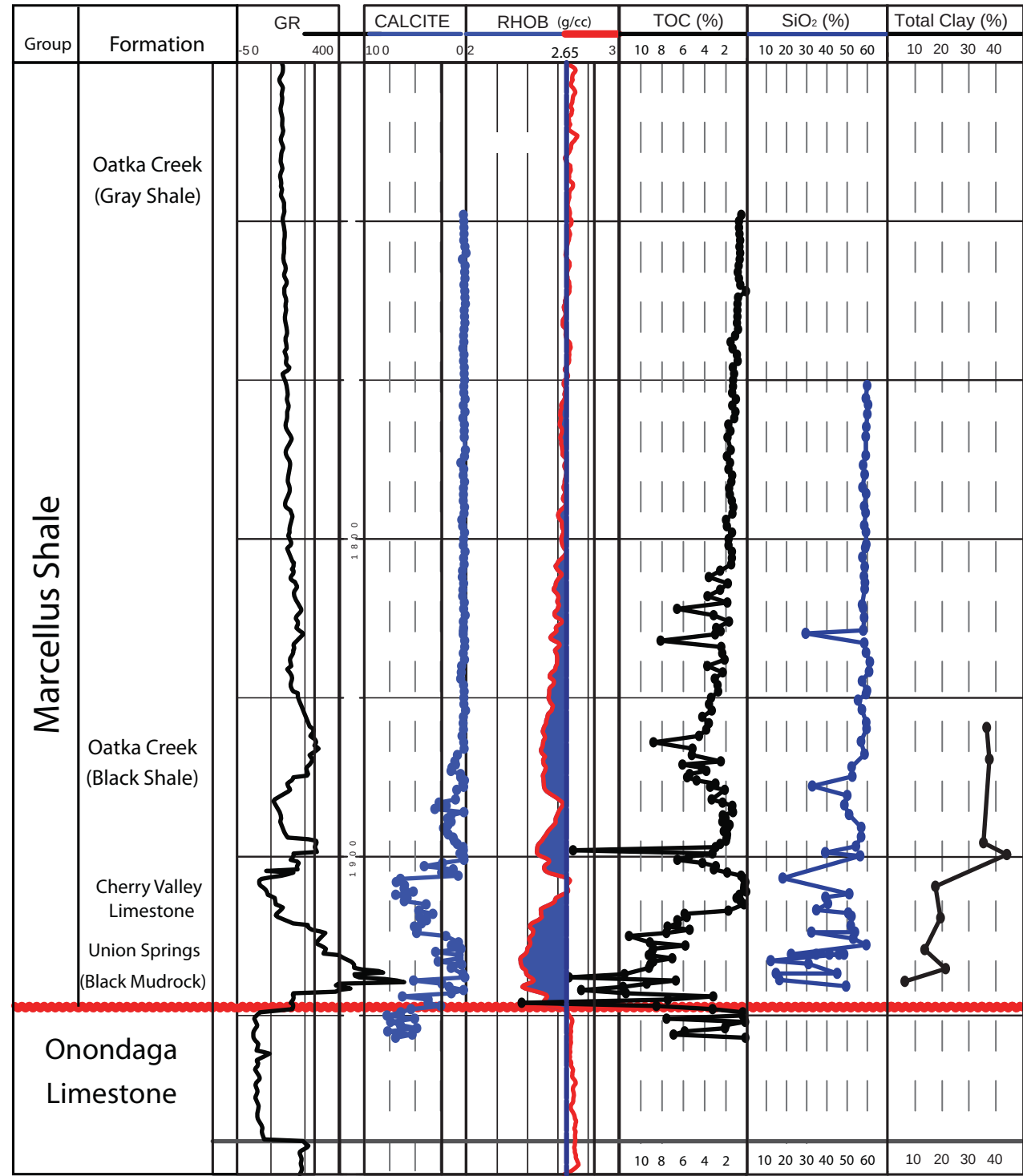
