

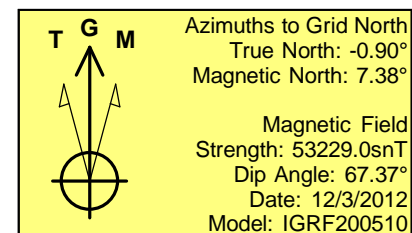
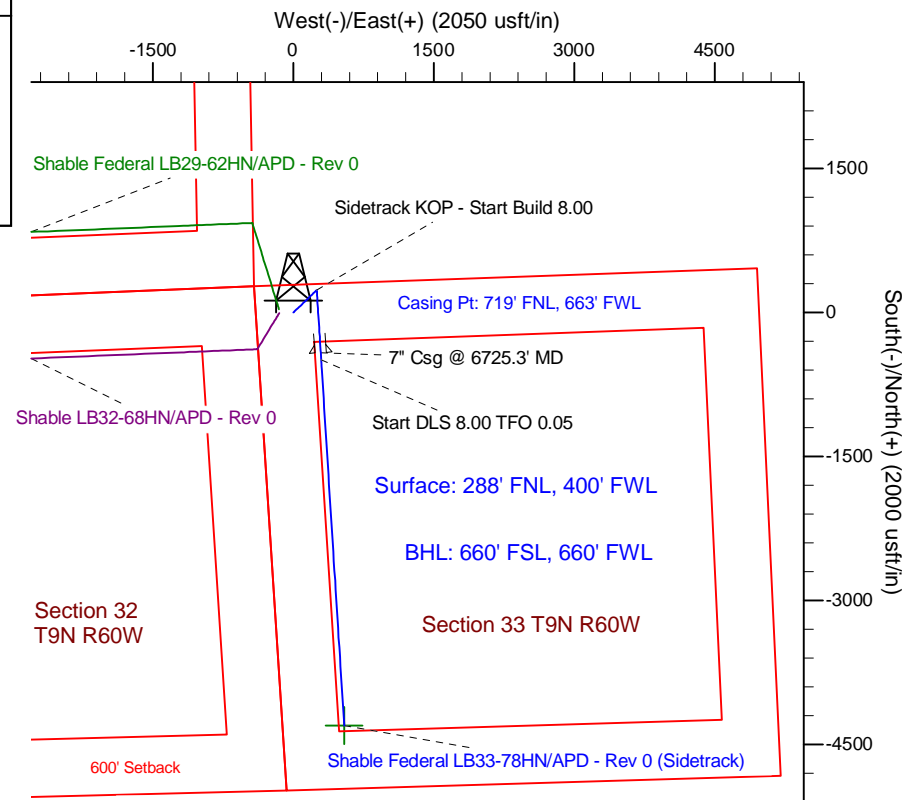
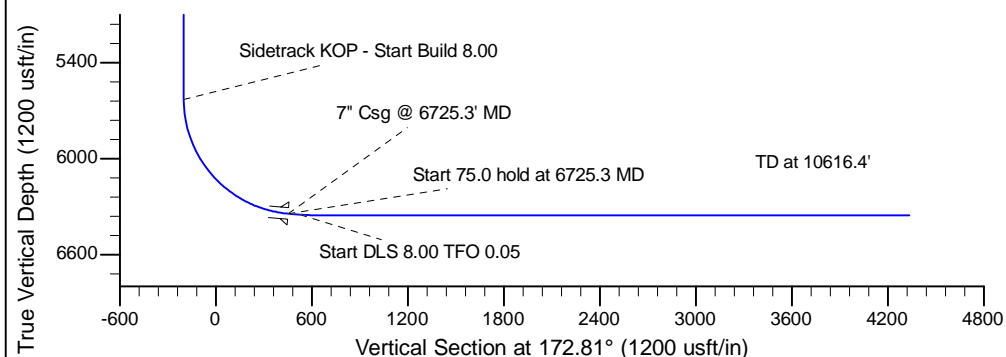
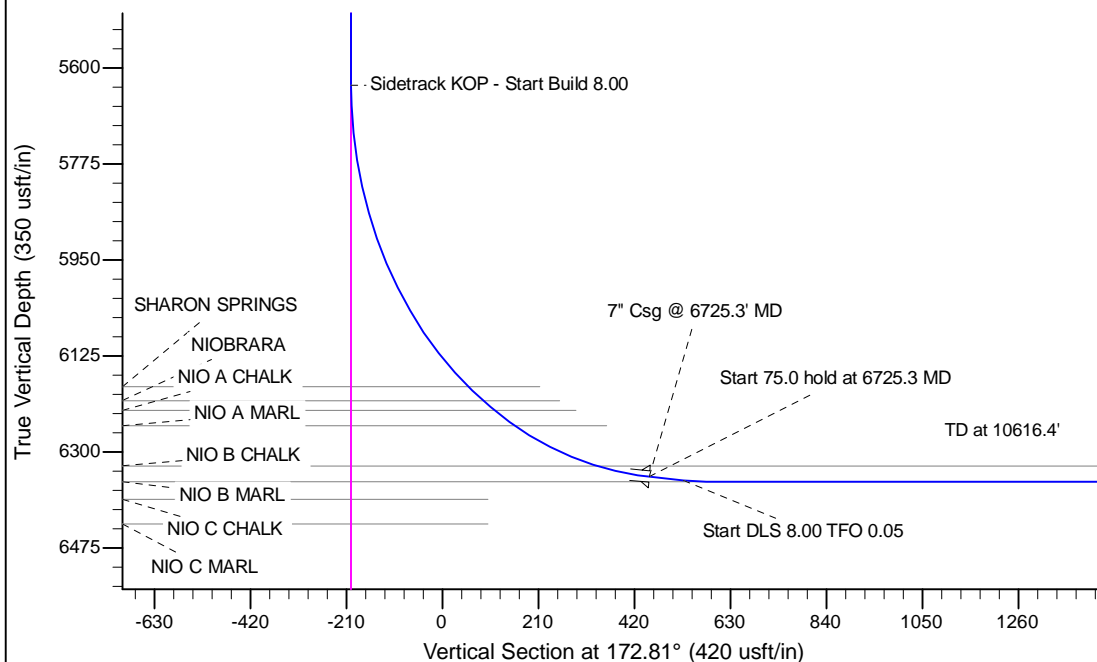
Project: Wattenberg Field
Site: LB (Sec.33-T09N-R60W) Weld County, CO
Well: Shable Federal LB33-78HN
Wellbore: Original Drilling
Design: APD - Rev 0 (Sidetrack)

