.5 | 399.9 | 1,071.9 | 0.00 | 0.00 | 0.00 |
| 3,880.0 | 25.16 | 21.90 | 3,657.6 | 1,010.3 | 406.2 | 1,088.9 | 0.00 | 0.00 | 0.00 |
| 3,920.0 | 25.16 | 21.90 | 3,693.8 | 1,026.1 | 412.6 | 1,105.9 | 0.00 | 0.00 | 0.00 |
| 3,960.0 | 25.16 | 21.90 | 3,730.0 | 1,041.8 | 418.9 | 1,122.9 | 0.00 | 0.00 | 0.00 |
| 4,000.0 | 25.16 | 21.90 | 3,766.2 | 1,057.6 | 425.2 | 1,139.9 | 0.00 | 0.00 | 0.00 |
| 4,040.0 | 25.16 | 21.90 | 3,802.4 | 1,073.4 | 431.6 | 1,156.9 | 0.00 | 0.00 | 0.00 |
| 4,080.0 | 25.16 | 21.90 | 3,838.6 | 1,089.2 | 437.9 | 1,173.9 | 0.00 | 0.00 | 0.00 |
| 4,120.0 | 25.16 | 21.90 | 3,874.9 | 1,105.0 | 444.3 | 1,190.9 | 0.00 | 0.00 | 0.00 |
| 4,160.0 | 25.16 | 21.90 | 3,911.1 | 1,120.7 | 450.6 | 1,207.9 | 0.00 | 0.00 | 0.00 |

Database: Landmark
Company: NOBLE ENERGY INC WELD COUNTY CO
Project: SEC.10-T4N-R65W
Site: Moser PC G10-24D Pad Sec.10-T4N- R65W
Well: Moser PC G10-21D
Wellbore: Wellbore #1
Design: Noble Moser PC G10-21D Plan #1 (10-04-10)

