

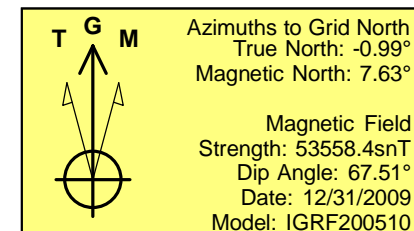
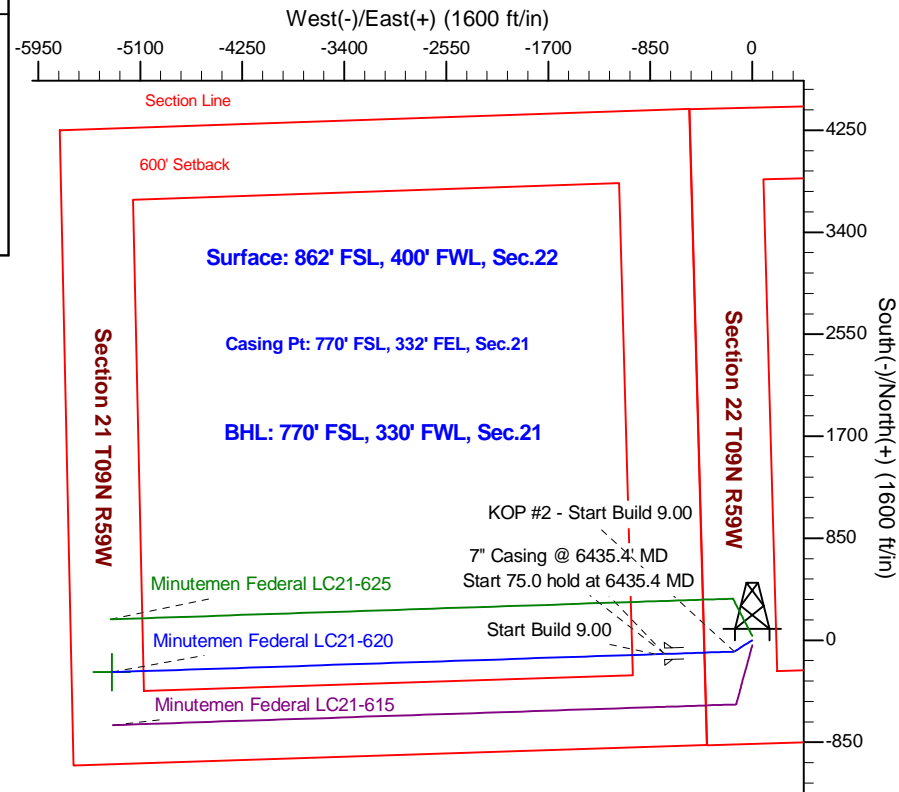
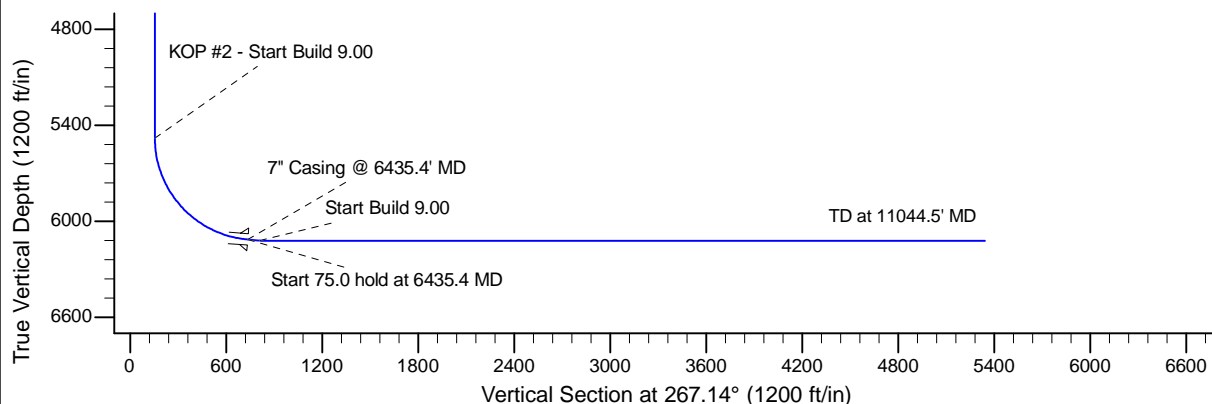
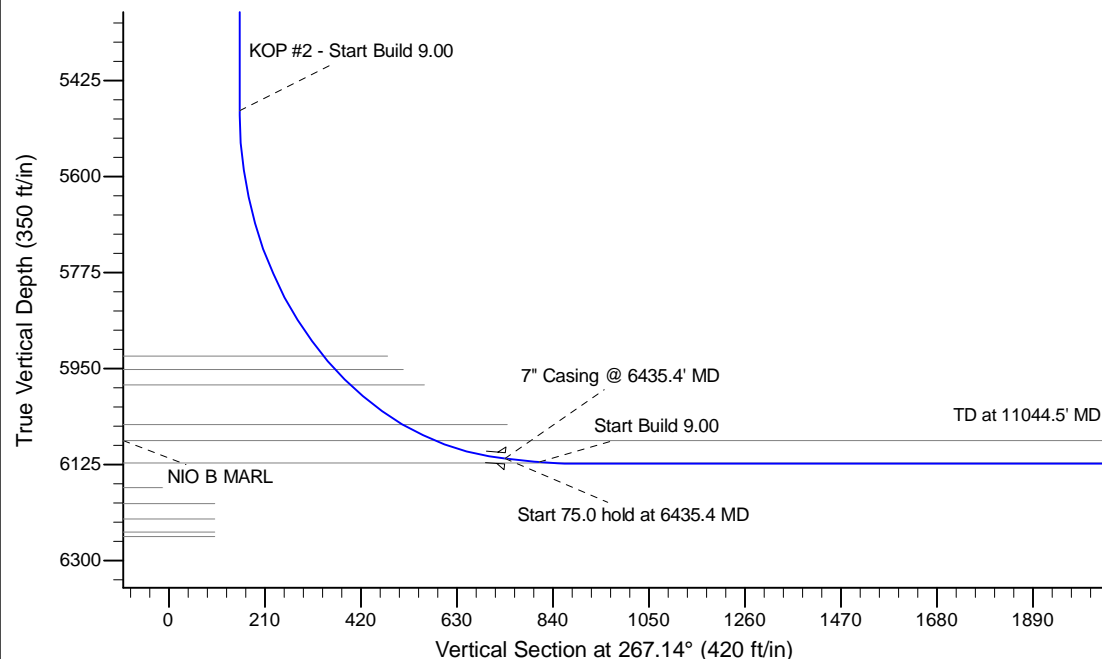
Project: Wattenberg Field
 Site: LC (Sec.12-T09N-R59W) Weld County, CO
 Well: Minutemen Federal LC21-620
 Wellbore: Original Drilling
 Design: APD - Rev 0

