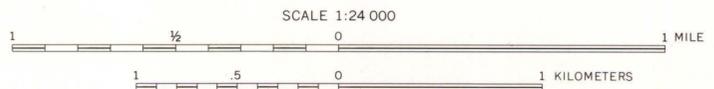


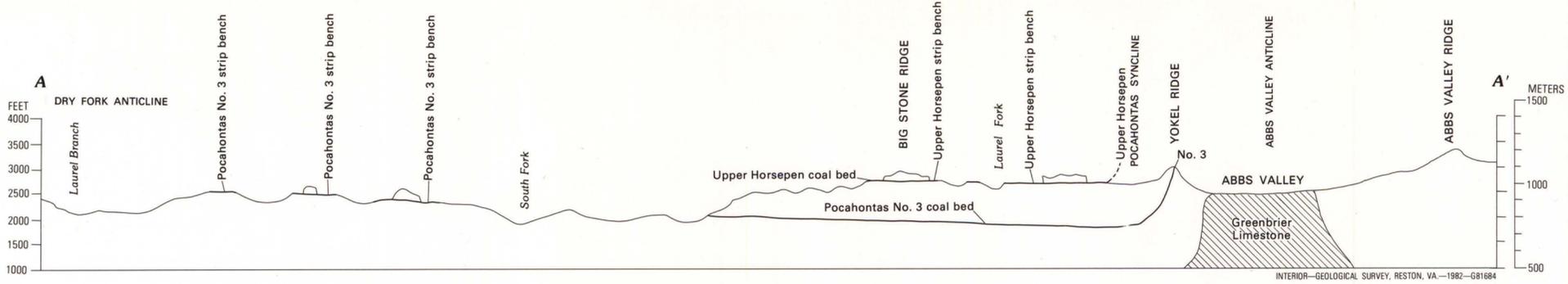
- EXPLANATION**
- Limestone
 - Coal bed—Hachured where strip mined or, locally, where augered
NO. 3, Pocahontas No. 3 coal bed; U.H., Upper Horsepen coal bed; W.C., War Creek coal bed
 - Contact—Dashed where approximately located
 - Structure contour on base of Pocahontas No. 3 coal bed—Dashed where above ground; contour interval 100 feet
 - Coal sample locality—Showing sample number, reflectance value, Parr corrected fixed carbon value, and C₁ atomic ratio, respectively. Δ Pocahontas No. 3; \square Pocahontas No. 4; \circ Upper Horsepen; \circ War Creek—Lower Horsepen
 - Resultant vector of increasing metamorphic grade and coal rank
 - Drill hole from which subsurface data were obtained
 - Transit survey station on Pocahontas No. 3 line of outcrop
 - Adit
 - Caved adit
 - Strike and dip of beds
Inclined
Overturned
 - Syncline—Showing axial trace and direction of plunge
 - A—A' Line of cross section
 - Area of strip-mined coal

SETS OF THREE COAL SAMPLE VALUES—REFLECTANCE, PARR CORRECTED FIXED CARBON, AND C₁ ATOMIC RATIO—THAT FORM POLYGONS OF VALUES ARE SHOWN BY COAL BED. THE RESULTANT VECTOR, R, OF THE POLYGON REPRESENTS ADVANCING METAMORPHIC GRADE AND RANK OF THE COAL BEDS.

Base from Tennessee Valley Authority and U.S. Geological Survey. Gary, 1967; Anawalt, 1968; Tiptop, 1958; and Tazewell North, 1968



Geology mapped by V. A. Trent, 1974-75



GEOLOGIC MAP OF THE STUDY AREA IN WEST VIRGINIA AND VIRGINIA