

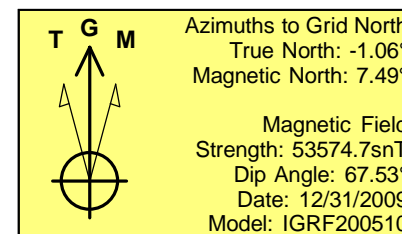
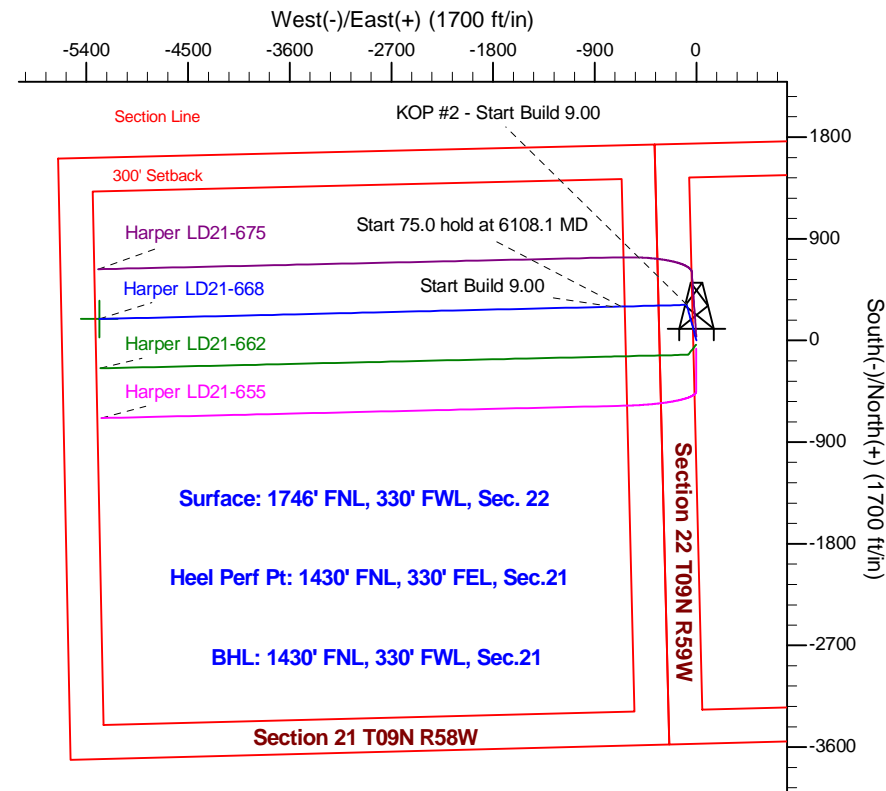
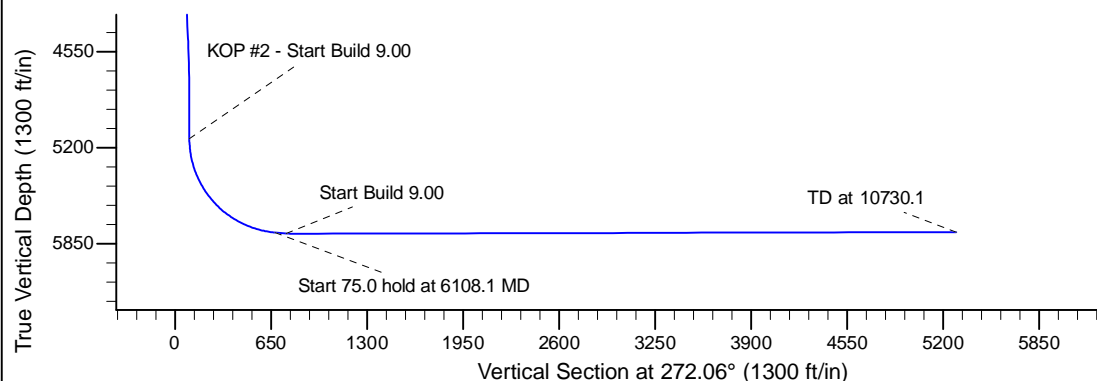
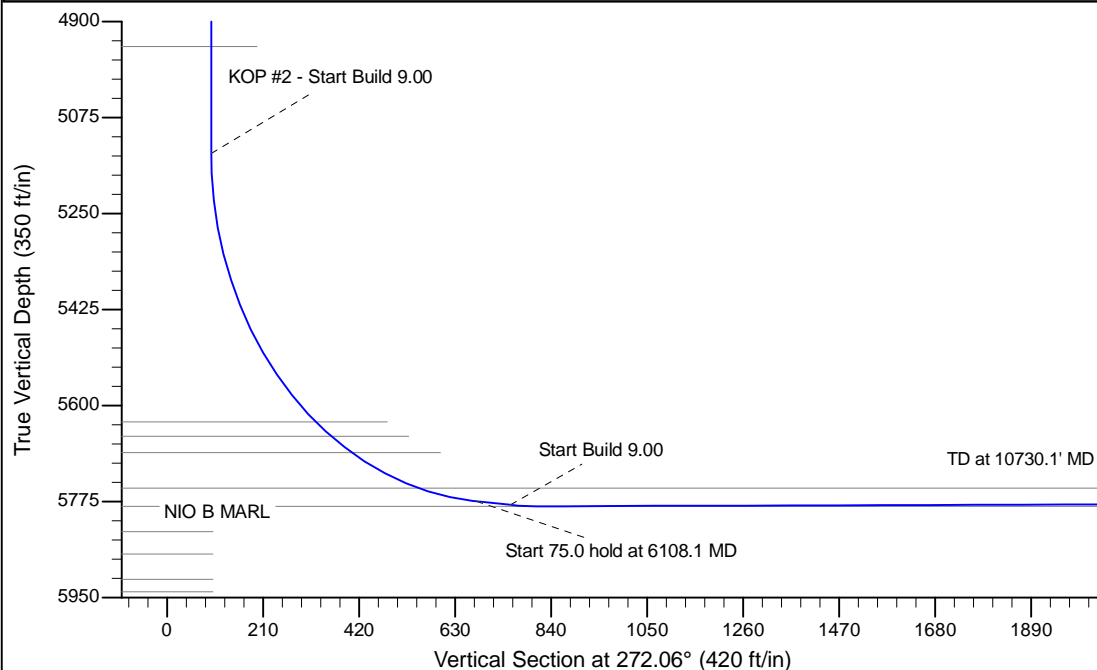
Project: Wattenberg Field
 Site: LD (Sec.20-T09N-R58W) Weld County, CO
 Well: Harper LD21-668
 Wellbore: Original Drilling
 Design: APD - Rev 0

