DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

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

Pz

Paleozoic sedimentary rocks undivided; shale, sandstone, and limestone

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

EXPLANATION

Contact

Normal fault
Dashed where approximately located; dotted where covered

Lineament
Traced from aerial photographs

Strontium contents of three sample types (<30, M-1, NM-1) are given at each sample location. The <30 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

700
100
5000

Stream-sediment sample
Showing spectrographically determined strontium content in parts per million. Top number, strontium value of the <30 fraction; middle number, strontium value of the M-1 fraction; bottom number, strontium value of the NM-1 fraction. N, strontium value below the detection limit. L, strontium detected but below 100 parts per million. Dash, missing value
Filled circle indicates sample location at which the NM-1 fraction contains at least 5000 parts per million strontium

1000

Isopleth
Approximately delineating areas containing at least 1000 parts per million strontium in the NM-1 fraction of stream sediments

HISTOGRAMS SHOWING STRONTIUM DISTRIBUTION