

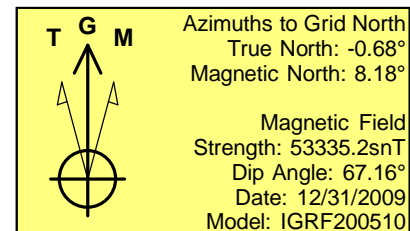
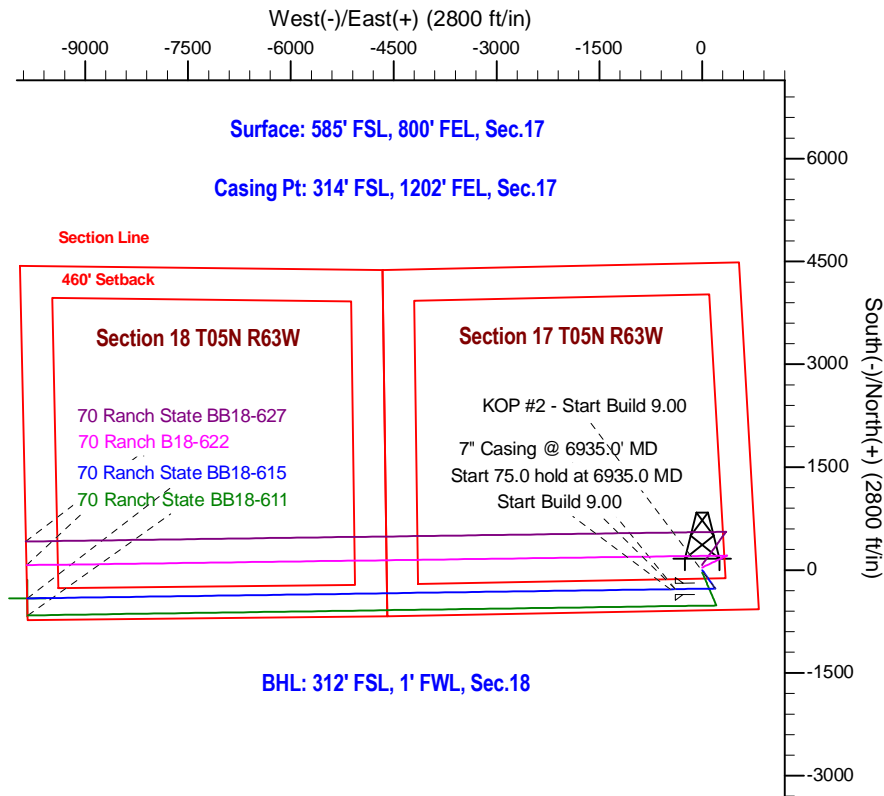
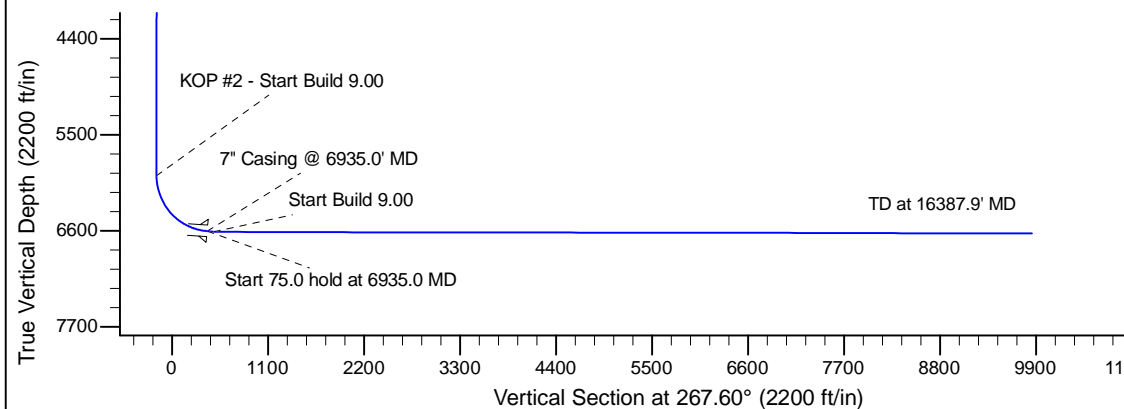
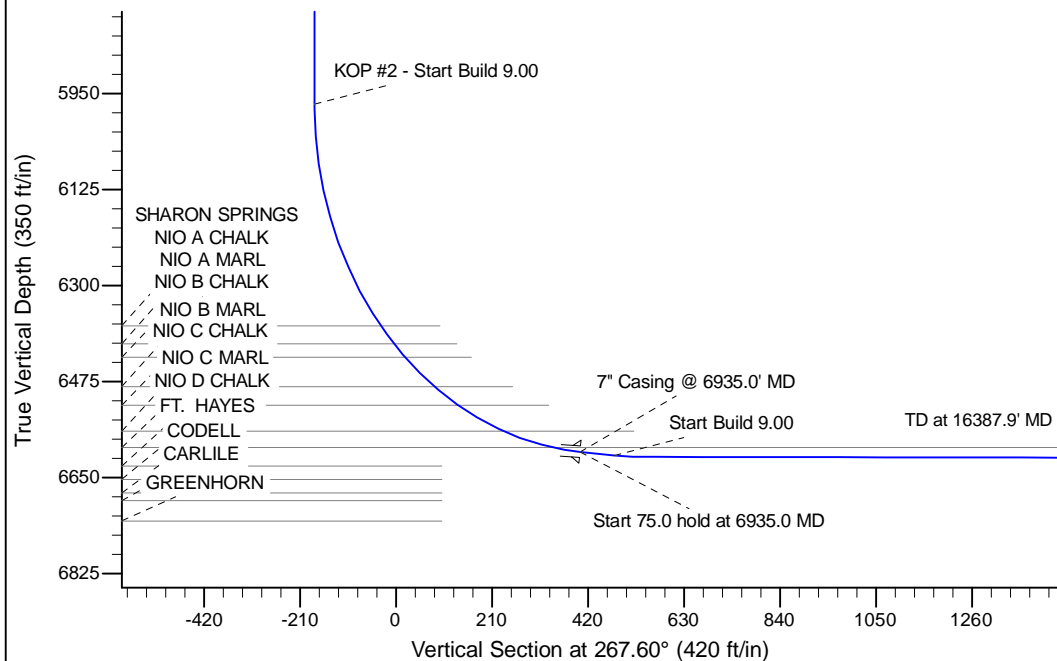
Project: Wattenberg Field
Site: BB (Sec.17-T05N-R63W) Weld County, CO
Well: 70 Ranch State BB18-615
Wellbore: Original Drilling
Design: APD - Rev 1

