

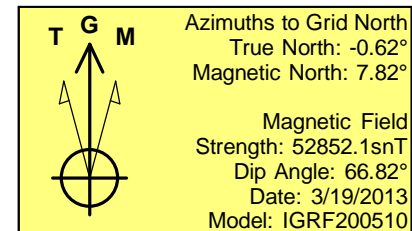
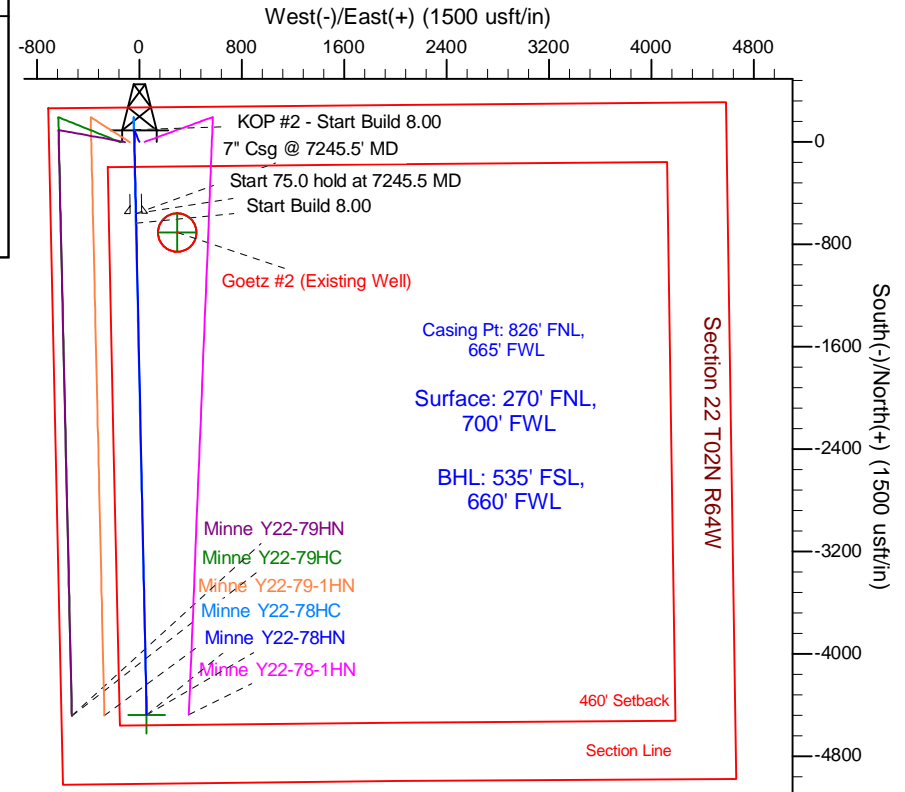
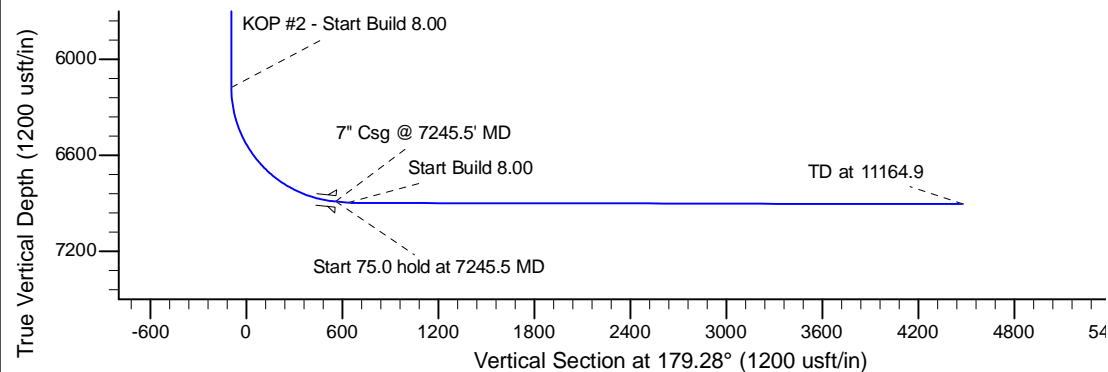
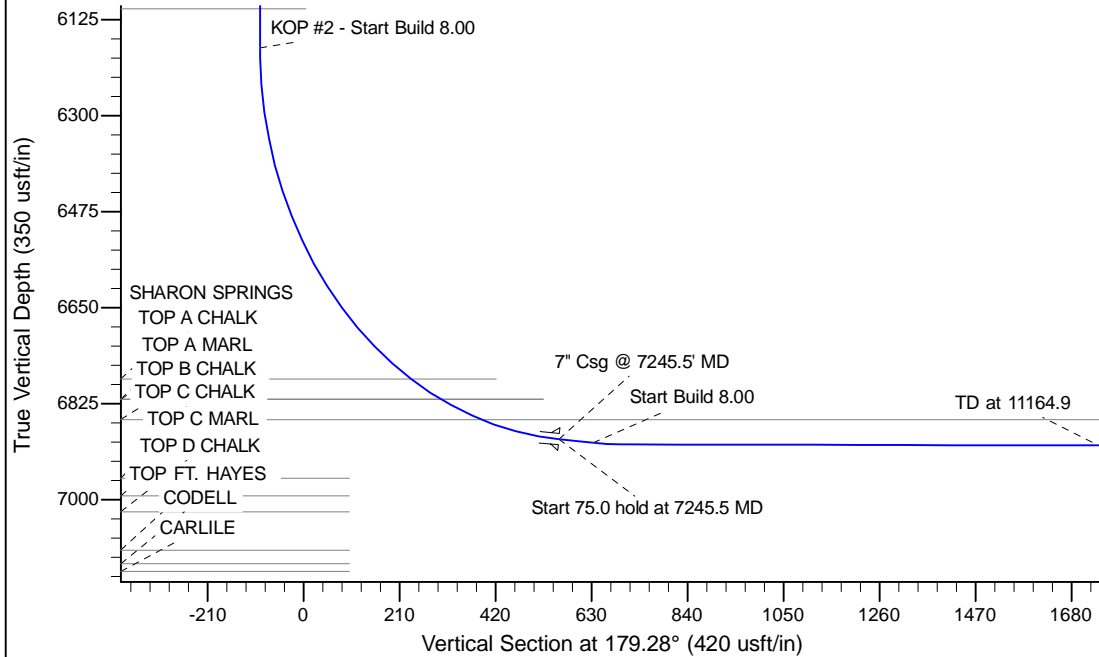
Project: Wattenberg Field
Site: Y (Sec.22-T02N-R64W) Weld County, CO
Well: Minne Y22-78HN
Wellbore: Original Drilling
Design: APD - Rev 0

