

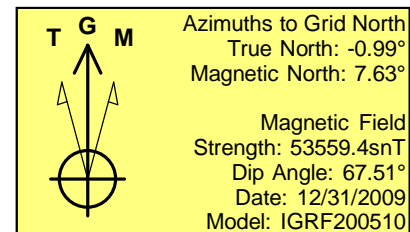
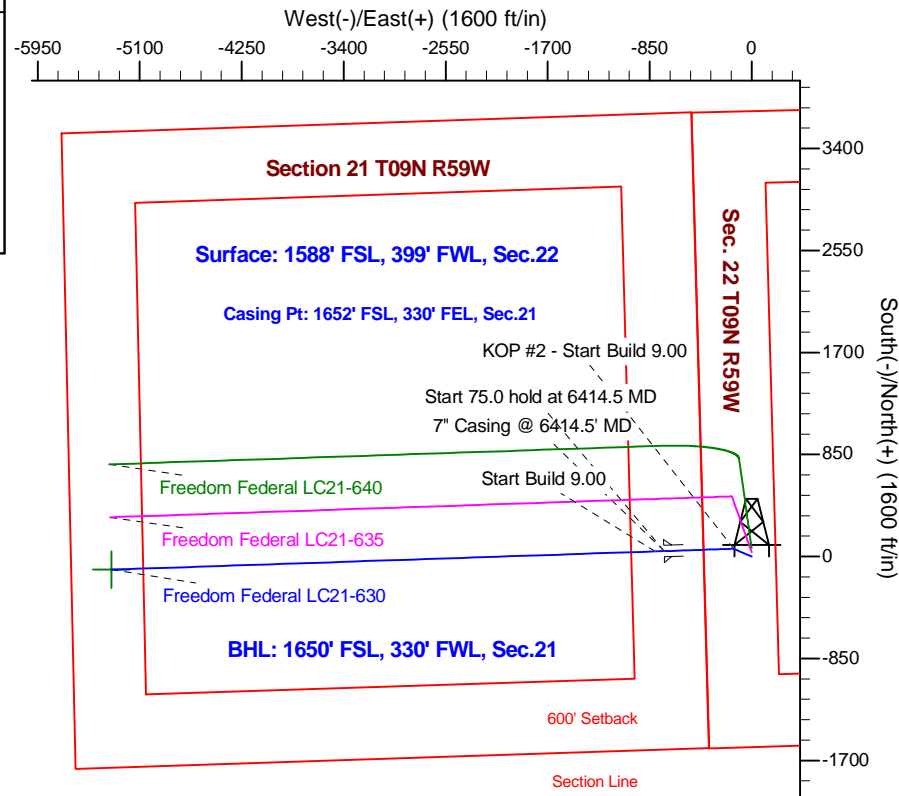
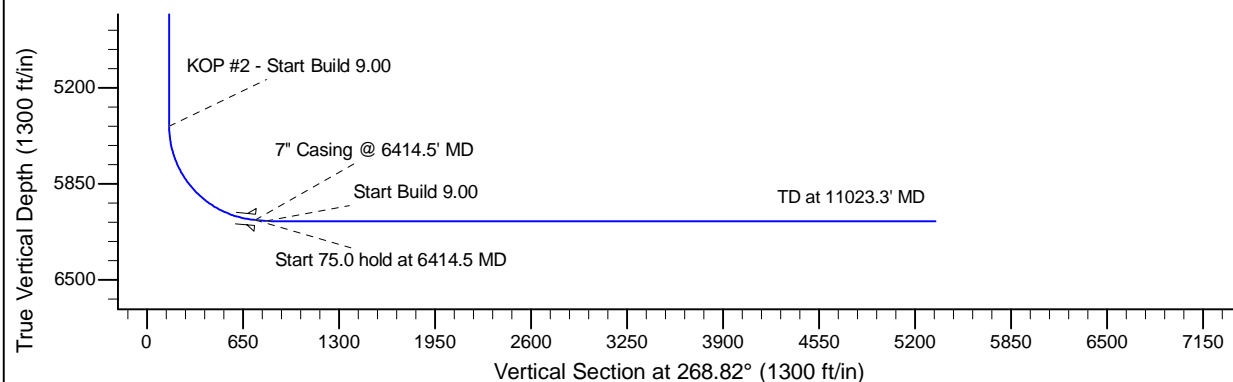
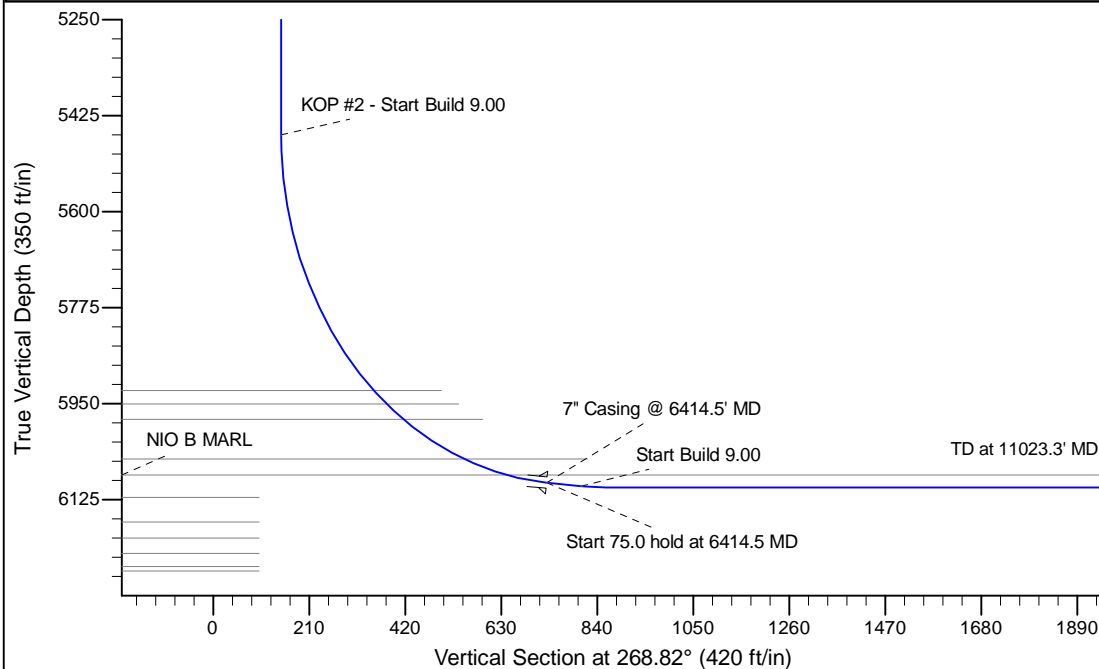
Project: Wattenberg Field
Site: LC (Sec.21-T09N-R59W) Weld County, CO
Well: Freedom Federal LC21-630
Wellbore: Original Drilling
Design: APD - Rev 0

