

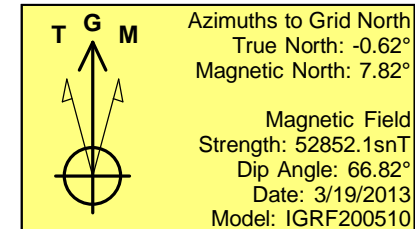
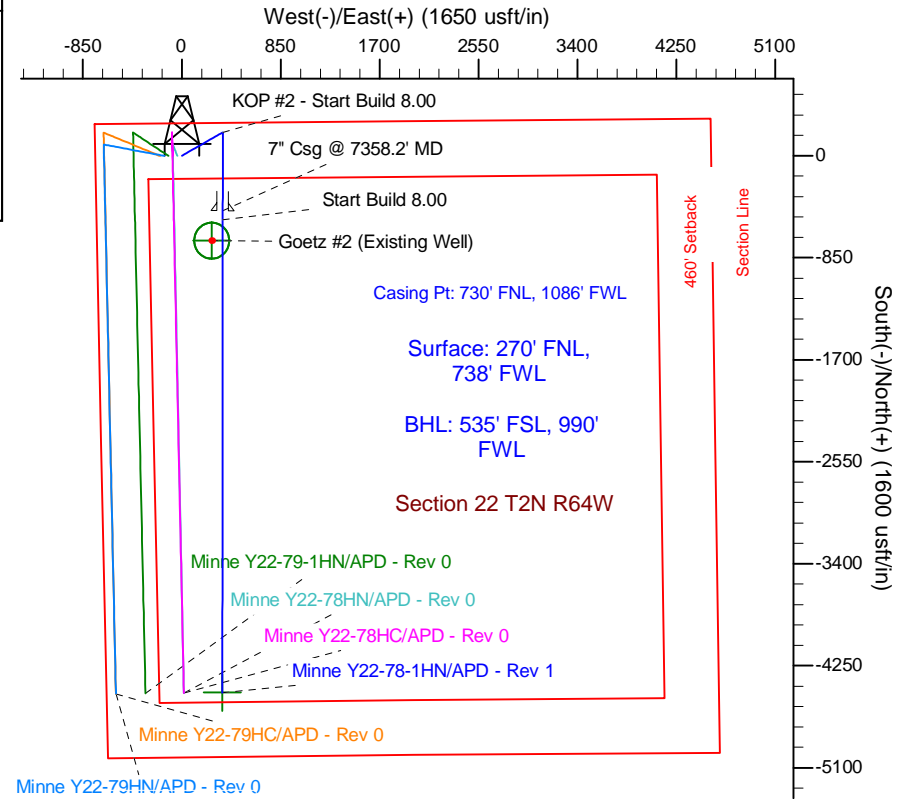
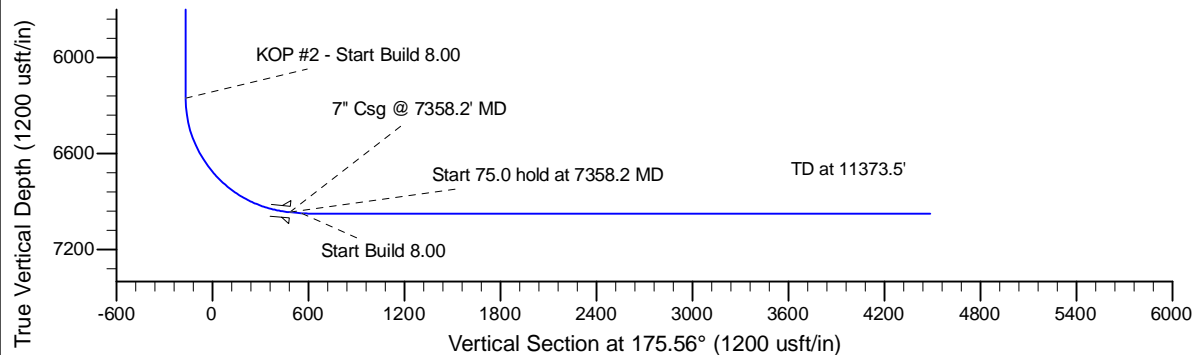
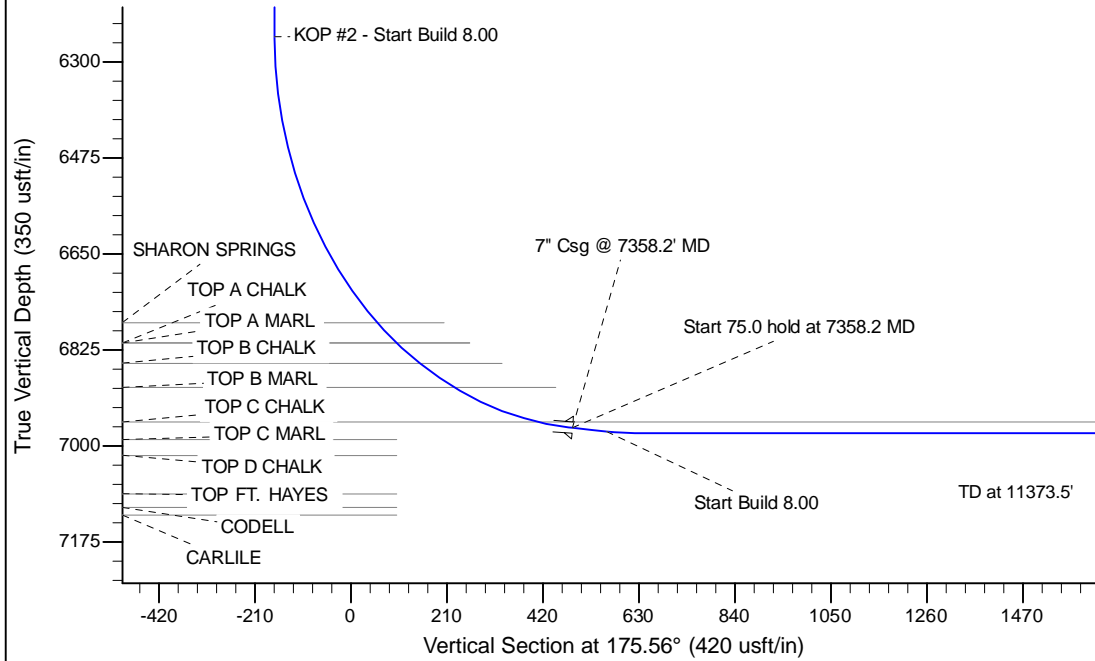
Project: Wattenberg Field  
Site: Y (Sec.22-T02N-R64W) Weld County, CO  
Well: Minne Y22-78-1HN  
Wellbore: Original Drilling  
Design: APD - Rev 1

