

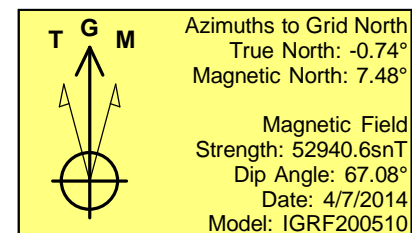
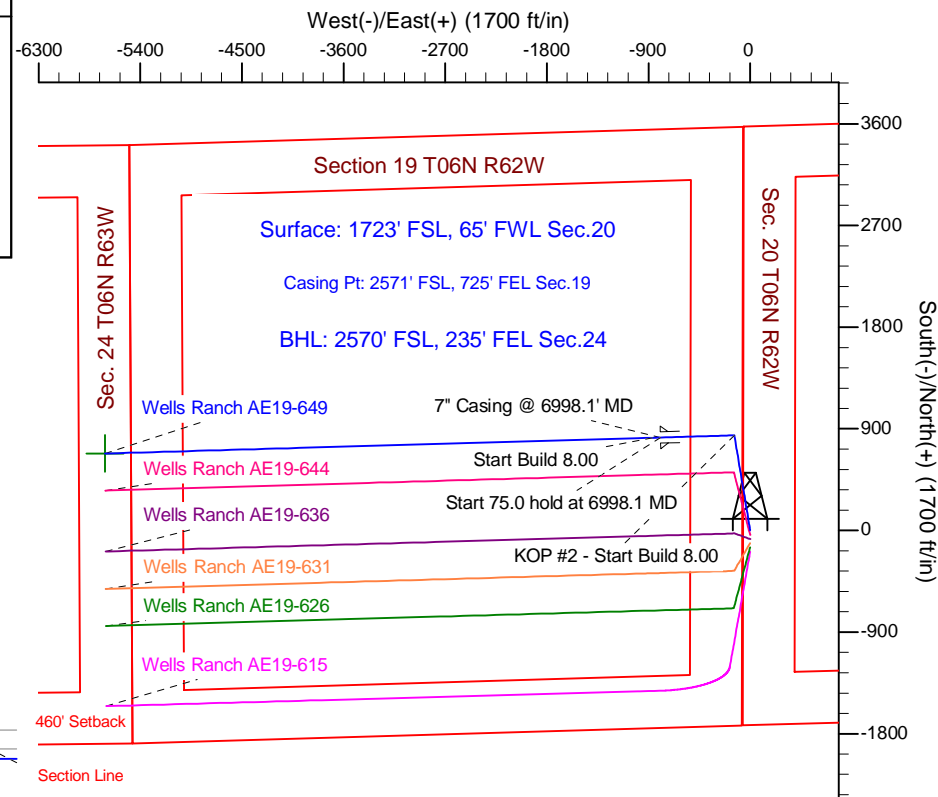
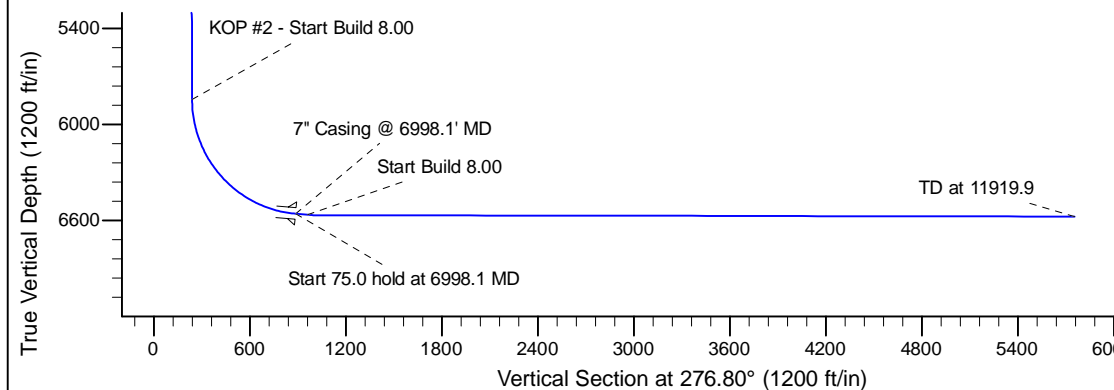
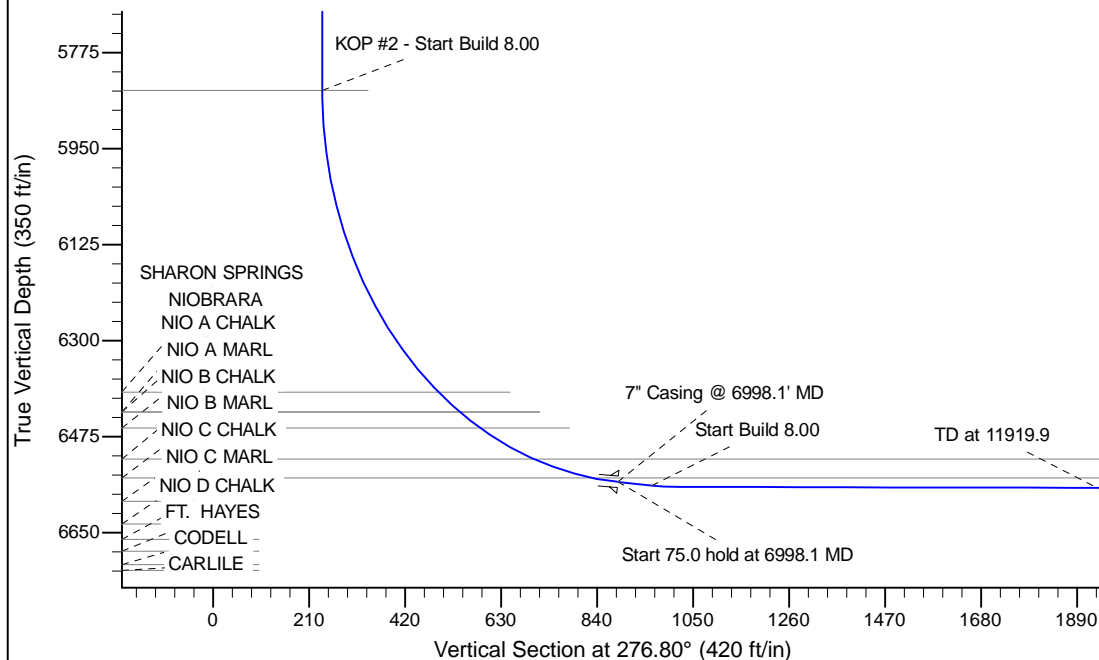
Project: Wattenberg Field  
 Site: AE (Sec.20-T06N-R62W) Weld County, CO  
 Well: Wells Ranch AE19-649  
 Wellbore: Original Drilling  
 Design: APD - Rev 0