Local Co-ordinate Reference: Well Moser PC G10-21D
TVD Reference: WELL @ 4710.0ft (Original Well Elev)
MD Reference: WELL @ 4710.0ft (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) |
|---------------------------|--------------------|----------------|---------------------------|---------------|---------------|-----------------------------|-----------------------------|----------------------------|---------------------------|
| 4,200.0 | 25.16 | 21.90 | 3,947.3 | 1,136.5 | 457.0 | 1,224.9 | 0.00 | 0.00 | 0.00 |
| 4,240.0 | 25.16 | 21.90 | 3,983.5 | 1,152.3 | 463.3 | 1,241.9 | 0.00 | 0.00 | 0.00 |
| 4,280.0 | 25.16 | 21.90 | 4,019.7 | 1,168.1 | 469.7 | 1,259.0 | 0.00 | 0.00 | 0.00 |
| 4,320.0 | 25.16 | 21.90 | 4,055.9 | 1,183.8 | 476.0 | 1,276.0 | 0.00 | 0.00 | 0.00 |
| 4,360.0 | 25.16 | 21.90 | 4,092.1 | 1,199.6 | 482.3 | 1,293.0 | 0.00 | 0.00 | 0.00 |
| 4,400.0 | 25.16 | 21.90 | 4,128.3 | 1,215.4 | 488.7 | 1,310.0 | 0.00 | 0.00 | 0.00 |
| 4,440.0 | 25.16 | 21.90 | 4,164.5 | 1,231.2 | 495.0 | 1,327.0 | 0.00 | 0.00 | 0.00 |
| 4,480.0 | 25.16 | 21.90 | 4,200.7 | 1,247.0 | 501.4 | 1,344.0 | 0.00 | 0.00 | 0.00 |
| 4,520.0 | 25.16 | 21.90 | 4,236.9 | 1,262.7 | 507.7 | 1,361.0 | 0.00 | 0.00 | 0.00 |
| 4,560.0 | 25.16 | 21.90 | 4,273.1 | 1,278.5 | 514.1 | 1,378.0 | 0.00 | 0.00 | 0.00 |
| 4,600.0 | 25.16 | 21.90 | 4,309.3 | 1,294.3 | 520.4 | 1,395.0 | 0.00 | 0.00 | 0.00 |
| 4,640.0 | 25.16 | 21.90 | 4,345.5 | 1,310.1 | 526.7 | 1,412.0 | 0.00 | 0.00 | 0.00 |
| 4,680.0 | 25.16 | 21.90 | 4,381.7 | 1,325.8 | 533.1 | 1,429.0 | 0.00 | 0.00 | 0.00 |
| 4,720.0 | 25.16 | 21.90 | 4,417.9 | 1,341.6 | 539.4 | 1,446.0 | 0.00 | 0.00 | 0.00 |
| 4,760.0 | 25.16 | 21.90 | 4,454.1 | 1,357.4 | 545.8 | 1,463.0 | 0.00 | 0.00 | 0.00 |
| 4,800.0 | 25.16 | 21.90 | 4,490.3 | 1,373.2 | 552.1 | 1,480.0 | 0.00 | 0.00 | 0.00 |
| 4,840.0 | 25.16 | 21.90 | 4,526.5 | 1,389.0 | 558.5 | 1,497.0 | 0.00 | 0.00 | 0.00 |
| 4,880.0 | 25.16 | 21.90 | 4,562.8 | 1,404.7 | 564.8 | 1,514.0 | 0.00 | 0.00 | 0.00 |
| 4,920.0 | 25.16 | 21.90 | 4,599.0 | 1,420.5 | 571.2 | 1,531.0 | 0.00 | 0.00 | 0.00 |
| 4,960.0 | 25.16 | 21.90 | 4,635.2 | 1,436.3 | 577.5 | 1,548.0 | 0.00 | 0.00 | 0.00 |
| 5,000.0 | 25.16 | 21.90 | 4,671.4 | 1,452.1 | 583.8 | 1,565.0 | 0.00 | 0.00 | 0.00 |
| 5,040.0 | 25.16 | 21.90 | 4,707.6 | 1,467.8 | 590.2 | 1,582.1 | 0.00 | 0.00 | 0.00 |
| 5,080.0 | 25.16 | 21.90 | 4,743.8 | 1,483.6 | 596.5 | 1,599.1 | 0.00 | 0.00 | 0.00 |
| 5,120.0 | 25.16 | 21.90 | 4,780.0 | 1,499.4 | 602.9 | 1,616.1 | 0.00 | 0.00 | 0.00 |
| 5,160.0 | 25.16 | 21.90 | 4,816.2 | 1,515.2 | 609.2 | 1,633.1 | 0.00 | 0.00 | 0.00 |