# 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	1500.0	0.00	0.00	1500.0	0.0	0.0	0.00	0.00	0.0	
3	2200.3	14.01	61.01	2193.4	41.3	74.5	2.00	61.01	-35.4	
4	3159.1	14.01	61.01	3123.6	153.7	277.5	0.00	0.00	-131.8	
5	3859.4	0.00	0.00	3817.0	195.0	352.0	2.00	180.00	-167.2	
6	6295.7	0.00	0.00	6253.3	195.0	352.0	0.00	0.00	-167.2	
7	7358.2	85.00	180.06	6966.7	-458.8	351.4	8.00	180.06	484.6	
8	7433.2	85.00	180.06	6973.3	-533.5	351.3	0.00	0.00	559.1	
9	7495.7	90.00	180.06	6976.0	-595.9	351.2	8.00	0.00	621.3	
10	11373.5	90.00	180.06	6976.0	-4473.7	347.5	0.00	0.00	4487.2	Minne Y22-78-1HN BHL 535'FSL, 990'FWL



## WELL DETAILS: Minne Y22-78-1HN

Ground Level: 4986.0	Latitude 40.130470	Longitude -104.544350
Northing 1291813.86	Easting 3267211.41	

## Plan: APD - Rev 1 (Minne Y22-78-1HN/Original Drilling)

Created By: Carrie Willers	Date: 14:00, April 02 2013
Checked: _____	Date: _____
Reviewed: _____	Date: _____
Approved: _____	Date: _____