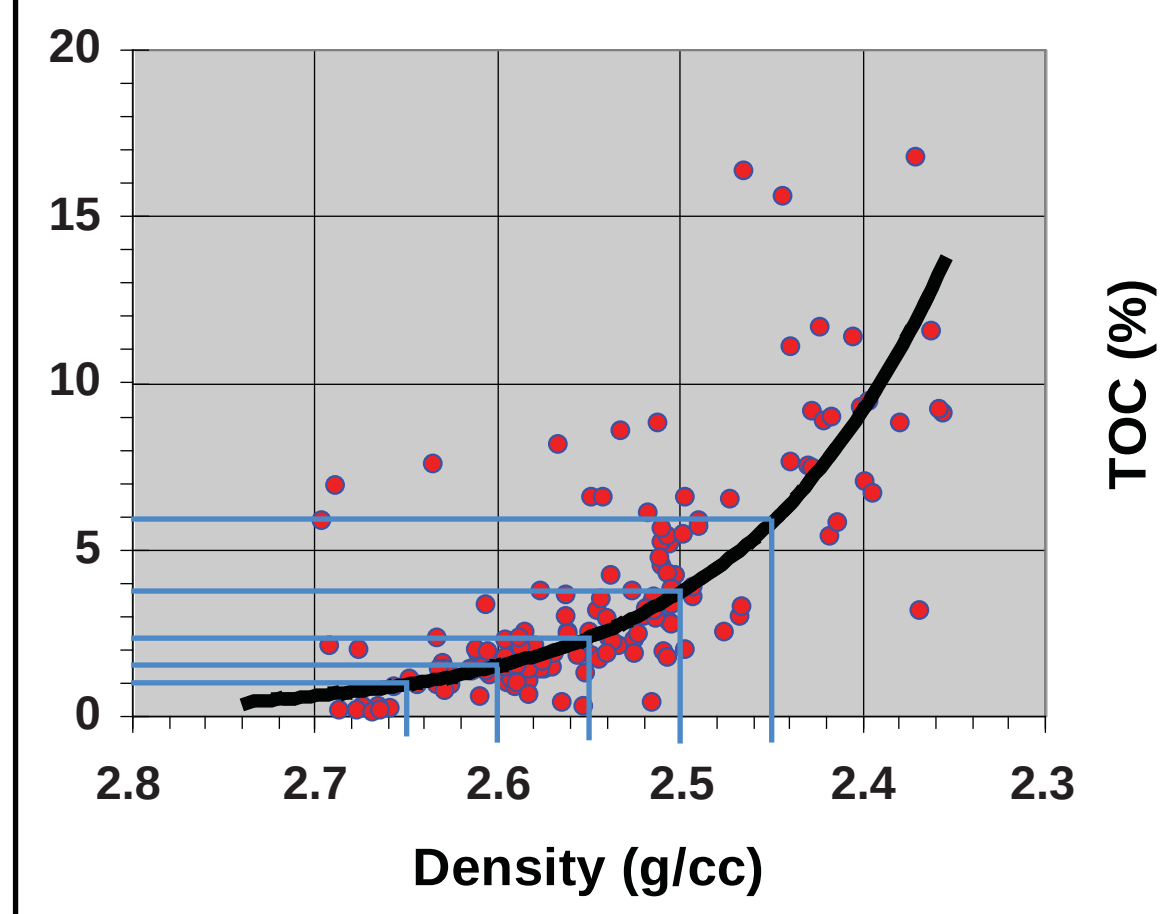


