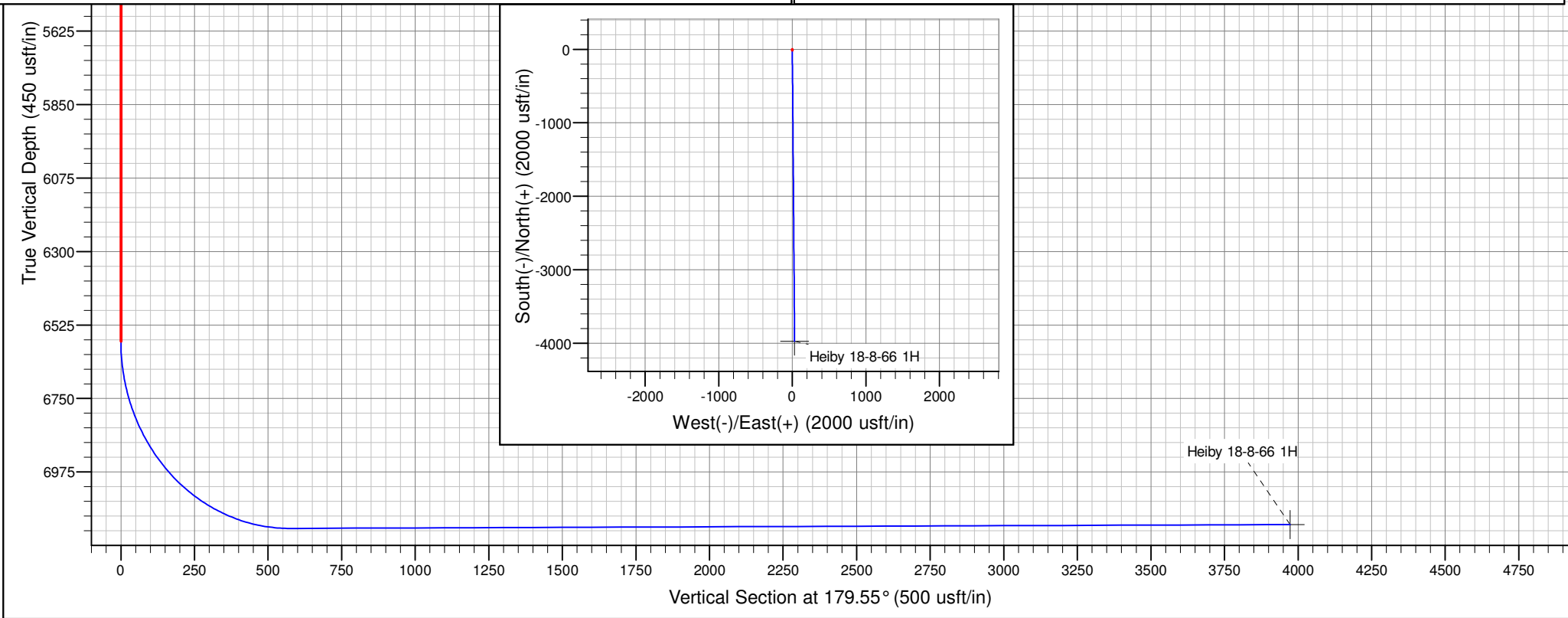


Project: Weld - DJ Basin
Site: Heiby 18-8-66 1H
Well: Heiby 18-8-66 1H
Wellbore: Heiby 18-8-66 1H
Design: Plan #1

PROJECT DETAILS: Weld - DJ Basin

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: Colorado North 501

System Datum: Mean Sea Level



SECTION DETAILS

| Sec | MD | Inc | Azi | TVD | +N/-S | +E/-W | Dleg | TFace | VSect | Target |
|-----|----------|-------|--------|--------|---------|-------|-------|--------|--------|------------------|
| 1 | 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.0 | |
| 2 | 6574.9 | 0.00 | 0.00 | 6574.9 | 0.0 | 0.0 | 0.00 | 0.00 | 0.0 | |
| 3 | 7476.9 | 90.20 | 179.55 | 7147.9 | -574.9 | 4.5 | 10.00 | 179.55 | 575.0 | |
| | 410875.1 | 90.20 | 179.55 | 7136.0 | -3973.0 | 31.1 | 0.00 | 0.00 | 3973.2 | Heiby 18-8-66 1H |