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	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	2902.0	8.04	293.43	2900.7	11.2	-25.8	2.00	293.43	25.6	
4	3668.2	8.04	293.43	3659.3	53.8	-124.2	0.00	0.00	123.0	
5	4070.2	0.00	0.00	4060.0	65.0	-150.0	2.00	180.00	148.6	
6	5470.0	0.00	0.00	5459.8	65.0	-150.0	0.00	0.00	148.6	
7	6414.5	85.00	268.07	6094.0	45.4	-730.8	9.00	268.07	729.7	
8	6489.5	85.00	268.07	6100.6	42.9	-805.5	0.00	0.00	804.4	
9	6545.0	90.00	268.07	6103.0	41.1	-860.9	9.00	0.00	859.9	
10	11023.3	90.00	268.07	6103.0	-109.6	-5336.7	0.00	0.00	5337.8	Freedom Federal LC21-630 BHL 1650'FSL, 330'FWL



WELL DETAILS: Freedom Federal LC21-630

Ground Level: 4882.0		Northing	Easting	Latitude	Longitude
0.0	0.0	1513608.25	3423431.57	40.733230	-103.972070

Plan: APD - Rev 0 (Freedom Federal LC21-630/Original Drilling)

Created By: Shailey Jewell Date: 9:26, August 21 2015

Checked: _____ Date: _____

Reviewed: _____ Date: _____

Approved: _____ Date: _____