DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

OPEN-FILE REPORT
80-382
PLATE 4

EXPLANATION

A.--Zinc and antimony

Zinc in magnetic fractions at 1 and 0.5 amps, and nonmagnetic fraction at 1 amp

- ● 3,000->10,000 ppm
- ● 1,000- 2,000 ppm
- ● 200- 700 ppm
- ○ < 200 ppm

Antimony in nonmagnetic fraction at 1 amp and magnetic fraction at 0.5 amp

- ○— 100L - Number is antimony content in ppm L indicates detected, but below usual detection limit

EXPLANATION

B.--Greatest abundances of 13 elements in ppm, and radon in picocuries per liter. Dashed lines in Macho Canyon and West Fork of Rio Santa Barbara encircle several sites of samples having high abundances of indicated elements

Ag	3-70 (value shown)	Mo	50, 100
As	500, 1,000	Nb	1,000->5,000
Au	>500	Pb	500, 700
Be	100	Sn	700-1,500
Bi	500-1,500	Sb	100-1,000
Cu	700, 5,000 (value shown)	W	500-1,500

1215 Radon in picocuries per liter (value shown) in springs; collected and analyzed by Walter H. Ficklin

CORDOVA PEGMATITE DISTRICT
RIO MEDIO
WEST FORK
RIO GALISTEO
LUCKY STAR (ASPHY RANCH) PEGMATITE PROPERTIES
DOCTOR CREEK AREA
PECOS MINE
JONES MINE
MACHO CANYON AREA
SPRING MTN MINE
ELK MTN (KEMP MINE) PEGMATITE MINE
HOLLINGER CANYON AREA
PUEBLITE PEGMATITE MINE
7 MILES
10 KILOMETERS

A

B

PLATE 4.-GEOCHEMICAL MAP SHOWING ZINC AND ANTIMONY, AND SUMMARY GEOCHEMICAL MAP SHOWING GREATEST ABUNDANCES OF 13 ELEMENTS IN HEAVY MINERAL CONCENTRATES FROM STREAM SEDIMENTS AND RADON IN SPRINGS AND STREAMS. GEOLOGY SIMPLIFIED FROM PLATE 1; pC, PRECAMBRIAN ROCKS; PM, PENNSYLVANIAN AND MISSISSIPPIAN STRATA. CLOSELY LINED AREAS ARE UNDERLAIN BY MIXED METAVOLCANIC PRECAMBRIAN ROCKS.