Chesapeake Energy -Rockies District

Weld - DJ Basin

Heiby 18-8-66 1H

Heiby 18-8-66 1H

Heiby 18-8-66 1H

Plan: Plan #1

Standard Planning Report

30 September, 2011

Chesapeake Operating

Planning Report

| | | | |
|------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Database: | Drilling Database | Local Co-ordinate Reference: | Well Heiby 18-8-66 1H |
| Company: | Chesapeake Energy -Rockies District | TVD Reference: | WELL @ 0.0usft (Original Well Elev) |
| Project: | Weld - DJ Basin | MD Reference: | WELL @ 0.0usft (Original Well Elev) |
| Site: | Heiby 18-8-66 1H | North Reference: | Grid |
| Well: | Heiby 18-8-66 1H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Heiby 18-8-66 1H | | |
| Design: | Plan #1 | | |

| | | | |
|--------------------|--------------------------------------|----------------------|----------------|
| Project | Weld - DJ Basin | | |
| Map System: | US State Plane 1927 (Exact solution) | System Datum: | Mean Sea Level |
| Geo Datum: | NAD 1927 (NADCON CONUS) | | |
| Map Zone: | Colorado North 501 | | |

| | | | | | |
|-----------------------|----------|------------------|-----------------|-------------------|------------------------|
| Site | | Heiby 18-8-66 1H | | | |
| Site Position: | | Northing: | 486,476.04 ft | Latitude: | 40° 40' 0.67104263 N |
| From: | Map | Easting: | 2,186,424.93 ft | Longitude: | 104° 49' 40.86307671 W |
| Position Uncertainty: | 0.0 usft | Slot Radius: | 13.200 in | Grid Convergence: | 0.43 ° |

| | | | | | | |
|----------------------|------------------|----------|---------------------|-----------------|---------------|------------------------|
| Well | Heiby 18-8-66 1H | | | | | |
| Well Position | +N/-S | 0.0 usft | Northing: | 486,476.04 ft | Latitude: | 40° 40' 0.67104263 N |
| | +E/-W | 0.0 usft | Easting: | 2,186,424.93 ft | Longitude: | 104° 49' 40.86307671 W |
| Position Uncertainty | | 0.0 usft | Wellhead Elevation: | | Ground Level: | 0.0 usft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | Heiby 18-8-66 1H | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF200510 | 9/27/2011 | 8.84 | 67.25 | 53,297 |

| | | | | |
|--------------------------|--------------------------------|---------------------|----------------------|----------------------|
| Design | Plan #1 | | | |
| Audit Notes: | | | | |
| Version: | Phase: | PROTOTYPE | Tie On Depth: | 0.0 |
| Vertical Section: | Depth From (TVD) (usft) | +N/-S (usft) | +E/-W (usft) | Direction (°) |
| | 0.0 | 0.0 | 0.0 | 179.55 |

| Plan Sections | | | | | | | | | | |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|------------------------|-----------------------|---------|------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | TFO (°) | Target |
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 6,574.9 | 0.00 | 0.00 | 6,574.9 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 7,476.9 | 90.20 | 179.55 | 7,147.9 | -574.9 | 4.5 | 10.00 | 10.00 | 0.00 | 179.55 | |
| 10,875.1 | 90.20 | 179.55 | 7,136.0 | -3,973.0 | 31.1 | 0.00 | 0.00 | 0.00 | 0.00 | Heiby 18-8-66 1H |

Chesapeake Operating

Planning Report

| | | | |
|------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Database: | Drilling Database | Local Co-ordinate Reference: | Well Heiby 18-8-66 1H |
| Company: | Chesapeake Energy -Rockies District | TVD Reference: | WELL @ 0.0usft (Original Well Elev) |
| Project: | Weld - DJ Basin | MD Reference: | WELL @ 0.0usft (Original Well Elev) |
| Site: | Heiby 18-8-66 1H | North Reference: | Grid |
| Well: | Heiby 18-8-66 1H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Heiby 18-8-66 1H | | |
| Design: | Plan #1 | | |

