

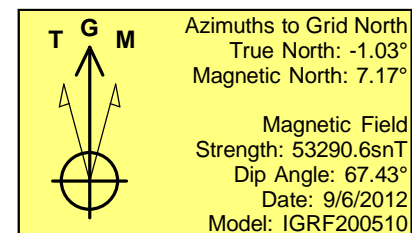
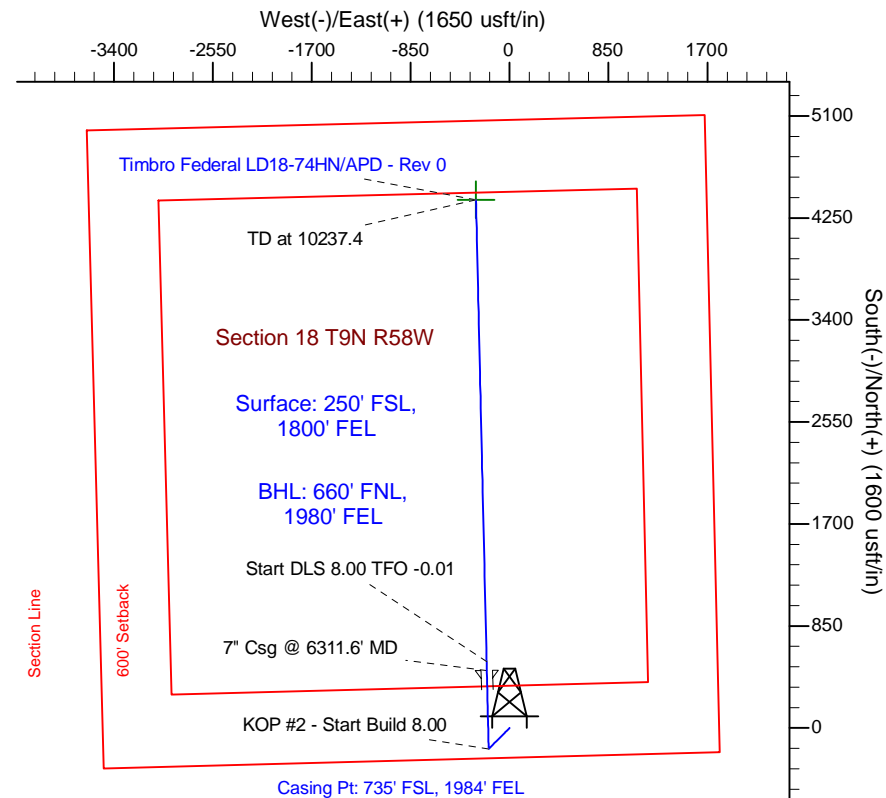
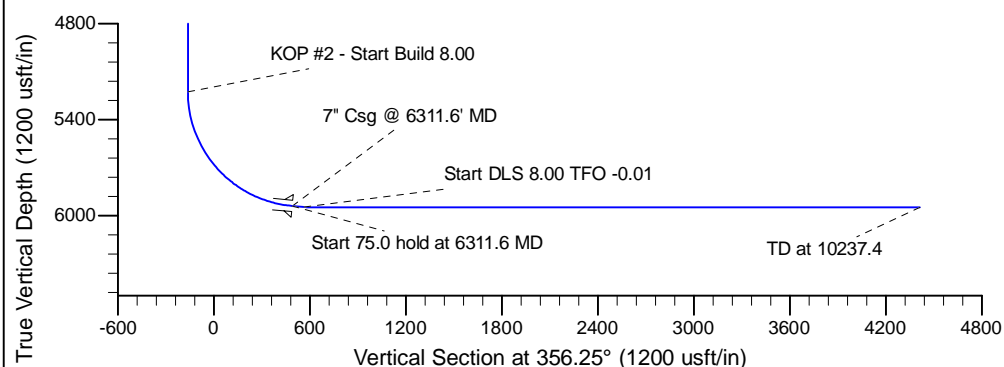
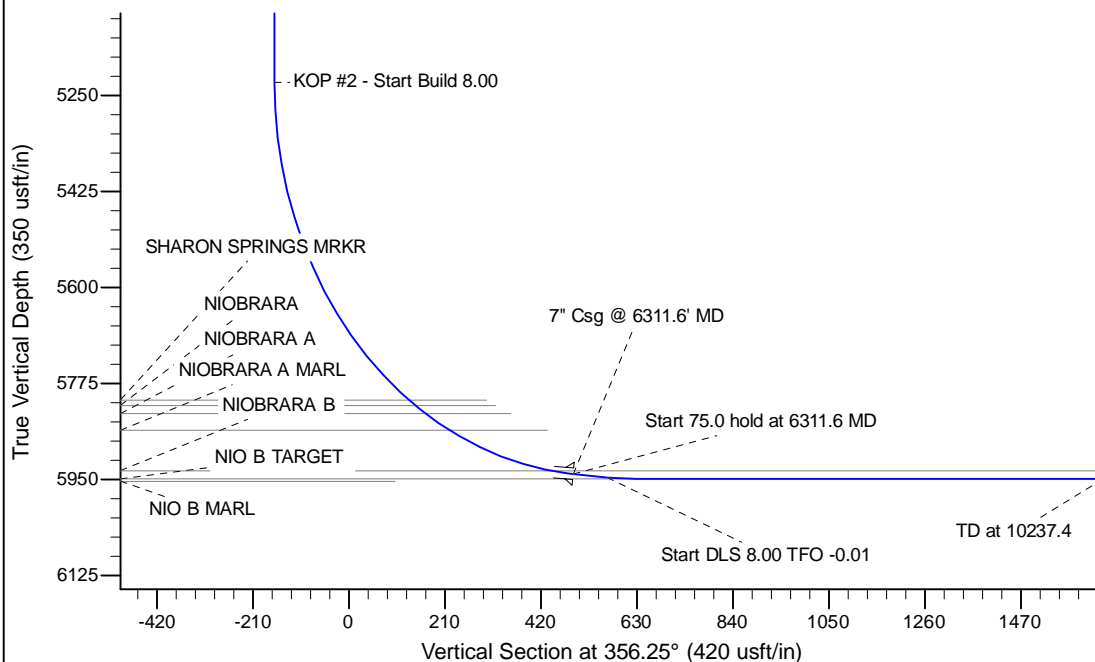
Project: Wattenberg Field
 Site: LD (Sec.18-T09N-R58W) Weld County, CO
 Well: Timbro Federal LD18-74HN
 Wellbore: Original Drilling
 Design: APD - Rev 0

