

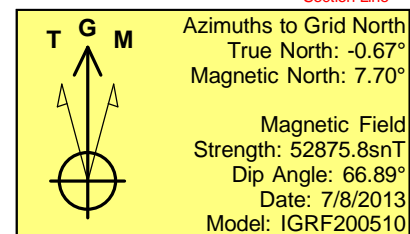
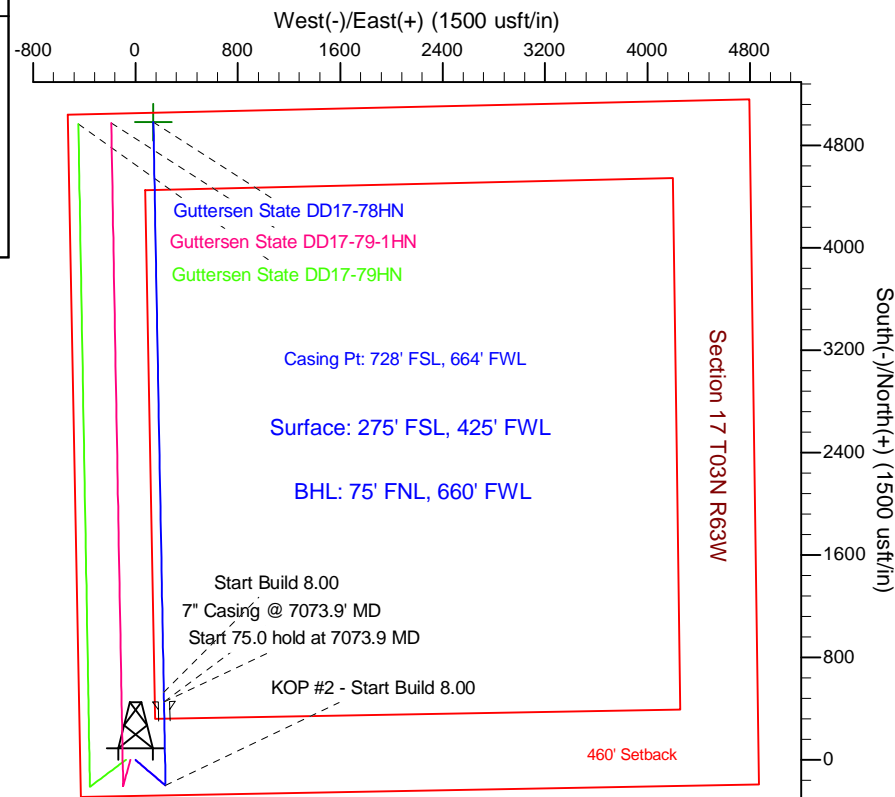
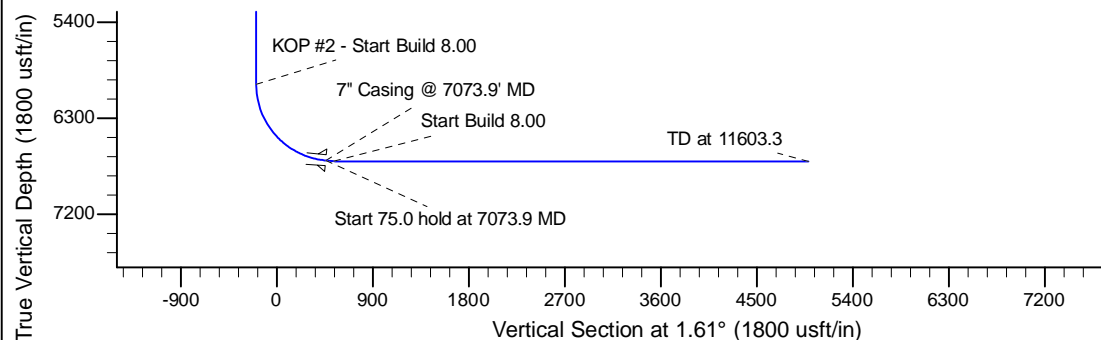
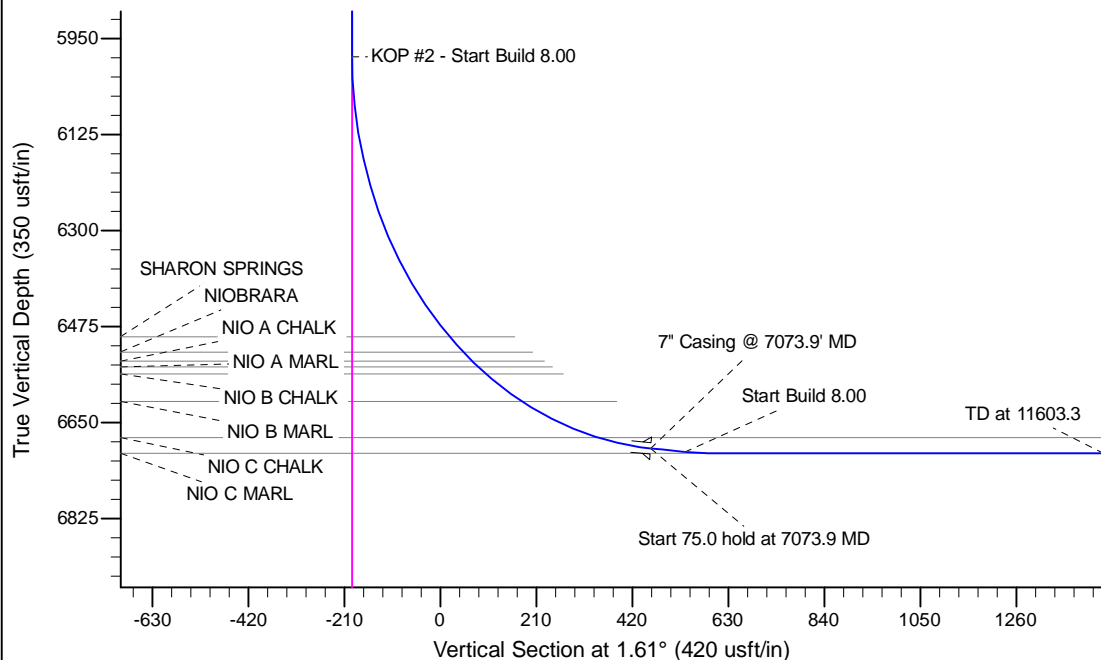
Project: Wattenberg Field
 Site: DD (Sec.17-T03N-R63W) Weld County, CO
 Well: Guttersen State DD17-78HN
 Wellbore: Original Drilling #2
 Design: APD - Rev 2 (Sidetrack)

