

US ROCKIES REGION PLANNING

COLORADO NORTHERN ZONE - 83

WELD_GOBBLER 1N-23HZ

GOBBLER 1N-23HZ

GOBBLER 1N-23HZ

Plan: GOBBLER 1N-23HZ (wp01)

Standard Planning Report

31 May, 2011

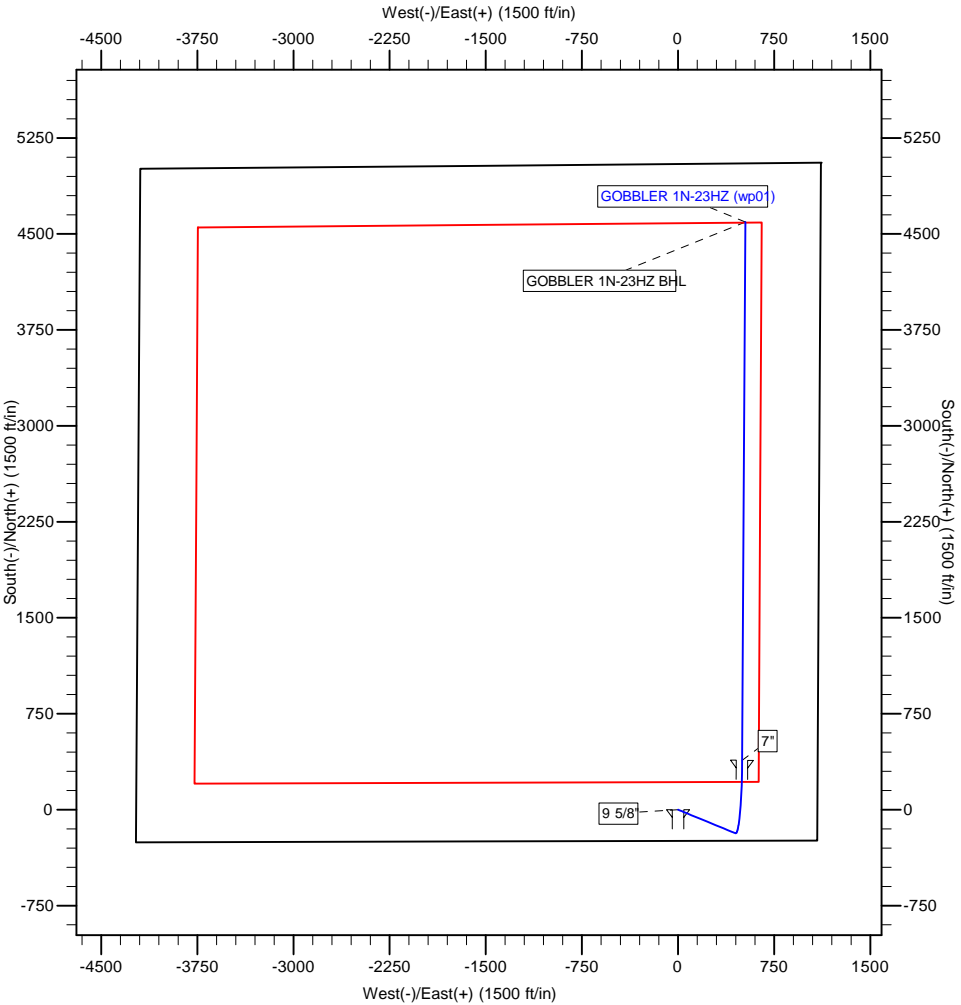


Weatherford®



Azimuths to True North
 Magnetic North: 8.83°
 Magnetic Field
 Strength: 52987.5snT
 Dip Angle: 66.83°
 Date: 5/31/2011
 Model: IGRF2010

Project: COLORADO NORTHERN ZONE - 83
 Site: WELD_GOBBLER 1N-23HZ
 Well: GOBBLER 1N-23HZ
 Wellbore: GOBBLER 1N-23HZ
 Section:
 SHL:
 Design: GOBBLER 1N-23HZ (wp01)
 Latitude: 40.117150
 Longitude: -104.738906
 GL: 5086.00
 KB: 17' KB + 5086' GL @ 5103.00ft



WELL DETAILS: GOBBLER 1N-23HZ

| +N/-S | +E/-W | Northing | Ground Level: Easting | 5086.00 Latitude | Longitude | Slot |
|-------|-------|------------|-----------------------|---------------------|-------------|------|
| 0.00 | 0.00 | 1286435.24 | 3212854.33 | 40.117150 | -104.738906 | |

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)

| Name | TVD | +N/-S | +E/-W | Latitude | Longitude | Shape |
|---------------------|---------|---------|--------|-----------|-------------|-------|
| GOBBLER 1N-23HZ BHL | 7310.00 | 4593.58 | 524.57 | 40.129760 | -104.737030 | Point |