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	VFace	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	2200.0	0.00	0.00	2200.0	0.0	0.0	0.00	0.00	0.0	
3	2800.0	12.00	47.02	2795.6	42.7	45.8	2.00	47.02	-36.6	
4	3841.5	12.00	47.02	3814.4	190.3	204.2	0.00	0.00	-163.3	
5	4441.5	0.00	0.00	4410.0	233.0	250.0	2.00	180.00	-199.9	
6	5662.8	0.00	0.00	5631.3	233.0	250.0	0.00	0.00	-199.9	
7	6725.3	85.00	176.30	6344.8	-419.4	292.2	8.00	176.30	452.7	
8	6800.3	85.00	176.30	6351.3	-494.0	297.0	0.00	0.00	527.3	
9	6862.8	90.00	176.30	6354.0	-556.3	301.0	8.00	0.05	589.6	
10	10616.4	90.00	176.30	6354.0	-4302.0	543.0	0.00	0.00	4336.1	Shable Federal LB33-78HN BHL 660'FSL. 660'FWL



WELL DETAILS: Shable Federal LB33-78HN

Ground Level:	4940.0
North	1505412.22
East	3386475.19
Latitude	40.712408
Longitude	-104.105867

Plan: APD - Rev 0 (Sidetrack) (Shable Federal LB33-78HN/Original Drilling)

Created By: Carrie Wilers	Date: 12:18, February 14 2013
Checked: _____	Date: _____
Reviewed: _____	Date: _____
Approved: _____	Date: _____