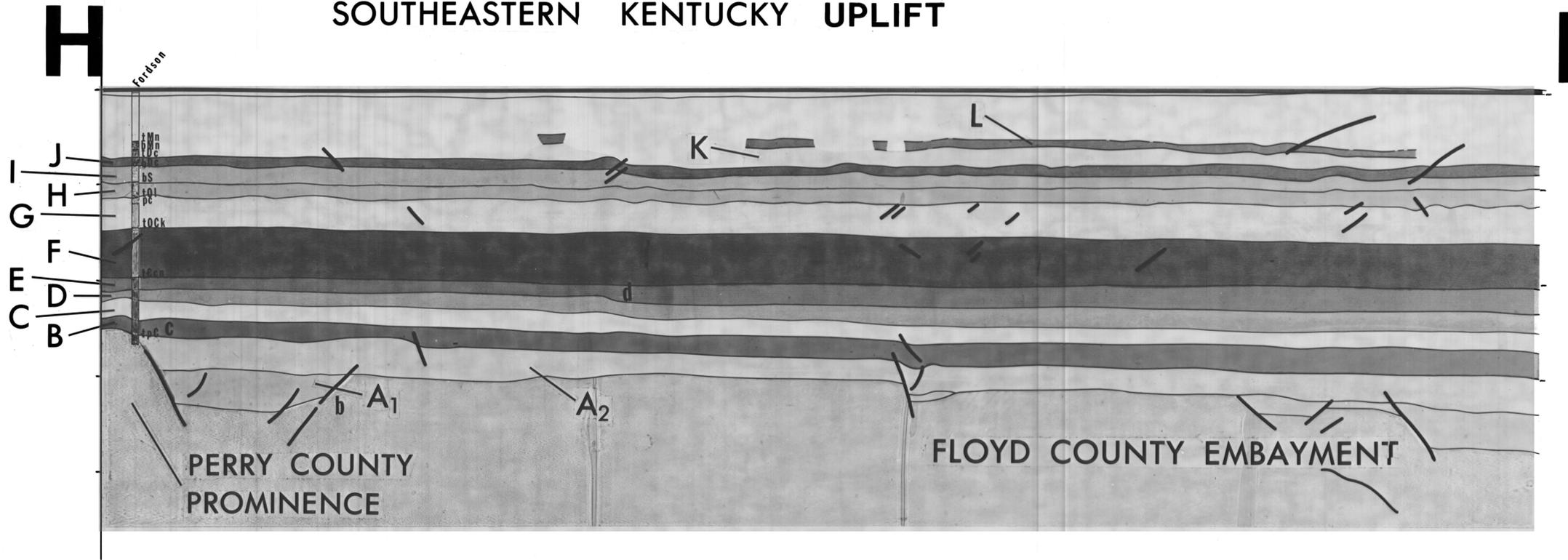


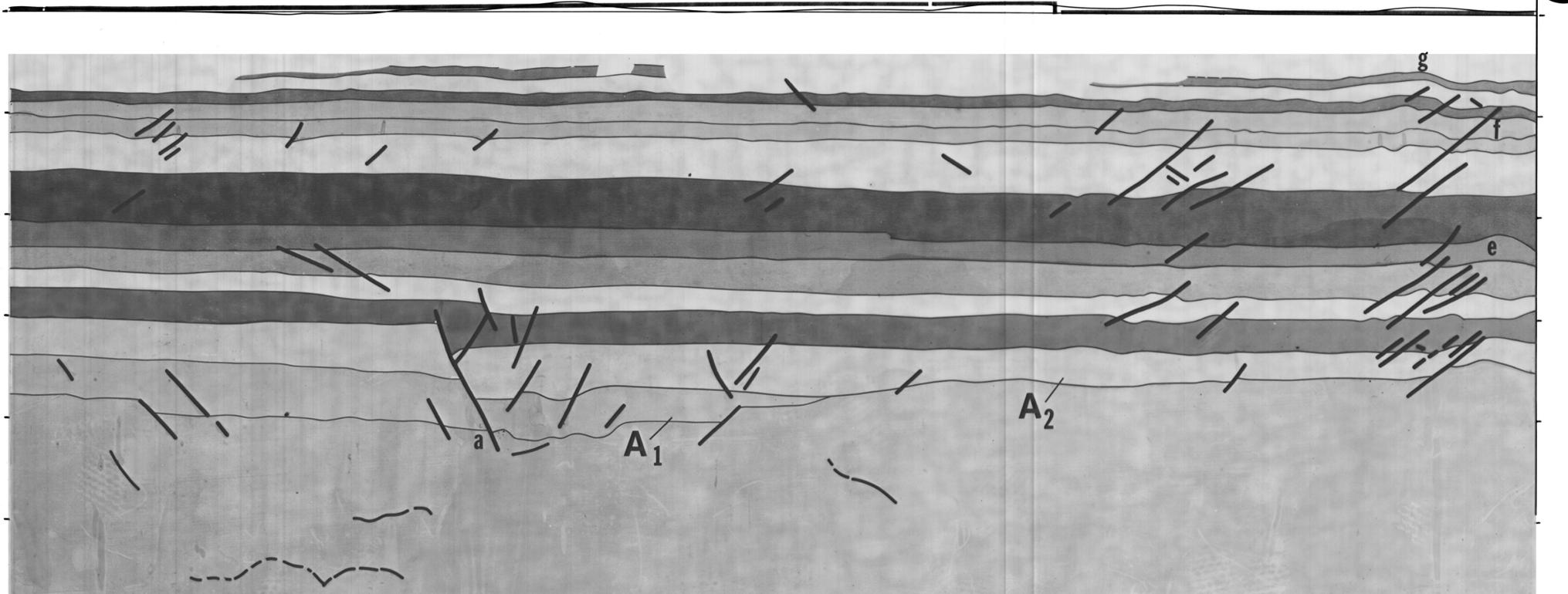
# APPALACHIAN BASIN

## EASTERN KENTUCKY SYNCLINE

### SOUTHEASTERN KENTUCKY UPLIFT



### SOUTHEASTERN KENTUCKY UPLIFT



This report is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards and stratigraphic nomenclature.

Plate 9. Seismic sections HIJ include: The Southeastern Kentucky Uplift and basement faults that define the Perry County Prominence and adjacent Floyd County Embayment. The backthrust faults that extend above earlier extension faults near point J may be part of the zone shown on Section KL. They occur where the line of traverse approaches the Pine Mountain Fault System and their southeastward vergence opposes the thrust direction of the allochthon front. This faulting is attributed to compressive buckling of the Southeastern Kentucky Uplift north of the front.

**TECTONIC EVOLUTION IN CENTRAL AND EASTERN KENTUCKY**

**BY DOUGLAS F.B. BLACK**

**1989**