SECTION DETAILS

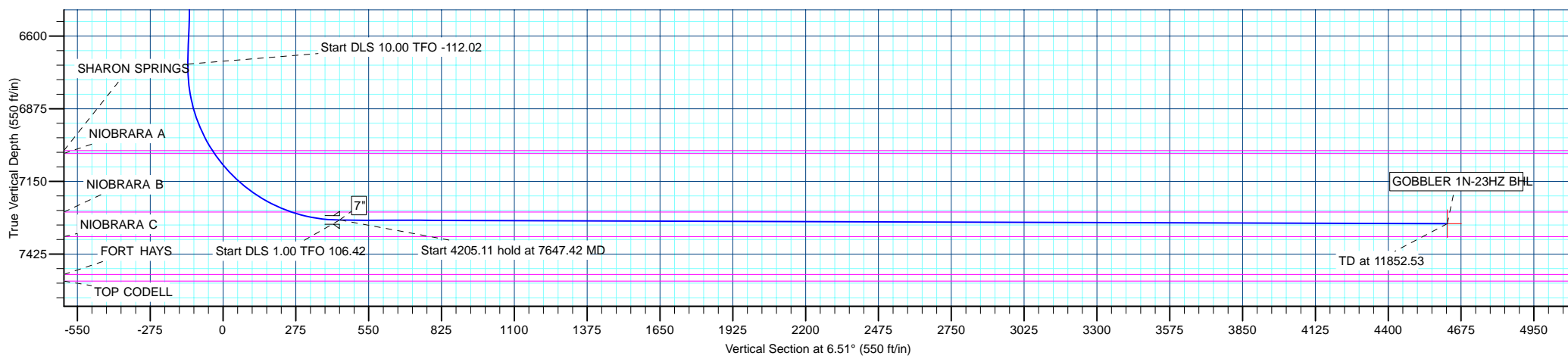
| MD | Inc | Azi | TVD | +N/-S | +E/-W | Dleg | TFace | Vsect | Target |
|----------|-------|--------|---------|---------|--------|-------|---------|---------|---------------------|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1200.00 | 0.00 | 0.00 | 1200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1457.35 | 5.15 | 112.40 | 1457.01 | -4.40 | 10.68 | 2.00 | 112.40 | -3.16 | |
| 6727.35 | 5.15 | 112.40 | 6705.76 | -184.53 | 447.81 | 0.00 | 0.00 | -132.53 | |
| 7644.86 | 89.82 | 0.31 | 7296.00 | 386.00 | 500.00 | 10.00 | -112.02 | 440.24 | |
| 7647.42 | 89.81 | 0.33 | 7296.01 | 388.56 | 500.01 | 1.00 | 106.42 | 442.78 | |
| 11852.53 | 89.81 | 0.33 | 7310.00 | 4593.58 | 524.57 | 0.00 | 0.00 | 4623.43 | GOBBLER 1N-23HZ BHL |

FORMATION TOP DETAILS

| TVDPath | MDPath | Formation |
|---------|---------|----------------|
| 2972.00 | 2978.48 | PARKMAN |
| 5017.00 | 5031.76 | SUSSEX |
| 7033.00 | 7073.11 | SHARON SPRINGS |
| 7044.00 | 7086.32 | NIOBRARA A |
| 7266.00 | 7460.13 | NIOBRARA B |

CASING DETAILS

| TVD | MD | Name | Size |
|---------|---------|--------|-------|
| 1050.00 | 1050.00 | 9 5/8" | 9-5/8 |
| 7296.00 | 7644.86 | 7" | 7 |



| | | | |
|------------------|-----------------------------|-------------------------------------|-------------------------------|
| Database: | edm5000p | Local Co-ordinate Reference: | Well GOBBLER 1N-23HZ |
| Company: | US ROCKIES REGION PLANNING | TVD Reference: | 17' KB + 5086' GL @ 5103.00ft |
| Project: | COLORADO NORTHERN ZONE - 83 | MD Reference: | 17' KB + 5086' GL @ 5103.00ft |
| Site: | WELD_GOBBLER 1N-23HZ | North Reference: | True |
| Well: | GOBBLER 1N-23HZ | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | GOBBLER 1N-23HZ | | |
| Design: | GOBBLER 1N-23HZ (wp01) | | |

| | | | |
|--------------------|-----------------------------|----------------------|----------------|
| Project | COLORADO NORTHERN ZONE - 83 | | |
| Map System: | US State Plane 1983 | System Datum: | Mean Sea Level |
| Geo Datum: | North American Datum 1983 | | |
| Map Zone: | Colorado Northern Zone | | |

