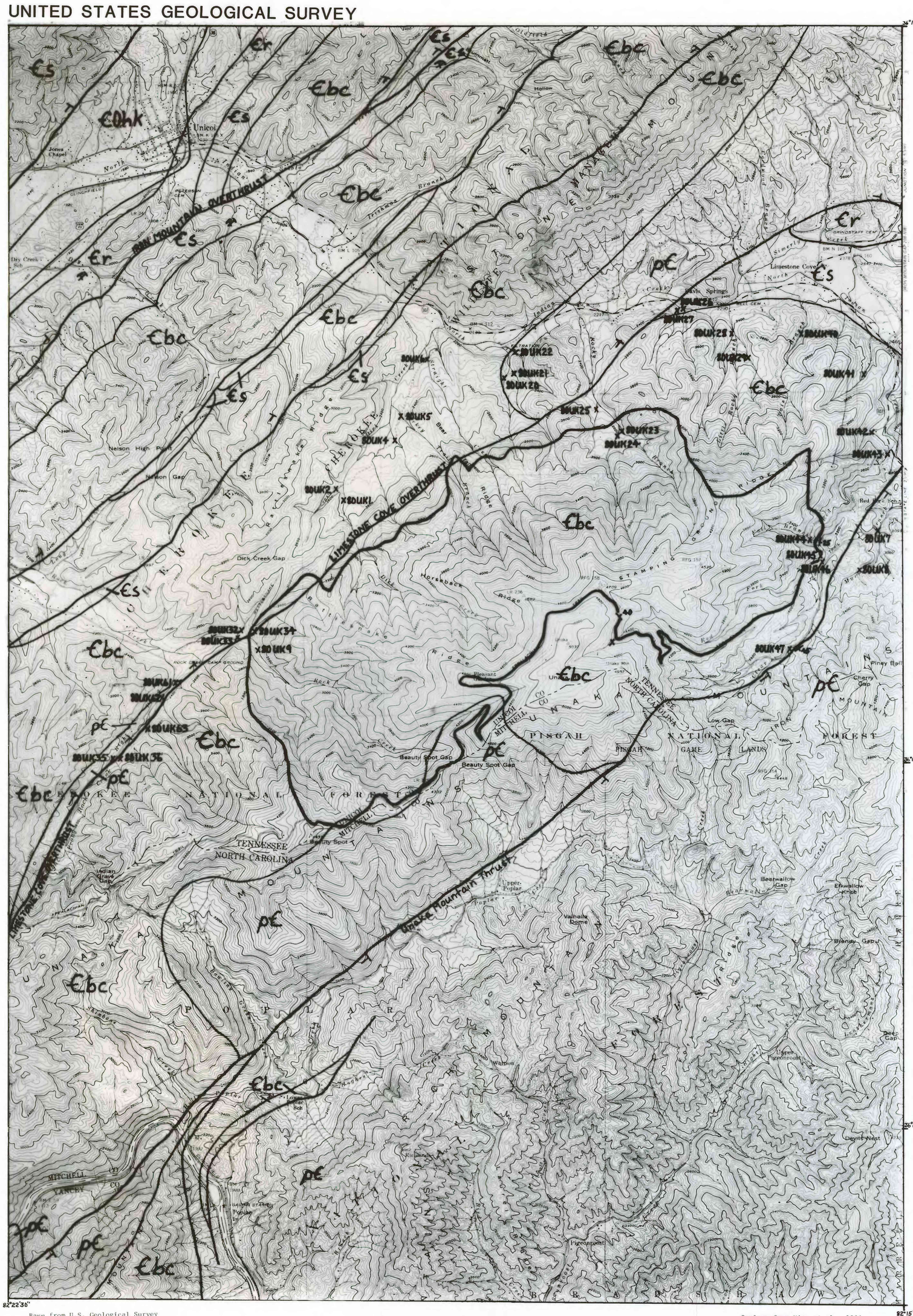
OPEN FILE REPORT 84-268

PLATE 1

DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY



Base from U.S. Geological Survey
Unicoi, Tenn., 1939; Huntdale,
N.C.-Tenn., 1939.

