DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

OPEN-FILE REPORT
80-382
PLATE 2

EXPLANATION

A.--Copper
Magnetic fractions at 1 and 0.5 amps; lower detection limit is 10 ppm Cu

- 500 ppm
- 70-300 ppm
- <70 ppm

Nonmagnetic fractions at 1 amp; lower detection limit is 5 ppm Cu
300 - Number is copper content in ppm; <70 ppm not shown

A

EXPLANATION

B.--Molybdenum
Magnetic fractions at 1 and 0.5 amps; lower detection limit is 10 ppm Mo

- 50-100 ppm
- 15- 30 ppm
- <15 ppm

Nonmagnetic fractions at 1 amp; lower detection limit is 5 ppm Mo
15 - Number is molybdenum content in ppm; <15 ppm not shown

B

EXPLANATION

C. Niobium
Magnetic fractions at 1 and 0.5 amps; lower detection limit is 50 ppm Nb

- 1,000->5,000 ppm
- 300- 700 ppm
- 100- 200 ppm
- <100 ppm

C

EXPLANATION

D. Beryllium
Nonmagnetic fractions at 1 amp, and magnetic fraction at 0.5 amp; lower detection limit is 1 ppm Be

- 100 ppm
- 20-70 ppm
- 5-15 ppm
- 2- 3 ppm
- <2 ppm

D

PLATE 2.-GEOCHEMICAL MAPS SHOWING COPPER, MOLYBDENUM, NIOBIUM, AND BERYLLIUM IN HEAVY MINERAL CONCENTRATES FROM STREAM SEDIMENTS. GEOLOGY SIMPLIFIED FROM PLATE 1; pЄ, PRECAMBRIAN ROCKS; PM, PENNSYLVANIAN AND MISSISSIPPIAN STRATA. CLOSELY LINED AREAS ARE UNDERLAIN BY MIXED METAVOLCANIC PRECAMBRIAN ROCKS.