| | | | | | |
|------------------------------|----------------------|---------------------|-----------------|--------------------------|-------------|
| Site | WELD_GOBBLER 1N-23HZ | | | | |
| Site Position: | | Northing: | 1,286,435.25 ft | Latitude: | 40.117150 |
| From: | Lat/Long | Easting: | 3,212,854.33 ft | Longitude: | -104.738906 |
| Position Uncertainty: | 0.00 ft | Slot Radius: | 0 " | Grid Convergence: | 0.49 ° |

| | | | | | | |
|-----------------------------|-----------------|----------|----------------------------|-----------------|----------------------|-------------|
| Well | GOBBLER 1N-23HZ | | | | | |
| Well Position | +N-S | -0.01 ft | Northing: | 1,286,435.24 ft | Latitude: | 40.117150 |
| | +E-W | 0.00 ft | Easting: | 3,212,854.33 ft | Longitude: | -104.738906 |
| Position Uncertainty | | 0.00 ft | Wellhead Elevation: | | Ground Level: | 5,086.00 ft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | GOBBLER 1N-23HZ | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2010 | 5/31/2011 | 8.83 | 66.83 | 52,988 |

| | | | | |
|--------------------------|------------------------------|------------------|----------------------|----------------------|
| Design | GOBBLER 1N-23HZ (wp01) | | | |
| Audit Notes: | | | | |
| Version: | Phase: | PLAN | Tie On Depth: | 0.00 |
| Vertical Section: | Depth From (TVD) (ft) | +N-S (ft) | +E-W (ft) | Direction (°) |
| | 0.00 | 0.00 | 0.00 | 6.51 |

| 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 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,200.00 | 0.00 | 0.00 | 1,200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,457.35 | 5.15 | 112.40 | 1,457.01 | -4.40 | 10.68 | 2.00 | 2.00 | 0.00 | 112.40 | |
| 6,727.35 | 5.15 | 112.40 | 6,705.76 | -184.53 | 447.81 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 7,644.86 | 89.82 | 0.31 | 7,296.00 | 386.00 | 500.00 | 10.00 | 9.23 | -12.22 | -112.02 | |
| 7,647.42 | 89.81 | 0.33 | 7,296.01 | 388.56 | 500.01 | 1.00 | -0.28 | 0.96 | 106.42 | |
| 11,852.53 | 89.81 | 0.33 | 7,310.00 | 4,593.58 | 524.57 | 0.00 | 0.00 | 0.00 | 0.00 | GOBBLER 1N-23H. |

| | | | |
|------------------|-----------------------------|-------------------------------------|-------------------------------|
| Database: | edm5000p | Local Co-ordinate Reference: | Well GOBBLER 1N-23HZ |
| Company: | US ROCKIES REGION PLANNING | TVD Reference: | 17' KB + 5086' GL @ 5103.00ft |
| Project: | COLORADO NORTHERN ZONE - 83 | MD Reference: | 17' KB + 5086' GL @ 5103.00ft |
| Site: | WELD_GOBBLER 1N-23HZ | North Reference: | True |
| Well: | GOBBLER 1N-23HZ | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | GOBBLER 1N-23HZ | | |
| Design: | GOBBLER 1N-23HZ (wp01) | | |

