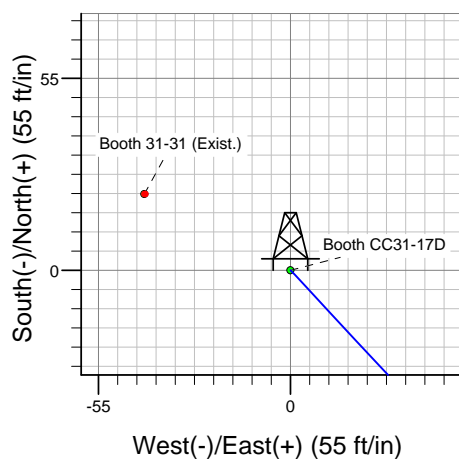
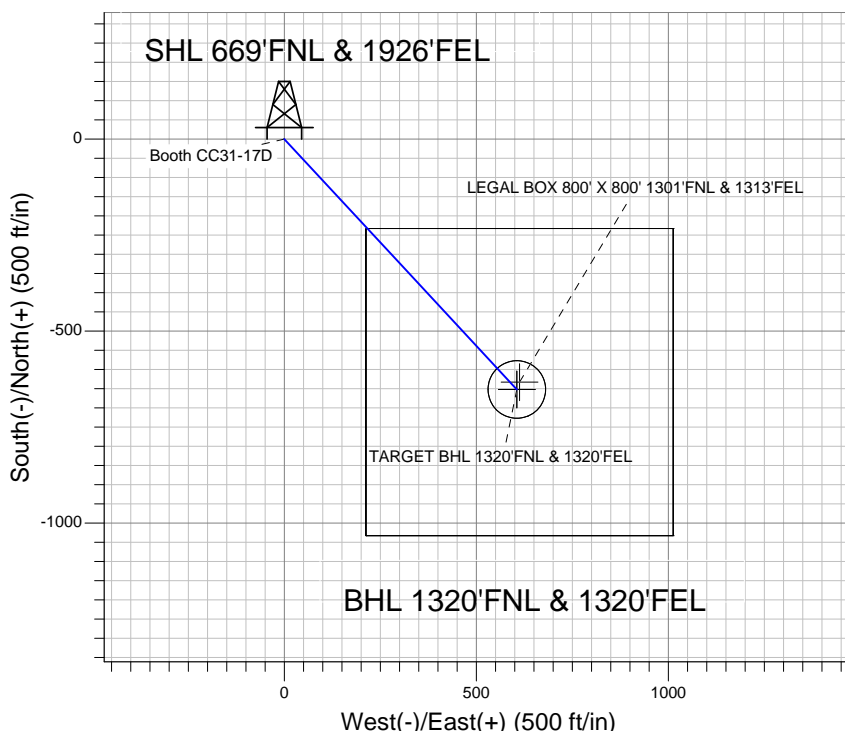
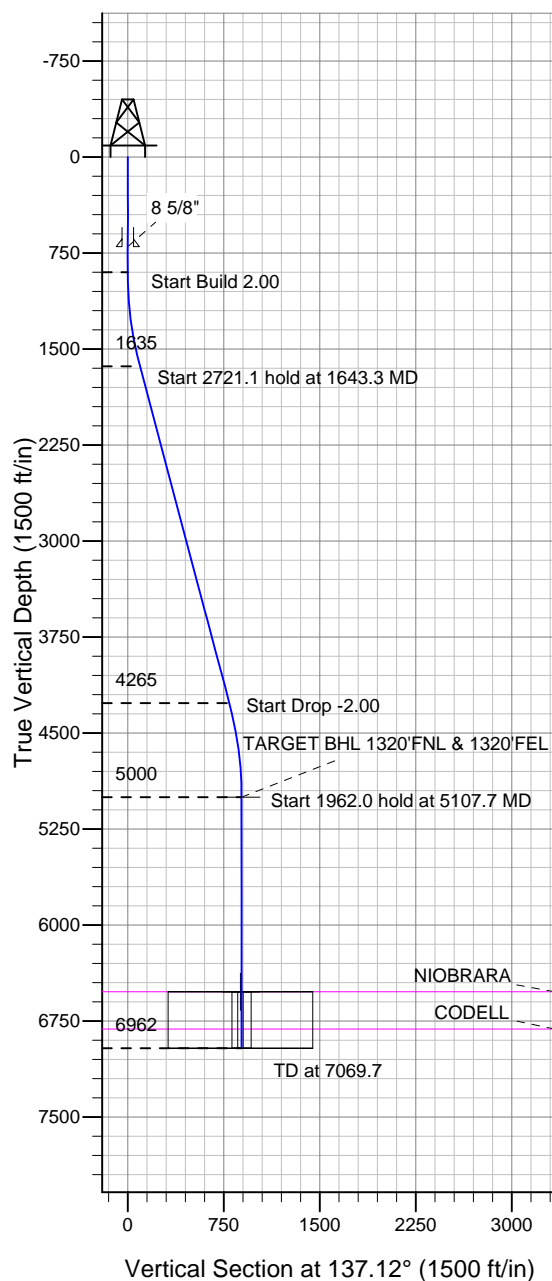


Well Name: Booth CC31-17D

Surface Location: Booth CC31-17D Pad Sec.31-T4N-R63W
 North American Datum 1983, US State Plane 1983 Colorado Northern Zone
 Ground Elevation: 4784.0
 +N/-S 0.0 +E/-W 0.0 Northing 1344390.41 Easting 3285170.44 Latitude 40.274240 Longitude -104.477960
 Original Well EleWELL @ 4797.0ft (Original Well Elev)

NOBLE ENERGY INC WELD COUNTY CO



Booth CC31-17D Pad Sec.31-T4N-R63W
 Booth CC31-17D
 Noble Booth CC31-17D Plan #1 (9-7-11)
 8:16, September 09 2011



Azimuths to True North
 Magnetic North: 8.67°
 Magnetic Field
 Strength: 53072.3snT
 Dip Angle: 66.99°
 Date: 9/7/2011
 Model: IGRF2010

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
TARGET BHL 1320'FNL & 1320'FEL	5000.0	-652.1	605.5	40.272450	-104.475790	Point
LEGAL BOX 800' X 800' 1301'FNL & 1313'FEL	6522.0	-633.1	612.5	40.272502	-104.475765	Rectangle (Sides: L800.0 W800.0)
TARGET CIRCLE 1320'FNL & 1320'FEL	6522.0	-652.1	605.5	40.272450	-104.475790	Circle (Radius: 75.0)

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	900.0	0.00	0.00	900.0	0.0	0.0	0.00	0.00	0.0	
3	1643.3	14.87	137.12	1635.0	-70.3	65.2	2.00	137.12	95.9	
4	4364.4	14.87	137.12	4265.0	-581.8	540.3	0.00	0.00	794.0	
5	5107.7	0.00	0.00	5000.0	-652.1	605.5	2.00	180.00	889.9	TARGET BHL 1320'FNL & 1320'FEL
6	7069.7	0.00	0.00	6962.0	-652.1	605.5	0.00	0.00	889.9	