# 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  | 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   | 1850.0  | 13.00 | 350.56 | 1844.4 | 72.4  | -12.0   | 2.00 | 350.56 | 20.5   |  |
| 4   | 4991.6  | 13.00 | 350.56 | 4905.6 | 769.6 | -128.0  | 0.00 | 0.00   | 218.2  |  |
| 5   | 5641.6  | 0.00  | 0.00   | 5550.0 | 842.0 | -140.0  | 2.00 | 180.00 | 238.7  |  |
| 6   | 5935.6  | 0.00  | 0.00   | 5843.9 | 842.0 | -140.0  | 0.00 | 0.00   | 238.7  |  |
| 7   | 6998.1  | 85.00 | 268.35 | 6557.4 | 823.1 | -793.5  | 8.00 | 268.35 | 885.4  |  |
| 8   | 7073.1  | 85.00 | 268.35 | 6563.9 | 821.0 | -868.2  | 0.00 | 0.00   | 959.3  |  |
| 9   | 7134.3  | 89.90 | 268.35 | 6566.6 | 819.2 | -929.3  | 8.00 | 0.00   | 1019.8 |  |
| 10  | 11919.9 | 89.90 | 268.35 | 6575.0 | 681.1 | -5712.9 | 0.00 | 0.00   | 5753.4 | Wells Ranch AE19-649 BHL 2570'FSL, 235'FEL |



| WELL DETAILS: Wells Ranch AE19-649                         |     |            |                            |           |             |
|--|-----|------------|----------------------------|-----------|-------------|
| Ground Level: 4786.0                                       |     |            |                            |           |             |
| 0.0  | 0.0 | Northing   | Eastings                   | Latitude  | Longitude   |
|  |     | 1416002.04 | 3318318.43                 | 40.469690 | -104.355860 |
| Plan: APD - Rev 0 (Wells Ranch AE19-649/Original Drilling) |     |            |                            |           |             |
| Created By: Shailey Jewell                                 |     |            | Date: 11:49, April 07 2014 |           |             |
| Checked: _____   |     |            | Date: _____                |           |             |
| Reviewed: _____  |     |            | Date: _____                |           |             |
| Approved: _____  |     |            | Date: _____                |           |             |