

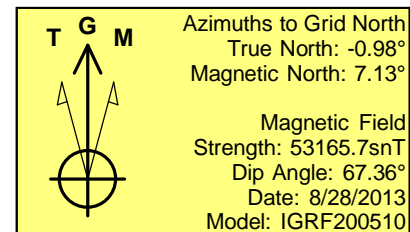
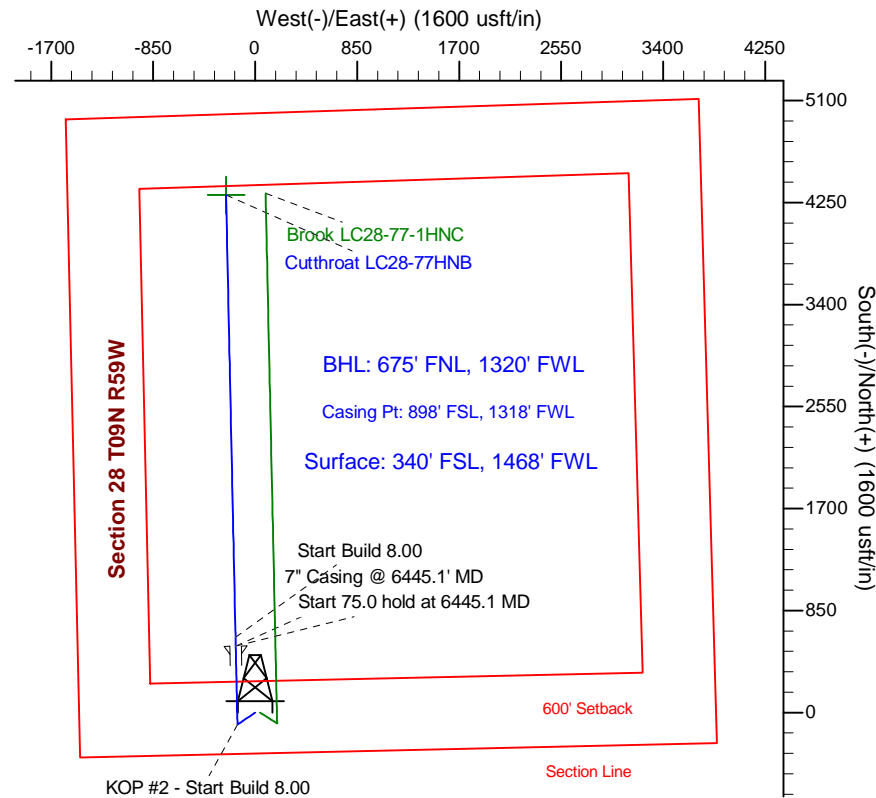
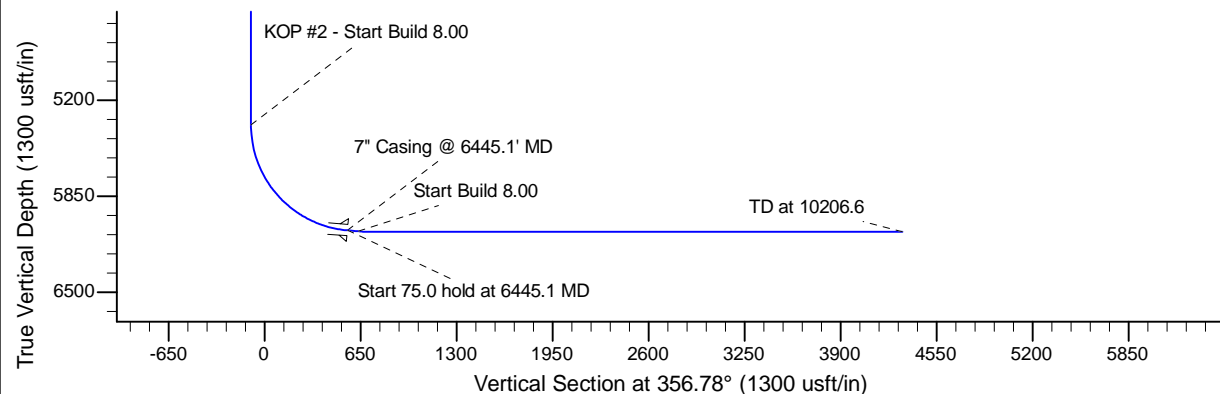
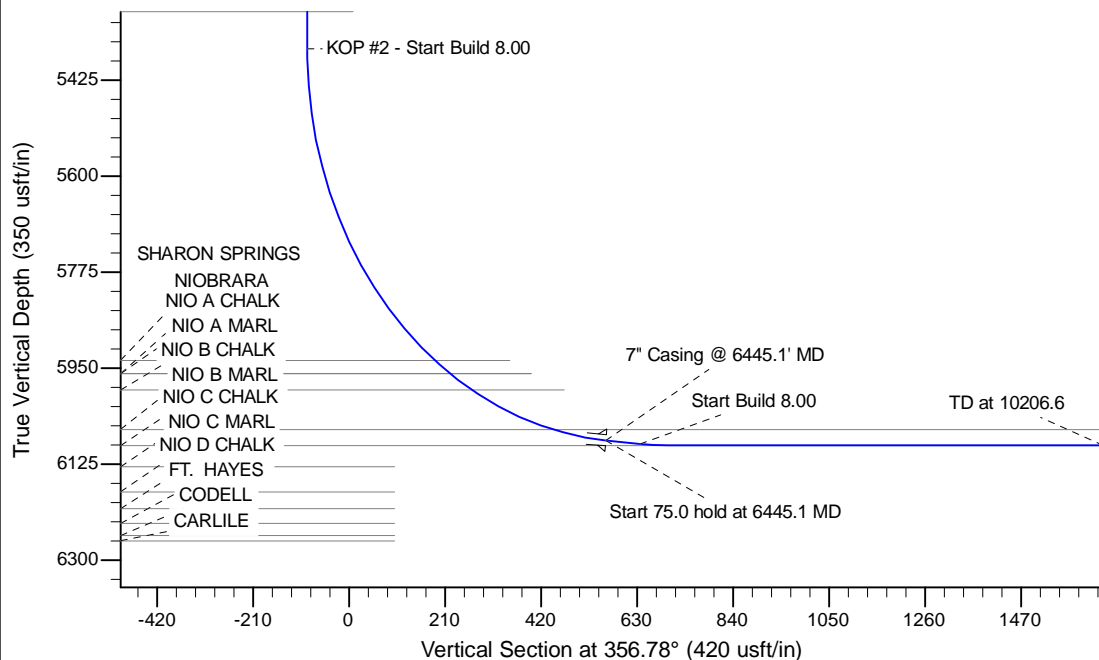
Project: Wattenberg Field
Site: LC (Sec.28-T09N-R59W) Weld County, CO
Well: Cutthroat LC28-77HNB
Wellbore: Original Drilling
Design: APD - Rev 0