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	VFace	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1500.0	0.00	0.00	1500.0	0.0	0.0	0.00	0.00	0.0	
3	1900.0	8.00	144.87	1898.7	-22.8	16.0	2.00	144.87	-15.1	
4	3871.8	8.00	144.87	3851.3	-247.2	174.0	0.00	0.00	-163.4	
5	4271.8	0.00	0.00	4250.0	-270.0	190.0	2.00	180.00	-178.5	
6	5990.6	0.00	0.00	5968.8	-270.0	190.0	0.00	0.00	-178.5	
7	6935.0	85.00	269.18	6603.0	-278.3	-391.1	9.00	269.18	402.4	
8	7010.0	85.00	269.18	6609.5	-279.3	-465.8	0.00	0.00	477.1	
9	7064.4	89.90	269.18	6611.9	-280.1	-520.2	9.00	0.00	531.4	
10	16387.9	89.90	269.18	6628.2	-412.9	-9842.6	0.00	0.00	9851.3	70 Ranch State BB18-615 BHL 312'FSL, 1'FWL



WELL DETAILS: 70 Ranch State BB18-615				
Ground Level: 4646.0				
0.0	0.0	Northing	Eastings	Latitude
1387966.66	3291445.42	40.393650	-104.453630	
Plan: APD - Rev 1 (70 Ranch State BB18-615/Original Drilling)				
Created By: Shailey Jewell		Date: 10:20, January 22 2015		
Checked: _____		Date: _____		
Reviewed: _____		Date: _____		
Approved: _____		Date: _____		