



- PENNSYLVANIAN**
- Breathitt Group
  - Lee Formation
  - Mississippian rocks
  - Devonian rocks
  - Silurian and Ordovician rocks

**EXPLANATION**

- Contact
- Dashed where approximately located
- Thrust fault
- Dashed where approximately located. Sawteeth on upper plate
- Fault
- Dashed where approximately located. Arrows indicate relative movement of cross fault. U, upthrown side; D, downthrown side
- Anticline
- Syncline
- Dashed where approximately located
- Strike and dip of beds
- Strike and dip of overturned beds
- Strike of vertical beds
- Strike and dip of crumpled beds
- Approximately vertical beds

**GENERALIZED GEOLOGIC MAP OF THE PINE MOUNTAIN FAULT ZONE  
IN THE ELK VALLEY AREA, TENNESSEE AND KENTUCKY**

