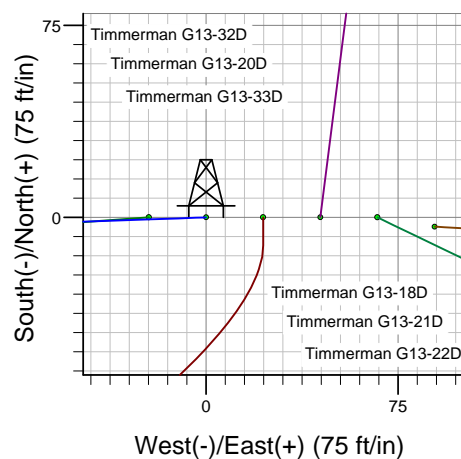
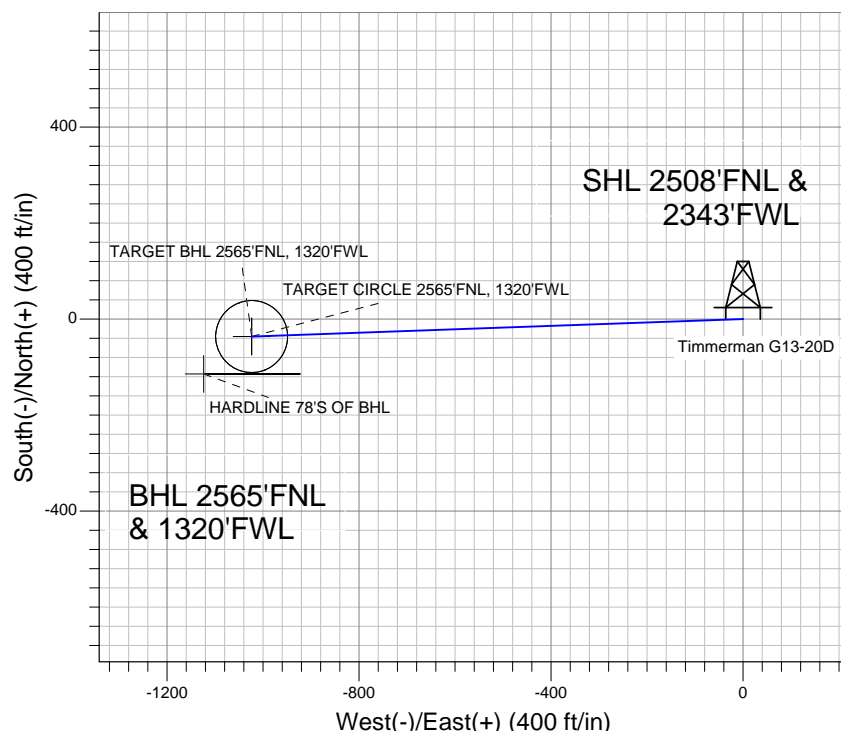
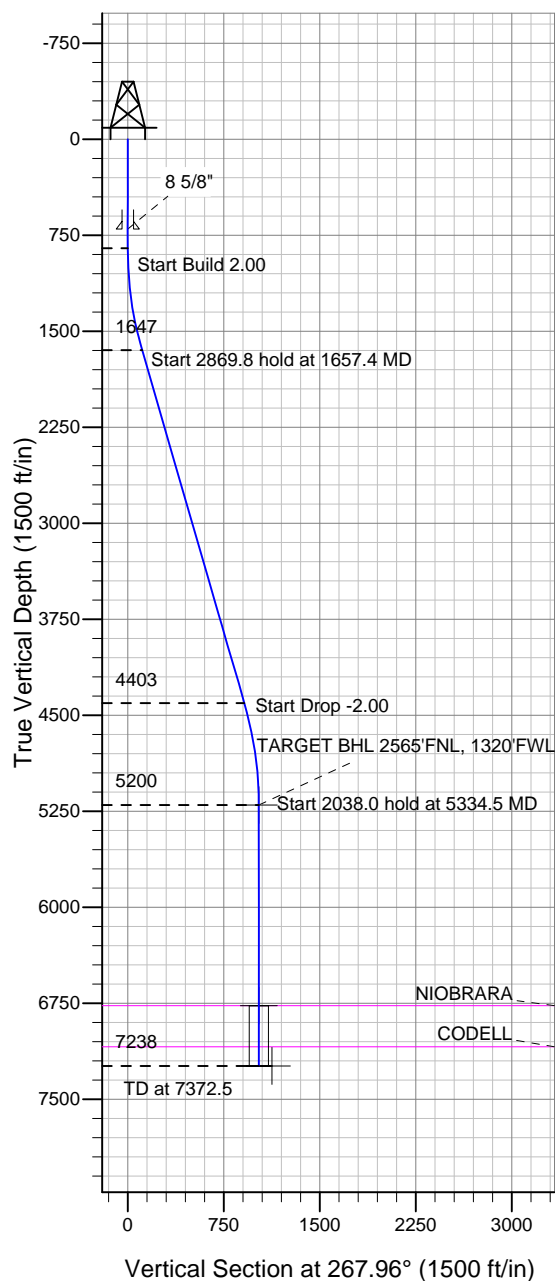


Well Name: Timmerman G13-20D

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 1357999.90 Easting 3247511.59 Latitude 40.312710 Longitude -104.612430 Slot
 Original Well EleWELL @ 4788.0ft (Original Well Elev)

NOBLE ENERGY INC WELD COUNTY CO



Timmerman G13-20D Pad Sec.13-T4N-R65W
 Timmerman G13-20D
 Noble Timmerman G13-20D Plan #1 (10-13-11)
 10:54, 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'FWL	5200.0	-36.4	-1023.5	40.312610	-104.616100	Point
TARGET CIRCLE 2565'FNL, 1320'FWL	6768.0	-36.4	-1023.5	40.312610	-104.616100	Circle (Radius: 75.0)
HARDLINE 78'S OF BHL	7238.0	-114.4	-1123.5	40.312396	-104.616459	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	1657.4	16.15	267.96	1646.7	-4.0	-112.9	2.00	267.96	113.0	
4	4527.1	16.15	267.96	4403.3	-32.4	-910.5	0.00	0.00	911.1	
5	5334.5	0.00	0.00	5200.0	-36.4	-1023.5	2.00	180.00	1024.1	TARGET BHL 2565'FNL, 1320'FWL
6	7372.5	0.00	0.00	7238.0	-36.4	-1023.5	0.00	0.00	1024.1	