

Project: Weld County, CO (NAD 83)
 Site: Sec. 16-T6N-R63W
 Well: Gunner State AA16-99HZ
 Wellbore: Plan #1
 Design: Plan #1 Proposal

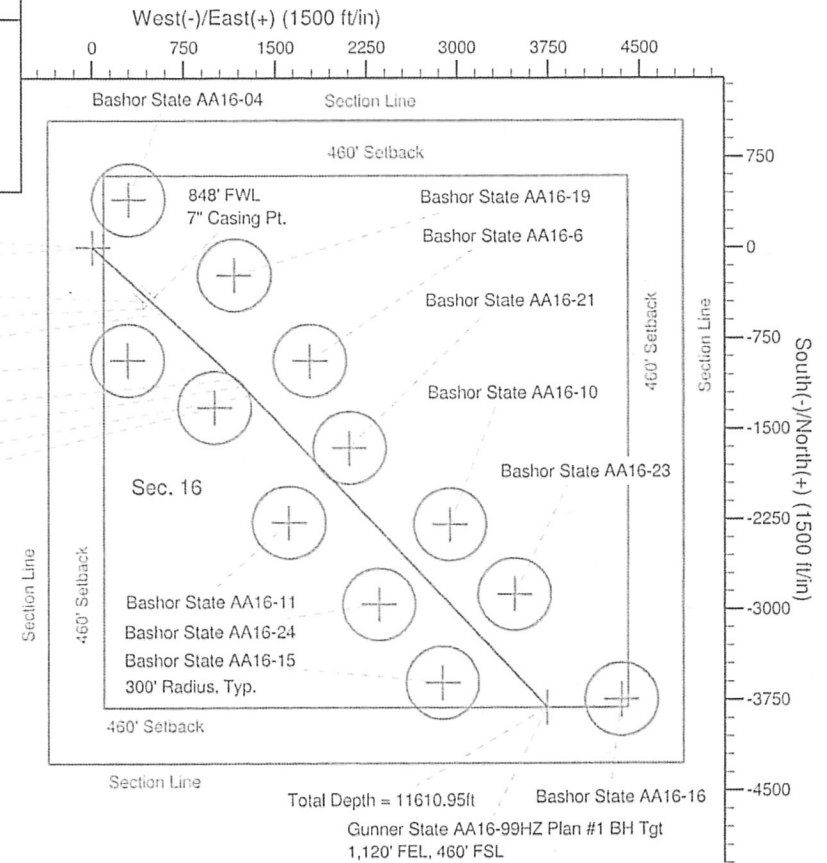
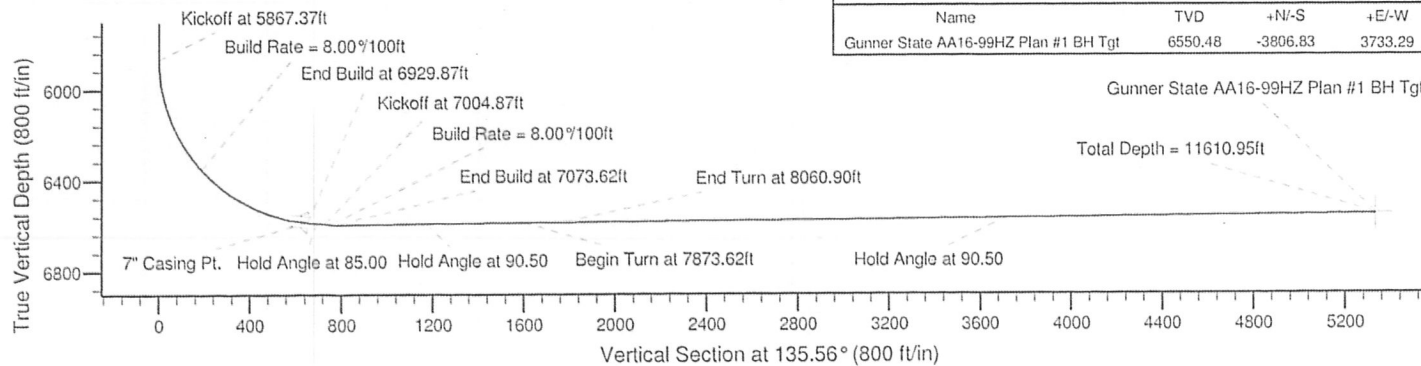
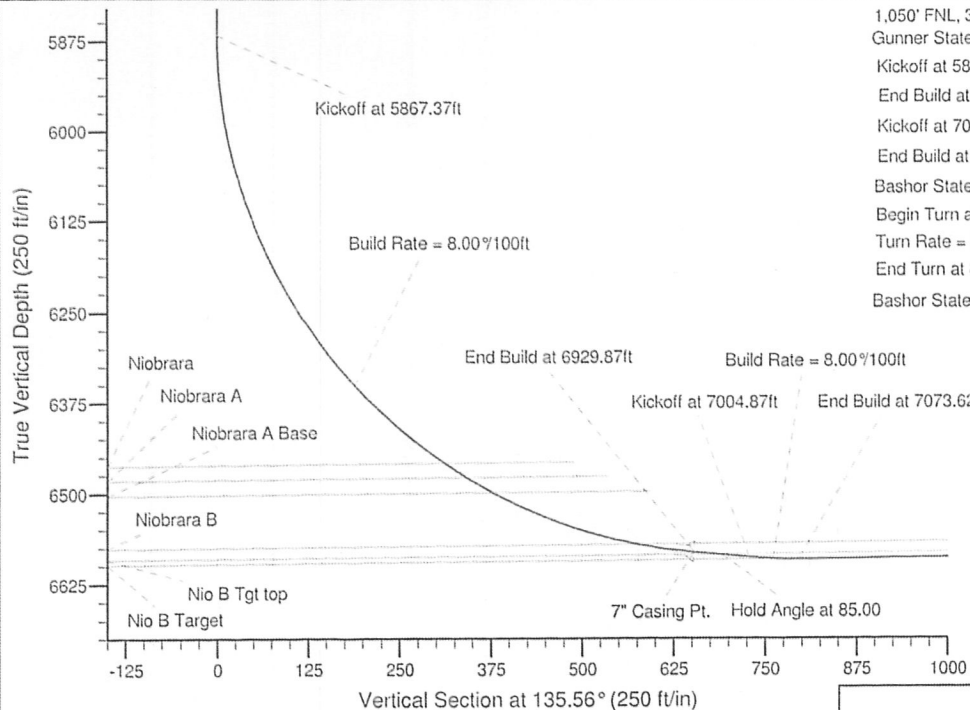
Noble Energy

