

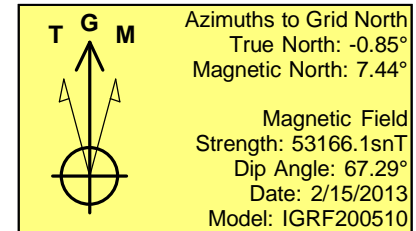
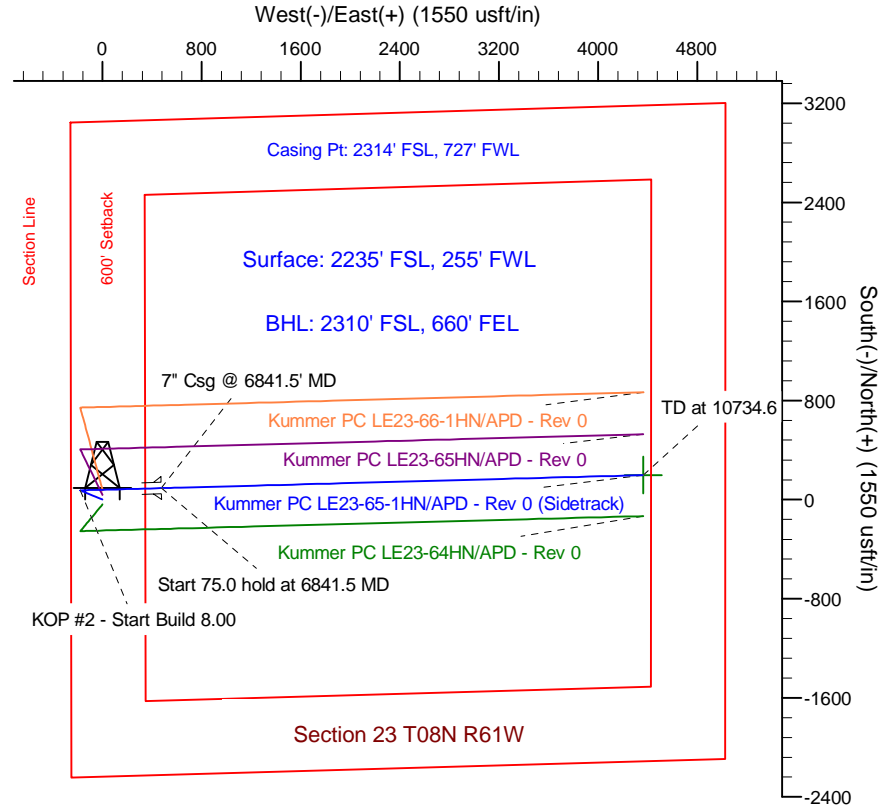
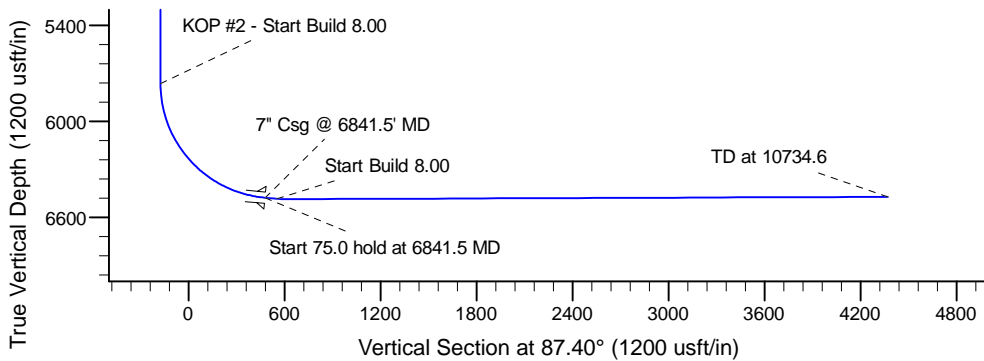
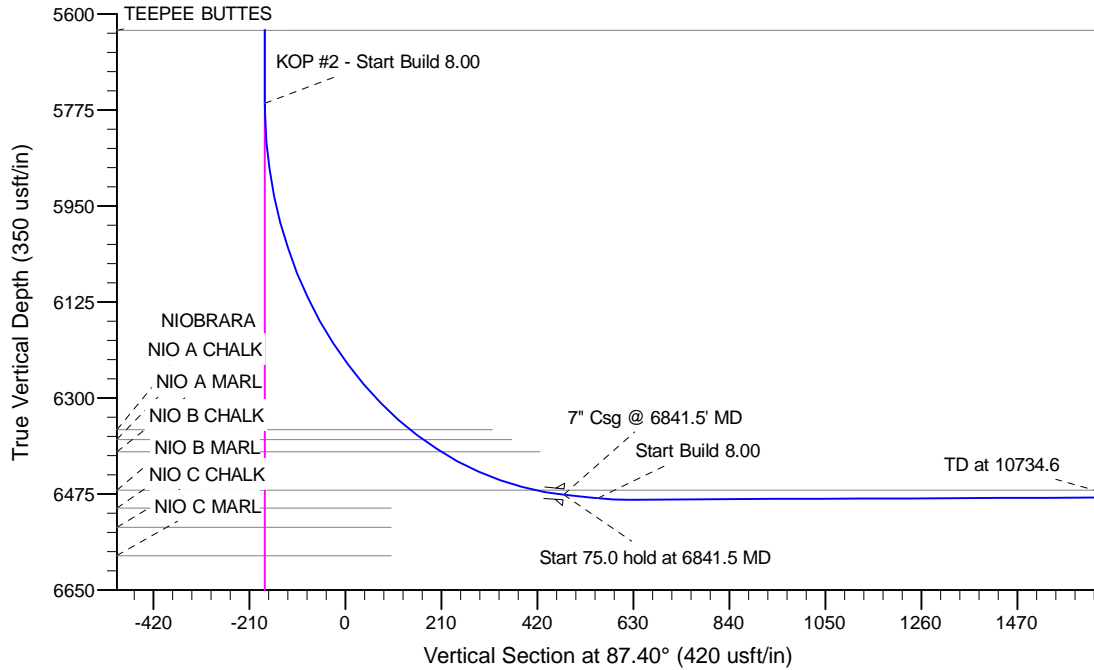
Project: Wattenberg Field
Site: LE (Sec.23-T08N-R61W) Weld County, CO
Well: Kummer PC LE23-65-1HN
Wellbore: Original Drilling
Design: APD - Rev 0 (Sidetrack)

