

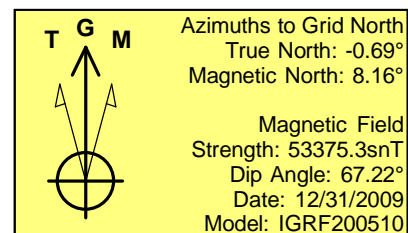
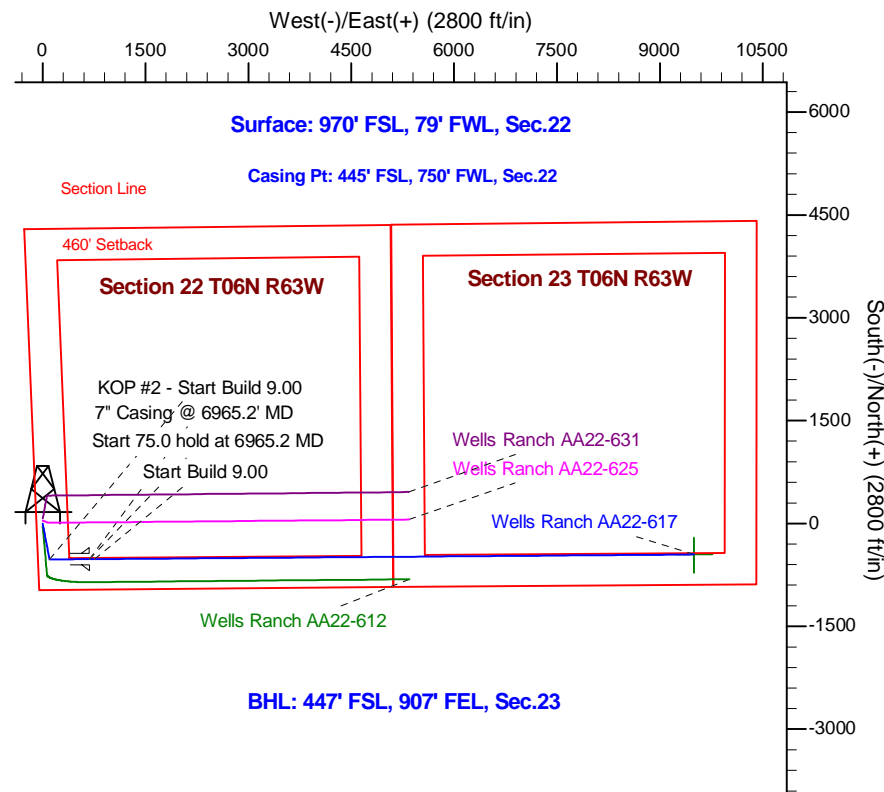
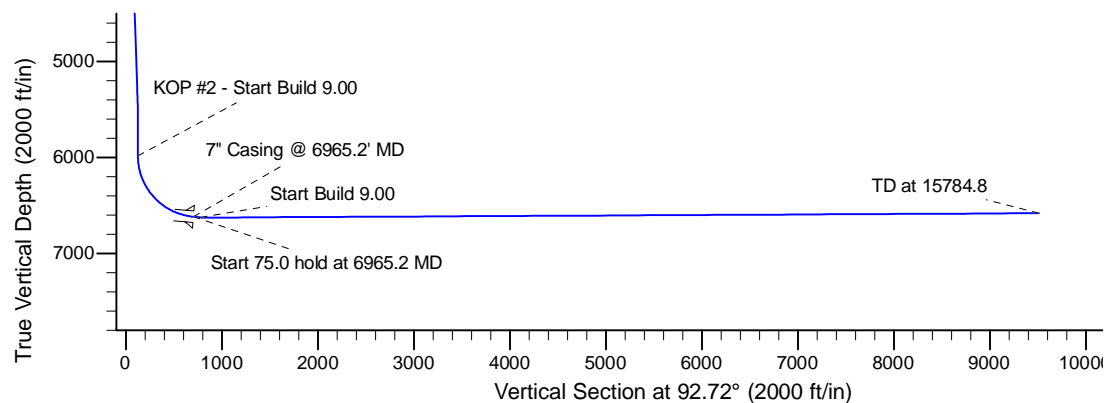
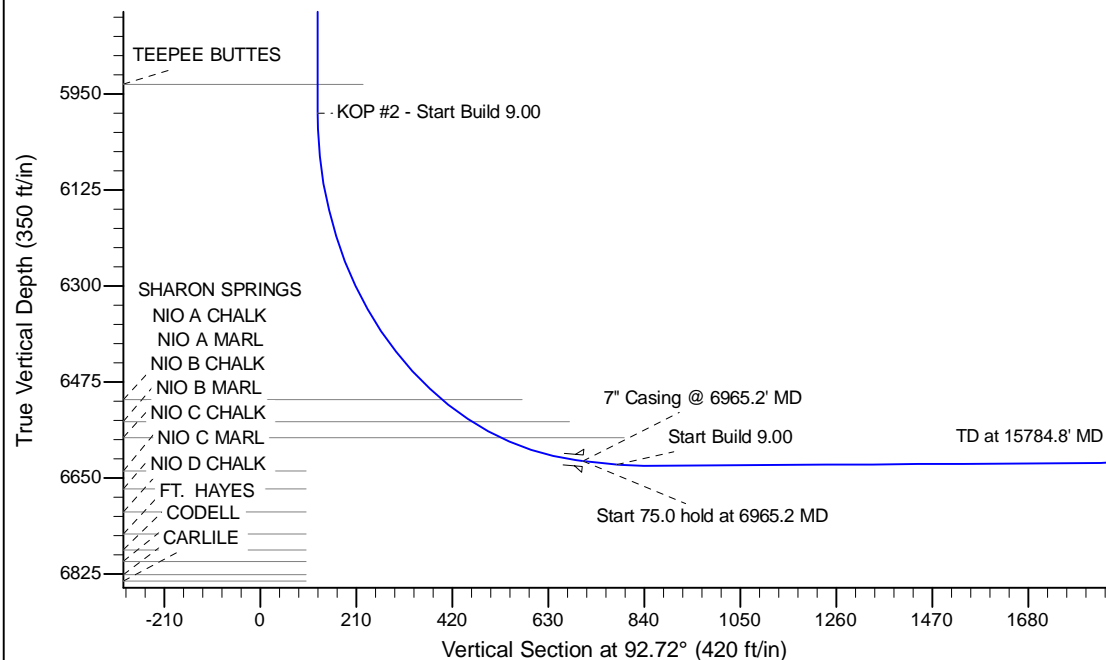
Project: Wattenberg Field  
 Site: AA (Sec.22-T06N-R63W) Weld County, CO  
 Well: Wells Ranch AA22-617  
 Wellbore: Original Drilling  
 Design: APD - Rev 0

