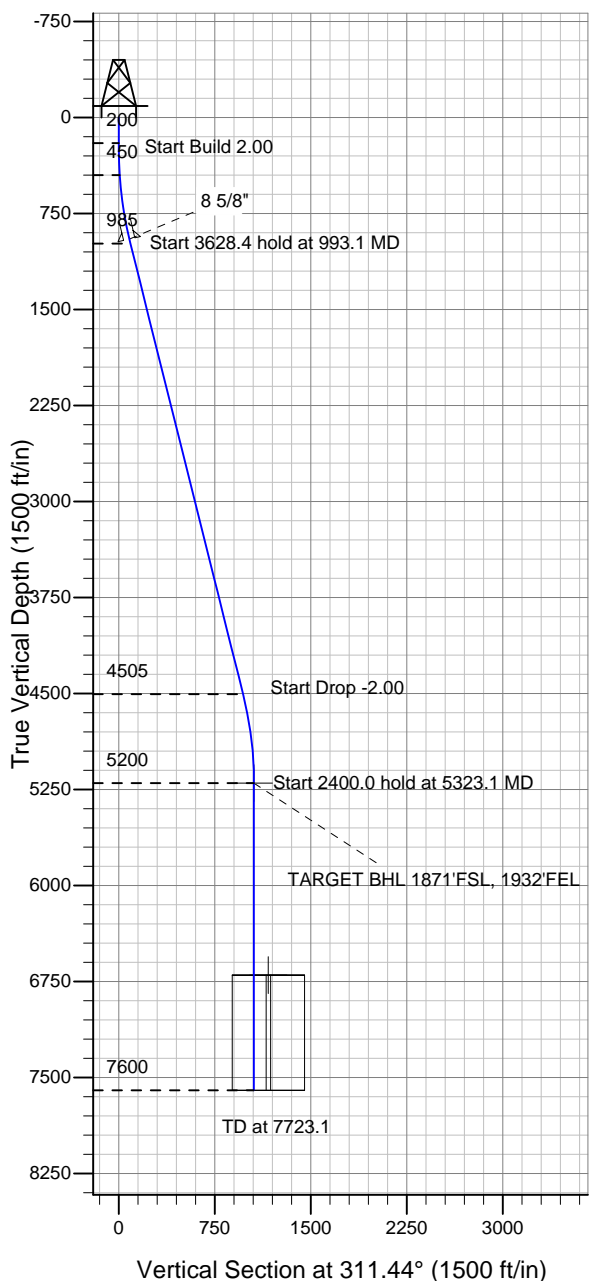


ENSIGN

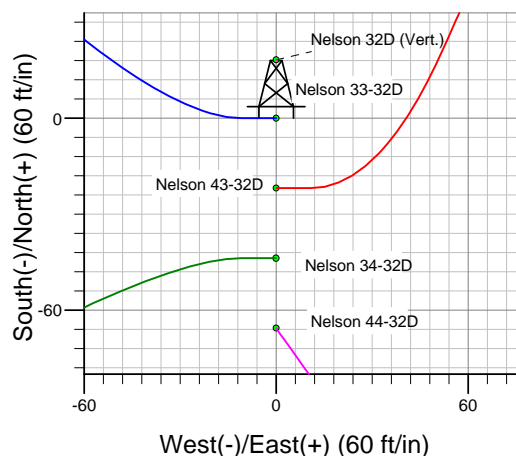
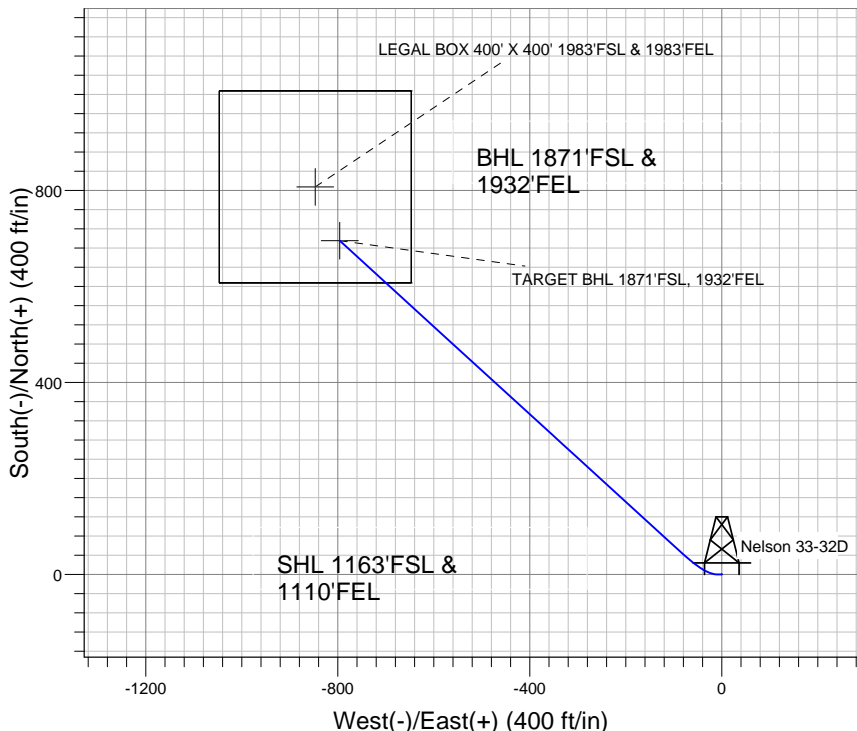
Directional

Well Name: Nelson 33-32D

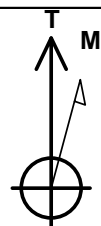
Surface Location: Nelson 33-32D Pad Sec.32-T7N-R66W
 North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone
 Ground Elevation: 4860.0
 +N/-S +E/-W Northing Easting Latitude Longitude Slot
 0.0 0.0 1435592.14 3195173.82 40° 31' 37.128 N 104° 47' 52.440 W
 Original Well Elev WELL @ 4873.0ft (Original Well Elev)



PETROLEUM DEVELOPMENT CORP Weld County CO



Nelson 33-32D Pad Sec.32-T7N-R66W
 Nelson 33-32D
 Plan #2 (1-31-11)
 17:14, February 04 2011



Azimuths to True North
 Magnetic North: 8.95°
 Magnetic Field
 Strength: 53237.2snT
 Dip Angle: 67.16°
 Date: 1/17/2011
 Model: IGRF2010

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
TARGET BHL 1871'FSL, 1932'FEL	5200.0	695.1	-796.3	40° 31' 43.997 N	104° 48' 2.752 W	Point
LEGAL BOX 400' X 400' 1983'FSL & 1983'FEL	6700.0	807.1	-847.3	40° 31' 45.103 N	104° 48' 3.413 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	270.00	449.7	0.0	-10.9	2.00	270.00	8.2	
4	993.1	14.03	312.39	985.3	44.5	-83.4	2.00	60.14	92.0	
5	4621.6	14.03	312.39	4505.5	637.5	-733.1	0.00	0.00	971.5	
6	5323.1	0.00	0.00	5200.0	695.1	-796.3	2.00	180.00	1057.0	TARGET BHL 1871'FSL, 1932'FEL
7	7723.1	0.00	0.00	7600.0	695.1	-796.3	0.00	0.00	1057.0	