

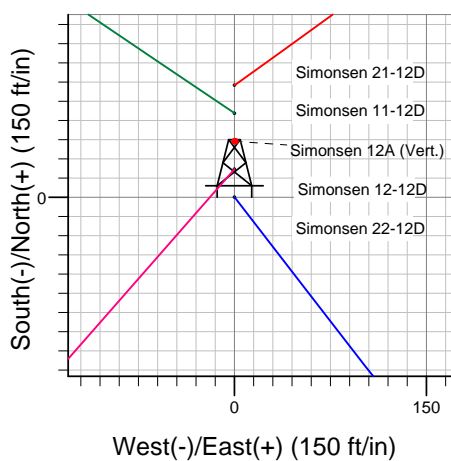
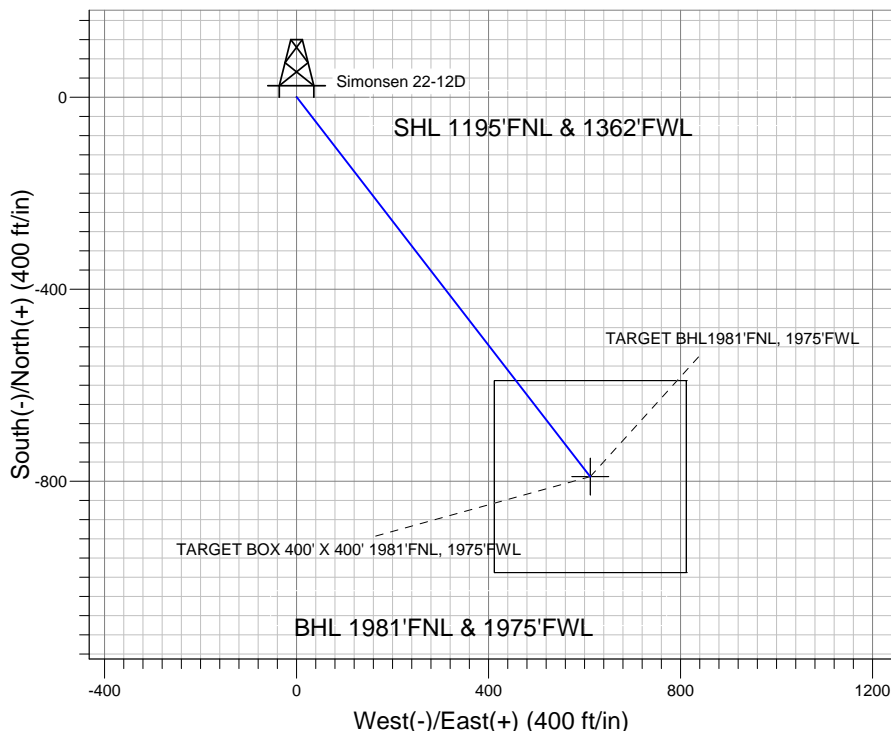
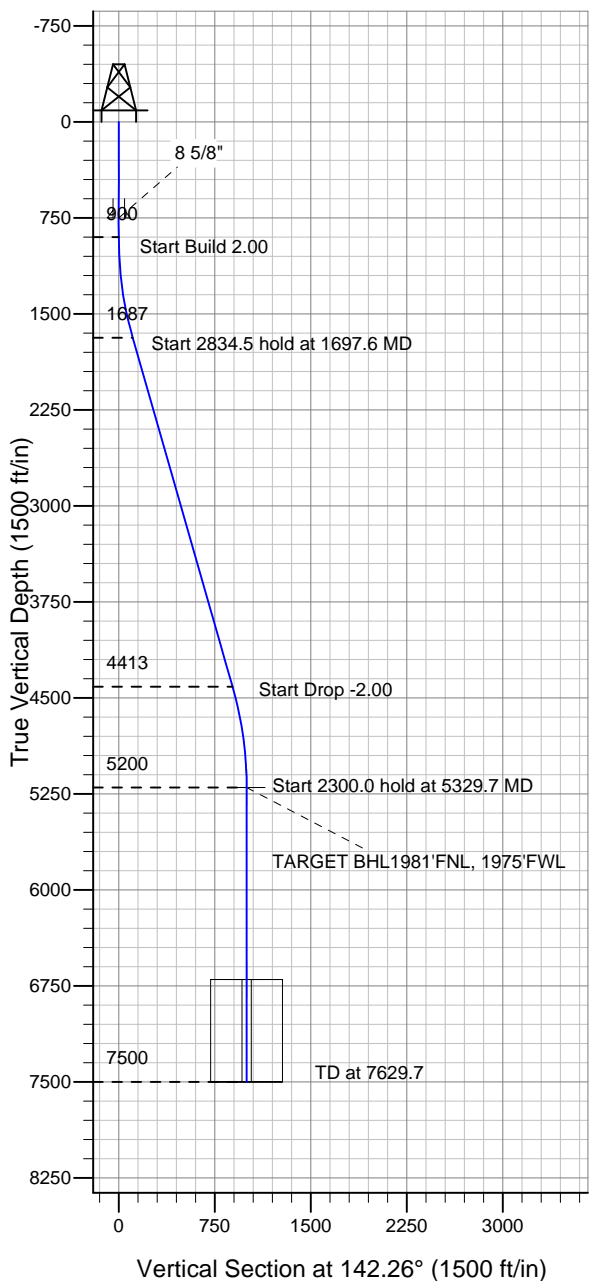
# ENSIGN

## Directional

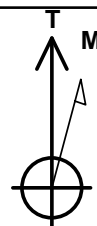
### Well Name: Simonsen 22-12D

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 1427726.08 3181771.23 40° 30' 20.412 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 22-12D  
 Plan #1 (10-20-10)  
 10:52, October 27 2010



Azimuths to True North  
 Magnetic North: 9.01°

Magnetic Field  
 Strength: 53246.4snT  
 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 BHL1981'FNL, 1975'FWL	5200.0	-790.6	611.8	40° 30' 12.600 N	104° 50' 38.832 W	Point
TARGET BOX 400' X 400' 1981'FNL, 1975'FWL	6700.0	-790.6	611.8	40° 30' 12.600 N	104° 50' 38.832 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	900.0	0.00	0.00	900.0	0.0	0.0	0.00	0.00	0.0	
3	1697.6	15.95	142.26	1687.3	-87.2	67.5	2.00	142.26	110.3	
4	4532.1	15.95	142.26	4412.7	-703.3	544.3	0.00	0.00	889.3	
5	5329.7	0.00	0.00	5200.0	-790.6	611.8	2.00	180.00	999.6	TARGET BHL1981'FNL, 1975'FWL
6	7629.7	0.00	0.00	7500.0	-790.6	611.8	0.00	0.00	999.6	