SCALE 1:24 000
1 ½ 0 1 MILE
1 .5 0 1 KILOMETER
CONTOUR INTERVAL 40 FEET
DATUM IS MEAN SEA LEVEL

Geology from King et al., 1944,
and King and Ferguson, 1960.

EXPLANATION

- Er — Rome Formation; maroon or brown shale, interbedded with Shady Dolomite
- Es — Shady Dolomite; blue-gray and white dolomite
- Ebc — Chilhowee Group; clastic rocks-includes the Erwin Formation, Hampton Formation, and Unicoi Formation
- pE — undifferentiated Precambrian granites and gneiss
- geologic contact
- strike and dip of beds
- thrust fault- T on upper plate
- 80UK6 — sample site
- Roadless Area boundary
- Fe or Mn mine or prospect

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

Figure B. Geologic map and sample sites of the Unaka Mountain Roadless Area.

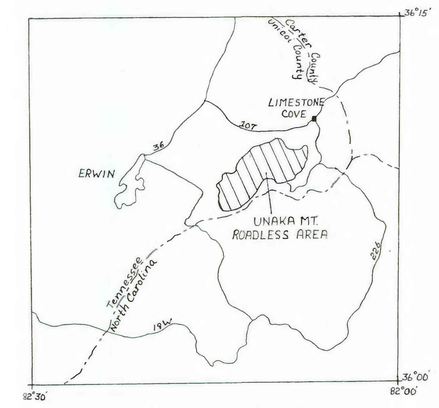
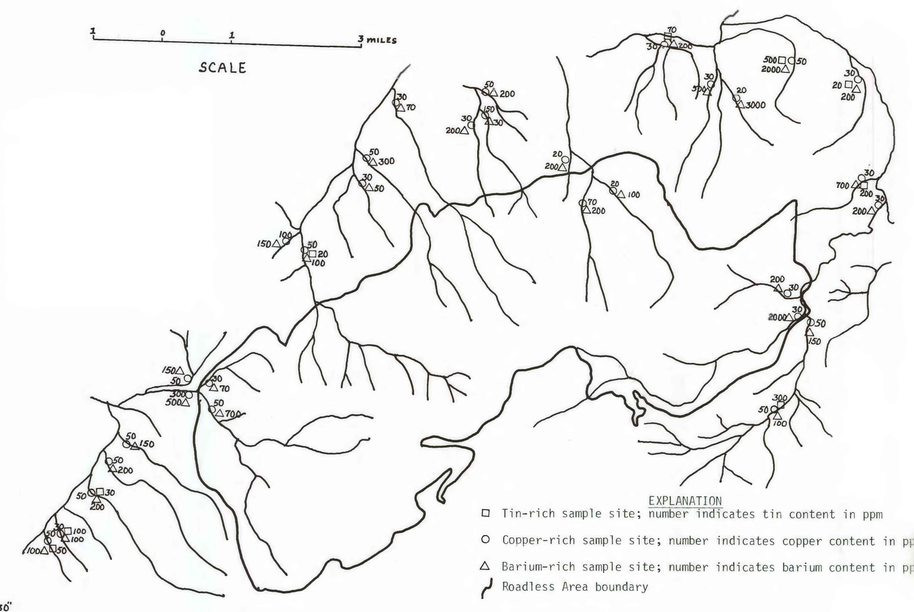


