

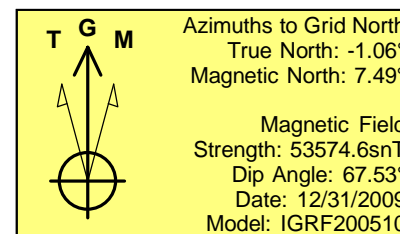
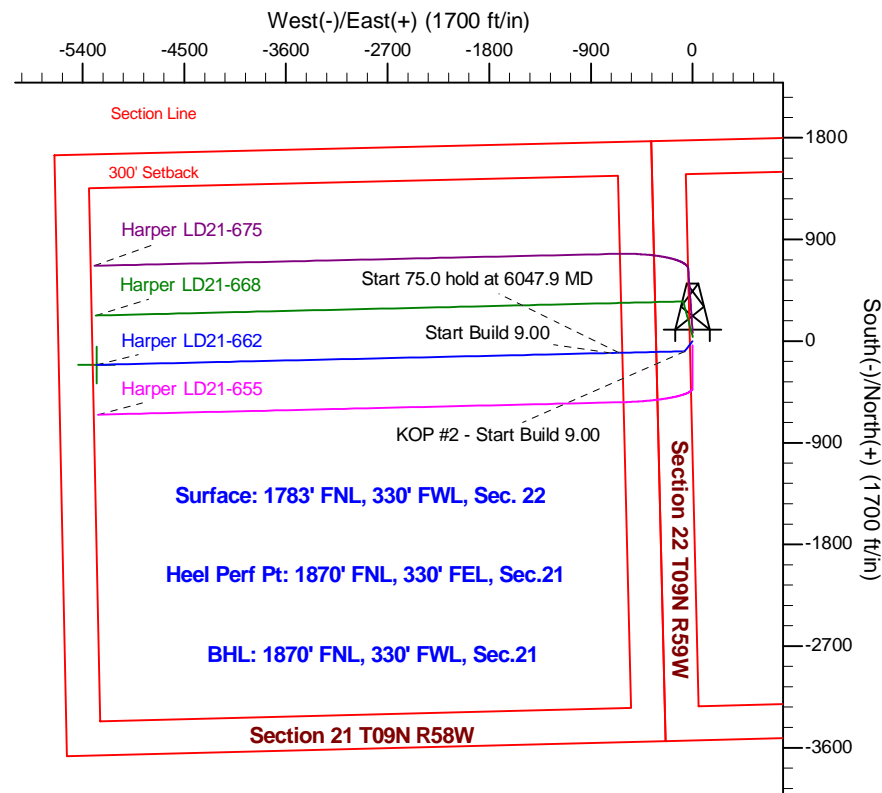
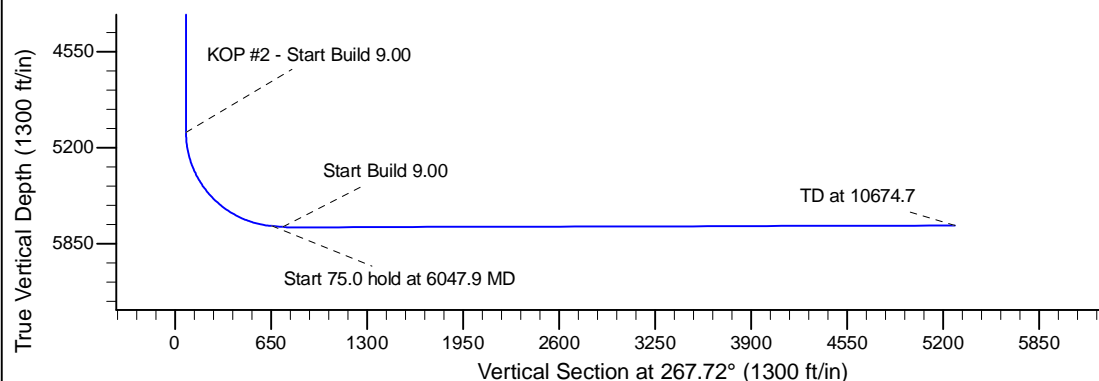
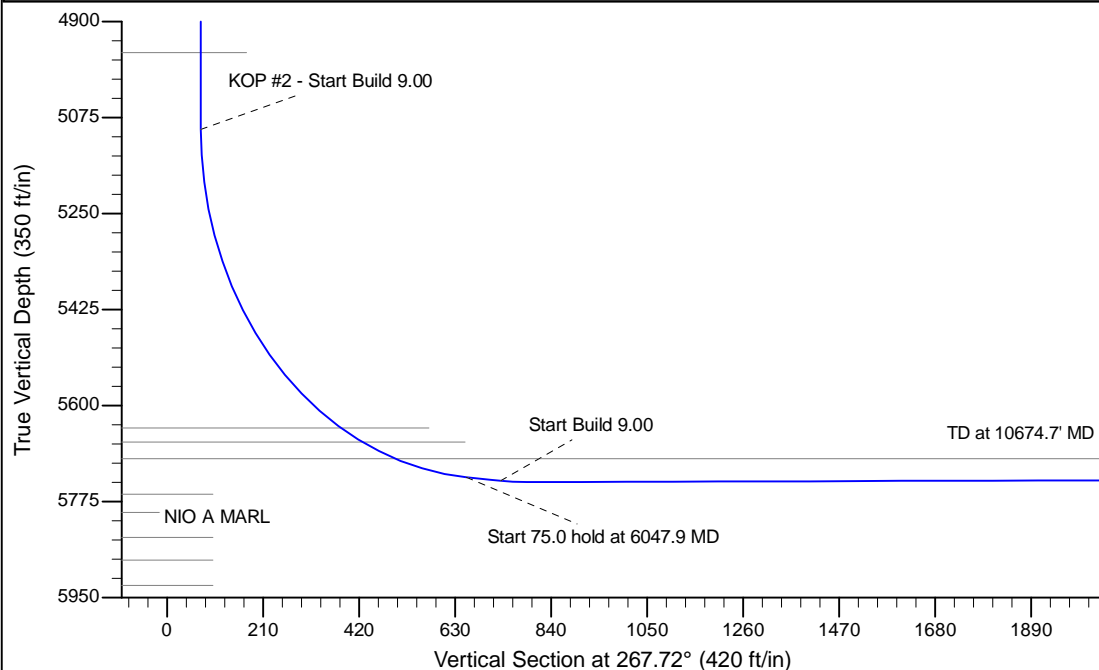
Project: Wattenberg Field
 Site: LD (Sec.20-T09N-R58W) Weld County, CO
 Well: Harper LD21-662
 Wellbore: Original Drilling
 Design: APD - Rev 0