| Planned Survey | | | | | | | | | |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 100.0 | 0.00 | 0.00 | 100.0 | 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 |
| 300.0 | 0.00 | 0.00 | 300.0 | 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 |
| 500.0 | 0.00 | 0.00 | 500.0 | 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 |
| 700.0 | 0.00 | 0.00 | 700.0 | 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 |
| 900.0 | 0.00 | 0.00 | 900.0 | 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 |
| 1,100.0 | 0.00 | 0.00 | 1,100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,200.0 | 0.00 | 0.00 | 1,200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,300.0 | 0.00 | 0.00 | 1,300.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,400.0 | 0.00 | 0.00 | 1,400.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,500.0 | 0.00 | 0.00 | 1,500.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,600.0 | 0.00 | 0.00 | 1,600.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,700.0 | 0.00 | 0.00 | 1,700.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,800.0 | 0.00 | 0.00 | 1,800.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,900.0 | 0.00 | 0.00 | 1,900.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,000.0 | 0.00 | 0.00 | 2,000.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,100.0 | 0.00 | 0.00 | 2,100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,200.0 | 0.00 | 0.00 | 2,200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,300.0 | 0.00 | 0.00 | 2,300.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,400.0 | 0.00 | 0.00 | 2,400.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,500.0 | 0.00 | 0.00 | 2,500.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,600.0 | 0.00 | 0.00 | 2,600.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,700.0 | 0.00 | 0.00 | 2,700.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,800.0 | 0.00 | 0.00 | 2,800.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,900.0 | 0.00 | 0.00 | 2,900.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,000.0 | 0.00 | 0.00 | 3,000.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,100.0 | 0.00 | 0.00 | 3,100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,200.0 | 0.00 | 0.00 | 3,200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,300.0 | 0.00 | 0.00 | 3,300.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,400.0 | 0.00 | 0.00 | 3,400.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,500.0 | 0.00 | 0.00 | 3,500.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,600.0 | 0.00 | 0.00 | 3,600.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,700.0 | 0.00 | 0.00 | 3,700.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,800.0 | 0.00 | 0.00 | 3,800.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,900.0 | 0.00 | 0.00 | 3,900.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 4,000.0 | 0.00 | 0.00 | 4,000.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 4,100.0 | 0.00 | 0.00 | 4,100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 4,200.0 | 0.00 | 0.00 | 4,200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 4,300.0 | 0.00 | 0.00 | 4,300.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 4,400.0 | 0.00 | 0.00 | 4,400.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 4,500.0 | 0.00 | 0.00 | 4,500.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 4,600.0 | 0.00 | 0.00 | 4,600.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 4,700.0 | 0.00 | 0.00 | 4,700.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 4,800.0 | 0.00 | 0.00 | 4,800.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 4,900.0 | 0.00 | 0.00 | 4,900.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 5,000.0 | 0.00 | 0.00 | 5,000.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 5,100.0 | 0.00 | 0.00 | 5,100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 5,200.0 | 0.00 | 0.00 | 5,200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 5,300.0 | 0.00 | 0.00 | 5,300.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |

Chesapeake Operating

Planning Report

| | | | |
|------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Database: | Drilling Database | Local Co-ordinate Reference: | Well Heiby 18-8-66 1H |
| Company: | Chesapeake Energy -Rockies District | TVD Reference: | WELL @ 0.0usft (Original Well Elev) |
| Project: | Weld - DJ Basin | MD Reference: | WELL @ 0.0usft (Original Well Elev) |
| Site: | Heiby 18-8-66 1H | North Reference: | Grid |
| Well: | Heiby 18-8-66 1H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Heiby 18-8-66 1H | | |
| Design: | Plan #1 | | |

