

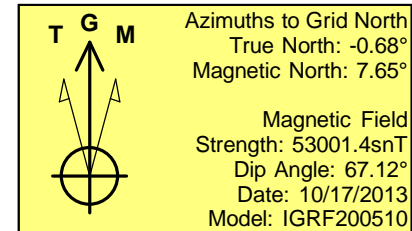
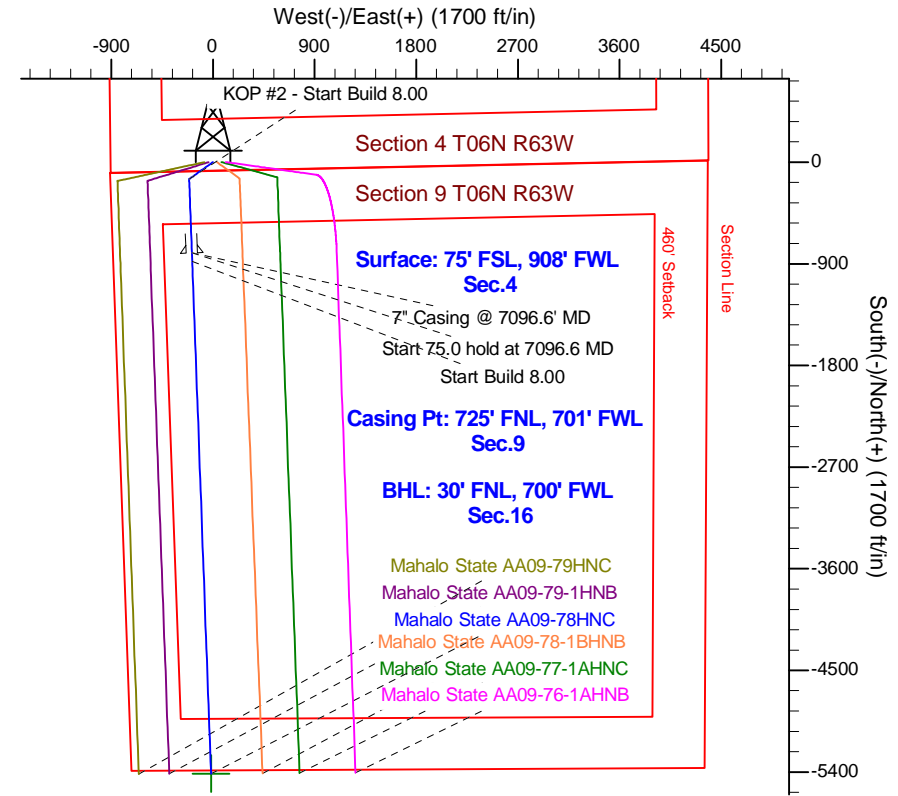
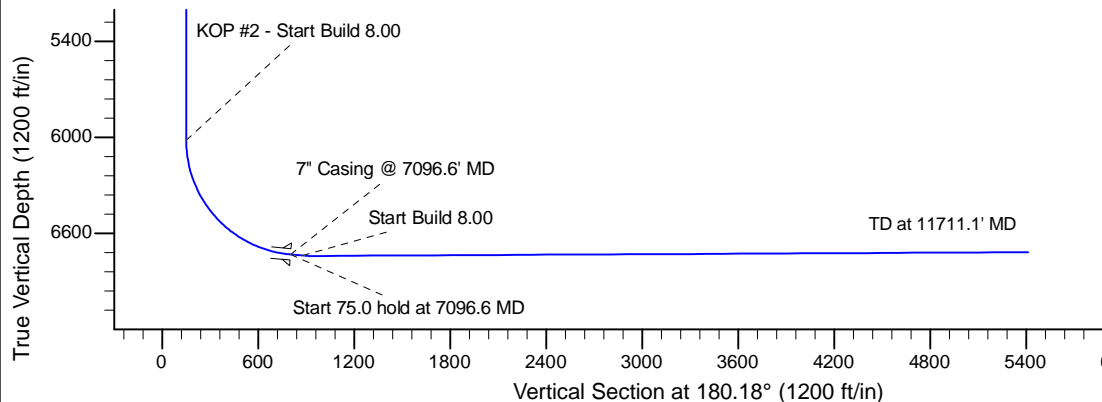
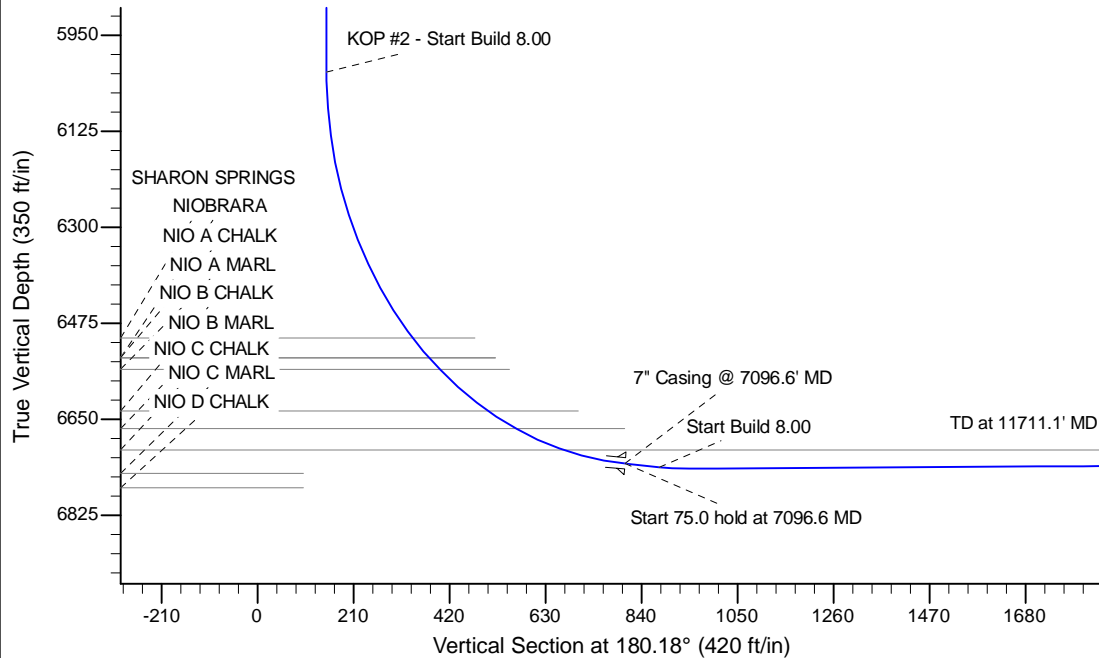
Project: Wattenberg Field
Site: AA (Sec.4-T06N-R63W) Weld County, CO
Well: Mahalo State AA09-78HNC
Wellbore: Original Drilling
Design: APD - Rev 1