Beaver Meadows #1 Core



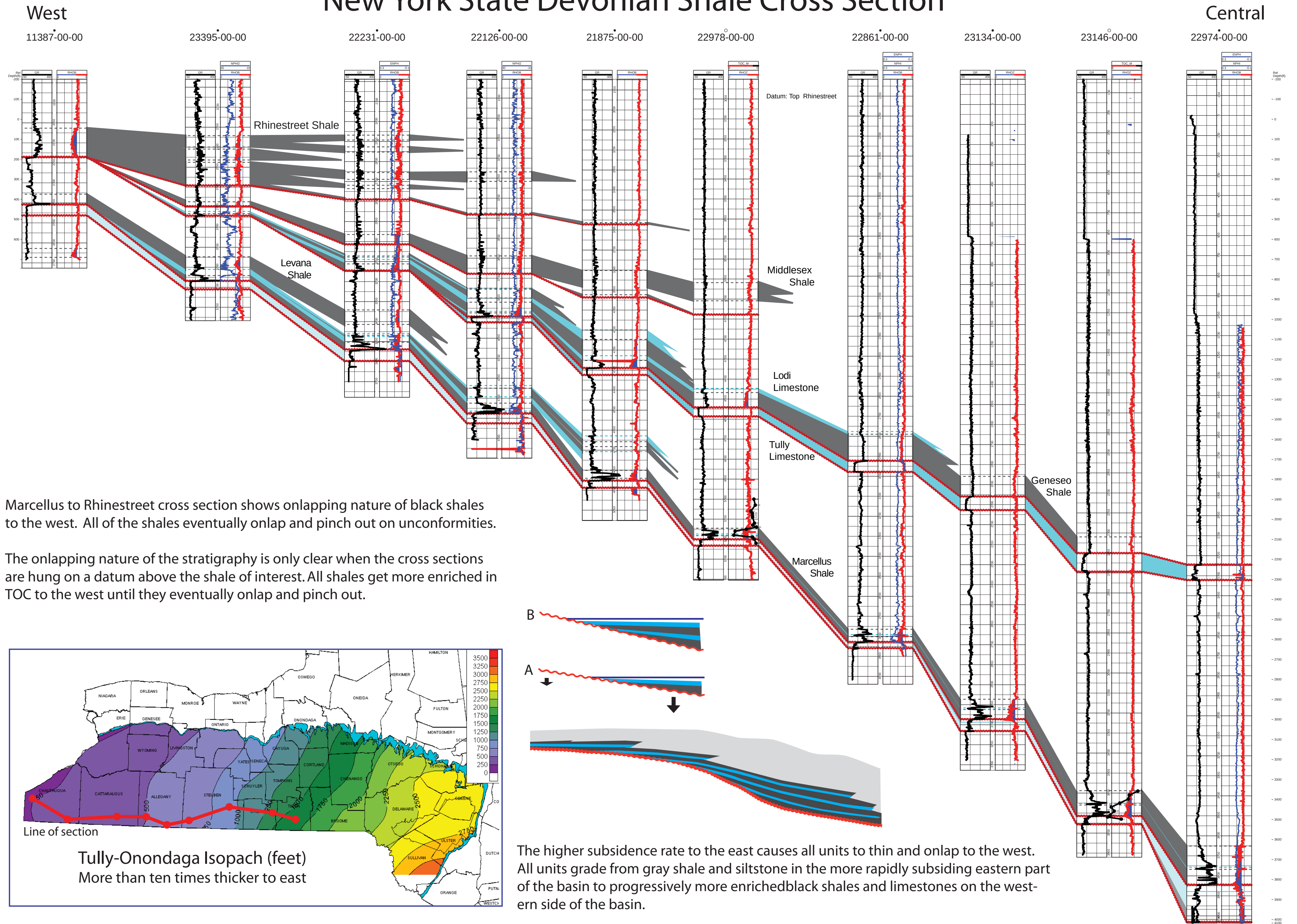
Marcellus Core from Beaver Meadows # 1. Samples were taken every 1-2 feet and analyzed for TOC and carbonate content. Density log matches TOC log very closely and is shaded at <2.65 g/cc.

