

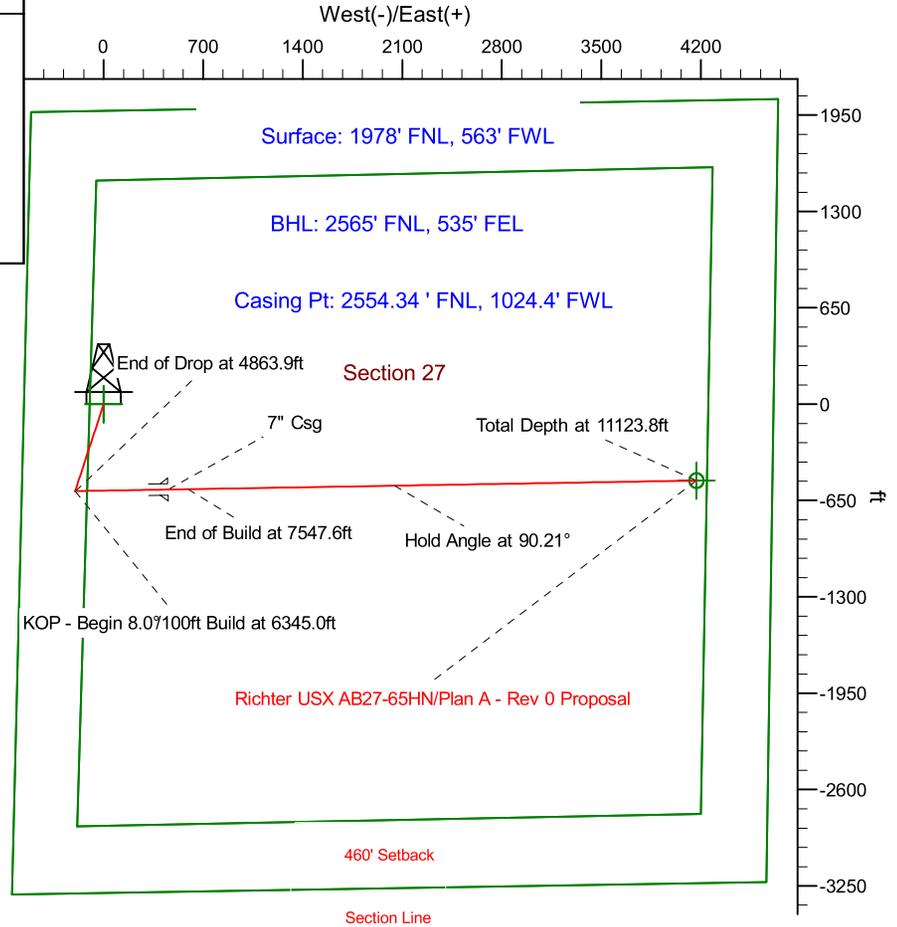
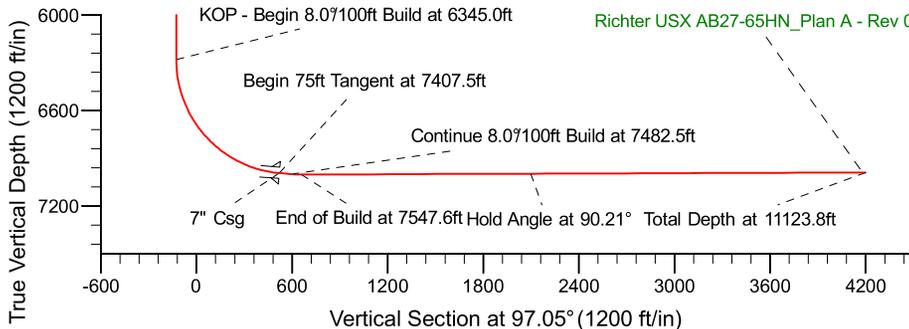
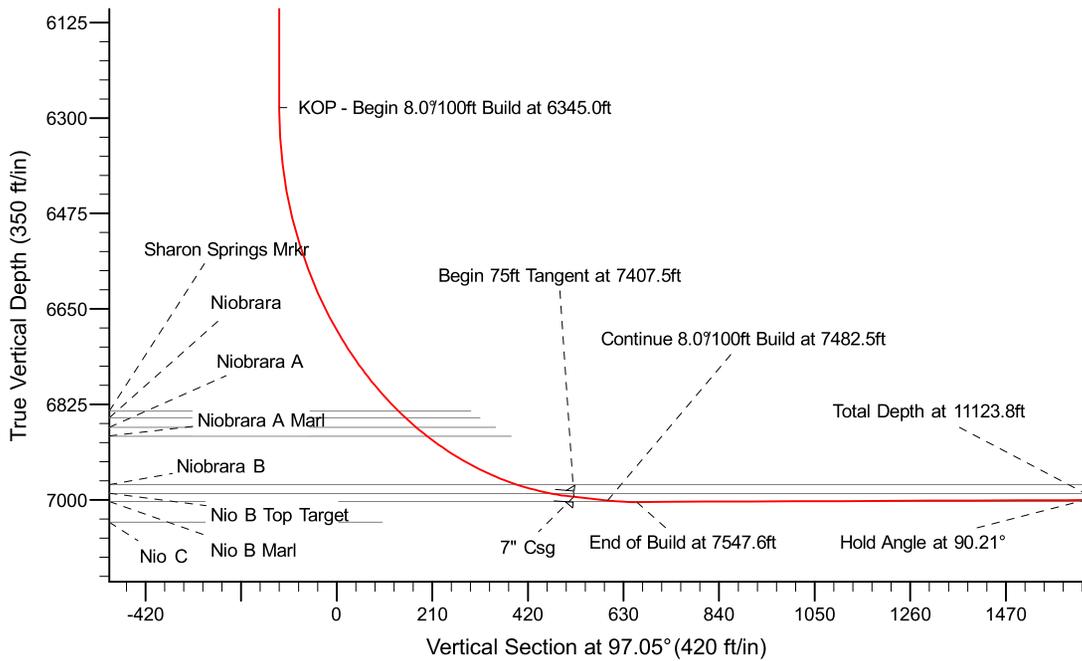
Project: Weld County Colorado (NAD 83)
 Site: Sec. 27, T7N, R64W
 Well: Richter USX AB27-65HN
 Wellbore: Plan A - Rev 0 (PERMITTING PLAN ONLY)
 Design: Plan A - Rev 0 Proposal