| 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) |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 100.00 | 0.00 | 0.00 | 100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 200.00 | 0.00 | 0.00 | 200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 300.00 | 0.00 | 0.00 | 300.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 400.00 | 0.00 | 0.00 | 400.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 500.00 | 0.00 | 0.00 | 500.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 600.00 | 0.00 | 0.00 | 600.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 700.00 | 0.00 | 0.00 | 700.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 800.00 | 0.00 | 0.00 | 800.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 900.00 | 0.00 | 0.00 | 900.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,000.00 | 0.00 | 0.00 | 1,000.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,050.00 | 0.00 | 0.00 | 1,050.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 9 5/8" | | | | | | | | | |
| 1,100.00 | 0.00 | 0.00 | 1,100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,200.00 | 0.00 | 0.00 | 1,200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Start Build 2.00 | | | | | | | | | |
| 1,300.00 | 2.00 | 112.40 | 1,299.98 | -0.66 | 1.61 | -0.48 | 2.00 | 2.00 | 0.00 |
| 1,400.00 | 4.00 | 112.40 | 1,399.84 | -2.66 | 6.45 | -1.91 | 2.00 | 2.00 | 0.00 |
| 1,457.35 | 5.15 | 112.40 | 1,457.01 | -4.40 | 10.68 | -3.16 | 2.00 | 2.00 | 0.00 |
| Start 5270.00 hold at 1457.35 MD | | | | | | | | | |
| 1,500.00 | 5.15 | 112.40 | 1,499.48 | -5.86 | 14.22 | -4.21 | 0.00 | 0.00 | 0.00 |
| 1,600.00 | 5.15 | 112.40 | 1,599.08 | -9.28 | 22.51 | -6.66 | 0.00 | 0.00 | 0.00 |
| 1,700.00 | 5.15 | 112.40 | 1,698.68 | -12.69 | 30.81 | -9.12 | 0.00 | 0.00 | 0.00 |
| 1,800.00 | 5.15 | 112.40 | 1,798.27 | -16.11 | 39.10 | -11.57 | 0.00 | 0.00 | 0.00 |
| 1,900.00 | 5.15 | 112.40 | 1,897.87 | -19.53 | 47.40 | -14.03 | 0.00 | 0.00 | 0.00 |
| 2,000.00 | 5.15 | 112.40 | 1,997.47 | -22.95 | 55.69 | -16.48 | 0.00 | 0.00 | 0.00 |
| 2,100.00 | 5.15 | 112.40 | 2,097.06 | -26.37 | 63.99 | -18.94 | 0.00 | 0.00 | 0.00 |
| 2,200.00 | 5.15 | 112.40 | 2,196.66 | -29.78 | 72.28 | -21.39 | 0.00 | 0.00 | 0.00 |
| 2,300.00 | 5.15 | 112.40 | 2,296.26 | -33.20 | 80.57 | -23.85 | 0.00 | 0.00 | 0.00 |
| 2,400.00 | 5.15 | 112.40 | 2,395.85 | -36.62 | 88.87 | -26.30 | 0.00 | 0.00 | 0.00 |
| 2,500.00 | 5.15 | 112.40 | 2,495.45 | -40.04 | 97.16 | -28.76 | 0.00 | 0.00 | 0.00 |
| 2,600.00 | 5.15 | 112.40 | 2,595.05 | -43.46 | 105.46 | -31.21 | 0.00 | 0.00 | 0.00 |
| 2,700.00 | 5.15 | 112.40 | 2,694.64 | -46.87 | 113.75 | -33.67 | 0.00 | 0.00 | 0.00 |
| 2,800.00 | 5.15 | 112.40 | 2,794.24 | -50.29 | 122.05 | -36.12 | 0.00 | 0.00 | 0.00 |
| 2,900.00 | 5.15 | 112.40 | 2,893.84 | -53.71 | 130.34 | -38.58 | 0.00 | 0.00 | 0.00 |
| 2,978.48 | 5.15 | 112.40 | 2,972.00 | -56.39 | 136.85 | -40.50 | 0.00 | 0.00 | 0.00 |
| PARKMAN | | | | | | | | | |
| 3,000.00 | 5.15 | 112.40 | 2,993.43 | -57.13 | 138.64 | -41.03 | 0.00 | 0.00 | 0.00 |
| 3,100.00 | 5.15 | 112.40 | 3,093.03 | -60.55 | 146.93 | -43.49 | 0.00 | 0.00 | 0.00 |
| 3,200.00 | 5.15 | 112.40 | 3,192.63 | -63.96 | 155.23 | -45.94 | 0.00 | 0.00 | 0.00 |
| 3,300.00 | 5.15 | 112.40 | 3,292.22 | -67.38 | 163.52 | -48.40 | 0.00 | 0.00 | 0.00 |
| 3,400.00 | 5.15 | 112.40 | 3,391.82 | -70.80 | 171.81 | -50.85 | 0.00 | 0.00 | 0.00 |
| 3,500.00 | 5.15 | 112.40 | 3,491.42 | -74.22 | 180.11 | -53.30 | 0.00 | 0.00 | 0.00 |
| 3,600.00 | 5.15 | 112.40 | 3,591.01 | -77.64 | 188.40 | -55.76 | 0.00 | 0.00 | 0.00 |
| 3,700.00 | 5.15 | 112.40 | 3,690.61 | -81.05 | 196.70 | -58.21 | 0.00 | 0.00 | 0.00 |
| 3,800.00 | 5.15 | 112.40 | 3,790.21 | -84.47 | 204.99 | -60.67 | 0.00 | 0.00 | 0.00 |
| 3,900.00 | 5.15 | 112.40 | 3,889.80 | -87.89 | 213.29 | -63.12 | 0.00 | 0.00 | 0.00 |
| 4,000.00 | 5.15 | 112.40 | 3,989.40 | -91.31 | 221.58 | -65.58 | 0.00 | 0.00 | 0.00 |
| 4,100.00 | 5.15 | 112.40 | 4,089.00 | -94.73 | 229.88 | -68.03 | 0.00 | 0.00 | 0.00 |
| 4,200.00 | 5.15 | 112.40 | 4,188.59 | -98.14 | 238.17 | -70.49 | 0.00 | 0.00 | 0.00 |
| 4,300.00 | 5.15 | 112.40 | 4,288.19 | -101.56 | 246.47 | -72.94 | 0.00 | 0.00 | 0.00 |
| 4,400.00 | 5.15 | 112.40 | 4,387.79 | -104.98 | 254.76 | -75.40 | 0.00 | 0.00 | 0.00 |
| 4,500.00 | 5.15 | 112.40 | 4,487.39 | -108.40 | 263.06 | -77.85 | 0.00 | 0.00 | 0.00 |
| 4,600.00 | 5.15 | 112.40 | 4,586.98 | -111.82 | 271.35 | -80.31 | 0.00 | 0.00 | 0.00 |