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	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	2300.0	0.00	0.00	2300.0	0.0	0.0	0.00	0.00	0.0	
3	2729.5	8.59	344.90	2727.9	31.0	-8.4	2.00	344.90	9.5	
4	4483.3	8.59	344.90	4462.1	284.0	-76.6	0.00	0.00	86.8	
5	4912.9	0.00	0.00	4890.0	315.0	-85.0	2.00	180.00	96.3	
6	5163.7	0.00	0.00	5140.8	315.0	-85.0	0.00	0.00	96.3	
7	6108.1	85.00	268.63	5775.0	301.1	-666.0	9.00	268.63	676.4	
8	6183.1	85.00	268.63	5781.5	299.3	-740.7	0.00	0.00	751.0	
9	6240.4	90.15	268.63	5784.0	297.9	-797.8	9.00	0.00	808.0	
10	10730.1	90.15	268.63	5772.2	190.6	-5286.3	0.00	0.00	5289.7	Harper LD21-668 BHL 1430'FNL, 330'FWL



WELL DETAILS: Harper LD21-668					
Ground Level: 4776.0					
0.0	0.0	Northing	Easting	Latitude	Longitude
		1516364.38	3454902.44	40.739250	-103.858350
Plan: APD - Rev 0 (Harper LD21-668/Original Drilling)					
Created By: Shailey Jewell			Date: 16:10, March 15 2016		
Checked: _____			Date: _____		
Reviewed: _____			Date: _____		
Approved: _____			Date: _____		