

Project: Wattenberg Field
 Site: B (Sec.14-T05N-R64W) Weld County, CO
 Well: Cockroft B15-69-1HNM
 Wellbore: Original Drilling
 Design: APD - Rev 0

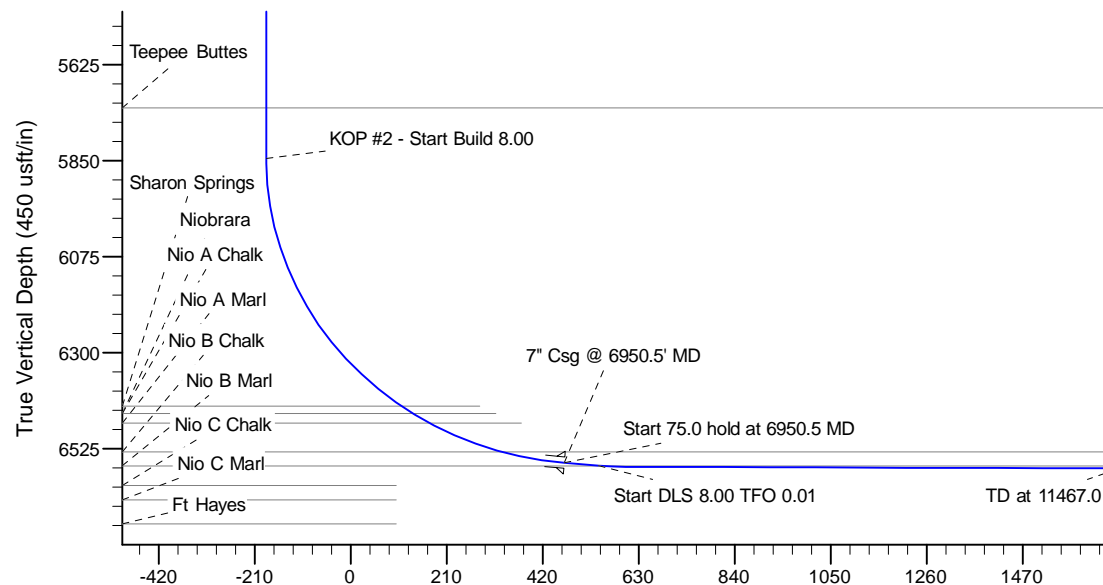
Northern Region Drilling

Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: Colorado Northern Zone
 System Datum: Mean Sea Level

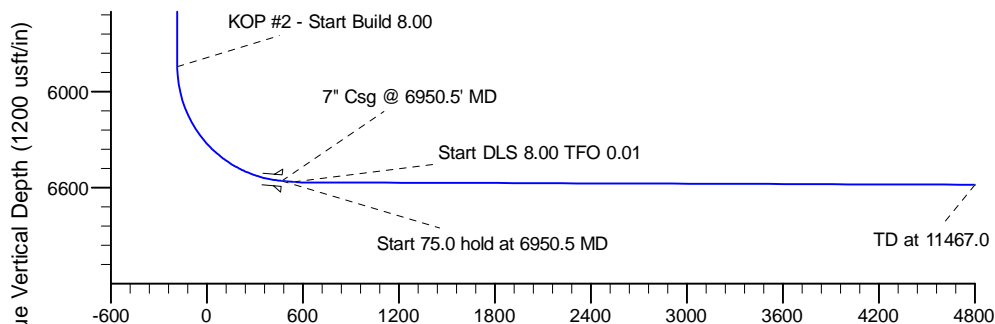
SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSecl	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	2000.0	0.00	0.00	2000.0	0.0	0.0	0.00	0.00	0.0	
3	2560.5	14.01	30.91	2554.9	58.5	35.0	2.50	30.91	-31.5	
4	3653.2	14.01	30.91	3615.1	285.5	171.0	0.00	0.00	-153.5	
5	4213.7	0.00	0.00	4170.0	344.0	206.0	2.50	180.00	-184.9	
6	5888.0	0.00	0.00	5844.3	344.0	206.0	0.00	0.00	-184.9	
7	6950.5	85.00	269.50	6557.8	338.3	-447.8	8.00	269.50	467.3	
8	7025.5	85.00	269.50	6564.4	337.6	-522.5	0.00	0.00	541.8	
9	7085.5	89.80	269.50	6567.1	337.1	-582.4	8.00	0.01	601.6	
10	11467.0	89.80	269.50	6582.4	299.0	-4963.7	0.00	0.00	4972.7	