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	2500.0	0.00	0.00	2500.0	0.0	0.0	0.00	0.00	0.0	
3	2901.9	8.04	217.87	2900.5	-22.2	-17.3	2.00	217.87	18.1	
4	3314.8	8.04	217.87	3309.5	-67.8	-52.7	0.00	0.00	55.4	
5	3716.7	0.00	0.00	3710.0	-90.0	-70.0	2.00	180.00	73.5	
6	5103.5	0.00	0.00	5096.8	-90.0	-70.0	0.00	0.00	73.5	
7	6047.9	85.00	268.68	5731.0	-103.4	-651.0	9.00	268.68	654.6	
8	6122.9	85.00	268.68	5737.5	-105.1	-725.7	0.00	0.00	729.3	
9	6180.2	90.15	268.68	5740.0	-106.4	-782.8	9.00	0.00	786.4	
10	10674.7	90.15	268.68	5728.2	-210.1	-5276.2	0.00	0.00	5280.3	Harper LD21-662 BHL 1870'FNL, 330'FWL



WELL DETAILS: Harper LD21-662					
Ground Level: 4777.0					
0.0	0.0	Northing	Easting	Latitude	Longitude
		1516327.89	3454900.35	40.739150	-103.858360
Plan: APD - Rev 0 (Harper LD21-662/Original Drilling)					
Created By: Shailey Jewell			Date: 15:57, March 15 2016		
Checked: _____			Date: _____		
Reviewed: _____			Date: _____		
Approved: _____			Date: _____		