

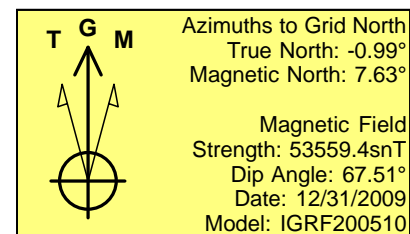
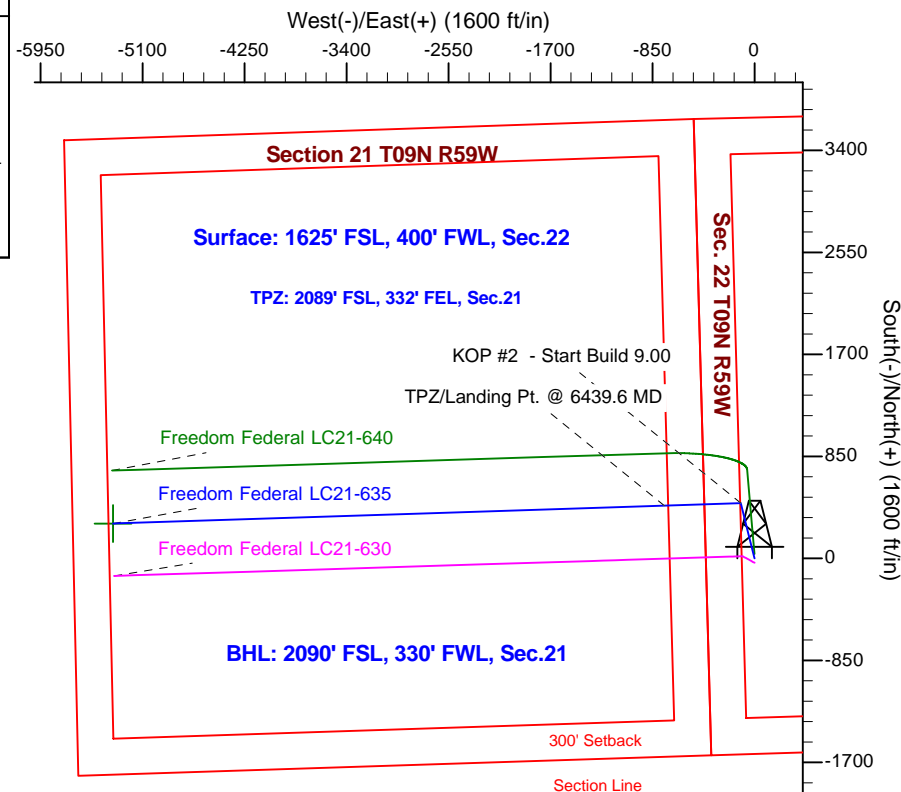
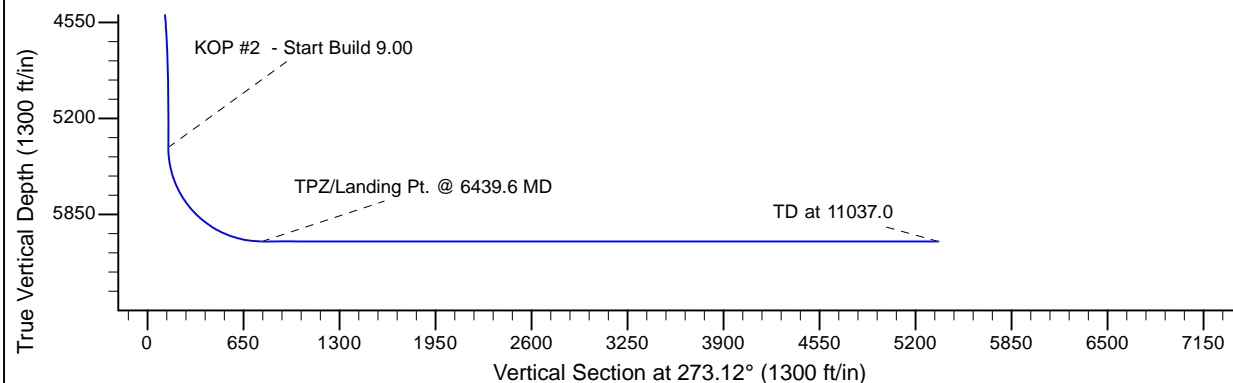
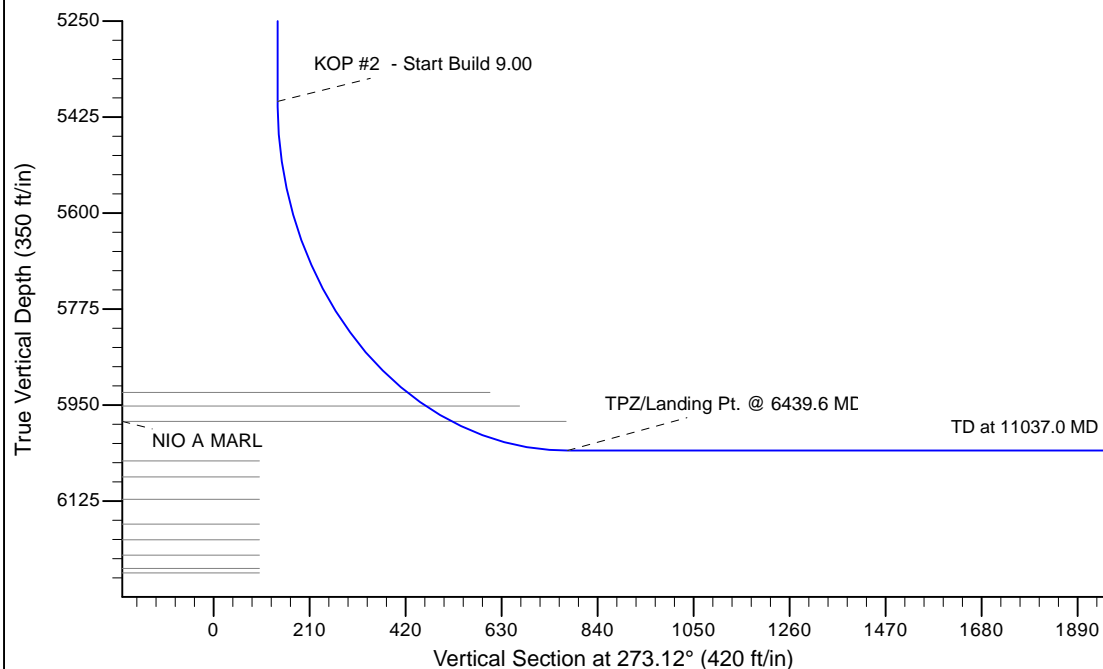
Project: Wattenberg Field
 Site: LC (Sec.22-T09N-R59W) Weld County, CO
 Well: Freedom Federal LC21-635
 Wellbore: Original Drilling
 Design: APD - Rev 1

