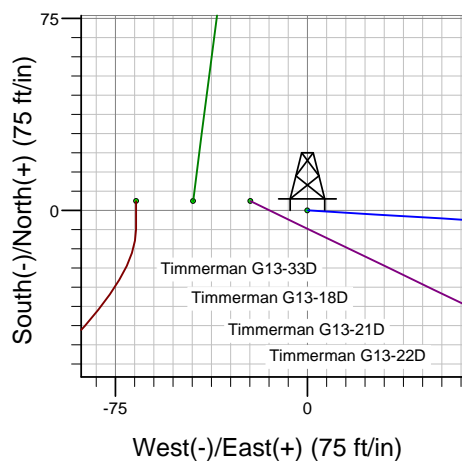
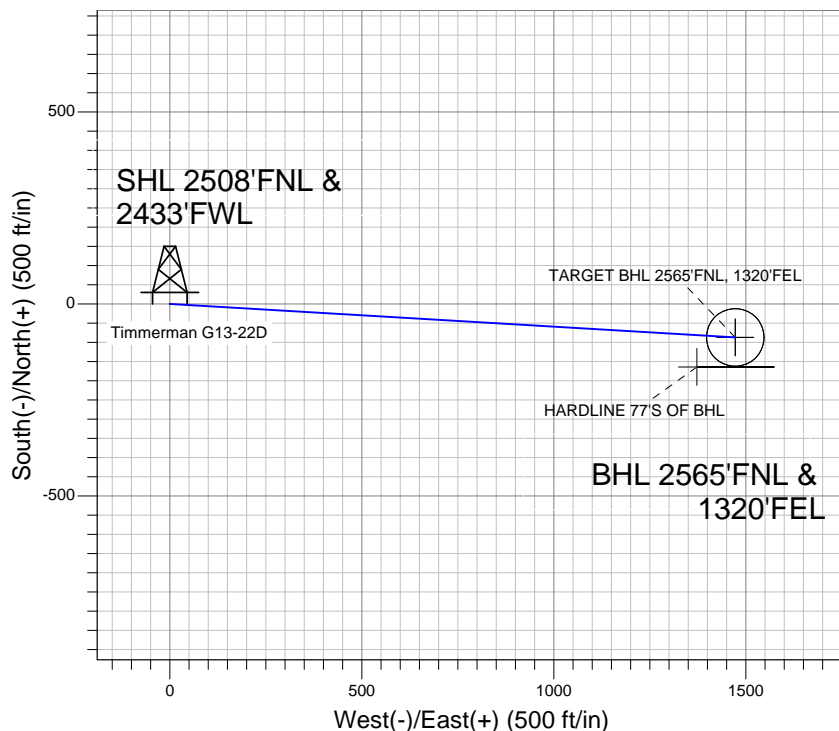
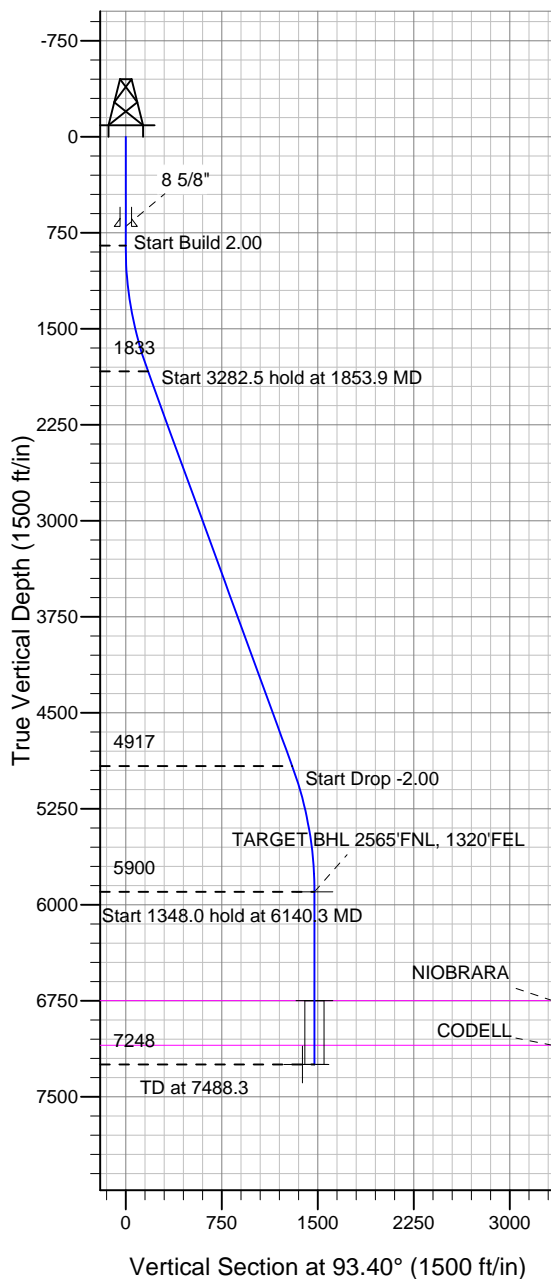


Well Name: Timmerman G13-22D

Surface Location: Timmerman G13-20D Pad Sec.13-T4N-R65W
 North American Datum 1983, US State Plane 1983 Colorado Northern Zone
 Ground Elevation: 4775.0
 +N/-S 0.0 +E/-W 0.0 Northing 1357997.17 Easting 3247600.86 Latitude 40.312700 Longitude -104.612110
 Original Well Elev @ 4788.0ft (Original Well Elev)

NOBLE ENERGY INC WELD COUNTY CO



Timmerman G13-20D Pad Sec.13-T4N-R65W
 Timmerman G13-22D
 Noble Timmerman G13-22D Plan #1 (10-13-11)
 12:30, October 26 2011



Azimuths to True North
 Magnetic North: 8.69°
 Magnetic Field
 Strength: 53090.4snT
 Dip Angle: 67.00°
 Date: 10/13/2011
 Model: IGRF200510

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
TARGET BHL 2565'FNL, 1320'FEL	5900.0	-87.4	1472.5	40.312460	-104.606830	Point
TARGET CIRCLE 2565'FNL, 1320'FEL	6748.0	-87.4	1472.5	40.312460	-104.606830	Circle (Radius: 75.0)
HARDLINE 77'S OF BHL	7248.0	-164.4	1372.5	40.312249	-104.607189	Polygon

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	850.0	0.00	0.00	850.0	0.0	0.0	0.00	0.00	0.0	
3	1853.9	20.08	93.40	1833.5	-10.3	173.8	2.00	93.40	174.1	
4	5136.4	20.08	93.40	4916.5	-77.1	1298.7	0.00	0.00	1301.0	
5	6140.3	0.00	0.00	5900.0	-87.4	1472.5	2.00	180.00	1475.1	TARGET BHL 2565'FNL, 1320'FEL
6	7488.3	0.00	0.00	7248.0	-87.4	1472.5	0.00	0.00	1475.1	