# Northern Region Drilling - Working

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  | VFace  | Target                                    |
|-----|---------|-------|--------|--------|--------|--------|------|--------|--------|---|
| 1   | 0.0     | 0.00  | 0.00   | 0.0    | 0.0    | 0.0    | 0.00 | 0.00   | 0.0    |   |
| 2   | 1500.0  | 0.00  | 0.00   | 1500.0 | 0.0    | 0.0    | 0.00 | 0.00   | 0.0    |   |
| 3   | 1901.6  | 8.03  | 169.22 | 1900.2 | -27.6  | 5.3    | 2.00 | 169.22 | 6.6    |   |
| 4   | 5324.6  | 8.03  | 169.22 | 5289.8 | -497.4 | 94.7   | 0.00 | 0.00   | 118.3  |   |
| 5   | 5726.2  | 0.00  | 0.00   | 5690.0 | -525.0 | 100.0  | 2.00 | 180.00 | 124.8  |   |
| 6   | 6020.7  | 0.00  | 0.00   | 5984.5 | -525.0 | 100.0  | 0.00 | 0.00   | 124.8  |   |
| 7   | 6965.2  | 85.00 | 89.56  | 6618.7 | -520.5 | 681.1  | 9.00 | 89.56  | 705.1  |   |
| 8   | 7040.2  | 85.00 | 89.56  | 6625.3 | -519.9 | 755.8  | 0.00 | 0.00   | 779.7  |   |
| 9   | 7099.1  | 90.30 | 89.56  | 6627.7 | -519.5 | 814.6  | 9.00 | 0.00   | 838.4  |   |
| 10  | 15784.8 | 90.30 | 89.56  | 6582.2 | -452.1 | 9500.0 | 0.00 | 0.00   | 9510.8 | Wells Ranch AA22-617 BHL 447'FSL, 907'FEL |



| WELL DETAILS: Wells Ranch AA22-617                         |          |            |                            |           |             |
|--|----------|------------|----------------------------|-----------|-------------|
| Ground Level: 4745.0                                       |          |            |                            |           |             |
|  | Northing | Easting    | Latitude                   | Longitude |             |
| 0.0  | 0.0      | 1414951.10 | 3297156.71                 | 40.467530 | -104.431960 |
| Plan: APD - Rev 0 (Wells Ranch AA22-617/Original Drilling) |          |            |                            |           |             |
| Created By: Shailey Jewell                                 |          |            | Date: 10:38, April 10 2015 |           |             |
| OK to submit with 2A as per Noble Drilling                 |          |            |                            |           |             |
| 4/10/2015 10:44  |          |            |                            |           |             |