Noble Energy

HALLIBURTON
 Sperry Drilling

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSEct	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	1999.8	12.50	198.81	1995.9	-51.4	-17.5	2.50	198.81	-11.1	
4	4364.1	12.50	198.81	4304.1	-535.6	-182.5	0.00	0.00	-115.4	
5	4863.9	0.00	0.00	4800.0	-587.0	-200.0	2.50	180.00	-126.4	
6	6345.0	0.00	0.00	6281.1	-587.0	-200.0	0.00	0.00	-126.4	
7	7407.5	85.00	89.06	6994.6	-576.3	453.7	8.00	89.06	521.0	
8	7482.5	85.00	89.06	7001.1	-575.0	528.4	0.00	0.00	595.0	
9	7547.6	90.21	89.06	7003.8	-574.0	593.4	8.00	0.00	659.4	
10	11123.8	90.21	89.07	6990.7	-515.8	4169.1	0.00	91.44	4200.9	Richter USX AB27-65HN_Plan A - Rev 0_BHL Tgt-



TGM

Magnetic Model: IGRF200510
 Date: 6/22/2011
 Inclination: 8.10°
 Dip Angle: 67.22°
 Field Strength: 53255.9

Grid North is 0.62° East of True North (Grid Convergence)
 Magnetic North is 8.72° East of True North (Magnetic Declination)
 Magnetic North is 8.10° East of Grid North (Magnetic Convergence)
 To convert a True Direction to a Grid Direction, Subtract 0.62°
 To convert a Magnetic Direction to a True Direction, Add 8.72° East
 To convert a Magnetic Direction to a Grid Direction, Add 8.10°

WELL DETAILS: Richter USX AB27-65HN(NAD83 Geodetic System)

Ground Level: 4902.0		Longitude	
Northing 439884.05	Easting 995432.10	Latitude 40°32'45.636" N	Longitude 104°32'36.204" W

Plan: Plan A - Rev 0 Proposal (Richter USX AB27-65HN/Plan A - Rev 0 (PERMITTING PLAN ONLY))

Created By: Erasmo Mendoza Date: 16:10, June 02 2011

OK to submit with 2A as per Noble Drilling
6/3/2011 06:58