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	1500.0	0.00	0.00	1500.0	0.0	0.0	0.00	0.00	0.0	
3	2102.7	12.05	130.40	2098.3	-40.9	48.1	2.00	130.40	-39.6	
4	2975.4	12.05	130.40	2951.7	-159.1	186.9	0.00	0.00	-153.7	
5	3578.1	0.00	0.00	3550.0	-200.0	235.0	2.00	180.00	-193.3	
6	6011.4	0.00	0.00	5983.3	-200.0	235.0	0.00	0.00	-193.3	
7	7073.9	85.00	358.95	6696.7	453.7	223.1	8.00	358.95	459.8	
8	7148.9	85.00	358.95	6703.3	528.4	221.7	0.00	0.00	534.4	
9	7211.4	90.00	358.95	6706.0	590.8	220.6	8.00	0.00	596.8	
10	11603.3	90.00	358.95	6706.0	4982.0	140.4	0.00	0.00	4983.9	Guttersen State DD17-78HN BHL 75'FNL & 660'FWL



WELL DETAILS: Guttersen State DD17-78HN

Ground Level: 4820.0			
0.0	0.0	Northing	Eastng
1324248.49	3287756.87	Latitude	Longitude
40.218870	-104.469530		

Plan: APD - Rev 2 (Sidetrack) (Guttersen State DD17-78HN/Original Drilling #2)

Created By: Shailey Jewell Date: 11:53, July 26 2013
 Checked: _____ Date: _____
 Reviewed: _____ Date: _____
 Approved: _____ Date: _____