Northern Region Drilling

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	2500.0	0.00	0.00	2500.0	0.0	0.0	0.00	0.00	0.0	
3	3101.1	12.02	292.62	3096.7	24.2	-58.0	2.00	292.62	-56.8	
4	3434.0	12.02	292.62	3422.3	50.8	-122.0	0.00	0.00	-119.6	
5	4035.1	0.00	0.00	4019.0	75.0	-180.0	2.00	180.00	-176.4	
6	5779.0	0.00	0.00	5762.9	75.0	-180.0	0.00	0.00	-176.4	
7	6841.5	85.00	88.45	6476.4	92.7	473.5	8.00	88.45	477.2	
8	6916.5	85.00	88.45	6482.9	94.7	548.2	0.00	0.00	552.0	
9	6981.7	90.22	88.45	6485.6	96.5	613.4	8.00	0.00	617.1	
10	10734.6	90.22	88.45	6471.2	197.9	4364.9	0.00	0.00	4369.4	Kummer PC LE23-65-1HN BHL 2310'FSL, 660'FEL



WELL DETAILS: Kummer PC LE23-65-1HN

Ground Level: 4982.0			
Northing	Easting	Latitude	Longitude
0.0	0.0	1480989.52	3365897.96
		40.646244	-104.181394

Plan: APD - Rev 0 (Sidetrack) (Kummer PC LE23-65-1HN/Original Drilling)

Created By: Shailey Jewell Date: 15:33, February 15 2013

Checked: _____ Date: _____

Reviewed: _____ Date: _____

Approved: _____ Date: _____