



Project: NW TIOGA
Site: LINGLE #1102
Well: LINGLE #1102-23H
Wellbore: LINGLE #1102-23H
Design: COMPASS Design #1
Rig: ENSIGN 162

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Start Build
10082.50	0.00	0.00	10082.50	0.00	0.00	0.00	0.00	0.00	Start Build/Turn
10457.33	30.00	53.80	10440.44	56.64	77.39	8.00	53.80	18.62	End Build/Turn
11523.14	91.00	335.00	11000.05	848.94	64.80	8.00	-79.78	742.01	TD
20635.14	91.00	335.00	10841.02	9105.96	-3785.51	0.00	0.00	9852.62	TD

Surface Location:

UA NAD83
NAD83 / PA North (ftUS) [1188_2271]
Elevation: DFE @ 1763.00ft (ENSIGN 162)

Northing 640255.63
Easting 2066562.97
Latitude 41° 55' 23.956 N
Longitude 77° 23' 22.793 W

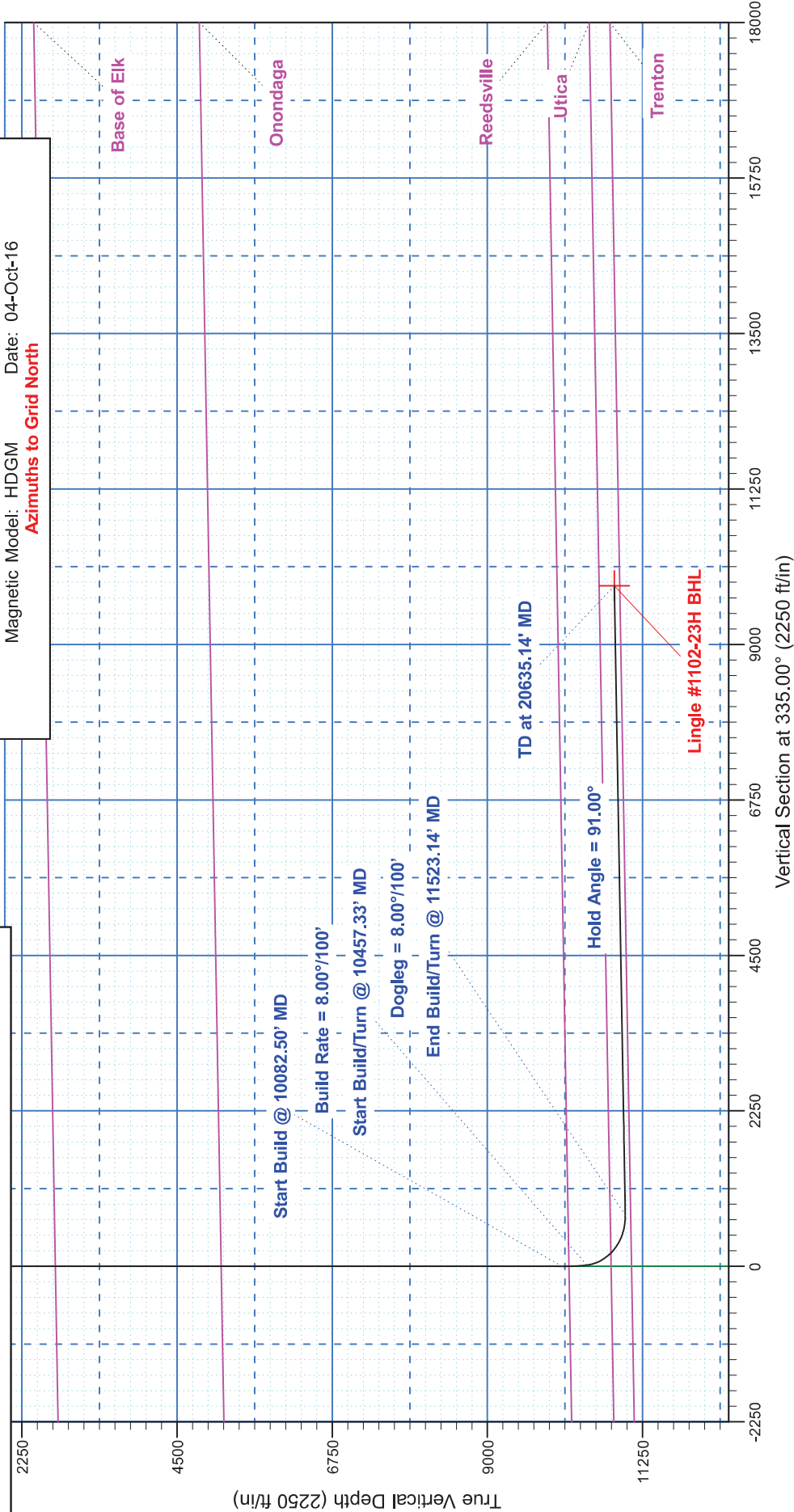
WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name Lingle #1102-23H BHL
TVD 10841.02
+N/-S 9105.96
+E/-W -3785.51
Northing 649361.57
Easting 2062777.46
Shape Point

To convert a Magnetic Direction to a Grid Direction, Subtract 10.92°

Magnetic Model: HDGM Date: 04-Oct-16

Azimuths to Grid North



Vertical Section at 335.00° (2250 ft/in)