

# ENSIGN

## Directional

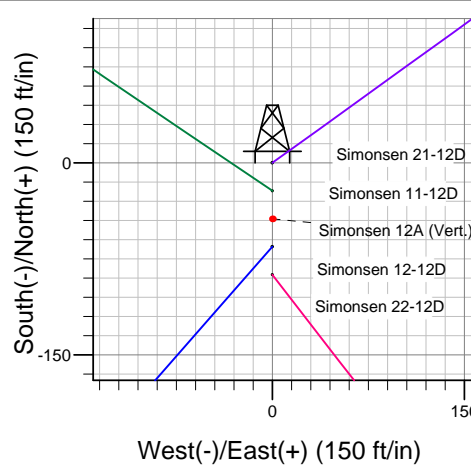
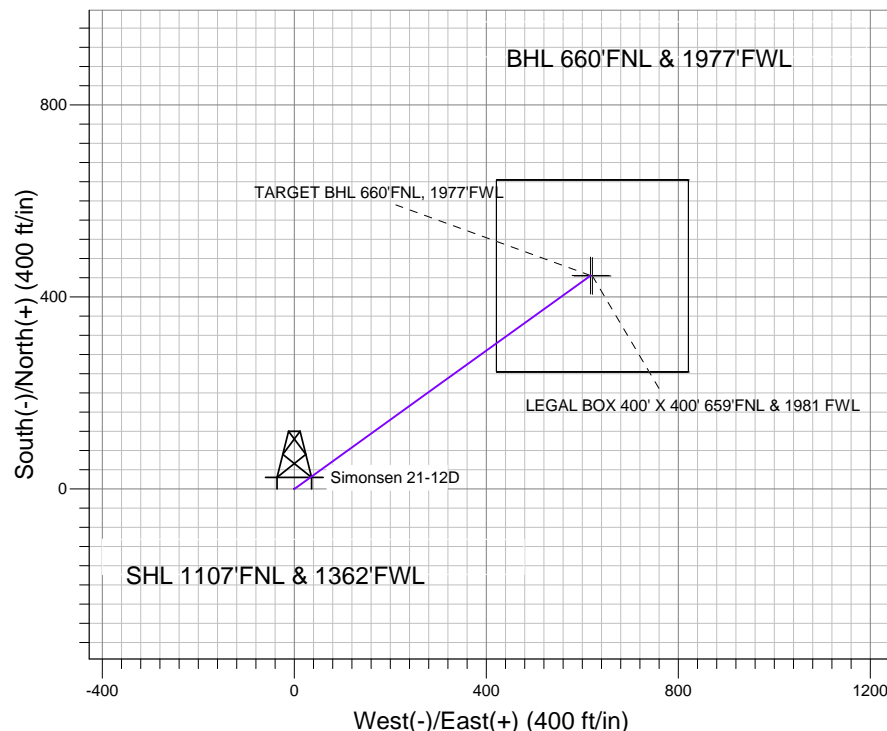
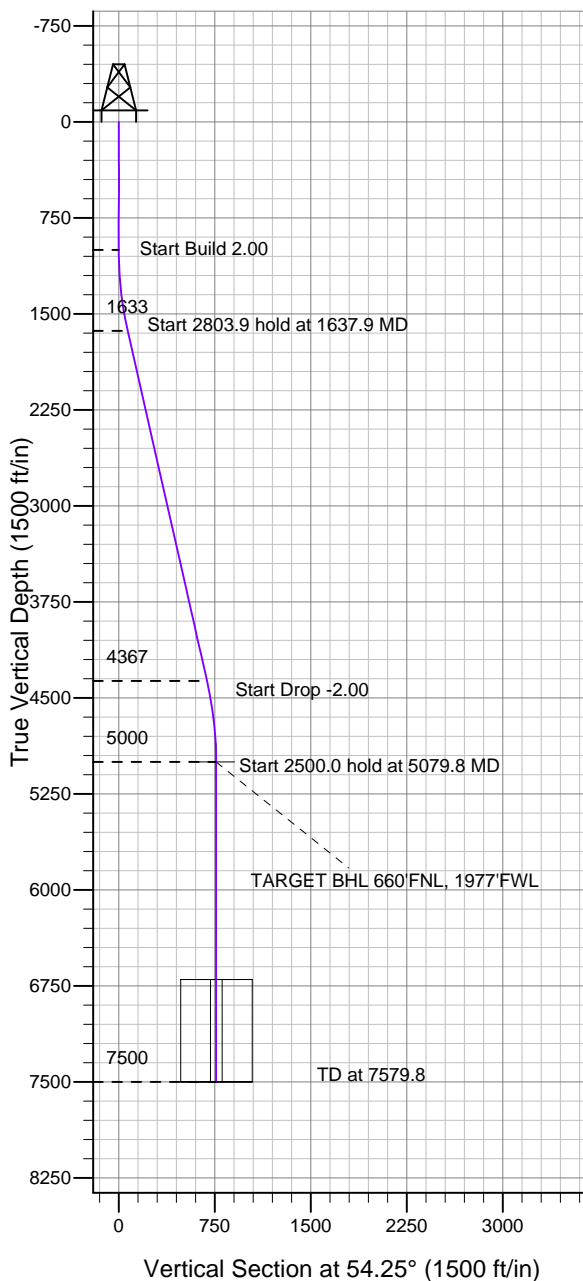
Well Name: Simonsen 21-12D

Surface Location: Simonsen 22-12D Pad Sec.12-T6N-R67W  
North American Datum 1983 US State Plane 1983 Colorado Northern Zone

Ground Elevation: 4864.0

+N/-S +E/-W Northing Easting Latitude Longitude Slot  
0.0 0.0 1427813.51 3181770.58 40° 30' 21.276 N 104° 50' 46.752 W  
Original Well Elev WELL @ 4877.0ft (Original Well Elev)

### PETROLEUM DEVELOPMENT CORP Weld County CO



Simonsen 22-12D Pad Sec.12-T6N-R67W  
Simonsen 21-12D  
Plan #1 (10-20-10)  
13:41, October 27 2010



Azimuths to True North  
Magnetic North: 9.01°

Magnetic Field  
Strength: 53246.6snT  
Dip Angle: 67.15°  
Date: 10/20/2010  
Model: IGRF2010

#### WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
TARGET BHL 660'FNL, 1977'FWL	5000.0	444.5	617.3	40° 30' 25.668 N	104° 50' 38.760 W	Point
LEGAL BOX 400' X 400' 659'FNL & 1981'FWL	6700.0	443.5	621.3	40° 30' 25.658 N	104° 50' 38.709 W	Rectangle (Sides: L400.0 W400.0)

#### 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	1000.0	0.00	0.00	1000.0	0.0	0.0	0.00	0.00	0.0	
3	1637.9	12.76	54.25	1632.7	41.3	57.4	2.00	54.25	70.7	
4	4441.8	12.76	54.25	4367.3	403.2	559.9	0.00	0.00	690.0	
5	5079.8	0.00	0.00	5000.0	444.5	617.3	2.00	180.00	760.7	TARGET BHL 660'FNL, 1977'FWL
6	7579.8	0.00	0.00	7500.0	444.5	617.3	0.00	0.00	760.7	