

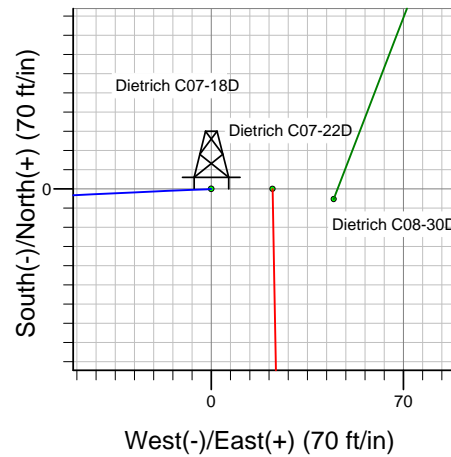
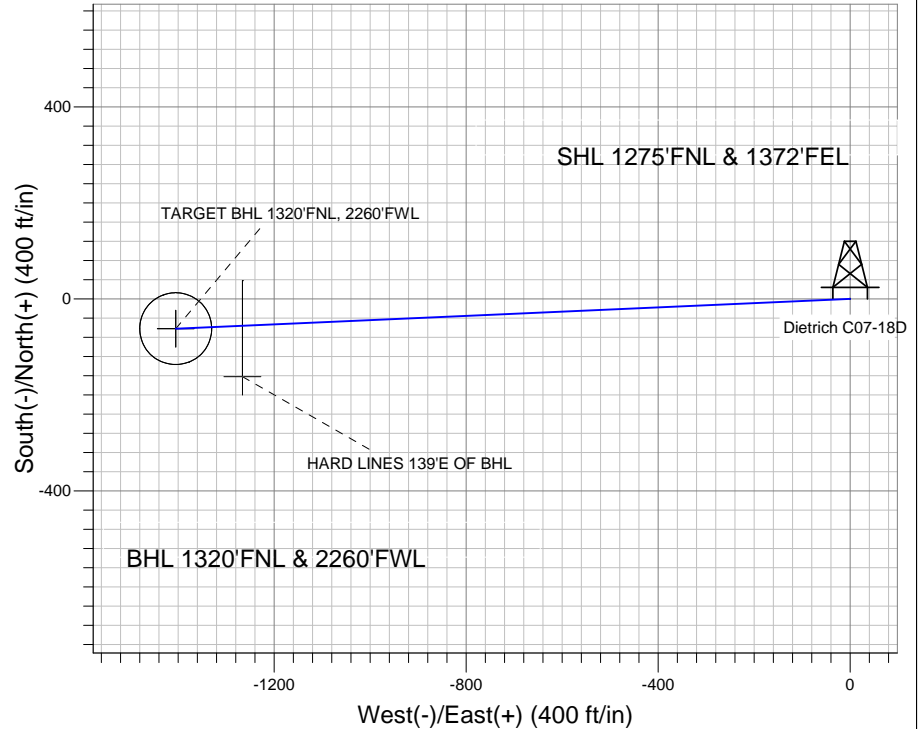
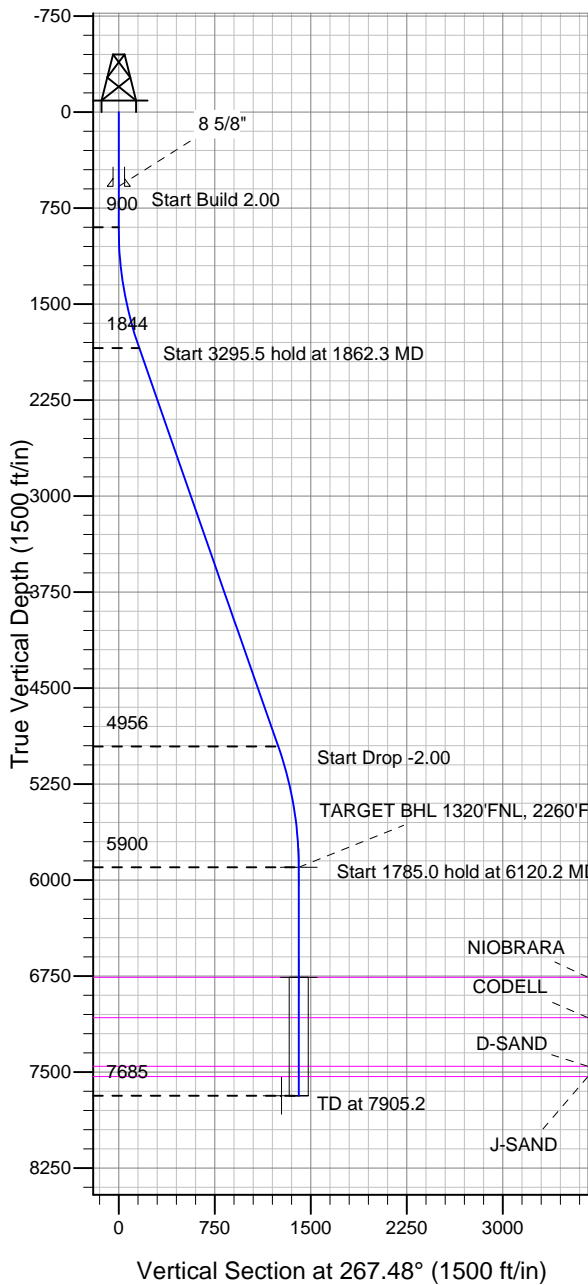
ENSIGN

Directional

Well Name: Dietrich C07-18D

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 1364565.06 3254006.27 40.330550 -104.588900
 Original Well Elev WELL @ 4830.0ft (Original Well Elev)

NOBLE ENERGY INC WELD COUNTY CO



Dietrich C07-18 Pad Sec.7-T4N-R64W
 Dietrich C07-18D
 Noble Dietrich C07-18D Plan #1 (7-06-11)
 7:33, 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 1320'FNL, 2260'FWL	5900.0	-61.9	-1405.2	40.330380	-104.593940	Point
TARGET CIRCLE 1320'FNL & 2260'FWL	6760.0	-61.9	-1405.2	40.330380	-104.593940	Circle (Radius: 75.0)
HARD LINES 139'E OF BHL	7685.0	-161.9	-1266.2	40.330105	-104.593441	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	900.0	0.00	0.00	900.0	0.0	0.0	0.00	0.00	0.0	
3	1862.3	19.25	267.48	1844.3	-7.0	-160.0	2.00	267.48	160.1	
4	5157.8	19.25	267.48	4955.7	-54.8	-1245.2	0.00	0.00	1246.4	
5	6120.2	0.00	0.00	5900.0	-61.9	-1405.2	2.00	180.00	1406.6	TARGET BHL 1320'FNL, 2260'FWL
6	7905.2	0.00	0.00	7685.0	-61.9	-1405.2	0.00	0.00	1406.6	