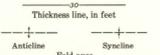
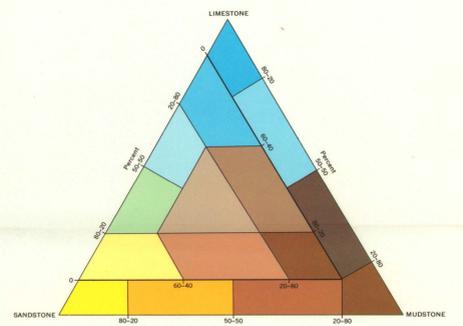
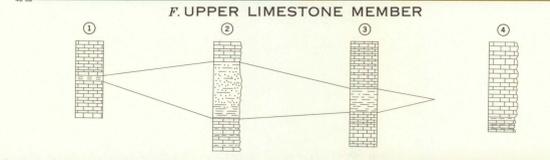
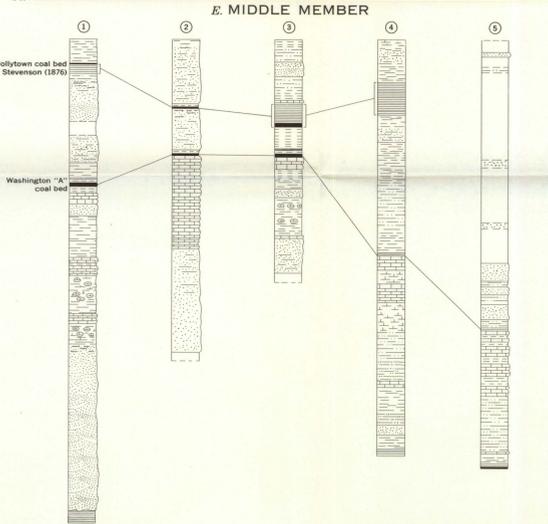
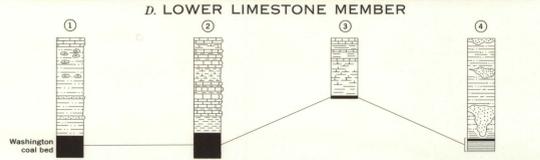
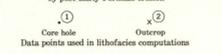


EXPLANATION

Symbols for rock types shown in columnar sections



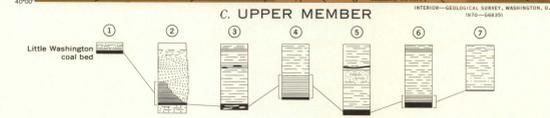
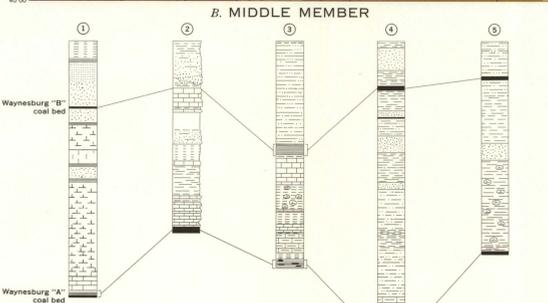
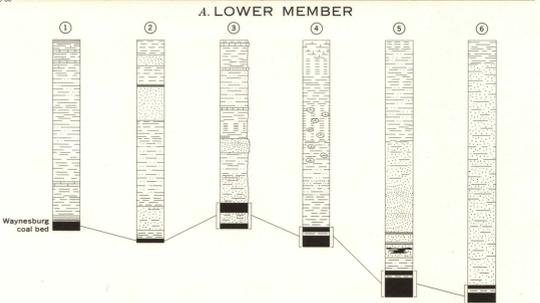
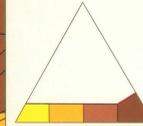
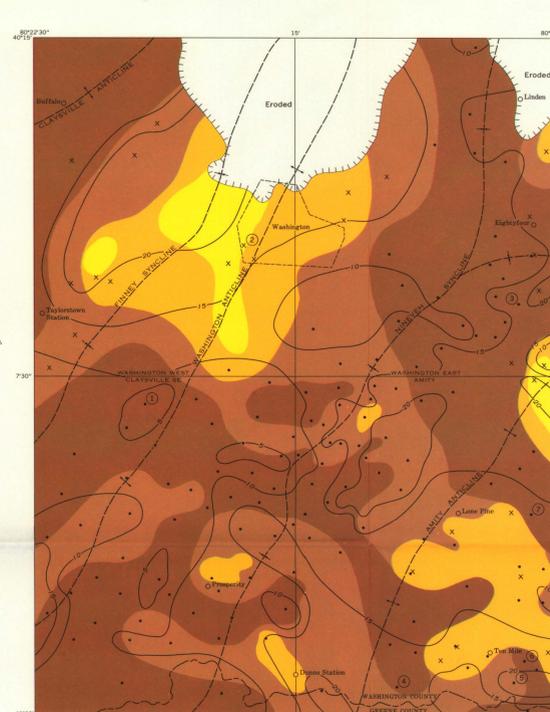
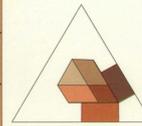
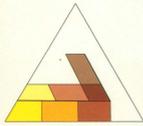
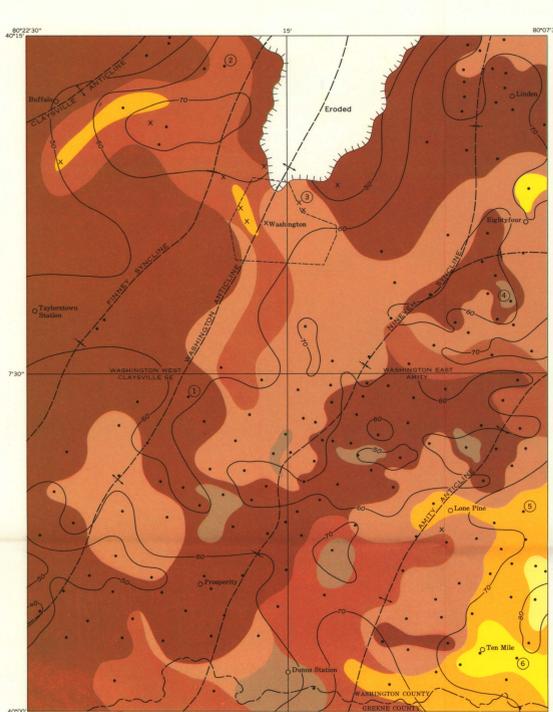
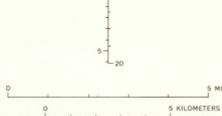
Generalized area where member has been removed by post-Early Permian erosion



INDEX TO LITHOFACIES PATTERNS

The lithofacies classification is based on lateral and vertical variations in the abundance of three general types of rock: sandstone, mudstone, and limestone. The diagram shows, in percent, the relative abundance of each rock type in a facies. Variations in abundance of only two rock types are shown by the facies along the bottom and right-hand margins of the diagram. The amount of each rock type, excluding coal, was calculated for each data point. All facies are internally gradational; amounts of the three general rock types within a facies may vary within the percentage ranges shown in the diagram. Lithofacies relations in each member are shown in small diagrams beside individual maps. Because the composition of mudstone in the three-end-member diagram is similar to that in the outer two-end-member part, the same pattern is used for both on the map.

METERS FEET



MAPS SHOWING LITHOFACIES AND THICKNESS OF THE MEMBERS OF THE WAYNESBURG AND WASHINGTON FORMATIONS, WASHINGTON AREA, PENNSYLVANIA