

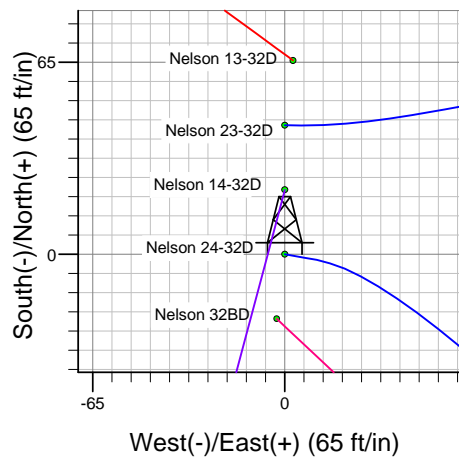
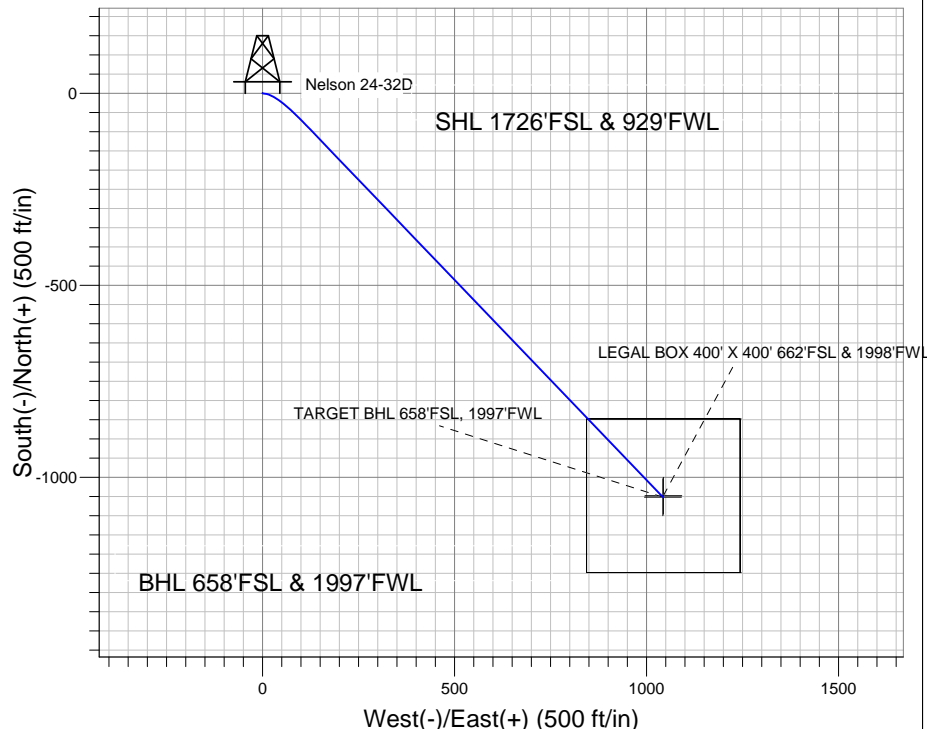
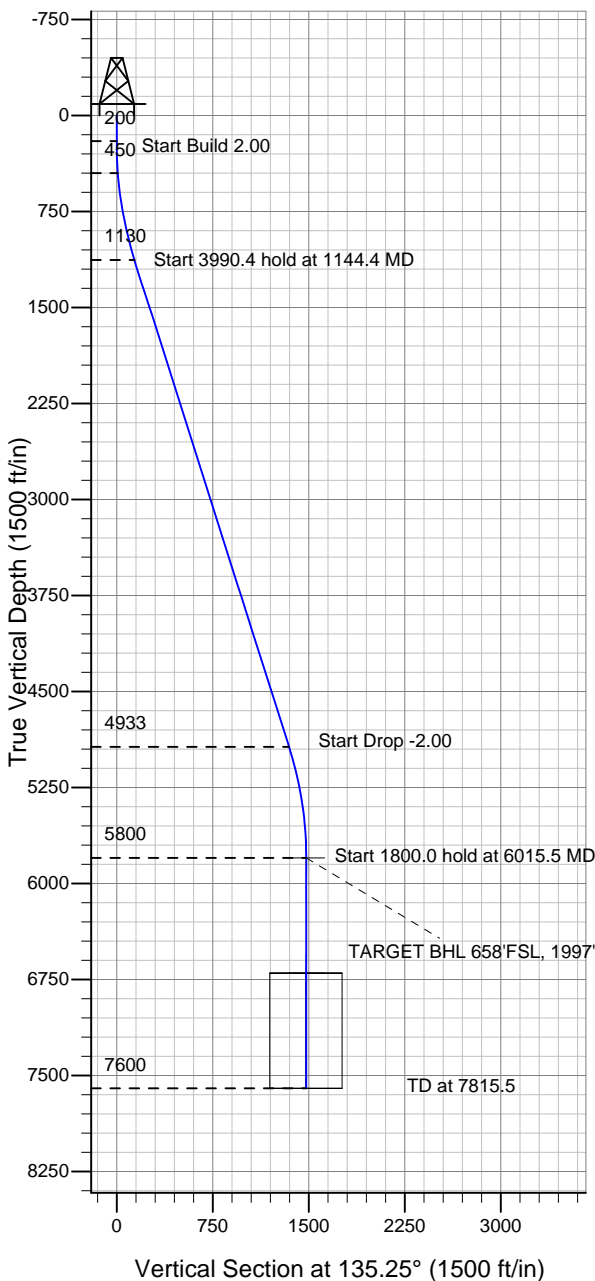
# ENSIGN

## Directional

### Well Name: Nelson 24-32D

Surface Location: Nelson 32BD Pad Sec.32-T7N-R66W  
 North American Datum 1983 US State Plane 1983 Colorado Northern Zone  
 Ground Elevation: 4860.0  
 +N/-S +E/-W Northing Easting Latitude Longitude Slot  
 0.0 0.0 1436087.53 3191914.61 40° 31' 42.276 N 104° 48' 34.596 W  
 Original Well Elev WELL @ 4873.0ft (Original Well Elev)

### PETROLEUM DEVELOPMENT CORP Weld County CO



Azimuths to True North  
 Magnetic North: 8.96°  
 Magnetic Field  
 Strength: 53238.4snT  
 Dip Angle: 67.16°  
 Date: 1/11/2011  
 Model: IGRF2010

### WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
TARGET BHL 658' FSL, 1997' FWL	5800.0	-1051.8	1042.6	40° 31' 31.882 N	104° 48' 21.094 W	Point
LEGAL BOX 400' X 400' 662' FSL & 1998' FWL	6700.0	-1047.8	1043.6	40° 31' 31.922 N	104° 48' 21.082 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	200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.0	
3	450.0	5.00	100.00	449.7	-1.9	10.7	2.00	100.00	8.9	
4	1144.4	17.61	136.19	1129.8	-83.4	113.8	2.00	48.12	139.3	
5	5134.7	17.61	136.19	4933.1	-954.8	949.7	0.00	0.00	1346.7	
6	6015.5	0.00	0.00	5800.0	-1051.8	1042.6	2.00	180.00	1481.0	TARGET BHL 658' FSL, 1997' FWL
7	7815.5	0.00	0.00	7600.0	-1051.8	1042.6	0.00	0.00	1481.0	