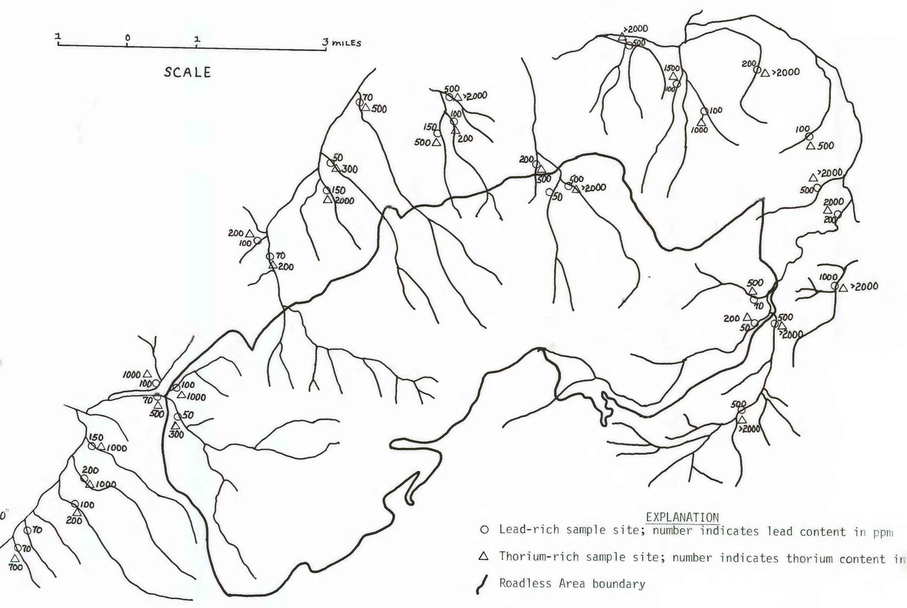
Figure A. Location of the Unaka Mountain Roadless Area.



EXPLANATION

- Tin-rich sample site; number indicates tin content in ppm
- Copper-rich sample site; number indicates copper content in ppm
- Barium-rich sample site; number indicates barium content in ppm
- Roadless Area boundary

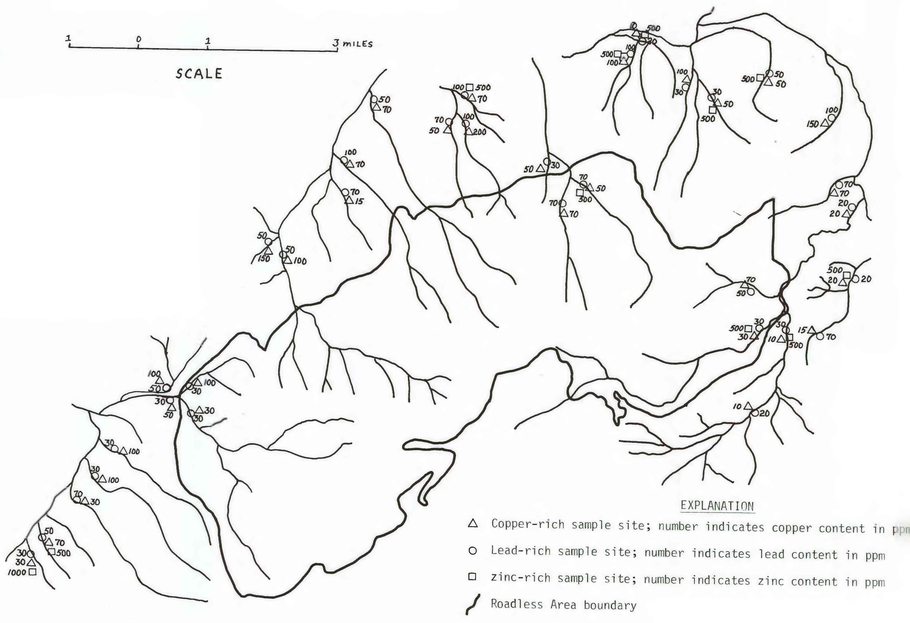
Figure C. Tin, copper, and barium contents of nonmagnetic heavy-mineral concentrates.



EXPLANATION

- Lead-rich sample site; number indicates lead content in ppm
- Thorium-rich sample site; number indicates thorium content in ppm
- Roadless Area boundary

Figure D. Lead and thorium contents of magnetic (M1) fraction of heavy-mineral concentrates.



EXPLANATION

- Copper-rich sample site; number indicates copper content in ppm
- Lead-rich sample site; number indicates lead content in ppm
- zinc-rich sample site; number indicates zinc content in ppm
- Roadless Area boundary

Figure E. Copper, lead and zinc contents of magnetic (M.5) fraction of heavy-mineral concentrates.

GEOCHEMICAL SURVEY OF THE UNAKA MOUNTAIN ROADLESS AREA, UNICOI COUNTY, TENNESSEE

by

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