

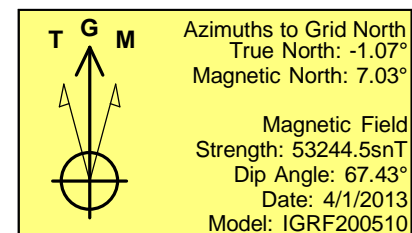
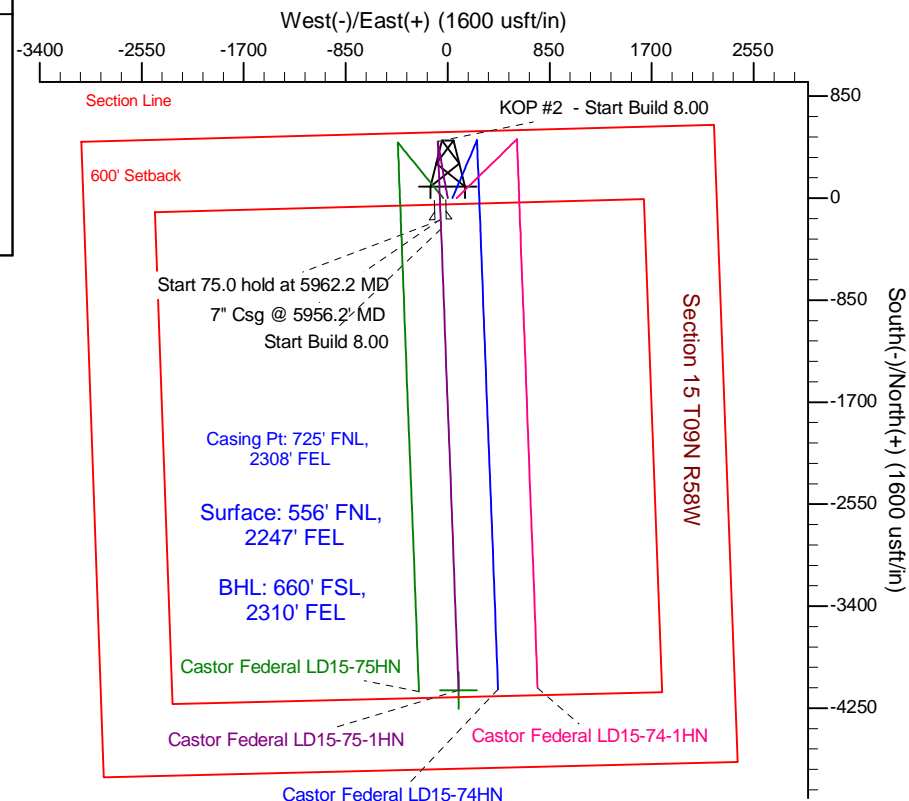
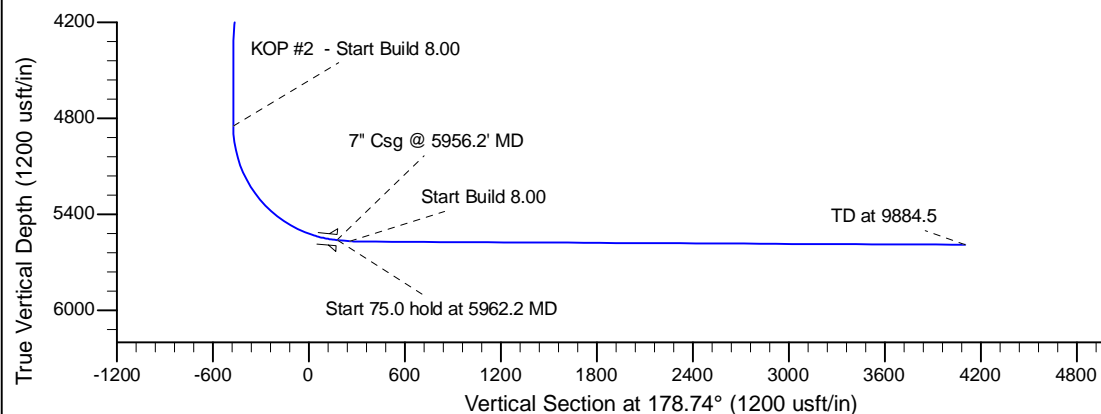
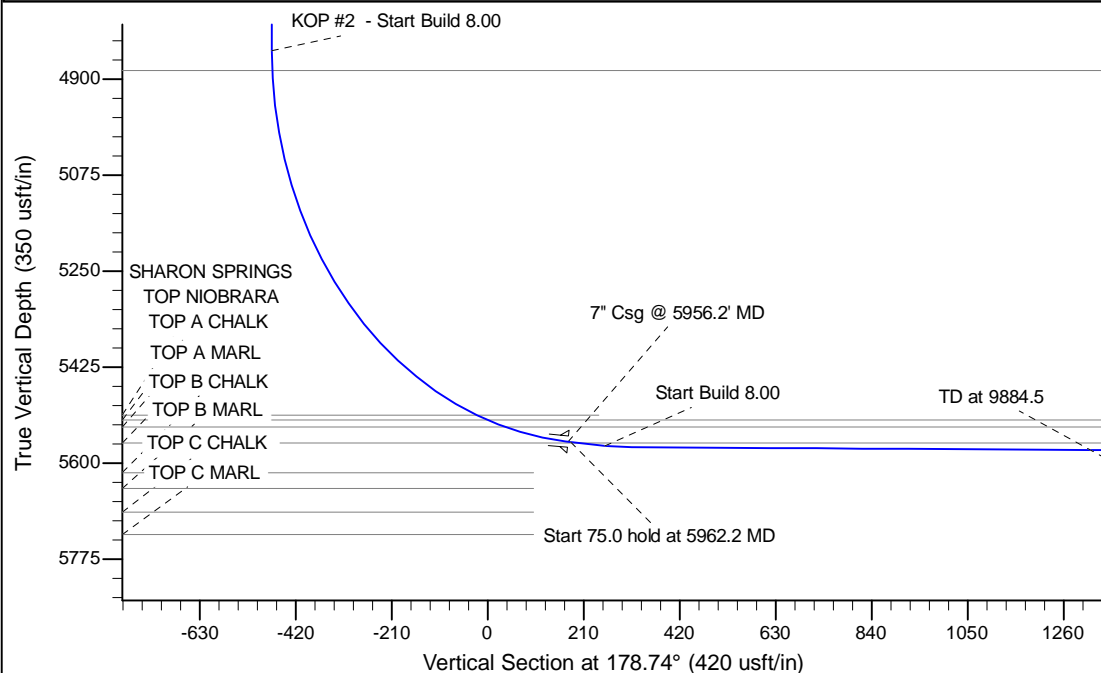
Project: Wattenberg Field  
Site: LD (Sec.15-T09N-R58W) Weld County, CO  
Well: Castor Federal LD15-75-1HN  
Wellbore: Original Drilling  
Design: APD - Rev 0