Northern Region Drilling - Working

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	2200.5	8.01	234.46	2199.2	-16.2	-22.7	2.00	234.46	16.3	
4	3651.2	8.01	234.46	3635.8	-133.8	-187.3	0.00	0.00	134.3	
5	4051.8	0.00	0.00	4035.0	-150.0	-210.0	2.00	180.00	150.6	
6	6034.1	0.00	0.00	6017.3	-150.0	-210.0	0.00	0.00	150.6	
7	7096.6	85.00	177.89	6730.8	-803.3	-186.0	8.00	177.89	803.9	
8	7171.6	85.00	177.89	6737.3	-878.0	-183.2	0.00	0.00	878.6	
9	7237.8	90.30	177.89	6740.0	-944.1	-180.8	8.00	0.00	944.7	
10	11711.1	90.30	177.89	6716.6	-5414.3	-16.4	0.00	0.00	5414.4	Mahalo State AA09-78HNC BHL 30'FNL, 700'FWL



WELL DETAILS: Mahalo State AA09-78HNC

Ground Level: 4698.0				
	Northing	Easting	Latitude	Longitude
0.0	0.0	1429913.46	3292527.15	40.508750 -104.447960

Plan: APD - Rev 1 (Mahalo State AA09-78HNC/Original Drilling)

Created By: Shailey Jewell	Date: 16:22, September 09 2014
Checked: _____	Date: _____
Reviewed: _____	Date: _____
Approved: _____	Date: _____