HALLIBURTON
 Sperry Drilling

SECTION DETAILS

| Sec | MD | Inc | Azi | TVD | +N/-S | +E/-W | DLeg | TFace | VSec | Target |
|-----|----------|-------|--------|---------|----------|---------|------|--------|---------|---------------------------------------|
| 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 2 | 5867.37 | 0.00 | 0.00 | 5867.37 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 3 | 6929.87 | 85.00 | 133.00 | 6580.84 | -445.87 | 478.14 | 8.00 | 133.00 | 653.12 | |
| 4 | 7004.87 | 85.00 | 133.00 | 6587.38 | -496.83 | 532.78 | 0.00 | 0.00 | 727.76 | |
| 5 | 7073.62 | 90.50 | 133.00 | 6590.08 | -543.66 | 583.01 | 8.00 | 0.00 | 796.37 | |
| 6 | 7873.62 | 90.50 | 133.00 | 6583.10 | -1089.24 | 1168.07 | 0.00 | 0.00 | 1595.54 | |
| 7 | 8060.90 | 90.50 | 136.75 | 6581.46 | -1221.35 | 1300.76 | 2.00 | 89.98 | 1782.77 | |
| 8 | 11610.95 | 90.50 | 136.75 | 6550.48 | -3806.83 | 3733.29 | 0.00 | 0.00 | 5331.92 | Gunner State AA16-99HZ Plan #1 BH Tgt |

1,050' FNL, 370' FWL
 Gunner State AA16-99HZ
 Kickoff at 5867.37ft
 End Build at 6929.87ft
 Kickoff at 7004.87ft
 End Build at 7073.62ft
 Bashor State AA16-5
 Begin Turn at 7873.62ft
 Turn Rate = 2.00°/100ft
 End Turn at 8060.90ft
 Bashor State AA16-20



WELLBORE TARGET DETAILS (LAT/LONG)

| Name | TVD | +N/-S | +E/-W | Latitude | Longitude | Shape |
|---------------------------------------|---------|----------|---------|-----------|-------------|-------|
| Gunner State AA16-99HZ Plan #1 BH Tgt | 6550.48 | -3806.83 | 3733.29 | 40.480620 | -104.436720 | Point |

WELL DETAILS: Gunner State AA16-99HZ

| | | | |
|------------|---------------|-----------|-------------|
| | Ground Level: | 4682.00 | |
| Northing | Easting | Latitude | Longitude |
| 1423465.82 | 3291997.27 | 40.491070 | -104.450140 |

Plan: Plan #1 Proposal (Gunner State AA16-99HZ/Plan #1)

Created By: Paul A. Bitzan Date: 08/31/2010

Checked: _____ Date: _____

Reviewed: _____ Date: _____

Approved: _____ Date: _____