| | | | |
|------------------|-----------------------------|-------------------------------------|-------------------------------|
| Database: | edm5000p | Local Co-ordinate Reference: | Well GOBBLER 1N-23HZ |
| Company: | US ROCKIES REGION PLANNING | TVD Reference: | 17' KB + 5086' GL @ 5103.00ft |
| Project: | COLORADO NORTHERN ZONE - 83 | MD Reference: | 17' KB + 5086' GL @ 5103.00ft |
| Site: | WELD_GOBBLER 1N-23HZ | North Reference: | True |
| Well: | GOBBLER 1N-23HZ | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | GOBBLER 1N-23HZ | | |
| Design: | GOBBLER 1N-23HZ (wp01) | | |

| 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) |
| 4,700.00 | 5.15 | 112.40 | 4,686.58 | -115.23 | 279.64 | -82.76 | 0.00 | 0.00 | 0.00 |
| 4,800.00 | 5.15 | 112.40 | 4,786.18 | -118.65 | 287.94 | -85.22 | 0.00 | 0.00 | 0.00 |
| 4,900.00 | 5.15 | 112.40 | 4,885.77 | -122.07 | 296.23 | -87.67 | 0.00 | 0.00 | 0.00 |
| 5,000.00 | 5.15 | 112.40 | 4,985.37 | -125.49 | 304.53 | -90.13 | 0.00 | 0.00 | 0.00 |
| 5,031.76 | 5.15 | 112.40 | 5,017.00 | -126.57 | 307.16 | -90.91 | 0.00 | 0.00 | 0.00 |
| SUSSEX | | | | | | | | | |
| 5,100.00 | 5.15 | 112.40 | 5,084.97 | -128.91 | 312.82 | -92.58 | 0.00 | 0.00 | 0.00 |
| 5,200.00 | 5.15 | 112.40 | 5,184.56 | -132.32 | 321.12 | -95.04 | 0.00 | 0.00 | 0.00 |
| 5,300.00 | 5.15 | 112.40 | 5,284.16 | -135.74 | 329.41 | -97.49 | 0.00 | 0.00 | 0.00 |
| 5,400.00 | 5.15 | 112.40 | 5,383.76 | -139.16 | 337.71 | -99.95 | 0.00 | 0.00 | 0.00 |
| 5,500.00 | 5.15 | 112.40 | 5,483.35 | -142.58 | 346.00 | -102.40 | 0.00 | 0.00 | 0.00 |
| 5,600.00 | 5.15 | 112.40 | 5,582.95 | -146.00 | 354.30 | -104.86 | 0.00 | 0.00 | 0.00 |
| 5,700.00 | 5.15 | 112.40 | 5,682.55 | -149.42 | 362.59 | -107.31 | 0.00 | 0.00 | 0.00 |
| 5,800.00 | 5.15 | 112.40 | 5,782.14 | -152.83 | 370.88 | -109.77 | 0.00 | 0.00 | 0.00 |
| 5,900.00 | 5.15 | 112.40 | 5,881.74 | -156.25 | 379.18 | -112.22 | 0.00 | 0.00 | 0.00 |
| 6,000.00 | 5.15 | 112.40 | 5,981.34 | -159.67 | 387.47 | -114.68 | 0.00 | 0.00 | 0.00 |
| 6,100.00 | 5.15 | 112.40 | 6,080.93 | -163.09 | 395.77 | -117.13 | 0.00 | 0.00 | 0.00 |
| 6,200.00 | 5.15 | 112.40 | 6,180.53 | -166.51 | 404.06 | -119.59 | 0.00 | 0.00 | 0.00 |
| 6,300.00 | 5.15 | 112.40 | 6,280.13 | -169.92 | 412.36 | -122.04 | 0.00 | 0.00 | 0.00 |
| 6,400.00 | 5.15 | 112.40 | 6,379.72 | -173.34 | 420.65 | -124.50 | 0.00 | 0.00 | 0.00 |
| 6,500.00 | 5.15 | 112.40 | 6,479.32 | -176.76 | 428.95 | -126.95 | 0.00 | 0.00 | 0.00 |
| 6,600.00 | 5.15 | 112.40 | 6,578.92 | -180.18 | 437.24 | -129.40 | 0.00 | 0.00 | 0.00 |
| 6,700.00 | 5.15 | 112.40 | 6,678.51 | -183.60 | 445.54 | -131.86 | 0.00 | 0.00 | 0.00 |
| 6,727.35 | 5.15 | 112.40 | 6,705.76 | -184.53 | 447.81 | -132.53 | 0.00 | 0.00 | 0.00 |
| Start DLS 10.00 TFO -112.02 | | | | | | | | | |
