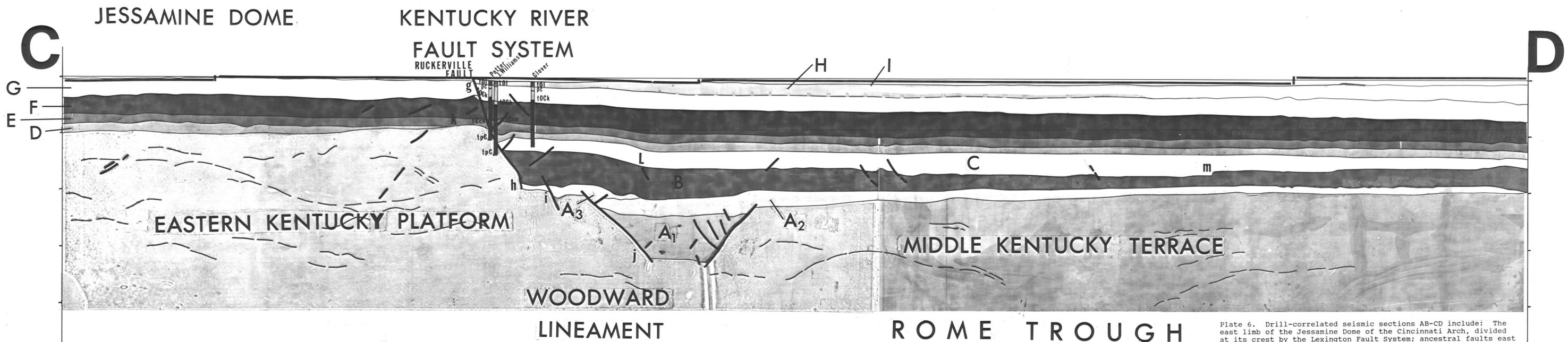
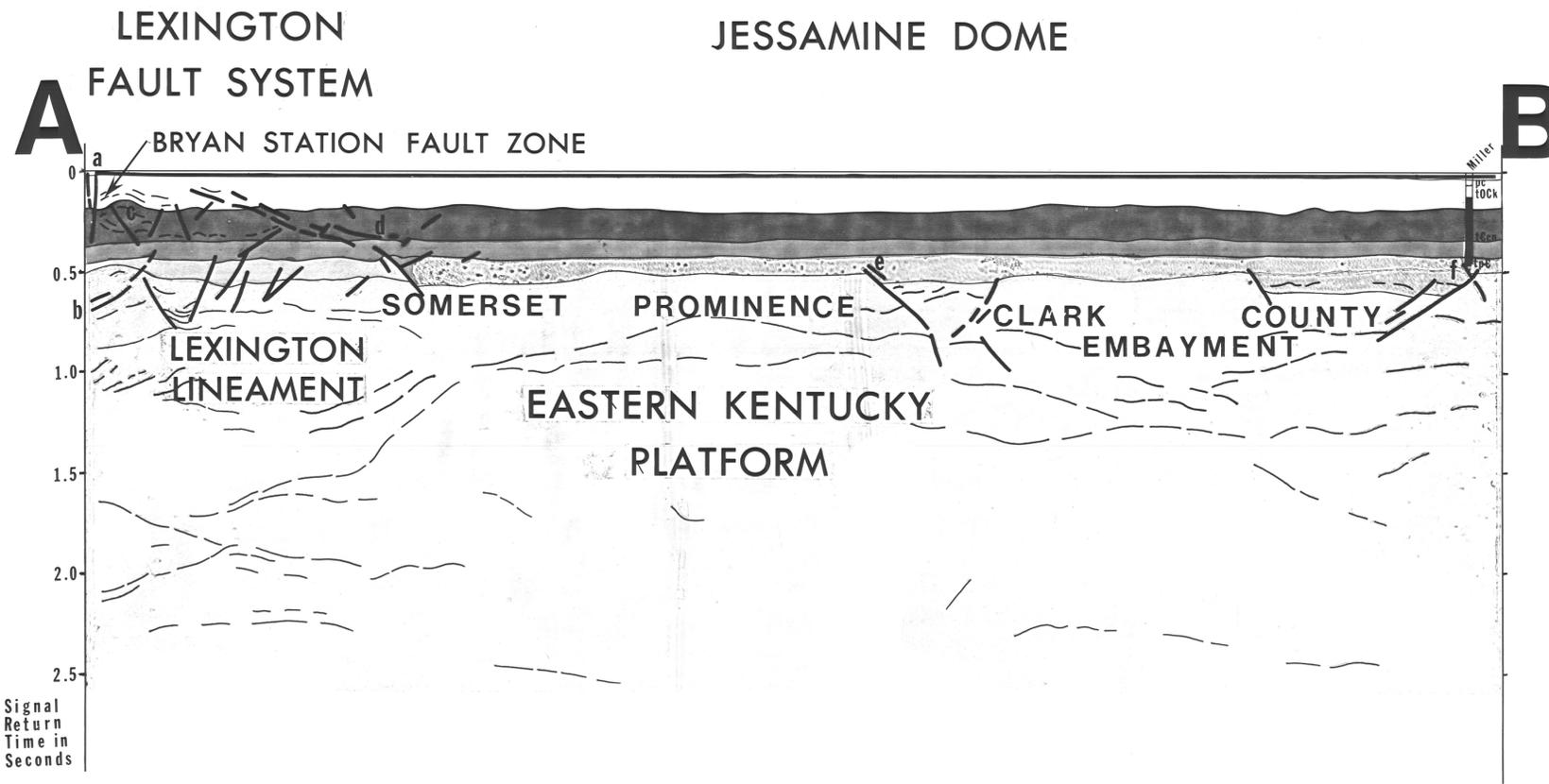


# CINCINNATI ARCH



**TECTONIC EVOLUTION IN CENTRAL AND EASTERN KENTUCKY**  
BY DOUGLAS F.B. BLACK

1989

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

Plate 6. Drill-correlated seismic sections AB-CD include: The east limb of the Jessamine Dome of the Cincinnati Arch, divided at its crest by the Lexington Fault System; ancestral faults east of the Lexington Lineament; the Somerset Prominence and Clark County Embayment of the Eastern Kentucky Platform; and the Middle Kentucky Terrace of the Rome Trough, downthrown along faults of the Kentucky River Fault System and the Kentucky River-Woodward Lineament. Two sets of east-dipping reflectors that project from Zone E toward the Lexington Fault System indicate west-directed thrusting, also evident south and east of other fault systems crossed by the seismic traverse (Compare with Plates 7 and 10).