

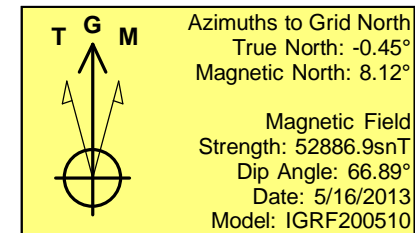
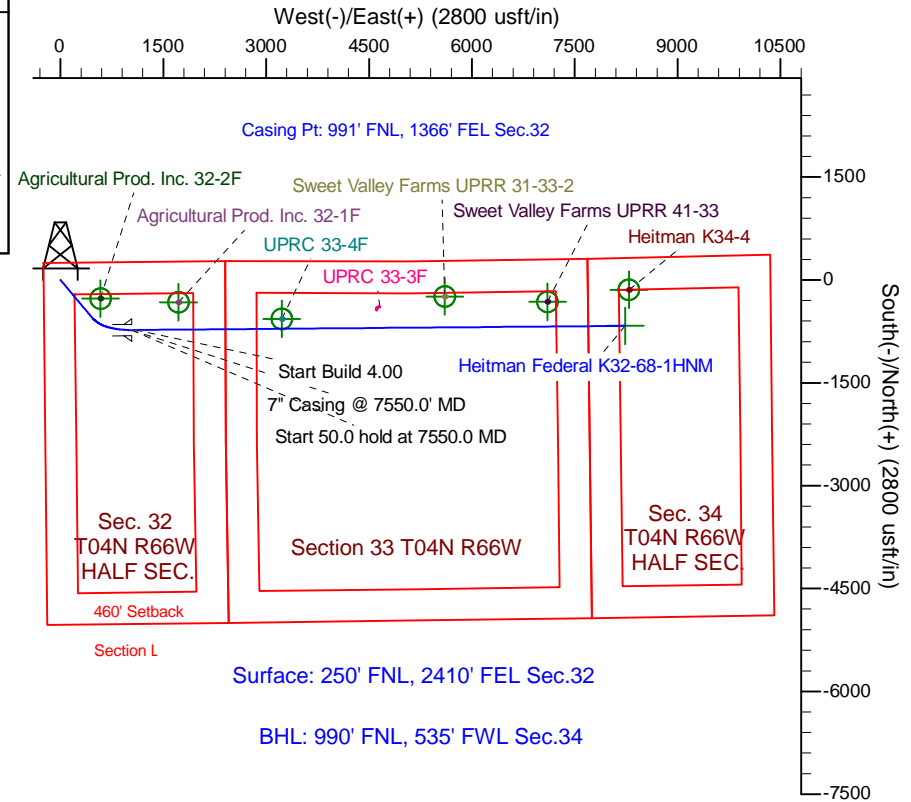
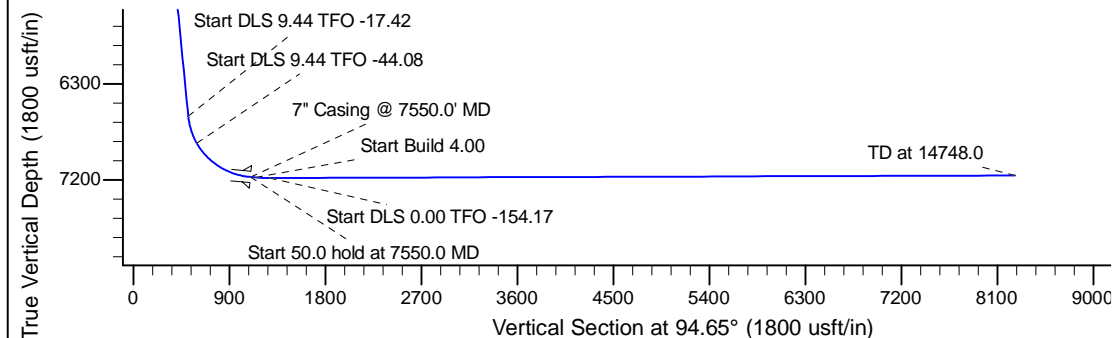
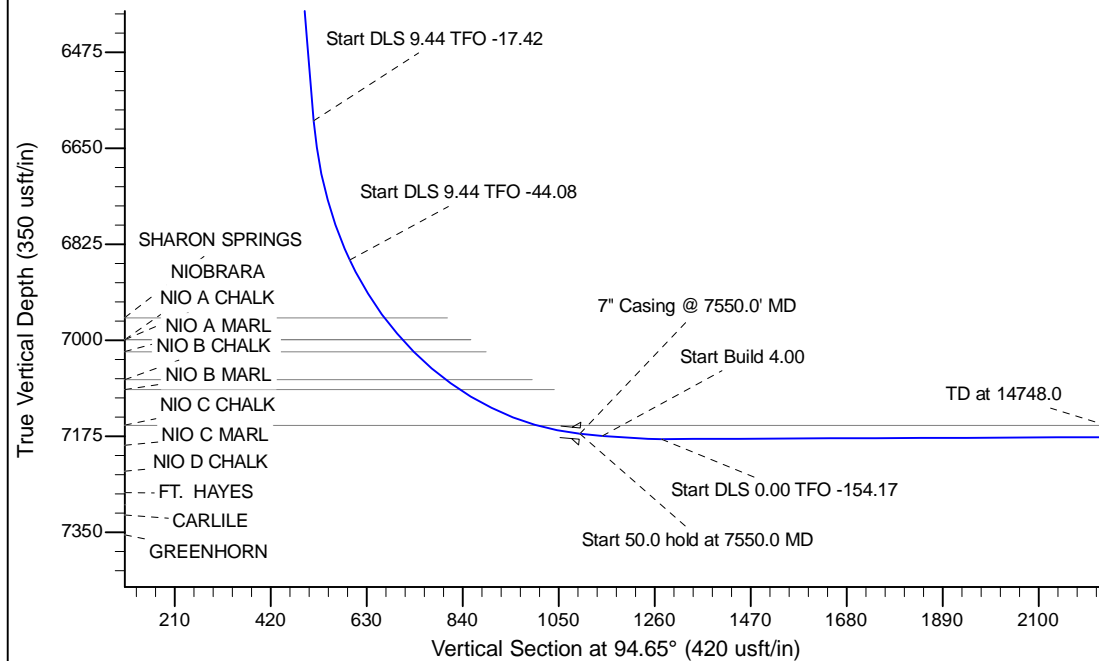
Project: Wattenberg Field  
Site: K (Sec.32-T04-R66W) Weld County, CO  
Well: Heitman Federal K32-68-1HNM  
Wellbore: Original Drilling  
Design: APD - Rev 0