TOC-Density, Beaver Meadows Core

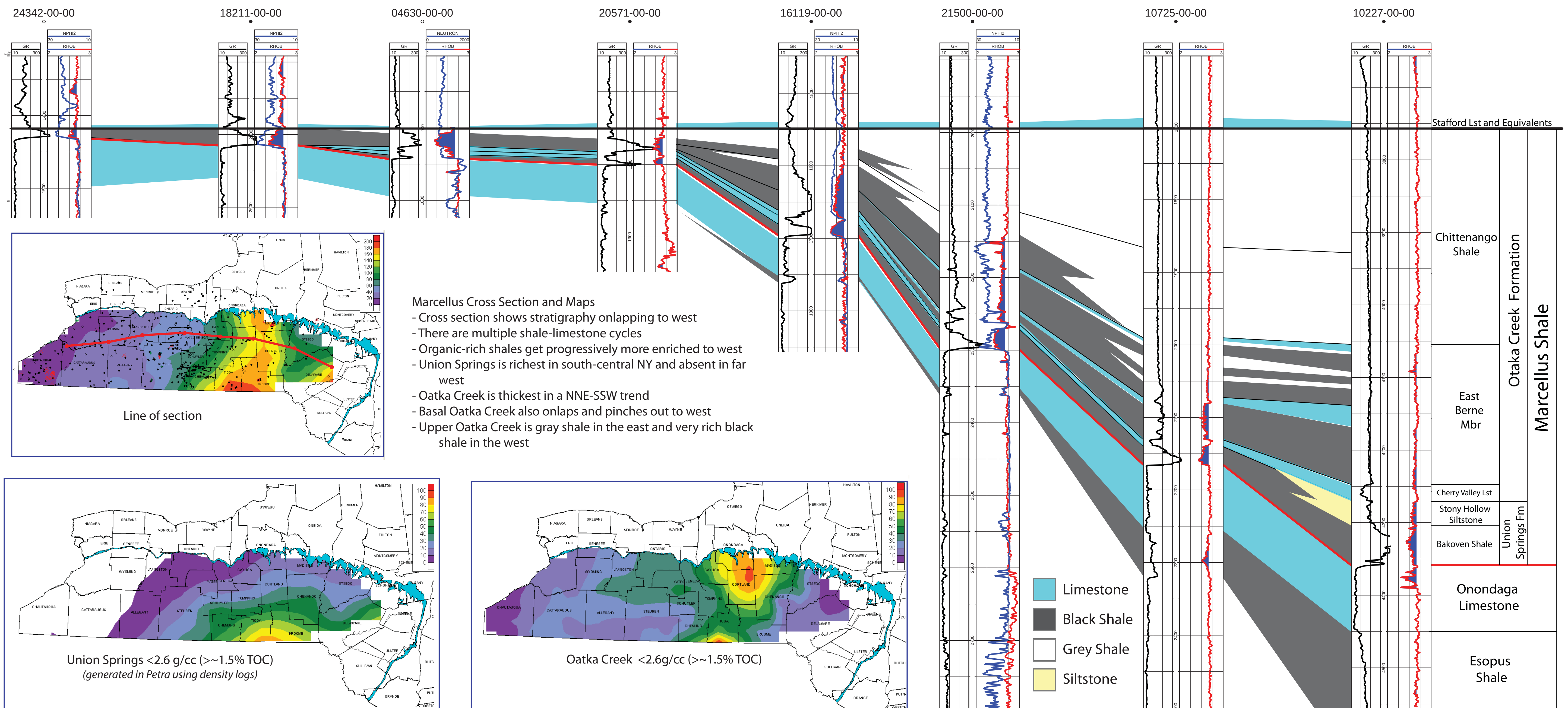


Crossplot with density from log cross-plotted with TOC from core. Vitrinite reflectance value of 1.5 at this location.