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	2279.9	12.00	225.81	2276.4	-34.9	-35.9	2.50	225.81	-32.5	
4	3006.0	12.00	225.81	2986.6	-140.1	-144.1	0.00	0.00	-130.4	
5	3485.9	0.00	0.00	3463.0	-175.0	-180.0	2.50	180.00	-162.8	
6	5249.1	0.00	0.00	5226.2	-175.0	-180.0	0.00	0.00	-162.8	
7	6311.6	85.00	358.64	5939.7	478.6	-195.5	8.00	358.64	490.4	
8	6386.6	85.00	358.64	5946.3	553.3	-197.3	0.00	0.00	565.0	
9	6449.1	90.00	358.64	5949.0	615.7	-198.8	8.00	-0.01	627.4	
10	10237.4	90.00	358.64	5949.0	4402.9	-288.7	0.00	0.00	4412.3	Timbro Federal LD18-74HN BHL 660'FNL, 1980'FEL



WELL DETAILS: Timbro Federal LD18-74HN			
Ground Level: 4887.0		Latitude 40.744478	
Northing 1518037.00	Easting 3442172.25	Longitude -103.904172	
Plan: APD - Rev 0 (Timbro Federal LD18-74HN/Original Drilling)			
Created By: Carrie Willers		Date: 16:41, September 06 2012	
OK to submit with 2A as per Noble Drilling			
9/6/12 4:53			