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	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	Target
2	2200.0	0.00	0.00	2200.0	0.0	0.0	0.00	0.00	0.0	
3	2764.9	11.30	345.96	2761.3	53.9	-13.5	2.00	345.96	16.4	
4	4618.3	11.30	345.96	4578.7	406.1	-101.5	0.00	0.00	123.5	
5	5183.2	0.00	0.00	5140.0	460.0	-115.0	2.00	180.00	139.8	
6	5439.6	0.00	0.00	5396.4	460.0	-115.0	0.00	0.00	139.8	
7	6439.6	90.00	268.15	6033.0	439.5	-751.3	9.00	268.15	774.1	
8	11037.0	90.00	268.15	6033.0	291.1	-5346.3	0.00	0.00	5354.2	Freedom Federal LC21-635 BHL 2090'FSL, 330'FWL



WELL DETAILS: Freedom Federal LC21-635

	Ground Level: 4883.0				
	Northing	Easting	Latitude	Longitude	
0.0	0.0	1513644.68	3423430.94	40.733330	-103.972070

Plan: APD - Rev 1 (Freedom Federal LC21-635/Original Drilling)

Created By: Shailey Jewell Date: 15:05, October 12 2016

Checked: _____ Date: _____

Reviewed: _____ Date: _____

Approved: _____ Date: _____