OPEN-FILE REPORT
71-222

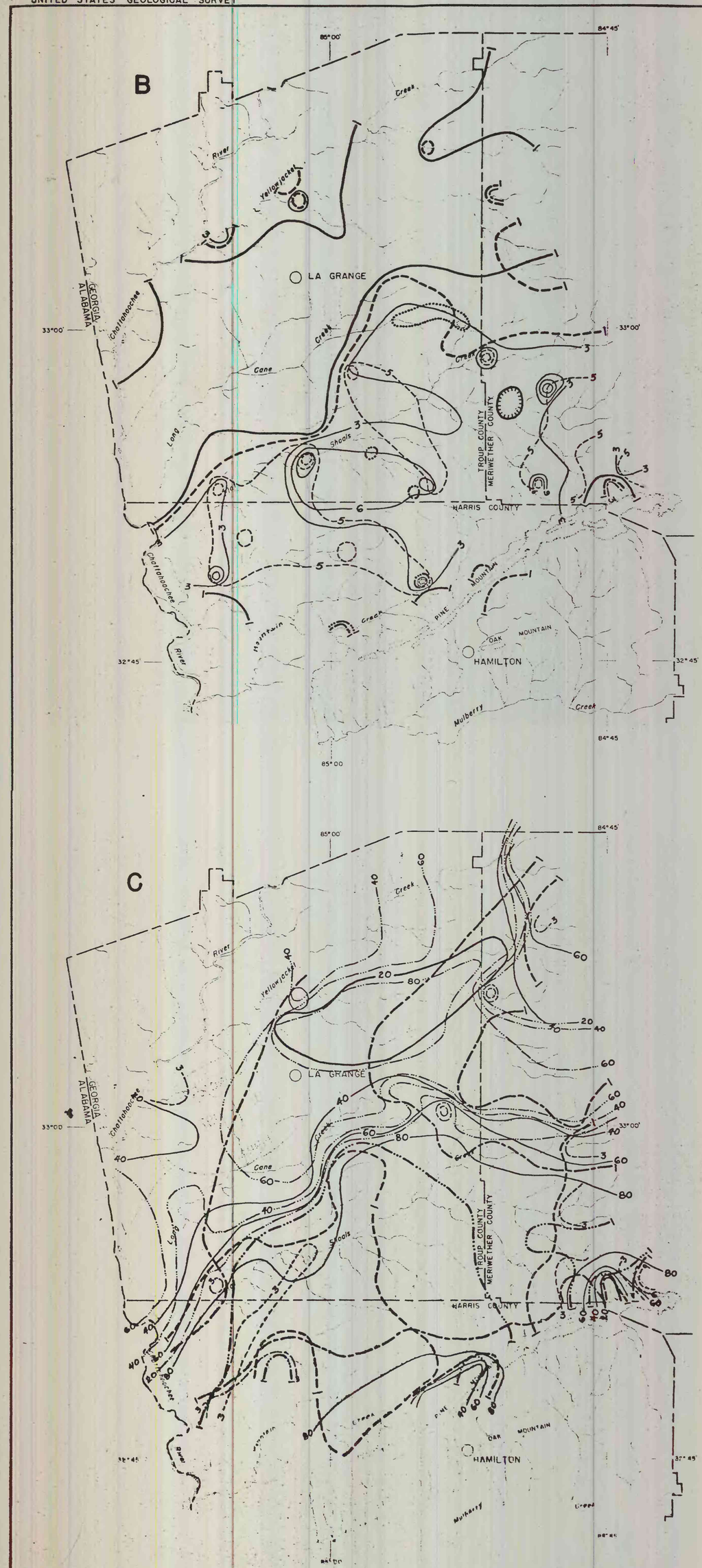

PLATE 4. MAPS SHOWING SAMPLE LOCALITIES, LINES OF AUGER DRILL HOLES AND ISOGRAMS OF HEAVY MINERALS IN THE DRAINAGE BASIN OF THE CHATTAHOOCHEE RIVER, GEORGIA

2 0 2 4 6 8 MILES

1971

EXPLANATION

A

52-DC-766
Locality and number of sample.

52-DC-777
Sample used for semiquantitative spectrographic analysis.

A——A'
Line of auger drill holes.

B

Isograms are based on percent of the mineral in concentrate free from quartz and hematite. All concentrates used for platting are from riffle sand or gravel and are from streams with small distributive province.

1 — 6
Monazite isogram
Percent of monazite in concentrate, contoured at 1, 3, 6, 9, and 12 percent. Heavy contour marks 1 percent.

1 — 5
Zircon isogram
Percent of zircon in concentrate, contoured at 1, 5, 10, and 15 percent. Heavy contour marks 1 percent.

1 — 2
Xenotime isogram
Percent of xenotime in concentrate, contoured at 1 and 2 percent. Heavy contour marks 1 percent.

1 — 5
Spinel isogram
Percent of spinel in concentrate, contoured at 1 and 5 percent. Heavy contour marks 1 percent.

1 — 3
Tourmaline isogram
Percent of tourmaline in concentrate, contoured at 1 and 3 percent. Heavy contour marks 1 percent.

C

20 — 80
Ilmenite isogram
Percent of ilmenite in concentrate, contoured at 20, 40, 60, and 80 percent. Heavy contour marks 20 percent.

1 — 3
Rutile isogram
Percent of rutile in concentrate, contoured at 1, 3, 6, and 9 percent. Heavy contour marks 1 percent.

1 — 60
Magnetite isogram
Percent of magnetite in concentrate, contoured at 1, 20, 40, 60, and 80 percent. Heavy contour marks 1 percent.

1 — 3
Garnet isogram
Percent of garnet in concentrate, contoured at 1, 3, and 6 percent. Heavy contour marks 1 percent.

D

1 — 5
Sillimanite isogram
Percent of sillimanite in concentrate, contoured at 1, 5, and 20 percent. Heavy contour marks 1 percent.

1 — 15
Kyanite isogram
Percent of kyanite in concentrate, contoured at 1, 15, 45, and 60 percent. Heavy contour marks 1 percent.

1 — 5
Epidote isogram
Percent of epidote in concentrate, contoured at 1, 5, and 10 percent. Heavy contour marks 1 percent.

1 — 5
Amphibole isogram
Percent of amphibole in concentrate, contoured at 1, 5, 10, 20, and 30 percent. Heavy contour marks 1 percent.

1 — 20
Staurolite isogram
Percent of staurolite in concentrate, contoured at 1, 10, and 20 percent. Heavy contour marks 1 percent.

PLEASE REPLACE IN POCKET IN BACK OF BOUND VOLUME

Base from county road maps.

Data compiled in 1954