

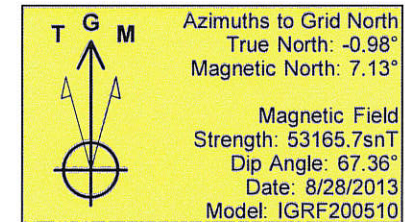
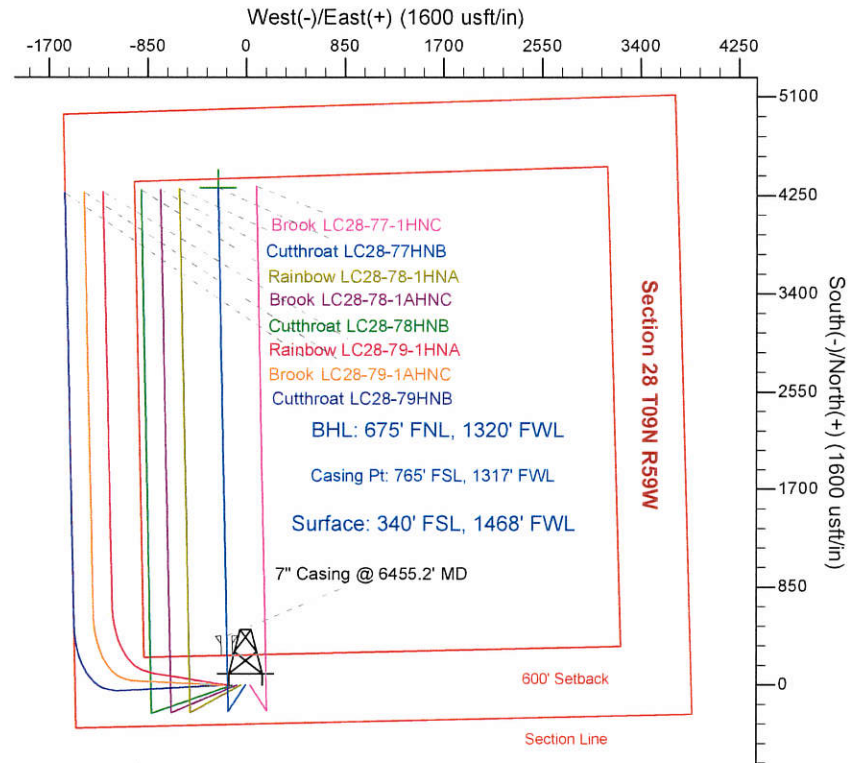
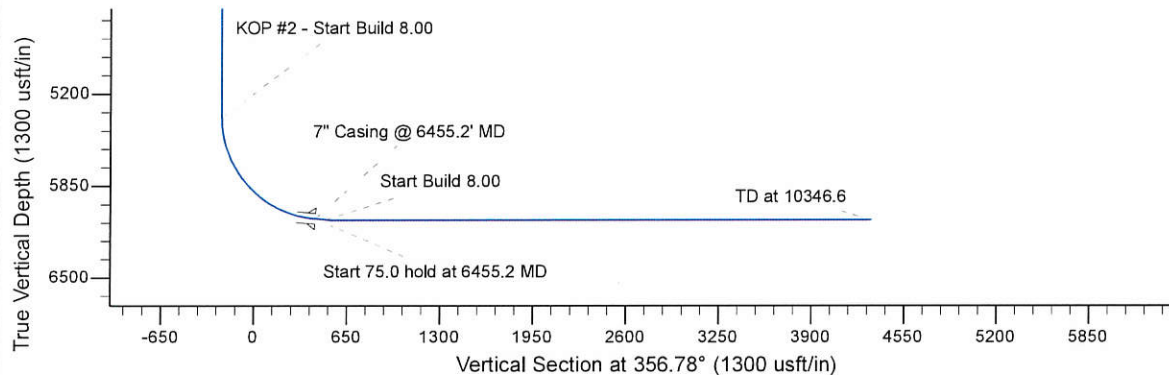
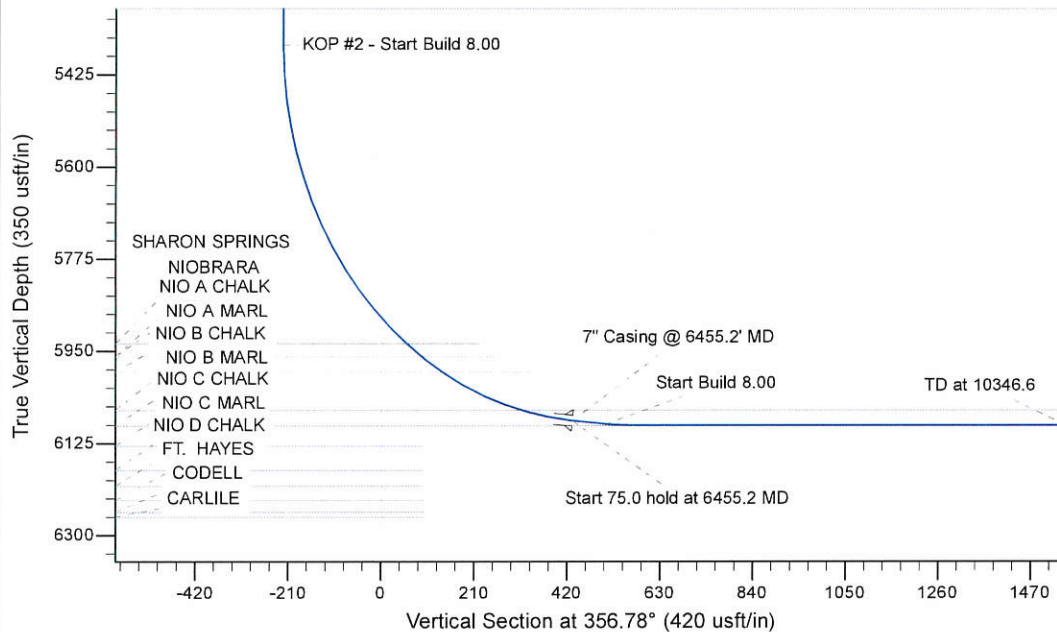
Project: Wattenberg Field
 Site: LC (Sec.28-T09N-R59W) Weld County, CO
 Well: Cutthroat LC28-77HNB
 Wellbore: Original Drilling
 Design: APD - Rev 2

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	3103.3	12.07	212.76	3098.9	-53.2	-34.3	2.00	212.76	-51.2	
4	3806.1	12.07	212.76	3786.1	-176.8	-113.7	0.00	0.00	-170.1	
5	4409.4	0.00	0.00	4385.0	-230.0	-148.0	2.00	180.00	-221.3	
6	5392.7	0.00	0.00	5388.3	-230.0	-148.0	0.00	0.00	-221.3	
7	6455.2	85.00	358.81	6081.7	423.6	-161.6	8.00	358.81	432.0	
8	6530.2	85.00	358.81	6088.3	498.3	-163.2	0.00	0.00	506.7	
9	6592.7	90.00	358.81	6091.0	560.7	-164.5	8.00	0.00	569.1	
10	10346.6	90.00	358.81	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	0.0	0.0
North	East	Latitude	Longitude
1506892.45	3419380.12	40.714990	-103.987100

Plan: APD - Rev 2 (Cutthroat LC28-77HNB/Original Drilling)

Created By: Shailey Jewell	Date: 12:29, February 03 2014
Checked: _____	Date: _____
Reviewed: _____	Date: _____
Approved: _____	Date: _____