| 5,200.0 | 25.16 | 21.90 | 4,852.4 | 1,531.0 | 615.6 | 1,650.1 | 0.00 | 0.00 | 0.00 |
| 5,232.8 | 25.16 | 21.90 | 4,882.1 | 1,543.9 | 620.8 | 1,664.0 | 0.00 | 0.00 | 0.00 |
| 5,240.0 | 25.02 | 21.90 | 4,888.6 | 1,546.7 | 621.9 | 1,667.1 | 2.00 | -2.00 | 0.00 |
| 5,280.0 | 24.22 | 21.90 | 4,925.0 | 1,562.2 | 628.1 | 1,683.7 | 2.00 | -2.00 | 0.00 |
| 5,320.0 | 23.42 | 21.90 | 4,961.6 | 1,577.2 | 634.1 | 1,699.9 | 2.00 | -2.00 | 0.00 |
| 5,360.0 | 22.62 | 21.90 | 4,998.4 | 1,591.7 | 640.0 | 1,715.5 | 2.00 | -2.00 | 0.00 |
| 5,400.0 | 21.82 | 21.90 | 5,035.4 | 1,605.7 | 645.6 | 1,730.6 | 2.00 | -2.00 | 0.00 |
| 5,440.0 | 21.02 | 21.90 | 5,072.6 | 1,619.3 | 651.1 | 1,745.3 | 2.00 | -2.00 | 0.00 |
| 5,480.0 | 20.22 | 21.90 | 5,110.1 | 1,632.3 | 656.3 | 1,759.3 | 2.00 | -2.00 | 0.00 |
| 5,520.0 | 19.42 | 21.90 | 5,147.7 | 1,644.9 | 661.4 | 1,772.9 | 2.00 | -2.00 | 0.00 |
| 5,560.0 | 18.62 | 21.90 | 5,185.5 | 1,657.0 | 666.2 | 1,785.9 | 2.00 | -2.00 | 0.00 |
| 5,600.0 | 17.82 | 21.90 | 5,223.5 | 1,668.6 | 670.9 | 1,798.4 | 2.00 | -2.00 | 0.00 |
| 5,640.0 | 17.02 | 21.90 | 5,261.7 | 1,679.7 | 675.4 | 1,810.4 | 2.00 | -2.00 | 0.00 |
| 5,680.0 | 16.22 | 21.90 | 5,300.0 | 1,690.3 | 679.6 | 1,821.8 | 2.00 | -2.00 | 0.00 |
| 5,720.0 | 15.42 | 21.90 | 5,338.5 | 1,700.4 | 683.7 | 1,832.7 | 2.00 | -2.00 | 0.00 |
| 5,760.0 | 14.62 | 21.90 | 5,377.1 | 1,710.0 | 687.6 | 1,843.1 | 2.00 | -2.00 | 0.00 |
| 5,800.0 | 13.82 | 21.90 | 5,415.9 | 1,719.2 | 691.2 | 1,852.9 | 2.00 | -2.00 | 0.00 |
| 5,840.0 | 13.02 | 21.90 | 5,454.8 | 1,727.8 | 694.7 | 1,862.2 | 2.00 | -2.00 | 0.00 |
| 5,880.0 | 12.22 | 21.90 | 5,493.9 | 1,735.9 | 698.0 | 1,870.9 | 2.00 | -2.00 | 0.00 |
| 5,920.0 | 11.42 | 21.90 | 5,533.0 | 1,743.5 | 701.0 | 1,879.1 | 2.00 | -2.00 | 0.00 |
| 5,960.0 | 10.62 | 21.90 | 5,572.3 | 1,750.6 | 703.9 | 1,886.8 | 2.00 | -2.00 | 0.00 |
| 6,000.0 | 9.82 | 21.90 | 5,611.6 | 1,757.1 | 706.5 | 1,893.9 | 2.00 | -2.00 | 0.00 |
| 6,040.0 | 9.02 | 21.90 | 5,651.1 | 1,763.2 | 709.0 | 1,900.4 | 2.00 | -2.00 | 0.00 |
| 6,080.0 | 8.22 | 21.90 | 5,690.7 | 1,768.8 | 711.2 | 1,906.4 | 2.00 | -2.00 | 0.00 |
| 6,120.0 | 7.42 | 21.90 | 5,730.3 | 1,773.8 | 713.2 | 1,911.8 | 2.00 | -2.00 | 0.00 |
| 6,160.0 | 6.62 | 21.90 | 5,770.0 | 1,778.4 | 715.0 | 1,916.7 | 2.00 | -2.00 | 0.00 |
| 6,200.0 | 5.82 | 21.90 | 5,809.7 | 1,782.4 | 716.7 | 1,921.1 | 2.00 | -2.00 | 0.00 |
| 6,240.0 | 5.02 | 21.90 | 5,849.6 | 1,785.9 | 718.1 | 1,924.8 | 2.00 | -2.00 | 0.00 |
| 6,280.0 | 4.22 | 21.90 | 5,889.4 | 1,788.9 | 719.3 | 1,928.0 | 2.00 | -2.00 | 0.00 |

