

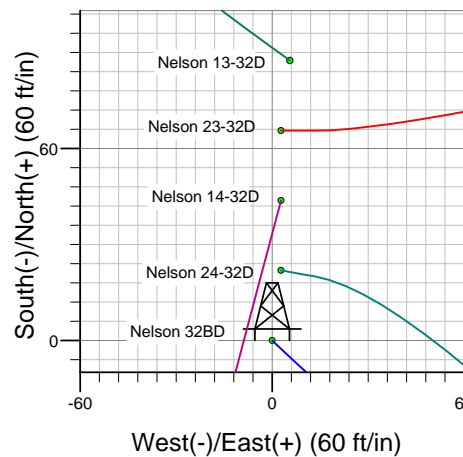
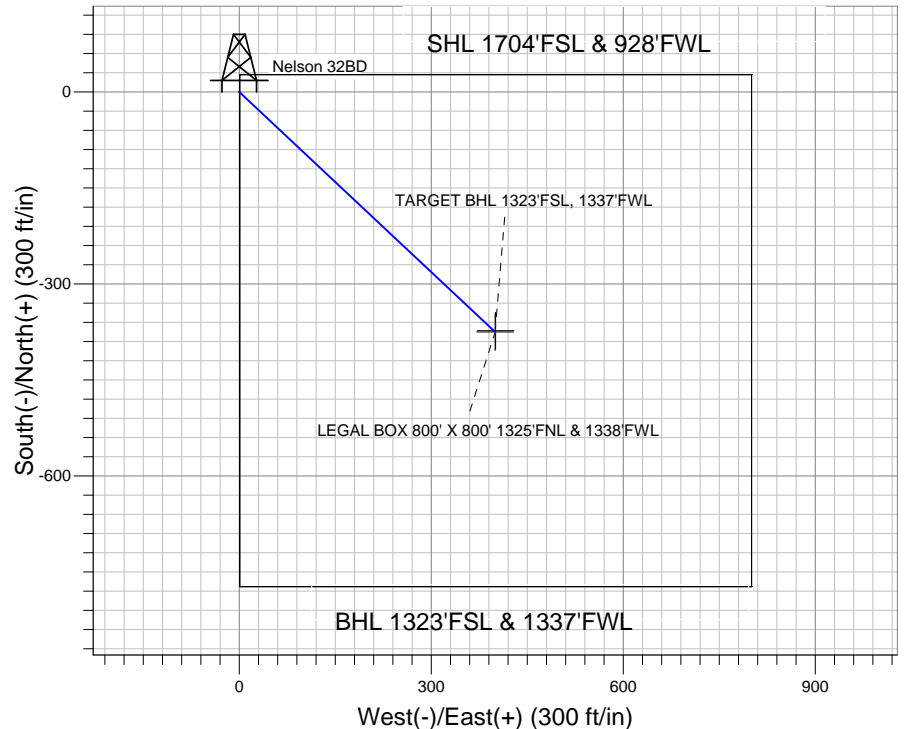
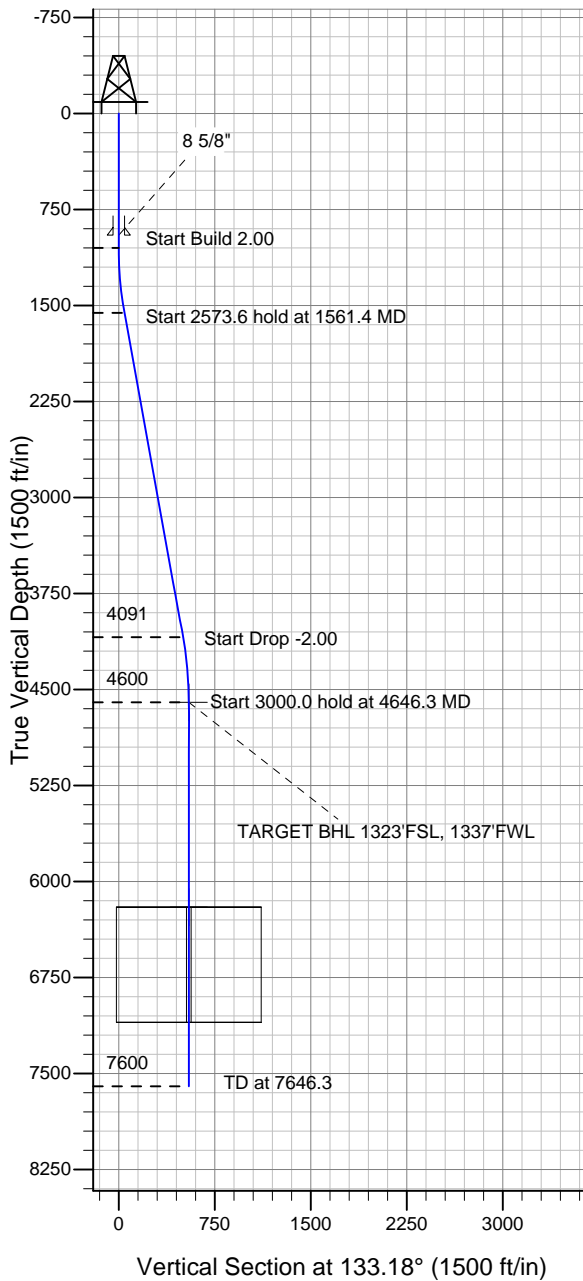
ENSIGN

Directional

Well Name: Nelson 32BD

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 1436065.65 3191912.00 40° 31' 42.060 N 104° 48' 34.632 W
 Original Well Elev WELL @ 4873.0ft (Original Well Elev)

PETROLEUM DEVELOPMENT CORP Weld County CO



Nelson 32BD Pad Sec.32-T7N-R66W
 Nelson 32BD
 Plan #1 (1-04-11)
 6:47, January 11 2011



Azimuths to True North
 Magnetic North: 8.96°

Magnetic Field
 Strength: 53238.3snT
 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 1323'FSL, 1337'FWL	4600.0	-375.0	399.6	40° 31' 38.354 N	104° 48' 29.457 W	Point
LEGAL BOX 800' X 800' 1325'FNL & 1338'FWL	6200.0	-373.0	400.6	40° 31' 38.374 N	104° 48' 29.444 W	Rectangle (Sides: L800.0 W800.0)

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	1050.0	0.00	0.00	1050.0	0.0	0.0	0.00	0.00	0.0	
3	1561.4	10.23	133.18	1558.7	-31.1	33.2	2.00	133.18	45.5	
4	4134.9	10.23	133.18	4091.3	-343.8	366.4	0.00	0.00	502.5	
5	4646.3	0.00	0.00	4600.0	-375.0	399.6	2.00	180.00	548.0	TARGET BHL 1323'FSL, 1337'FWL
6	7646.3	0.00	0.00	7600.0	-375.0	399.6	0.00	0.00	548.0	