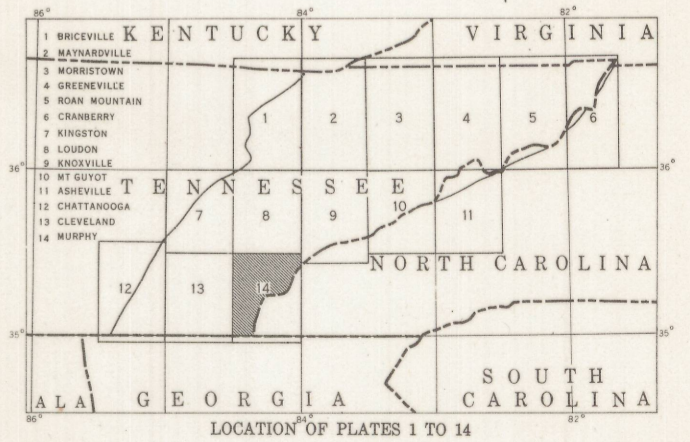


EXPLANATION

- Paleozoic intrusive rocks
  - Grainger Formation
  - Chattanooga shale
  - Bays formation
  - Ottoese shale
  - Holston formation
  - Athens shale
  - Knox dolomite or group, undivided
  - Mascot dolomite
  - Kingsport formation
  - Newala formation
  - Longview dolomite
  - Chepultepec dolomite
  - Copper Ridge dolomite
  - Conasauga shale or group, undivided
  - Rome formation
  - Shady dolomite
  - Hesse sandstone
  - Murray shale
  - Nebo sandstone
  - Nichols shale
  - Cochran conglomerate
  - Sandsuck shale
  - Fine-grained part of Ocoee series
  - Great Smoky conglomerate
  - Contact
  - Fault
  - Fault, dashed where approximately located
  - Well showing location  
The first number indicates the number within the county,  
the second the well number in group
  - Spring showing location
- For master explanation see plate 11



Base compiled and materials assembled by C. H. Helms,  
G. D. DeBuchanne and R. M. Richardson of the U. S. Geological Survey  
Maps prepared for printing by N. B. Johnson, C. E. James, J. B. Canter,  
and others of the U. S. Geological Survey

Geology compiled by John Rodgers, U. S. Geological Survey  
(For Description of sources see text)  
Locations of wells and springs listed in the text by George D. DeBuchanne,  
R. M. Richardson, and others of the U. S. Geological Survey

GEOLOGIC MAP OF EAST TENNESSEE: MURPHY  
SHOWING LOCATION OF WELLS AND SPRINGS