Database: Landmark
Company: NOBLE ENERGY INC WELD COUNTY CO
Project: SEC.10-T4N-R65W
Site: Moser PC G10-24D Pad Sec.10-T4N- R65W
Well: Moser PC G10-21D
Wellbore: Wellbore #1
Design: Noble Moser PC G10-21D Plan #1 (10-04-10)

Local Co-ordinate Reference: Well Moser PC G10-21D
TVD Reference: WELL @ 4710.0ft (Original Well Elev)
MD Reference: WELL @ 4710.0ft (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) |
|--|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| 6,320.0 | 3.42 | 21.90 | 5,929.3 | 1,791.3 | 720.3 | 1,930.7 | 2.00 | -2.00 | 0.00 |
| 6,360.0 | 2.62 | 21.90 | 5,969.3 | 1,793.3 | 721.0 | 1,932.8 | 2.00 | -2.00 | 0.00 |
| 6,400.0 | 1.82 | 21.90 | 6,009.3 | 1,794.7 | 721.6 | 1,934.4 | 2.00 | -2.00 | 0.00 |
| 6,440.0 | 1.02 | 21.90 | 6,049.2 | 1,795.6 | 722.0 | 1,935.3 | 2.00 | -2.00 | 0.00 |
| 6,480.0 | 0.22 | 21.90 | 6,089.2 | 1,796.0 | 722.1 | 1,935.8 | 2.00 | -2.00 | 0.00 |
| 6,490.8 | 0.00 | 0.00 | 6,100.0 | 1,796.1 | 722.2 | 1,935.8 | 2.00 | -2.00 | -203.68 |
| TARGET BHL 2550'FSL, 2550'FEL | | | | | | | | | |
| 6,520.0 | 0.00 | 0.00 | 6,129.2 | 1,796.1 | 722.2 | 1,935.8 | 0.00 | 0.00 | 0.00 |
| 6,560.0 | 0.00 | 0.00 | 6,169.2 | 1,796.1 | 722.2 | 1,935.8 | 0.00 | 0.00 | 0.00 |
| 6,600.0 | 0.00 | 0.00 | 6,209.2 | 1,796.1 | 722.2 | 1,935.8 | 0.00 | 0.00 | 0.00 |
| 6,640.0 | 0.00 | 0.00 | 6,249.2 | 1,796.1 | 722.2 | 1,935.8 | 0.00 | 0.00 | 0.00 |
| 6,680.0 | 0.00 | 0.00 | 6,289.2 | 1,796.1 | 722.2 | 1,935.8 | 0.00 | 0.00 | 0.00 |
| 6,720.0 | 0.00 | 0.00 | 6,329.2 | 1,796.1 | 722.2 | 1,935.8 | 0.00 | 0.00 | 0.00 |
| 6,760.0 | 0.00 | 0.00 | 6,369.2 | 1,796.1 | 722.2 | 1,935.8 | 0.00 | 0.00 | 0.00 |
| 6,800.0 | 0.00 | 0.00 | 6,409.2 | 1,796.1 | 722.2 | 1,935.8 | 0.00 | 0.00 | 0.00 |
| 6,840.0 | 0.00 | 0.00 | 6,449.2 | 1,796.1 | 722.2 | 1,935.8 | 0.00 | 0.00 | 0.00 |
| 6,880.0 | 0.00 | 0.00 | 6,489.2 | 1,796.1 | 722.2 | 1,935.8 | 0.00 | 0.00 | 0.00 |
| 6,920.0 | 0.00 | 0.00 | 6,529.2 | 1,796.1 | 722.2 | 1,935.8 | 0.00 | 0.00 | 0.00 |
| 6,960.0 | 0.00 | 0.00 | 6,569.2 | 1,796.1 | 722.2 | 1,935.8 | 0.00 | 0.00 | 0.00 |
| 7,000.0 | 0.00 | 0.00 | 6,609.2 | 1,796.1 | 722.2 | 1,935.8 | 0.00 | 0.00 | 0.00 |
| 7,040.0 | 0.00 | 0.00 | 6,649.2 | 1,796.1 | 722.2 | 1,935.8 | 0.00 | 0.00 | 0.00 |
| 7,080.0 | 0.00 | 0.00 | 6,689.2 | 1,796.1 | 722.2 | 1,935.8 | 0.00 | 0.00 | 0.00 |
| 7,120.0 | 0.00 | 0.00 | 6,729.2 | 1,796.1 | 722.2 | 1,935.8 | 0.00 | 0.00 | 0.00 |
| 7,140.8 | 0.00 | 0.00 | 6,750.0 | 1,796.1 | 722.2 | 1,935.8 | 0.00 | 0.00 | 0.00 |
| NIOBRARA - TARGET CIRCLE 2550'FSL, 2550'FEL | | | | | | | | | |
| 7,160.0 | 0.00 | 0.00 | 6,769.2 | 1,796.1 | 722.2 | 1,935.8 | 0.00 | 0.00 | 0.00 |
| 7,200.0 | 0.00 | 0.00 | 6,809.2 | 1,796.1 | 722.2 | 1,935.8 | 0.00 | 0.00 | 0.00 |
| 7,240.0 | 0.00 | 0.00 | 6,849.2 | 1,796.1 | 722.2 | 1,935.8 | 0.00 | 0.00 | 0.00 |
| 7,280.0 | 0.00 | 0.00 | 6,889.2 | 1,796.1 | 722.2 | 1,935.8 | 0.00 | 0.00 | 0.00 |
| 7,320.0 | 0.00 | 0.00 | 6,929.2 | 1,796.1 | 722.2 | 1,935.8 | 0.00 | 0.00 | 0.00 |
| 7,360.0 | 0.00 | 0.00 | 6,969.2 | 1,796.1 | 722.2 | 1,935.8 | 0.00 | 0.00 | 0.00 |
| 7,400.0 | 0.00 | 0.00 | 7,009.2 | 1,796.1 | 722.2 | 1,935.8 | 0.00 | 0.00 | 0.00 |
| 7,440.0 | 0.00 | 0.00 | 7,049.2 | 1,796.1 | 722.2 | 1,935.8 | 0.00 | 0.00 | 0.00 |
| 7,460.8 | 0.00 | 0.00 | 7,070.0 | 1,796.1 | 722.2 | 1,935.8 | 0.00 | 0.00 | 0.00 |
| CODELL | | | | | | | | | |
| 7,480.0 | 0.00 | 0.00 | 7,089.2 | 1,796.1 | 722.2 | 1,935.8 | 0.00 | 0.00 | 0.00 |
| 7,520.0 | 0.00 | 0.00 | 7,129.2 | 1,796.1 | 722.2 | 1,935.8 | 0.00 | 0.00 | 0.00 |
| 7,560.0 | 0.00 | 0.00 | 7,169.2 | 1,796.1 | 722.2 | 1,935.8 | 0.00 | 0.00 | 0.00 |
| 7,600.0 | 0.00 | 0.00 | 7,209.2 | 1,796.1 | 722.2 | 1,935.8 | 0.00 | 0.00 | 0.00 |
| 7,610.8 | 0.00 | 0.00 | 7,220.0 | 1,796.1 | 722.2 | 1,935.8 | 0.00 | 0.00 | 0.00 |
| HARD LINES 89°N, 91°W of BHL | | | | | | | | | |