| Planned Survey | | | | | | | | | |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 5,400.0 | 0.00 | 0.00 | 5,400.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 5,500.0 | 0.00 | 0.00 | 5,500.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 5,600.0 | 0.00 | 0.00 | 5,600.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 5,700.0 | 0.00 | 0.00 | 5,700.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 5,800.0 | 0.00 | 0.00 | 5,800.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 5,900.0 | 0.00 | 0.00 | 5,900.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 6,000.0 | 0.00 | 0.00 | 6,000.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 6,100.0 | 0.00 | 0.00 | 6,100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 6,200.0 | 0.00 | 0.00 | 6,200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 6,300.0 | 0.00 | 0.00 | 6,300.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 6,400.0 | 0.00 | 0.00 | 6,400.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 6,500.0 | 0.00 | 0.00 | 6,500.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 6,574.9 | 0.00 | 0.00 | 6,574.9 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 6,600.0 | 2.51 | 179.55 | 6,600.0 | -0.5 | 0.0 | 0.5 | 10.00 | 10.00 | 0.00 |
| 6,700.0 | 12.51 | 179.55 | 6,699.0 | -13.6 | 0.1 | 13.6 | 10.00 | 10.00 | 0.00 |
| 6,800.0 | 22.51 | 179.55 | 6,794.3 | -43.6 | 0.3 | 43.6 | 10.00 | 10.00 | 0.00 |
| 6,900.0 | 32.51 | 179.55 | 6,882.8 | -89.8 | 0.7 | 89.8 | 10.00 | 10.00 | 0.00 |
| 7,000.0 | 42.51 | 179.55 | 6,962.1 | -150.6 | 1.2 | 150.6 | 10.00 | 10.00 | 0.00 |
| 7,100.0 | 52.51 | 179.55 | 7,029.5 | -224.2 | 1.8 | 224.2 | 10.00 | 10.00 | 0.00 |
| 7,200.0 | 62.51 | 179.55 | 7,083.2 | -308.5 | 2.4 | 308.5 | 10.00 | 10.00 | 0.00 |
| 7,300.0 | 72.51 | 179.55 | 7,121.4 | -400.7 | 3.1 | 400.8 | 10.00 | 10.00 | 0.00 |
| 7,400.0 | 82.51 | 179.55 | 7,143.0 | -498.2 | 3.9 | 498.3 | 10.00 | 10.00 | 0.00 |
| 7,476.9 | 90.20 | 179.55 | 7,147.9 | -574.9 | 4.5 | 575.0 | 10.00 | 10.00 | 0.00 |
| 7,500.0 | 90.20 | 179.55 | 7,147.8 | -598.0 | 4.7 | 598.0 | 0.00 | 0.00 | 0.00 |
| 7,600.0 | 90.20 | 179.55 | 7,147.4 | -698.0 | 5.5 | 698.0 | 0.00 | 0.00 | 0.00 |
| 7,700.0 | 90.20 | 179.55 | 7,147.1 | -798.0 | 6.2 | 798.0 | 0.00 | 0.00 | 0.00 |
| 7,800.0 | 90.20 | 179.55 | 7,146.7 | -898.0 | 7.0 | 898.0 | 0.00 | 0.00 | 0.00 |
| 7,900.0 | 90.20 | 179.55 | 7,146.4 | -998.0 | 7.8 | 998.0 | 0.00 | 0.00 | 0.00 |
| 8,000.0 | 90.20 | 179.55 | 7,146.0 | -1,098.0 | 8.6 | 1,098.0 | 0.00 | 0.00 | 0.00 |
| 8,100.0 | 90.20 | 179.55 | 7,145.7 | -1,198.0 | 9.4 | 1,198.0 | 0.00 | 0.00 | 0.00 |
| 8,200.0 | 90.20 | 179.55 | 7,145.3 | -1,298.0 | 10.2 | 1,298.0 | 0.00 | 0.00 | 0.00 |
| 8,300.0 | 90.20 | 179.55 | 7,145.0 | -1,398.0 | 10.9 | 1,398.0 | 0.00 | 0.00 | 0.00 |
| 8,400.0 | 90.20 | 179.55 | 7,144.6 | -1,498.0 | 11.7 | 1,498.0 | 0.00 | 0.00 | 0.00 |
| 8,500.0 | 90.20 | 179.55 | 7,144.3 | -1,598.0 | 12.5 | 1,598.0 | 0.00 | 0.00 | 0.00 |
| 8,600.0 | 90.20 | 179.55 | 7,143.9 | -1,698.0 | 13.3 | 1,698.0 | 0.00 | 0.00 | 0.00 |
| 8,700.0 | 90.20 | 179.55 | 7,143.6 | -1,798.0 | 14.1 | 1,798.0 | 0.00 | 0.00 | 0.00 |
| 8,800.0 | 90.20 | 179.55 | 7,143.2 | -1,898.0 | 14.8 | 1,898.0 | 0.00 | 0.00 | 0.00 |
| 8,900.0 | 90.20 | 179.55 | 7,142.9 | -1,998.0 | 15.6 | 1,998.0 | 0.00 | 0.00 | 0.00 |
| 9,000.0 | 90.20 | 179.55 | 7,142.5 | -2,098.0 | 16.4 | 2,098.0 | 0.00 | 0.00 | 0.00 |
| 9,100.0 | 90.20 | 179.55 | 7,142.2 | -2,198.0 | 17.2 | 2,198.0 | 0.00 | 0.00 | 0.00 |
| 9,200.0 | 90.20 | 179.55 | 7,141.8 | -2,298.0 | 18.0 | 2,298.0 | 0.00 | 0.00 | 0.00 |
| 9,300.0 | 90.20 | 179.55 | 7,141.5 | -2,398.0 | 18.8 | 2,398.0 | 0.00 | 0.00 | 0.00 |
| 9,400.0 | 90.20 | 179.55 | 7,141.1 | -2,498.0 | 19.5 | 2,498.0 | 0.00 | 0.00 | 0.00 |
| 9,500.0 | 90.20 | 179.55 | 7,140.8 | -2,598.0 | 20.3 | 2,598.0 | 0.00 | 0.00 | 0.00 |
| 9,600.0 | 90.20 | 179.55 | 7,140.5 | -2,698.0 | 21.1 | 2,698.0 | 0.00 | 0.00 | 0.00 |
| 9,700.0 | 90.20 | 179.55 | 7,140.1 | -2,798.0 | 21.9 | 2,798.0 | 0.00 | 0.00 | 0.00 |
| 9,800.0 | 90.20 | 179.55 | 7,139.8 | -2,897.9 | 22.7 | 2,898.0 | 0.00 | 0.00 | 0.00 |
| 9,900.0 | 90.20 | 179.55 | 7,139.4 | -2,997.9 | 23.4 | 2,998.0 | 0.00 | 0.00 | 0.00 |
| 10,000.0 | 90.20 | 179.55 | 7,139.1 | -3,097.9 | 24.2 | 3,098.0 | 0.00 | 0.00 | 0.00 |
| 10,100.0 | 90.20 | 179.55 | 7,138.7 | -3,197.9 | 25.0 | 3,198.0 | 0.00 | 0.00 | 0.00 |
| 10,200.0 | 90.20 | 179.55 | 7,138.4 | -3,297.9 | 25.8 | 3,298.0 | 0.00 | 0.00 | 0.00 |
| 10,300.0 | 90.20 | 179.55 | 7,138.0 | -3,397.9 | 26.6 | 3,398.0 | 0.00 | 0.00 | 0.00 |
| 10,400.0 | 90.20 | 179.55 | 7,137.7 | -3,497.9 | 27.4 | 3,498.0 | 0.00 | 0.00 | 0.00 |
| 10,500.0 | 90.20 | 179.55 | 7,137.3 | -3,597.9 | 28.1 | 3,598.0 | 0.00 | 0.00 | 0.00 |

