OPEN FILE 1972
ZINC AND ANTIMONY DISTRIBUTION
MONTICELLO AND SIERRA FIJARDO
QUADRANGLES, SOCORRO AND SIERRA
COUNTIES, N. MEX., BY W. R.
GRIFFITTS, H. V. ALMINAS, AND
E. L. MOSIER
SHEET 3 OF 3

DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

EXPLANATION

QUATERNARY

Qs — Surficial deposits

TERTIARY

Tir — Intrusive rhyolite

Tqv — Quartz veins and plugs

Tr — Younger rhyolite flows and ash-flow tuffs

Tla — Porphyritic latite and andesite flows, flow breccias, tuffs, and agglomerates

PALEOZOIC

Ps — Paleozoic sedimentary rocks undivided; shale, sandstone, and limestone

Contact

Normal fault
Dashed where approximately located; dotted where covered

Lineament
Traced from aerial photographs

Zinc and antimony contents of three sample types (<80, M-1, NM-1) are given at each sample location. The <80 sample consists of material finer than 0.177 mm sieved from the total stream sediment. The other two sample types are portions of stream-sediment panned concentrates with a specific gravity higher than that of bromoform. The M-1 fraction is that portion of such material not magnetic at 0.1 ampere, but magnetic at a 1.0-ampere setting on a Frantz Isodynamic Separator (forward slope 25°, side slope 15°). The portion that is not magnetic at a 1.0-ampere setting is labeled NM-1. Antimony was detected only in the NM-1 fraction.

[100] ○ N 1000 N

Stream-sediment sample
Showing spectrographically determined zinc and antimony contents in parts per million. Numbers without brackets give zinc values. Top number, zinc value of the <80 fraction; middle number, zinc value of the M-1 fraction; bottom number, zinc value of the NM-1 fraction. N, zinc value below the detection limit. L, zinc detected but below 200 parts per million. Dash, missing value. Number in brackets gives antimony value where detected. L, antimony detected but below 100 parts per million

2000

Isopleth
Approximately delineating areas containing at least 2000 parts per million zinc in the M-1 fraction of stream sediments

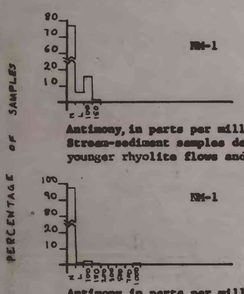
L

Isopleth
Approximately delineating areas containing detectable antimony in the NM-1 fraction of stream sediments

U.S. Geological Survey
OPEN FILE REPORT
This map is preliminary and has not been edited or reviewed for conformity with Geological Survey standards.

HISTOGRAMS SHOWING ZINC AND ANTIMONY DISTRIBUTION

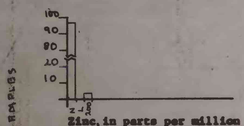
Antimony was detected only in the shown sample categories



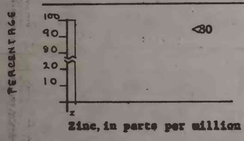
Stream-sediment samples derived from the younger rhyolite flows and ash-flow tuffs

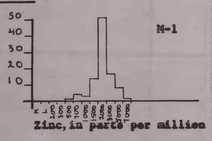
Stream-sediment samples derived from the total map area

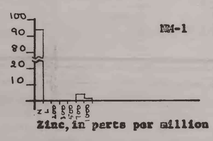
Younger rhyolite flows and ash-flow tuffs



Rock samples

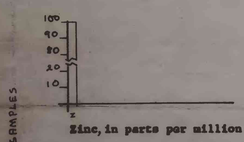




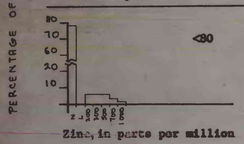


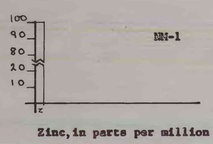
Stream-sediment samples

Porphyritic latite and andesite flows, flow breccias, tuffs, and agglomerates



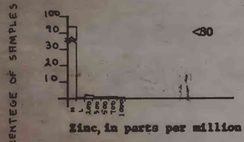
Rock samples

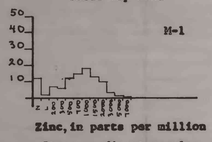


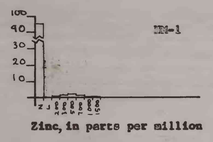


Stream-sediment samples

Total map area







Stream-sediment samples