| 6,800.00 | 7.15 | 42.01 | 6,778.07 | -182.41 | 453.85 | -129.74 | 10.00 | 2.76 | -96.89 |
| 6,900.00 | 16.04 | 17.17 | 6,875.99 | -164.54 | 462.11 | -111.05 | 10.00 | 8.89 | -24.84 |
| 7,000.00 | 25.75 | 10.26 | 6,969.31 | -129.88 | 470.08 | -75.71 | 10.00 | 9.71 | -6.91 |
| 7,073.11 | 32.95 | 7.69 | 7,033.00 | -94.51 | 475.58 | -39.94 | 10.00 | 9.85 | -3.51 |
| SHARON SPRINGS | | | | | | | | | |
| 7,086.32 | 34.26 | 7.33 | 7,044.00 | -87.26 | 476.53 | -32.63 | 10.00 | 9.89 | -2.72 |
| NIORARA A | | | | | | | | | |
| 7,100.00 | 35.61 | 6.99 | 7,055.22 | -79.49 | 477.51 | -24.80 | 10.00 | 9.89 | -2.54 |
| 7,200.00 | 45.53 | 4.99 | 7,131.09 | -14.88 | 484.17 | 40.15 | 10.00 | 9.92 | -1.99 |
| 7,300.00 | 55.47 | 3.59 | 7,194.62 | 61.96 | 489.87 | 117.14 | 10.00 | 9.94 | -1.41 |
| 7,400.00 | 65.42 | 2.48 | 7,243.89 | 148.72 | 494.43 | 203.86 | 10.00 | 9.95 | -1.10 |
| 7,460.13 | 71.41 | 1.90 | 7,266.00 | 204.57 | 496.56 | 259.59 | 10.00 | 9.96 | -0.96 |
| NIORARA B | | | | | | | | | |
| 7,500.00 | 75.38 | 1.54 | 7,277.39 | 242.75 | 497.71 | 297.65 | 10.00 | 9.96 | -0.91 |
| 7,600.00 | 85.35 | 0.68 | 7,294.11 | 341.20 | 499.61 | 395.68 | 10.00 | 9.96 | -0.86 |
| 7,644.86 | 89.82 | 0.31 | 7,296.00 | 386.00 | 500.00 | 440.24 | 10.00 | 9.96 | -0.83 |
| Start DLS 1.00 TFO 106.42 - 7" | | | | | | | | | |
| 7,647.42 | 89.81 | 0.33 | 7,296.01 | 388.56 | 500.01 | 442.78 | 1.00 | -0.28 | 0.96 |
| Start 4205.11 hold at 7647.42 MD | | | | | | | | | |
| 7,700.00 | 89.81 | 0.33 | 7,296.18 | 441.14 | 500.32 | 495.06 | 0.00 | 0.00 | 0.00 |
| 7,800.00 | 89.81 | 0.33 | 7,296.52 | 541.14 | 500.91 | 594.48 | 0.00 | 0.00 | 0.00 |
| 7,900.00 | 89.81 | 0.33 | 7,296.85 | 641.14 | 501.49 | 693.90 | 0.00 | 0.00 | 0.00 |
| 8,000.00 | 89.81 | 0.33 | 7,297.18 | 741.14 | 502.07 | 793.31 | 0.00 | 0.00 | 0.00 |
| 8,100.00 | 89.81 | 0.33 | 7,297.51 | 841.13 | 502.66 | 892.73 | 0.00 | 0.00 | 0.00 |
| 8,200.00 | 89.81 | 0.33 | 7,297.85 | 941.13 | 503.24 | 992.15 | 0.00 | 0.00 | 0.00 |
| 8,300.00 | 89.81 | 0.33 | 7,298.18 | 1,041.13 | 503.82 | 1,091.57 | 0.00 | 0.00 | 0.00 |
| 8,400.00 | 89.81 | 0.33 | 7,298.51 | 1,141.13 | 504.41 | 1,190.99 | 0.00 | 0.00 | 0.00 |
| 8,500.00 | 89.81 | 0.33 | 7,298.85 | 1,241.12 | 504.99 | 1,290.41 | 0.00 | 0.00 | 0.00 |

| | | | |
|------------------|-----------------------------|-------------------------------------|-------------------------------|
| Database: | edm5000p | Local Co-ordinate Reference: | Well GOBBLER 1N-23HZ |
| Company: | US ROCKIES REGION PLANNING | TVD Reference: | 17' KB + 5086' GL @ 5103.00ft |
| Project: | COLORADO NORTHERN ZONE - 83 | MD Reference: | 17' KB + 5086' GL @ 5103.00ft |
| Site: | WELD_GOBBLER 1N-23HZ | North Reference: | True |
| Well: | GOBBLER 1N-23HZ | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | GOBBLER 1N-23HZ | | |
| Design: | GOBBLER 1N-23HZ (wp01) | | |

