

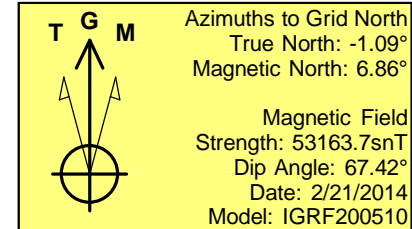
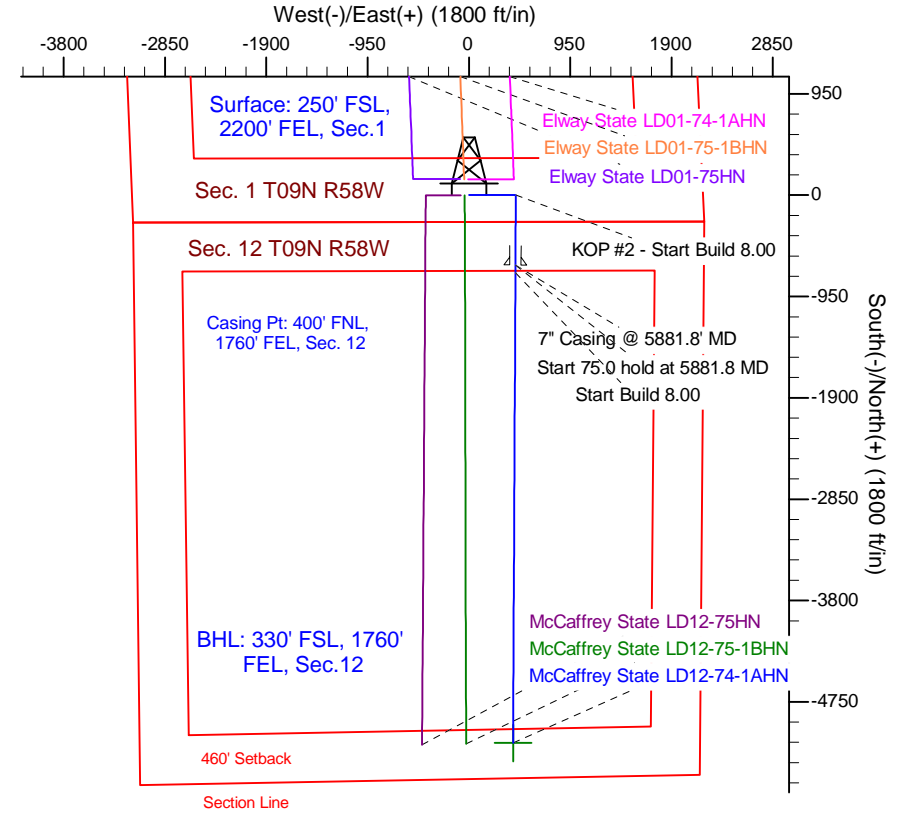
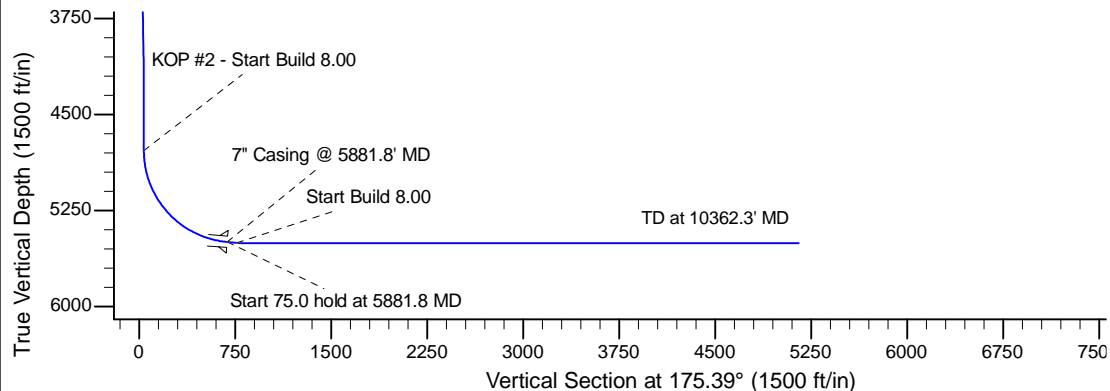
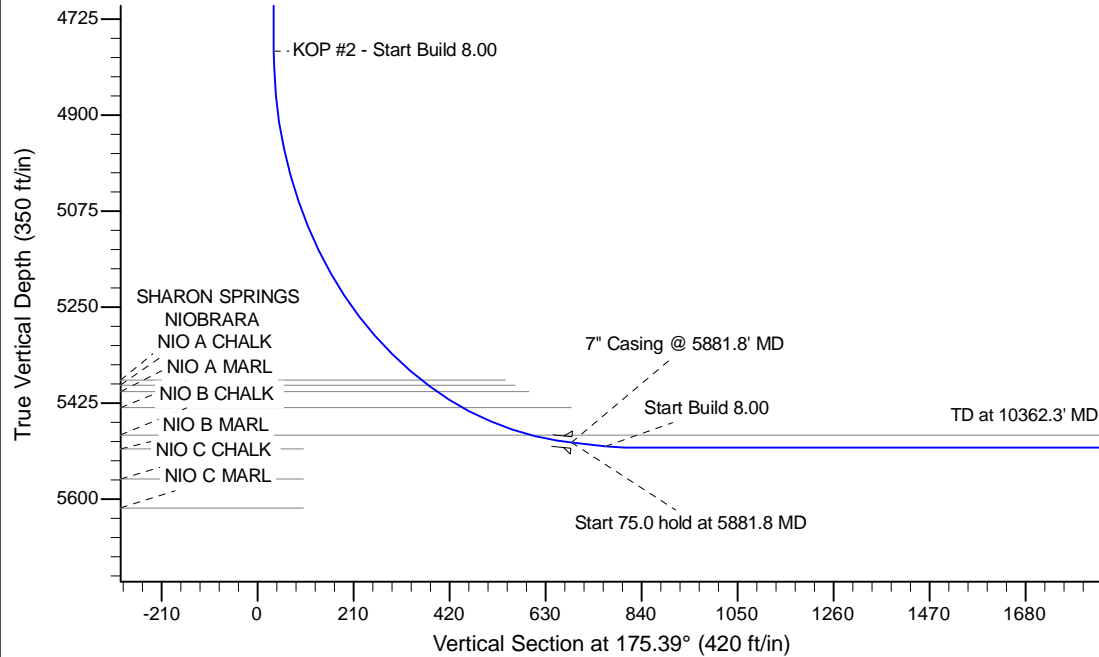
Project: Wattenberg Field
 Site: LD (Sec.1-T09N-R58W) Weld County, CO
 Well: McCaffrey State LD12-74-1AHN
 Wellbore: Original Drilling
 Design: APD - Rev 1

