



Figure 10. Calculated thermal maturity (vitrinite reflectance, $R_o\%$) profiles for the Ordovician Utica Shale (Rowan, 2006) along geologic cross section E-E' (Ryder and others, 2008). 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 ($R_o\%=1.4$). Geologic cross section E-E' follows the same line of section as the restored stratigraphic cross section through Upper Cambrian, Ordovician, and Lower Silurian rocks shown on figure 3. Also shown on figure 3 are the locations of the No. 1 Windbigler, No. 1 Ullman, and the No. 1 Gainer-Lee wells (solid vertical lines).