

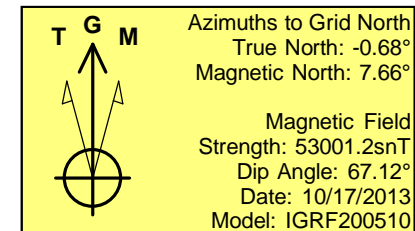
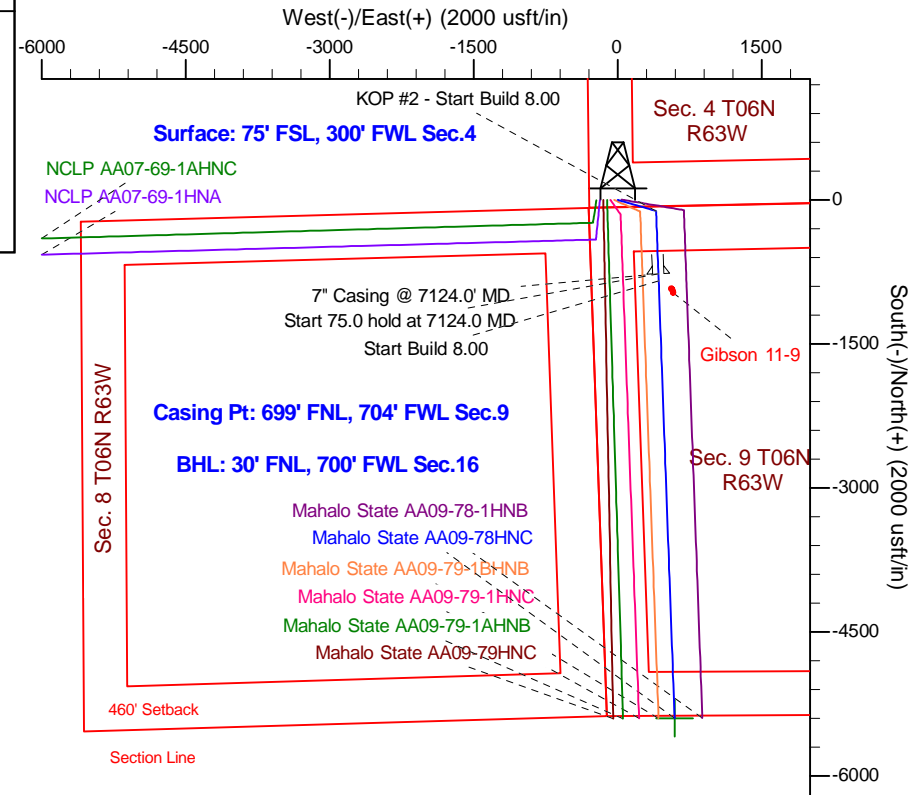
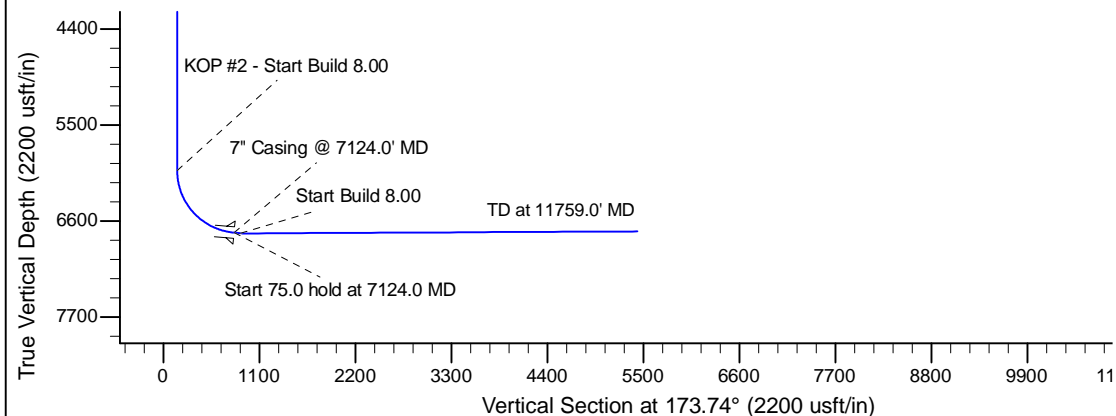
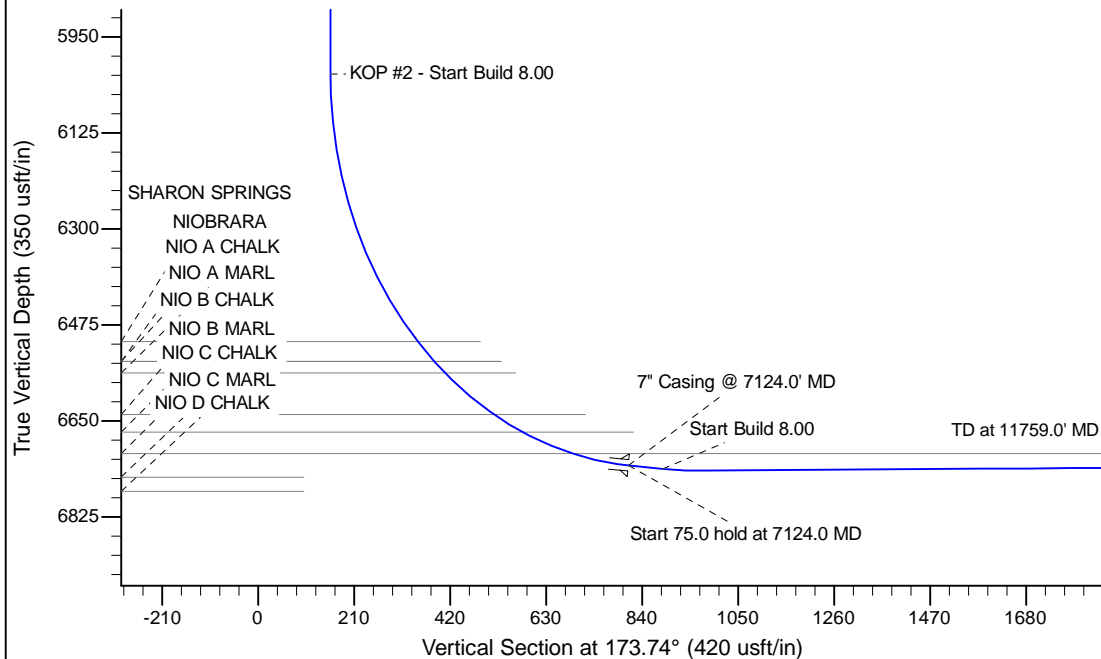
Project: Wattenberg Field
Site: AA (Sec.4-T06N-R63W) Weld County, CO
Well: Mahalo State AA09-78HNC
Wellbore: Original Drilling
Design: APD - Rev 0