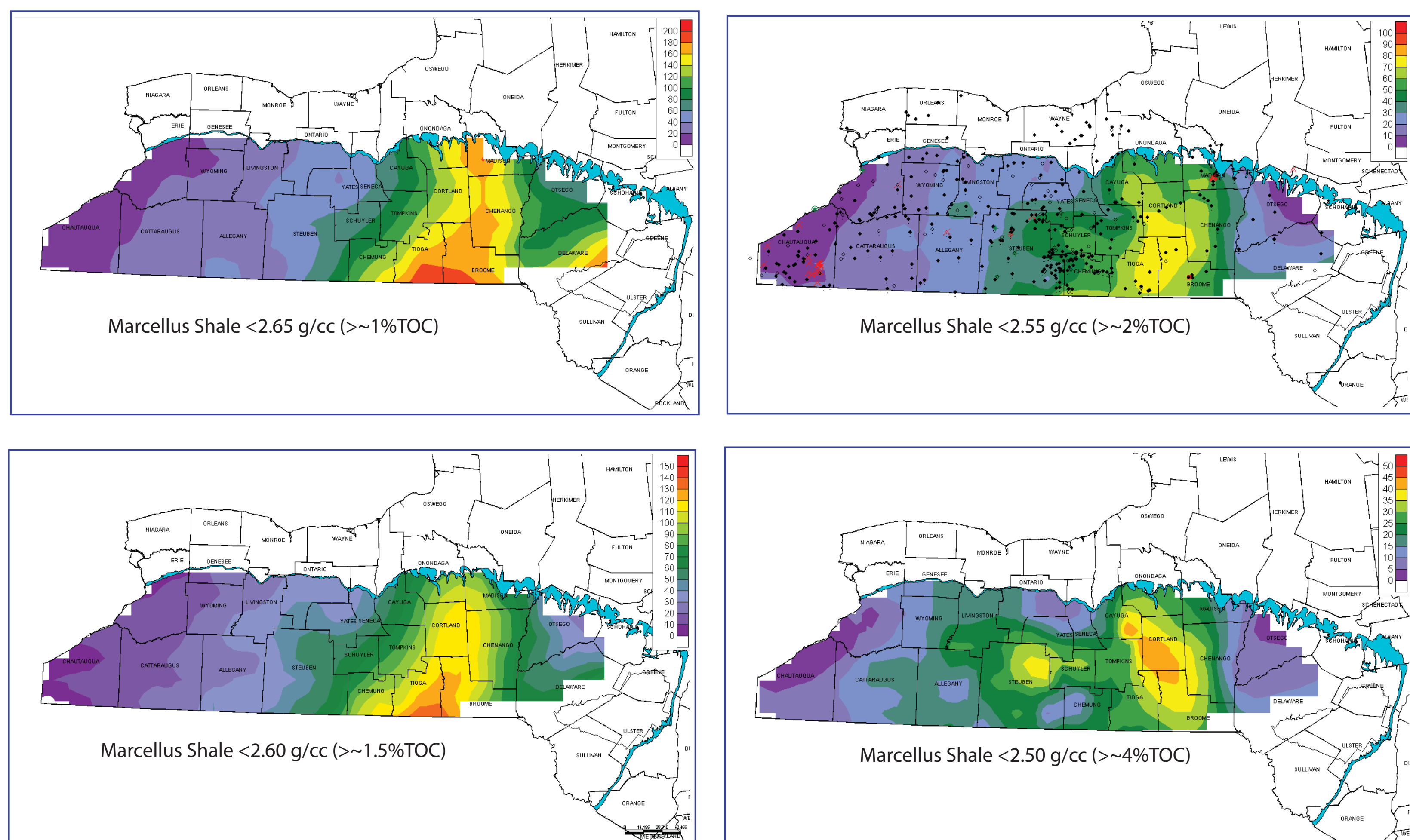
New York State Devonian Shale Cross Section



Marcellus Shale



Marcellus Shale Density Thickness Maps



Marcellus Shale Fairway Map