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	2901.8	8.04	237.65	2900.5	-15.1	-23.8	2.00	237.65	24.5	
4	3769.3	8.04	237.65	3759.5	-79.9	-126.2	0.00	0.00	130.1	
5	4171.2	0.00	0.00	4160.0	-95.0	-150.0	2.00	180.00	154.5	
6	5491.0	0.00	0.00	5479.8	-95.0	-150.0	0.00	0.00	154.5	
7	6435.4	85.00	268.11	6114.0	-114.2	-730.8	9.00	268.11	735.6	
8	6510.4	85.00	268.11	6120.6	-116.6	-805.5	0.00	0.00	810.3	
9	6566.0	90.00	268.11	6123.0	-118.5	-860.9	9.00	0.00	865.8	
10	11044.5	90.00	268.11	6123.0	-266.3	-5337.0	0.00	0.00	5343.6	Minutemen Federal LC21-620 BHL 770'FSL, 330'FWL



WELL DETAILS: Minutemen Federal LC21-620

Ground Level: 4877.0			
Northing	Easting	Latitude	Longitude
0.0	0.0	1512883.49	3423452.38
		40.731240	-103.972040

Plan: APD - Rev 0 (Minutemen Federal LC21-620/Original Drilling)

Created By: Shailey Jewell Date: 10:50, August 21 2015
 Checked: _____ Date: _____
 Reviewed: _____ Date: _____
 Approved: _____ Date: _____