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	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1200.0	0.00	0.00	1200.0	0.0	0.0	0.00	0.00	0.0	
3	1901.9	14.04	106.04	1894.9	-23.6	82.2	2.00	106.04	32.5	
4	2912.3	14.04	106.04	2875.1	-91.4	317.8	0.00	0.00	125.5	
5	3614.2	0.00	0.00	3570.0	-115.0	400.0	2.00	180.00	157.9	
6	6061.5	0.00	0.00	6017.3	-115.0	400.0	0.00	0.00	157.9	
7	7124.0	85.00	177.91	6730.8	-768.3	423.8	8.00	177.91	810.0	
8	7199.0	85.00	177.91	6737.3	-843.0	426.5	0.00	0.00	884.5	
9	7265.2	90.30	177.91	6740.0	-909.1	428.9	8.00	0.00	950.5	
10	11759.0	90.30	177.91	6716.5	-5399.8	592.4	0.00	0.00	5432.2	Mahalo State AA09-78HNC BHL 30'FNL, 700'FWL



WELL DETAILS: Mahalo State AA09-78HNC				
Ground Level: 4707.0				
0.0	0.0	Northing 1429898.95	Easting 3291918.32	Latitude 40.508730 Longitude -104.450150
Plan: APD - Rev 0 (Mahalo State AA09-78HNC/Original Drilling)				
Created By: Shailey Jewell		Date: 14:09, December 13 2013		
Checked: _____		Date: _____		
Reviewed: _____		Date: _____		
Approved: _____		Date: _____		