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) |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| 8,600.00 | 89.81 | 0.33 | 7,299.18 | 1,341.12 | 505.58 | 1,389.82 | 0.00 | 0.00 | 0.00 |
| 8,700.00 | 89.81 | 0.33 | 7,299.51 | 1,441.12 | 506.16 | 1,489.24 | 0.00 | 0.00 | 0.00 |
| 8,800.00 | 89.81 | 0.33 | 7,299.84 | 1,541.12 | 506.74 | 1,588.66 | 0.00 | 0.00 | 0.00 |
| 8,900.00 | 89.81 | 0.33 | 7,300.18 | 1,641.12 | 507.33 | 1,688.08 | 0.00 | 0.00 | 0.00 |
| 9,000.00 | 89.81 | 0.33 | 7,300.51 | 1,741.11 | 507.91 | 1,787.50 | 0.00 | 0.00 | 0.00 |
| 9,100.00 | 89.81 | 0.33 | 7,300.84 | 1,841.11 | 508.50 | 1,886.92 | 0.00 | 0.00 | 0.00 |
| 9,200.00 | 89.81 | 0.33 | 7,301.17 | 1,941.11 | 509.08 | 1,986.33 | 0.00 | 0.00 | 0.00 |
| 9,300.00 | 89.81 | 0.33 | 7,301.51 | 2,041.11 | 509.66 | 2,085.75 | 0.00 | 0.00 | 0.00 |
| 9,400.00 | 89.81 | 0.33 | 7,301.84 | 2,141.10 | 510.25 | 2,185.17 | 0.00 | 0.00 | 0.00 |
| 9,500.00 | 89.81 | 0.33 | 7,302.17 | 2,241.10 | 510.83 | 2,284.59 | 0.00 | 0.00 | 0.00 |
| 9,600.00 | 89.81 | 0.33 | 7,302.51 | 2,341.10 | 511.42 | 2,384.01 | 0.00 | 0.00 | 0.00 |
| 9,700.00 | 89.81 | 0.33 | 7,302.84 | 2,441.10 | 512.00 | 2,483.43 | 0.00 | 0.00 | 0.00 |
| 9,800.00 | 89.81 | 0.33 | 7,303.17 | 2,541.09 | 512.58 | 2,582.84 | 0.00 | 0.00 | 0.00 |
| 9,900.00 | 89.81 | 0.33 | 7,303.50 | 2,641.09 | 513.17 | 2,682.26 | 0.00 | 0.00 | 0.00 |
| 10,000.00 | 89.81 | 0.33 | 7,303.84 | 2,741.09 | 513.75 | 2,781.68 | 0.00 | 0.00 | 0.00 |
| 10,100.00 | 89.81 | 0.33 | 7,304.17 | 2,841.09 | 514.34 | 2,881.10 | 0.00 | 0.00 | 0.00 |
| 10,200.00 | 89.81 | 0.33 | 7,304.50 | 2,941.09 | 514.92 | 2,980.52 | 0.00 | 0.00 | 0.00 |
| 10,300.00 | 89.81 | 0.33 | 7,304.83 | 3,041.08 | 515.50 | 3,079.93 | 0.00 | 0.00 | 0.00 |
| 10,400.00 | 89.81 | 0.33 | 7,305.17 | 3,141.08 | 516.09 | 3,179.35 | 0.00 | 0.00 | 0.00 |
| 10,500.00 | 89.81 | 0.33 | 7,305.50 | 3,241.08 | 516.67 | 3,278.77 | 0.00 | 0.00 | 0.00 |
| 10,600.00 | 89.81 | 0.33 | 7,305.83 | 3,341.08 | 517.25 | 3,378.19 | 0.00 | 0.00 | 0.00 |
| 10,700.00 | 89.81 | 0.33 | 7,306.17 | 3,441.07 | 517.84 | 3,477.61 | 0.00 | 0.00 | 0.00 |
| 10,800.00 | 89.81 | 0.33 | 7,306.50 | 3,541.07 | 518.42 | 3,577.03 | 0.00 | 0.00 | 0.00 |
| 10,900.00 | 89.81 | 0.33 | 7,306.83 | 3,641.07 | 519.01 | 3,676.44 | 0.00 | 0.00 | 0.00 |
| 11,000.00 | 89.81 | 0.33 | 7,307.16 | 3,741.07 | 519.59 | 3,775.86 | 0.00 | 0.00 | 0.00 |
| 11,100.00 | 89.81 | 0.33 | 7,307.50 | 3,841.07 | 520.17 | 3,875.28 | 0.00 | 0.00 | 0.00 |
| 11,200.00 | 89.81 | 0.33 | 7,307.83 | 3,941.06 | 520.76 | 3,974.70 | 0.00 | 0.00 | 0.00 |
| 11,300.00 | 89.81 | 0.33 | 7,308.16 | 4,041.06 | 521.34 | 4,074.12 | 0.00 | 0.00 | 0.00 |
| 11,400.00 | 89.81 | 0.33 | 7,308.49 | 4,141.06 | 521.93 | 4,173.54 | 0.00 | 0.00 | 0.00 |
| 11,500.00 | 89.81 | 0.33 | 7,308.83 | 4,241.06 | 522.51 | 4,272.95 | 0.00 | 0.00 | 0.00 |
| 11,600.00 | 89.81 | 0.33 | 7,309.16 | 4,341.05 | 523.09 | 4,372.37 | 0.00 | 0.00 | 0.00 |
| 11,700.00 | 89.81 | 0.33 | 7,309.49 | 4,441.05 | 523.68 | 4,471.79 | 0.00 | 0.00 | 0.00 |
| 11,800.00 | 89.81 | 0.33 | 7,309.83 | 4,541.05 | 524.26 | 4,571.21 | 0.00 | 0.00 | 0.00 |
| 11,852.53 | 89.81 | 0.33 | 7,310.00 | 4,593.58 | 524.57 | 4,623.43 | 0.00 | 0.00 | 0.00 |