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	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1800.0	0.00	0.00	1800.0	0.0	0.0	0.00	0.00	0.0	
3	2401.2	12.02	235.95	2396.8	-35.2	-52.1	2.00	235.95	-32.2	
4	2655.1	12.02	235.95	2645.2	-64.8	-95.9	0.00	0.00	-59.3	
5	3256.4	0.00	0.00	3242.0	-100.0	-148.0	2.00	180.00	-91.5	
6	5382.6	0.00	0.00	5368.3	-100.0	-148.0	0.00	0.00	-91.5	
7	6445.1	85.00	358.77	6081.7	553.6	-162.0	8.00	358.77	561.9	
8	6520.1	85.00	358.77	6088.3	628.3	-163.6	0.00	0.00	636.5	
9	6582.6	90.00	358.77	6091.0	690.7	-165.0	8.00	0.00	698.9	
10	10206.6	90.00	358.77	6091.0	4313.8	-242.7	0.00	0.00	4320.6	Cutthroat LC28-77HNB BHL 675'FNL, 1320'FWL



WELL DETAILS: Cutthroat LC28-77HNB

Ground Level: 4853.0			
0.0	0.0	1506892.45	3419380.12
Northing		Longitude	
0.0		-103.987100	

Plan: APD - Rev 0 (Cutthroat LC28-77HNB/Original Drilling)

Created By: Shailey Jewell Date: 10:55, September 03 2013

Checked: _____ Date: _____

Reviewed: _____ Date: _____

Approved: _____ Date: _____