



Figure UDs-6. Schematic diagram showing the relative distribution of the various black shale tongues along a line of section from eastern Kentucky to central West Virginia. The Marcellus, Geneseo, Middlesex, and Rhinestreet black shale tongues were deposited within a well-defined foreland basin and pinch out westward due to non-deposition upon a positive Cincinnati arch. The Huron and Sunbury shale units extend across the arch reflecting the infilling of the foreland basin perhaps coincident with subsidence along the arch. The eastward termination of the black shales is due to facies change related to dilution of organic material by clastics in locations nearer to shore. Modified from Ettensohn and others (1988).