TD at 11852.53 - GOBBLER 1N-23HZ BHL

Design 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 |
|---|---------------|--------------|----------|------------|------------|---------------|--------------|-----------|-------------|
| GOBBLER 1N-23HZ f - plan hits target center - Point | 0.00 | 0.00 | 7,310.00 | 4,593.58 | 524.57 | 1,291,033.15 | 3,213,339.45 | 40.129760 | -104.737030 |

Casing Points

| Measured Depth (ft) | Vertical Depth (ft) | Name | Casing Diameter (") | Hole Diameter (") |
|---------------------|---------------------|--------|---------------------|-------------------|
| 1,050.00 | 1,050.00 | 9 5/8" | 9-5/8 | 12-1/4 |
| 7,644.86 | 7,296.00 | 7" | 7 | 8-3/4 |

| | | | |
|------------------|-----------------------------|-------------------------------------|-------------------------------|
| Database: | edm5000p | Local Co-ordinate Reference: | Well GOBBLER 1N-23HZ |
| Company: | US ROCKIES REGION PLANNING | TVD Reference: | 17' KB + 5086' GL @ 5103.00ft |
| Project: | COLORADO NORTHERN ZONE - 83 | MD Reference: | 17' KB + 5086' GL @ 5103.00ft |
| Site: | WELD_GOBBLER 1N-23HZ | North Reference: | True |
| Well: | GOBBLER 1N-23HZ | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | GOBBLER 1N-23HZ | | |
| Design: | GOBBLER 1N-23HZ (wp01) | | |

| Formations | | | | | |
|---------------------|---------------------|----------------|-----------|---------|-------------------|
| Measured Depth (ft) | Vertical Depth (ft) | Name | Lithology | Dip (°) | Dip Direction (°) |
| 2,978.48 | 2,972.00 | PARKMAN | | 0.00 | |
| 5,031.76 | 5,017.00 | SUSSEX | | 0.00 | |
| 7,073.11 | 7,033.00 | SHARON SPRINGS | | 0.00 | |
| 7,086.32 | 7,044.00 | NIOBRARA A | | 0.00 | |
| 7,460.13 | 7,266.00 | NIOBRARA B | | 0.00 | |

| Plan Annotations | | | | | |
|---------------------|---------------------|-------------------|------------|----------------------------------|--|
| Measured Depth (ft) | Vertical Depth (ft) | Local Coordinates | | Comment | |
| | | +N/-S (ft) | +E/-W (ft) | | |
| 1,200.00 | 1,200.00 | 0.00 | 0.00 | Start Build 2.00 | |
| 1,457.35 | 1,457.01 | -4.40 | 10.68 | Start 5270.00 hold at 1457.35 MD | |
| 6,727.35 | 6,705.76 | -184.53 | 447.81 | Start DLS 10.00 TFO -112.02 | |
| 7,644.86 | 7,296.00 | 386.00 | 500.00 | Start DLS 1.00 TFO 106.42 | |
| 7,647.42 | 7,296.01 | 388.56 | 500.01 | Start 4205.11 hold at 7647.42 MD | |
| 11,852.53 | 7,310.00 | 4,593.58 | 524.57 | TD at 11852.53 | |