



Figure 11. Calculated thermal maturity (vitrinite reflectance, $R_o\%$) profiles for the Ordovician Utica Shale (Rowan, 2006) along geologic cross section D-D' (Ryder, Crangle, and others, in press). The profiles were calculated for specific times including the present (0 Ma), maximum burial (270 Ma), and earlier times selected to show the evolution of thermal maturation through time. The approximate top of the gas window is indicated by the bottom of the yellow shaded region ($R_o\%=1.4$). See figure 3 for the location of geologic cross section D-D' and the No. 1 Drake and No. 1 Burley wells (solid vertical lines).