

ENSIGN

Directional

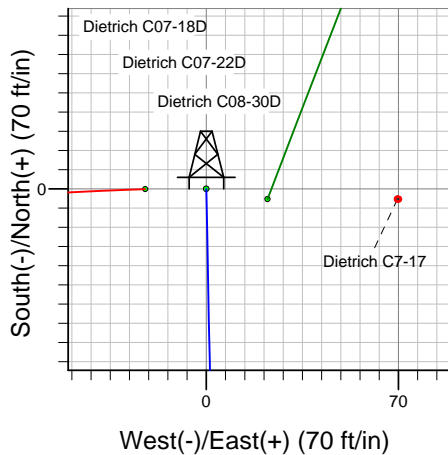
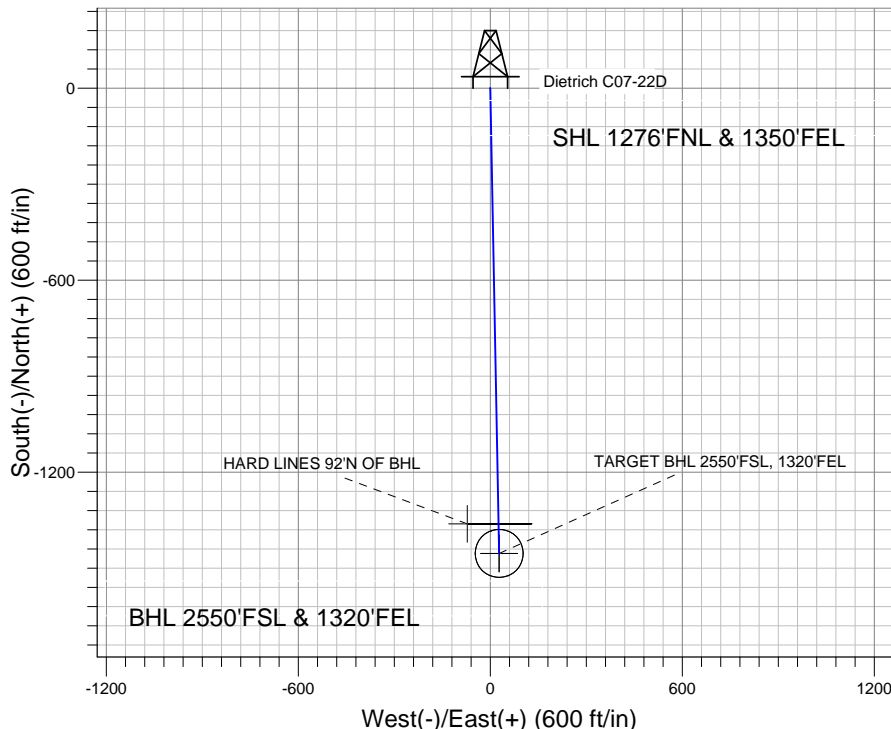
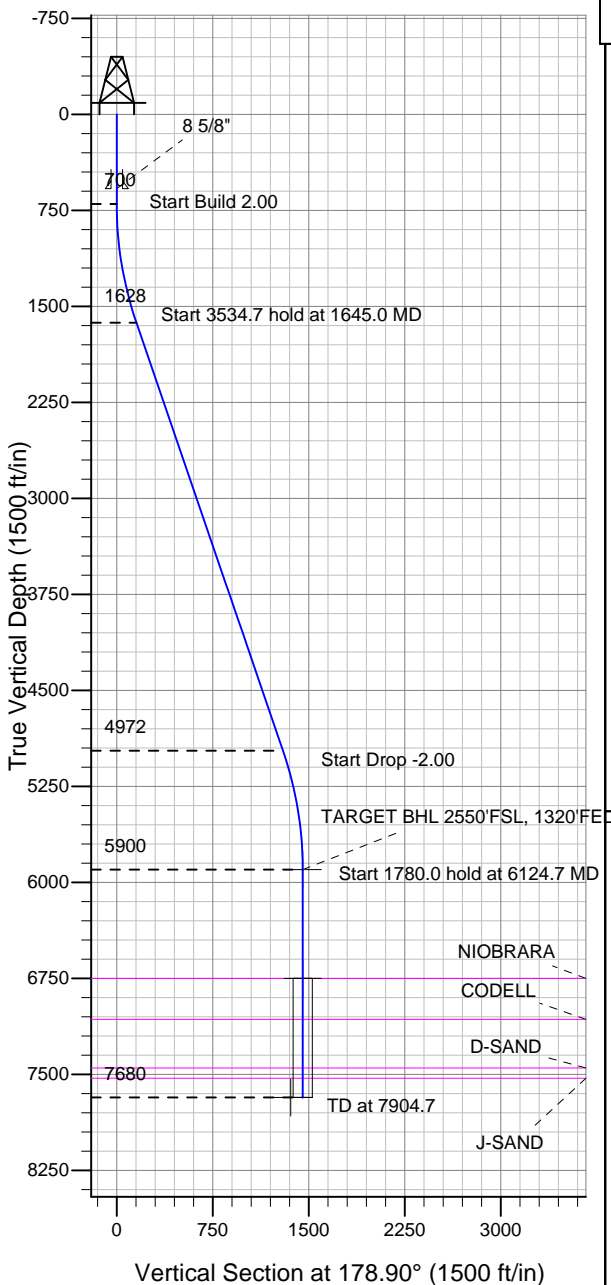
Well Name: Dietrich C07-22D

Surface Location: Dietrich C07-18 Pad Sec.7-T4N-R64W
North American Datum 1983 US State Plane 1983 Colorado Northern Zone

Ground Elevation: 4817.0

+N/-S +E/-W Northing Easting Latitude Longitude Slot
0.0 0.0 1364565.30 3254028.57 40.330550 -104.588820
Original Well Elev WELL @ 4830.0ft (Original Well Elev)

NOBLE ENERGY INC WELD COUNTY CO



Dietrich C07-18 Pad Sec.7-T4N-R64W
Dietrich C07-22D
Noble Dietrich C07-22D Plan #1 (7-06-11)
7:56, July 08 2011



Azimuths to True North
Magnetic North: 8.76°

Magnetic Field
Strength: 53108.0snT
Dip Angle: 67.02°
Date: 7/6/2011
Model: IGRF2010

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
TARGET BHL 2550'FSL, 1320'FEL	5900.0	-1453.6	27.9	40.326560	-104.588720	Point
TARGET CIRCLE 2550'FSL & 1320'FEL	6750.0	-1453.6	27.9	40.326560	-104.588720	Circle (Radius: 75.0)
HARD LINES 92°N OF BHL	7680.0	-1361.6	-72.1	40.326812	-104.589079	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	700.0	0.00	0.00	700.0	0.0	0.0	0.00	0.00	0.0	
3	1645.0	18.90	178.90	1628.0	-154.4	3.0	2.00	178.90	154.5	
4	5179.7	18.90	178.90	4972.0	-1299.1	24.9	0.00	0.00	1299.4	
5	6124.7	0.00	0.00	5900.0	-1453.6	27.9	2.00	180.00	1453.8	TARGET BHL 2550'FSL, 1320'FEL
6	7904.7	0.00	0.00	7680.0	-1453.6	27.9	0.00	0.00	1453.8	