Chesapeake Operating

Planning Report

| | | | |
|------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Database: | Drilling Database | Local Co-ordinate Reference: | Well Heiby 18-8-66 1H |
| Company: | Chesapeake Energy -Rockies District | TVD Reference: | WELL @ 0.0usft (Original Well Elev) |
| Project: | Weld - DJ Basin | MD Reference: | WELL @ 0.0usft (Original Well Elev) |
| Site: | Heiby 18-8-66 1H | North Reference: | Grid |
| Well: | Heiby 18-8-66 1H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Heiby 18-8-66 1H | | |
| Design: | Plan #1 | | |

| Planned Survey | | | | | | | | | | |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|--|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | |
| 10,600.0 | 90.20 | 179.55 | 7,137.0 | -3,697.9 | 28.9 | 3,698.0 | 0.00 | 0.00 | 0.00 | |
| 10,700.0 | 90.20 | 179.55 | 7,136.6 | -3,797.9 | 29.7 | 3,798.0 | 0.00 | 0.00 | 0.00 | |
| 10,800.0 | 90.20 | 179.55 | 7,136.3 | -3,897.9 | 30.5 | 3,898.0 | 0.00 | 0.00 | 0.00 | |
| 10,875.1 | 90.20 | 179.55 | 7,136.0 | -3,973.0 | 31.1 | 3,973.2 | 0.00 | 0.00 | 0.00 | |

| Design Targets | | | | | | | | | | |
|---------------------------|---------------|--------------|------------|--------------|--------------|---------------|--------------|----------------------|----------------------|--|
| Target Name | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (ft) | Easting (ft) | Latitude | Longitude | |
| - hit/miss target | | | | | | | | | | |
| - Shape | | | | | | | | | | |
| Heiby 18-8-66 1H | 0.00 | 0.00 | 7,136.0 | -3,973.0 | 31.1 | 482,503.00 | 2,186,456.00 | 0° 39' 21.41015185 N | 4° 49' 40.85060177 W | |
| - plan hits target center | | | | | | | | | | |
| - Point | | | | | | | | | | |