# 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   | 1800.0 | 0.00  | 0.00   | 1800.0 | 0.0     | 0.0   | 0.00 | 0.00   | 0.0    |  |
| 3   | 2500.9 | 14.02 | 350.01 | 2493.9 | 84.0    | -14.8 | 2.00 | 350.01 | -84.3  |  |
| 4   | 3770.8 | 14.02 | 350.01 | 3726.1 | 387.0   | -68.2 | 0.00 | 0.00   | -388.4 |  |
| 5   | 4471.8 | 0.00  | 0.00   | 4420.0 | 471.0   | -83.0 | 2.00 | 180.00 | -472.7 |  |
| 6   | 4899.7 | 0.00  | 0.00   | 4847.9 | 471.0   | -83.0 | 0.00 | 0.00   | -472.7 |  |
| 7   | 5962.2 | 85.00 | 177.83 | 5561.4 | -182.3  | -58.2 | 8.00 | 177.83 | 181.0  |  |
| 8   | 6037.2 | 85.00 | 177.83 | 5567.9 | -257.0  | -55.4 | 0.00 | 0.00   | 255.7  |  |
| 9   | 6096.0 | 89.70 | 177.83 | 5570.7 | -315.6  | -53.2 | 8.00 | 0.00   | 314.4  |  |
| 10  | 9884.5 | 89.70 | 177.83 | 5590.5 | -4101.4 | 90.2  | 0.00 | 0.00   | 4102.4 | Castor Federal LD15-75-1HN BHL 660'FSL, 2310'FEL |



## WELL DETAILS: Castor Federal LD15-75-1HN

|     |     | Ground Level: 4706.0 |             |
|-----|-----|----------------------|-------------|
|     |     | Northing             | Easting     |
| 0.0 | 0.0 | 1522926.10           | 3457399.46  |
|     |     | Latitude             | Longitude   |
|     |     | 40.757130            | -103.848900 |

Plan: APD - Rev 0 (Castor Federal LD15-75-1HN/Original Drilling)

Created By: Carrie Willers Date: 10:29, April 11 2013

Checked: \_\_\_\_\_ Date: \_\_\_\_\_

Reviewed: \_\_\_\_\_ Date: \_\_\_\_\_

Approved: \_\_\_\_\_ Date: \_\_\_\_\_