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	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	2000.0	0.00	0.00	2000.0	0.0	0.0	0.00	0.00	0.0	
3	2537.8	10.76	337.17	2534.7	46.4	-19.5	2.00	337.17	-46.6	
4	2550.7	10.76	337.17	2547.3	48.6	-20.5	0.00	0.00	-48.9	
5	3088.5	0.00	0.00	3082.0	95.0	-40.0	2.00	180.00	-95.5	
6	6183.0	0.00	0.00	6176.5	95.0	-40.0	0.00	0.00	-95.5	
7	7245.5	85.00	178.79	6889.9	-558.6	-26.2	8.00	178.79	558.3	
8	7320.5	85.00	178.79	6896.5	-633.3	-24.6	0.00	0.00	633.0	
9	7381.7	89.90	178.79	6899.2	-694.5	-23.3	8.00	0.00	694.1	
10	11164.9	89.90	178.79	6905.8	-4476.8	56.6	0.00	0.00	4477.2	Minne Y22-78HN BHL 535' FSL, 660' FWL



WELL DETAILS: Minne Y22-78HN				
Ground Level: 4986.0				
0.0	0.0	Northing	Easting	Latitude
		1291813.44	3267172.26	40.130470
				Longitude
				-104.544490
Plan: APD - Rev 0 (Minne Y22-78HN/Original Drilling)				
Created By: Carrie Willers		Date: 14:36, March 20 2013		
Checked: _____		Date: _____		
Reviewed: _____		Date: _____		
Approved: _____		Date: _____		