

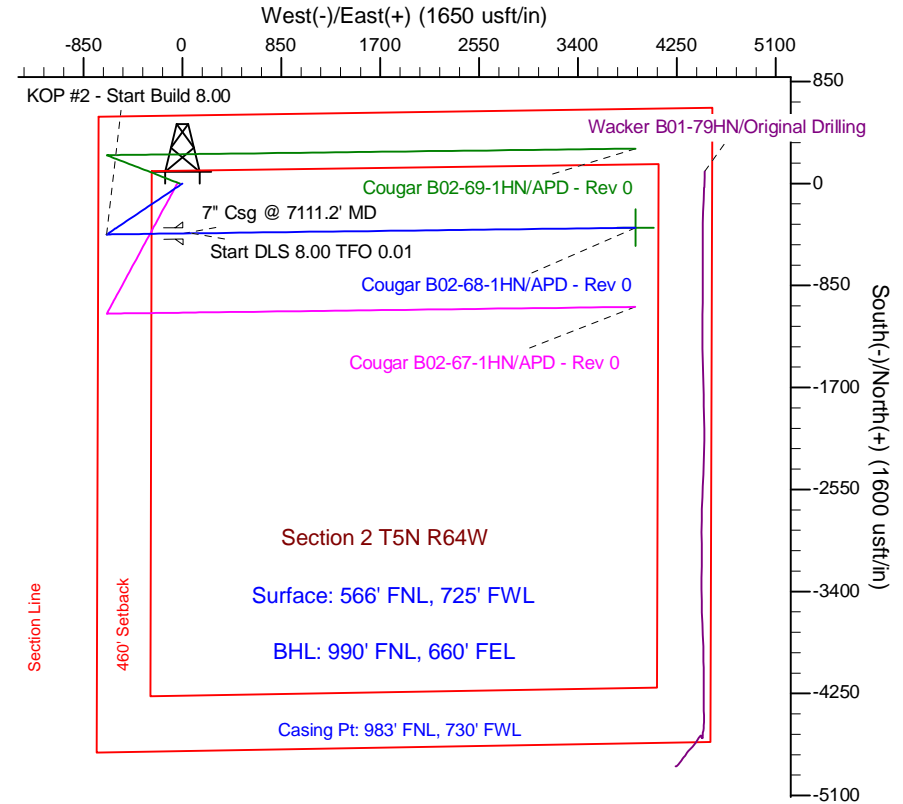
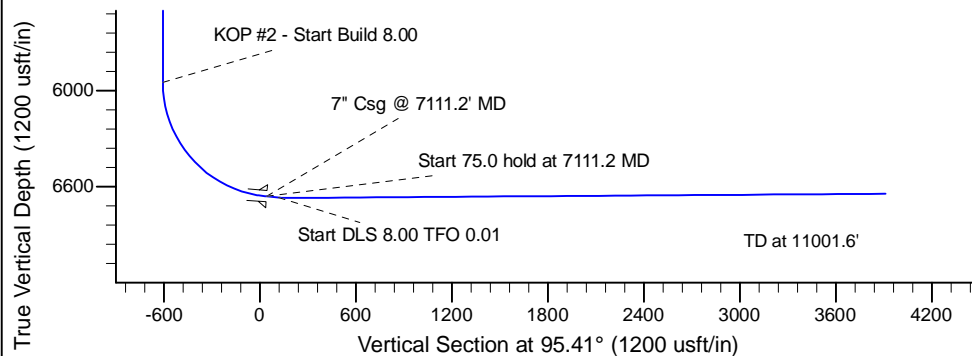
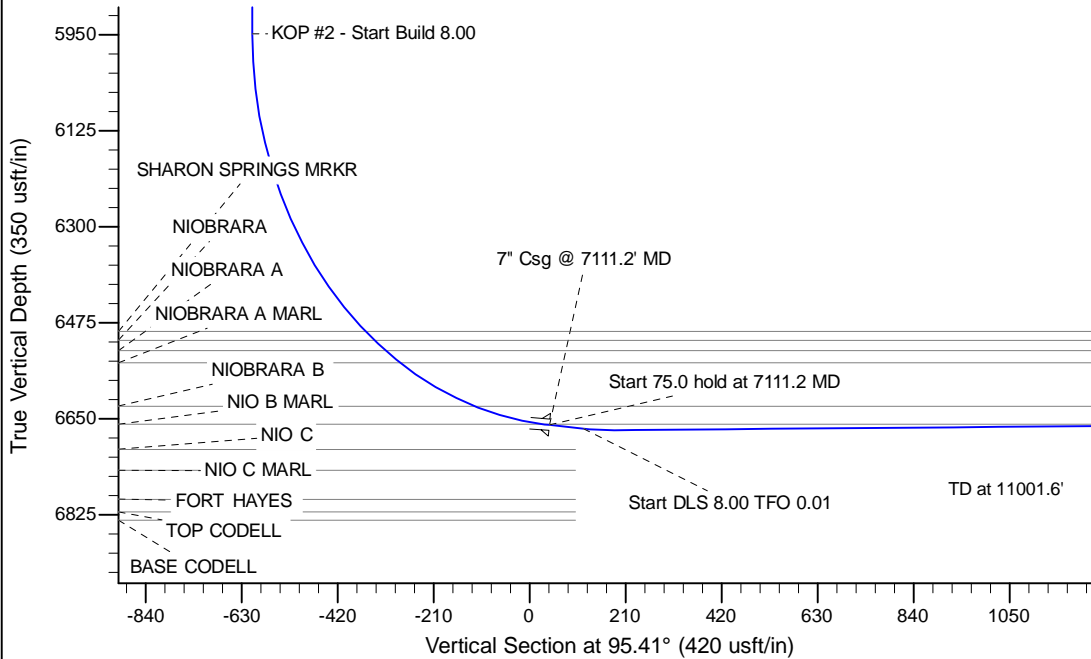
Project: Wattenberg Field
 Site: B (Sec.2-T05N-R64W) Weld County, CO
 Well: Cougar B02-68-1HN
 Wellbore: Original Drilling
 Design: APD - Rev 0