Database: Landmark
Company: NOBLE ENERGY INC WELD COUNTY CO
Project: SEC.10-T4N-R65W
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Well: Moser PC G10-21D
Wellbore: Wellbore #1
Design: Noble Moser PC G10-21D Plan #1 (10-04-10)

Local Co-ordinate Reference: Well Moser PC G10-21D
TVD Reference: WELL @ 4710.0ft (Original Well Elev)
MD Reference: WELL @ 4710.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

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 |
|---|------------------|-----------------|-------------|---------------|---------------|------------------|-----------------|------------------|-------------------|
| TARGET CIRCLE 25ft - plan hits target - Circle (radius 75.0) | 0.00 | 0.00 | 6,750.0 | 1,796.1 | 722.2 | 1,363,007.39 | 3,237,298.29 | 40° 19' 36.228 N | 104° 38' 55.968 W |
| HARD LINES 89°N, 9' - plan misses by 127.3ft at 7610.8ft MD (7220.0 TVD, 1796.1 N, 722.2 E) - Polygon | 0.00 | 0.00 | 7,220.0 | 1,885.1 | 631.2 | 1,363,095.56 | 3,237,206.49 | 40° 19' 37.108 N | 104° 38' 57.142 W |
| Point 1 | | | 7,220.0 | 0.0 | 0.0 | 1,363,095.56 | 3,237,206.49 | | |
| Point 2 | | | 7,220.0 | -200.0 | 0.0 | 1,362,895.58 | 3,237,208.40 | | |
| Point 3 | | | 7,220.0 | 0.0 | 0.0 | 1,363,095.56 | 3,237,206.49 | | |
| Point 4 | | | 7,220.0 | 0.0 | 200.0 | 1,363,097.47 | 3,237,406.47 | | |
| TARGET BHL 2550°F - plan hits target - Point | 0.00 | 0.00 | 6,100.0 | 1,796.1 | 722.2 | 1,363,007.39 | 3,237,298.29 | 40° 19' 36.228 N | 104° 38' 55.968 W |

Casing Points

| Measured Depth (ft) | Vertical Depth (ft) | Name | Casing Diameter (") | Hole Diameter (") |
|---------------------------|---------------------------|--------|---------------------------|-------------------------|
| 600.0 | 600.0 | 8 5/8" | 8-5/8 | 12-1/4 |

Formations

| Measured Depth (ft) | Vertical Depth (ft) | Name | Lithology | Dip (°) | Dip Direction (°) |
|---------------------------|---------------------------|----------|-----------|------------|-------------------------|
| 7,140.8 | 6,750.0 | NIOBRARA | | 0.00 | |
| 7,460.8 | 7,070.0 | CODELL | | 0.00 | |