

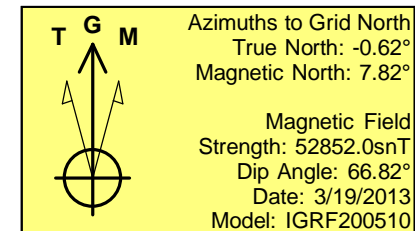
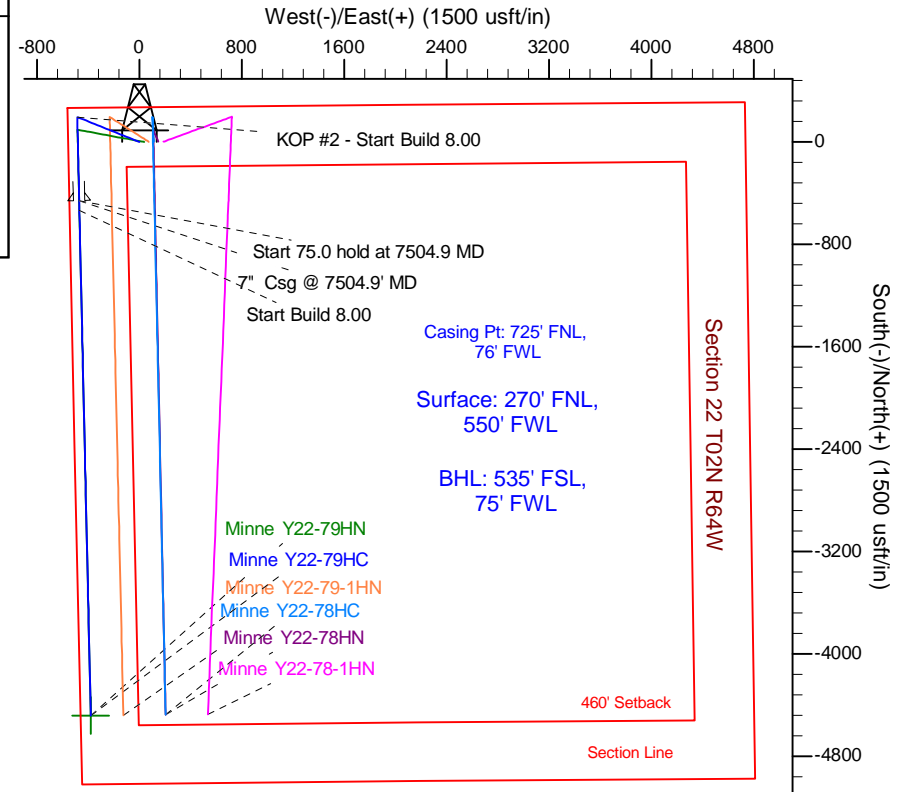
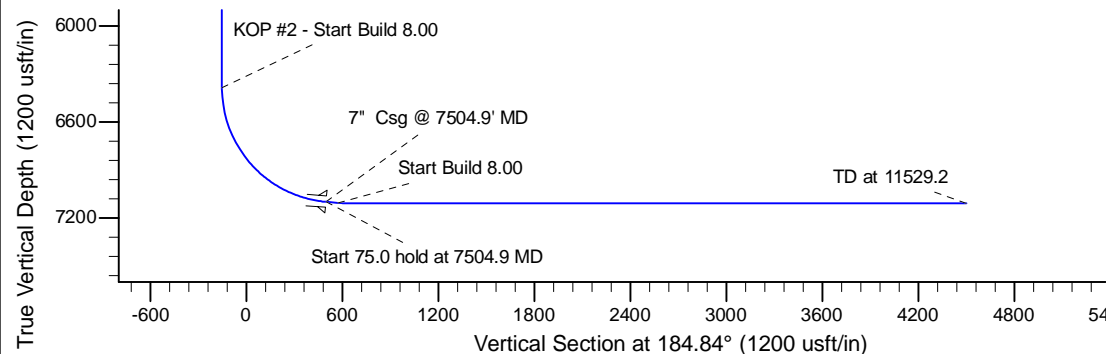
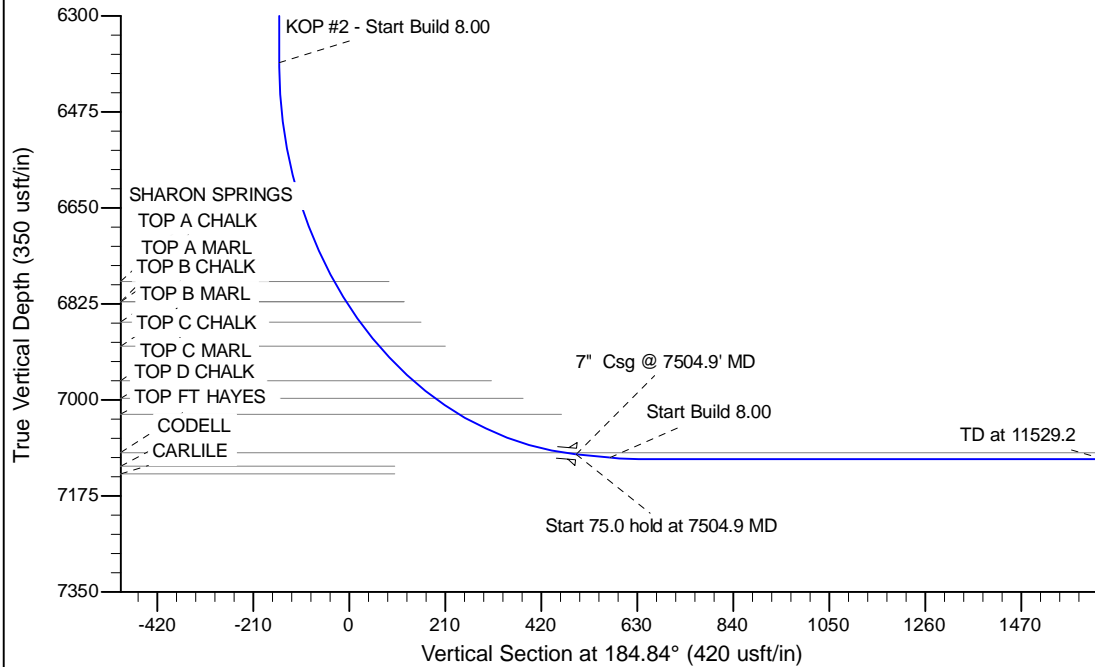
Project: Wattenberg Field
Site: Y (Sec.22-T02N-R64W) Weld County, CO
Well: Minne Y22-79HC
Wellbore: Original Drilling
Design: APD - Rev 0