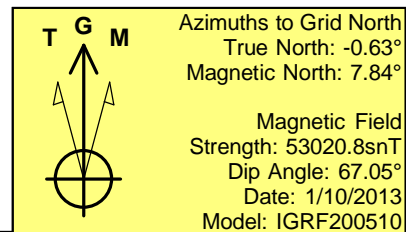
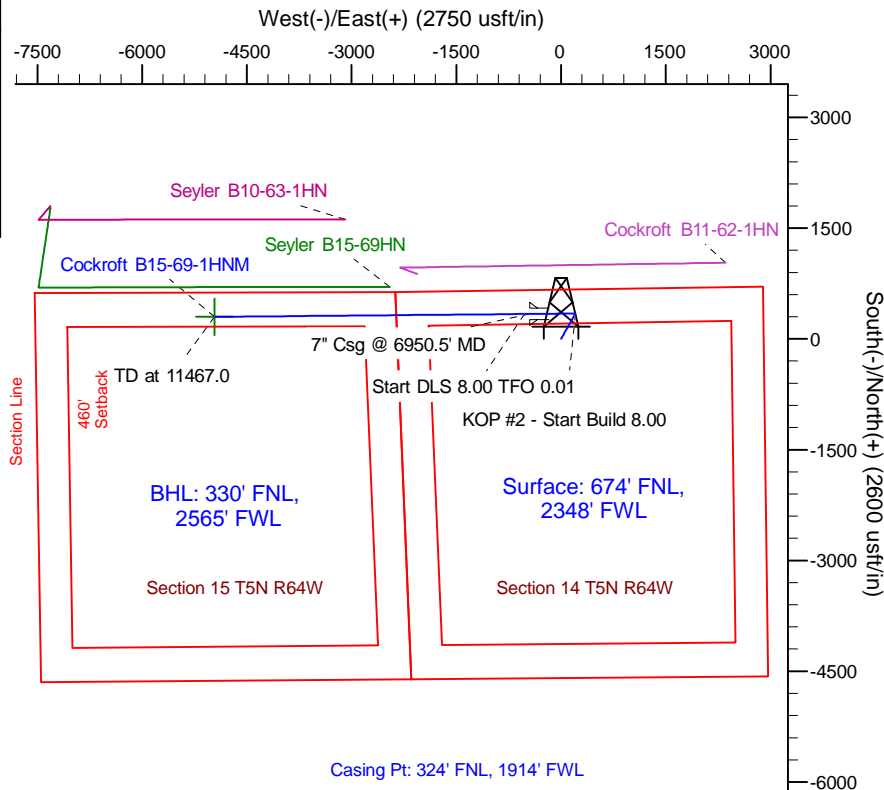
Cockroft B15-69-1 HNM BHL 330' FNL 2565' FWL



Vertical Section at 273.45° (420 usft/in)



Vertical Section at 273.45° (1200 usft/in)



WELL DETAILS: Cockroft B15-69-1HNM

Ground Level: 4585.0
 Northing: 1391766.96 Easting: 3273322.44 Latitude: 40.404650 Longitude: -104.518540

Plan: APD - Rev 0 (Cockroft B15-69-1HNM/Original Drilling)

Created By: Carrie Willers Date: 16:15, January 15 2013

Checked: _____ Date: _____

Reviewed: _____ Date: _____

Approved: _____ Date: _____