# Northern Region Drilling

Geodetic System: US State Plane 1983  
Datum: North American Datum 1983  
Ellipsoid: GRS 1980  
Zone: Colorado Northern Zone  
System Datum: Mean Sea Level

## 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   | 1200.0  | 0.00  | 0.00   | 1200.0 | 0.0    | 0.0    | 0.00 | 0.00    | 0.0    |   |
| 3   | 1600.0  | 8.00  | 140.00 | 1598.7 | -21.4  | 17.9   | 2.00 | 140.00  | 19.6   |   |
| 4   | 6650.4  | 8.00  | 140.00 | 6600.0 | -559.8 | 469.7  | 0.00 | 0.00    | 513.5  |   |
| 5   | 6924.0  | 33.54 | 126.34 | 6853.7 | -620.2 | 544.1  | 9.44 | -17.42  | 592.6  |   |
| 6   | 7550.0  | 85.00 | 89.52  | 7170.5 | -730.0 | 1040.0 | 9.44 | -44.08  | 1095.7 |   |
| 7   | 7600.0  | 85.00 | 89.52  | 7174.9 | -729.6 | 1089.8 | 0.00 | 0.00    | 1145.3 |   |
| 8   | 7730.0  | 90.20 | 89.52  | 7180.3 | -728.5 | 1219.6 | 4.00 | 0.00    | 1274.7 |   |
| 9   | 14748.0 | 90.20 | 89.52  | 7156.1 | -669.6 | 8237.4 | 0.00 | -154.17 | 8264.5 | Heitman Federal K32-68-1HNM BHL 990'FNL & 535'FWL |



| WELL DETAILS: Heitman Federal K32-68-1HNM                         |     |                           |            |             |
|---|-----|---------------------------|------------|-------------|
| Ground Level: 4773.0  |     |                           |            |             |
| 0.0   | 0.0 | Northing                  | Easting    | Latitude    |
|   |     | 1343673.34                | 3195162.18 | 40.274670   |
|   |     |                           |            | Longitude   |
|   |     |                           |            | -104.800550 |
| Plan: APD - Rev 0 (Heitman Federal K32-68-1HNM/Original Drilling) |     |                           |            |             |
| Created By: Shailey Jewell  |     | Date: 16:57, June 05 2013 |            |             |
| Checked: _____  |     | Date: _____               |            |             |
| Reviewed: _____   |     | Date: _____               |            |             |
| Approved: _____   |     | Date: _____               |            |             |