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 | 2440.2 | 16.00 | 236.88 | 2431.9 | -48.5 | -74.4 | 2.50 | 236.88 | -69.5 | |
| 4 | 4610.5 | 16.00 | 236.88 | 4518.1 | -375.5 | -575.6 | 0.00 | 0.00 | -537.7 | |
| 5 | 5250.7 | 0.00 | 0.00 | 5150.0 | -424.0 | -650.0 | 2.50 | 180.00 | -607.2 | |
| 6 | 6048.7 | 0.00 | 0.00 | 5948.0 | -424.0 | -650.0 | 0.00 | 0.00 | -607.2 | |
| 7 | 7111.2 | 85.00 | 89.30 | 6661.5 | -416.0 | 3.7 | 8.00 | 89.30 | 42.9 | |
| 8 | 7186.2 | 85.00 | 89.30 | 6668.0 | -415.1 | 78.4 | 0.00 | 0.00 | 117.2 | |
| 9 | 7253.7 | 90.40 | 89.30 | 6670.7 | -414.3 | 145.8 | 8.00 | 0.01 | 184.2 | |
| 10 | 11001.6 | 90.40 | 89.30 | 6644.7 | -368.5 | 3893.3 | 0.00 | 0.00 | 3910.7 | Cougar B02-68-1HN BHL 990'FNL, 660'FEL |



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Azimuths to Grid North
 True North: -0.63°
 Magnetic North: 7.89°

Magnetic Field
 Strength: 53069.6snT
 Dip Angle: 67.08°
 Date: 9/10/2012
 Model: IGRF200510

| WELL DETAILS: Cougar B02-68-1HN | | | |
|---------------------------------|------------|-----------|-------------|
| Ground Level: | 4640.0 | | |
| Northing | Easting | Latitude | Longitude |
| 1402466.57 | 3271628.34 | 40.434070 | -104.524200 |

| Plan: APD - Rev 0 (Cougar B02-68-1HN/Original Drilling) | |
|---|--------------------------------|
| Created By: Carrie Willers | Date: 16:23, September 11 2012 |
| Checked: _____ | Date: _____ |
| Reviewed: _____ | Date: _____ |
| Approved: _____ | Date: _____ |