

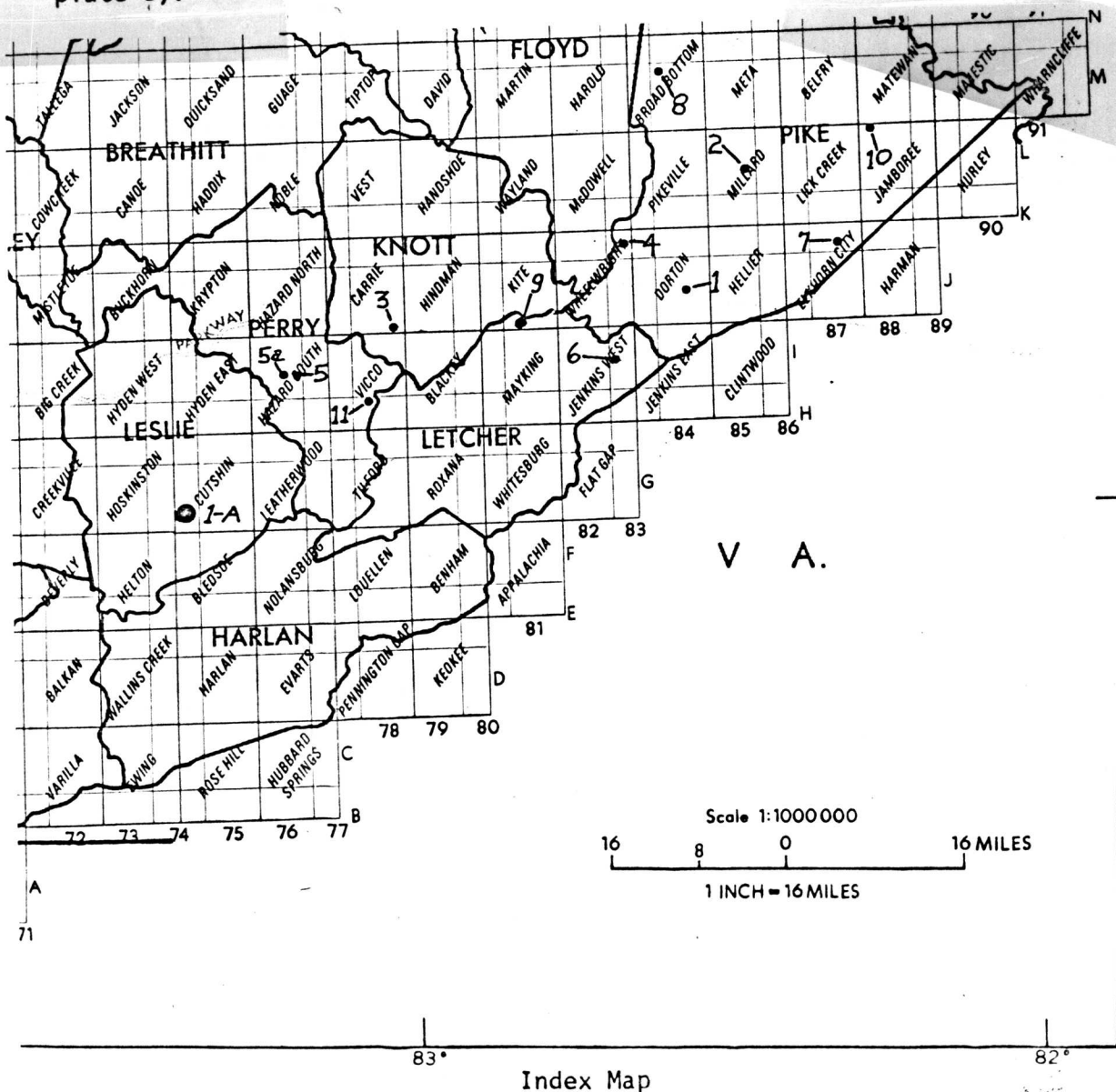
Log of core from a drill hole in southeastern Kentucky

by

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This report consists of a graphic lithologic log of core and five geophysical logs from a hole drilled in southeastern Kentucky for stratigraphic and coal-bed correlations within the Breathitt Formation of Pennsylvanian age. The core was drilled in 1975 under the cooperative mapping program of the Kentucky Geological Survey and the U. S. Geological Survey. The core hole is in alignment with a series of holes (shown below) on open-file report by Donald C. Alvord, 1970. The log is at a scale of 1 inch to 20 feet and the total depth is 1,197 feet. Noteworthy is the fact that the occurrence of 36 inches of coal at the horizon of the Upper Elkhorn No. 3 coal bed at a depth of 311 feet in this hole extends the reserve field for the No. 3 seam about 6 miles westward (See Huddle and others, Coal Reserves of Eastern Kentucky, U. S. G. S. Bull. 1120, plate 8).



Showing the location of the drill hole 1-A in the Cutshin 7 1/2-minute quadrangle and the location of twelve other core holes open-filed by Alvord, 1970. Five minute Carter Coordinates are designated by letters and numbers.