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	1500.0	0.00	0.00	1500.0	0.0	0.0	0.00	0.00	0.0	
3	2001.6	10.03	90.00	1999.1	0.0	43.8	2.00	90.00	3.5	
4	4024.4	10.03	90.00	3990.9	0.0	396.2	0.00	0.00	31.8	
5	4526.0	0.00	0.00	4490.0	0.0	440.0	2.00	180.00	35.3	
6	4819.3	0.00	0.00	4783.3	0.0	440.0	0.00	0.00	35.3	
7	5881.8	85.00	180.29	5496.7	-653.8	436.7	8.00	180.29	686.7	
8	5956.8	85.00	180.29	5503.3	-728.5	436.3	0.00	0.00	761.2	
9	6019.3	90.00	180.29	5506.0	-790.9	436.0	8.00	0.00	823.4	
0	10362.3	90.00	180.29	5506.0	-5133.8	413.7	0.00	0.00	5150.4	McCaffrey State LD12-74-1AHN BHL 330'FSL, 1760'FEL



WELL DETAILS: McCaffrey State LD12-74-1AHN					
Ground Level: 4633.0					
0.0	0.0	Northing 1529236.51	Easting 3467986.09	Latitude 40.773900	Longitude -103.810260
Plan: APD - Rev 1 (McCaffrey State LD12-74-1AHN/Original Drilling)					
Created By: Shailey Jewell			Date: 9:47, August 11 2014		
OK to submit with 2A as per Noble Drilling 8/11/2014 10:06					