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	1000.0	0.00	0.00	1000.0	0.0	0.0	0.00	0.00	0.0	
3	1700.0	14.00	291.90	1693.1	31.7	-79.0	2.00	291.90	-25.0	
4	3157.1	14.00	291.90	3106.9	163.3	-406.0	0.00	0.00	-128.4	
5	3857.2	0.00	0.00	3800.0	195.0	-485.0	2.00	180.00	-153.4	
6	6442.4	0.00	0.00	6385.3	195.0	-485.0	0.00	0.00	-153.4	
7	7504.9	85.00	178.71	7098.7	-458.6	-470.3	8.00	178.71	496.7	
8	7579.9	85.00	178.71	7105.3	-533.3	-468.6	0.00	0.00	571.0	
9	7642.4	90.00	178.71	7108.0	-595.7	-467.2	8.00	0.00	633.0	
10	11529.2	90.00	178.71	7108.0	-4481.5	-379.7	0.00	0.00	4497.6	Minne Y22-79HC BHL 535'FSL, 75'FWL



WELL DETAILS: Minne Y22-79HC

		Ground Level: 4985.0	
		Northing	Easting
0.0	0.0	1291811.84	3267024.07
		Latitude	Longitude
		40.130470	-104.545020

Plan: APD - Rev 0 (Minne Y22-79HC/Original Drilling)

Created By: Carrie Willers Date: 14:49, March 20 2013

Checked: _____ Date: _____

Reviewed: _____ Date: _____

Approved: _____ Date: _____