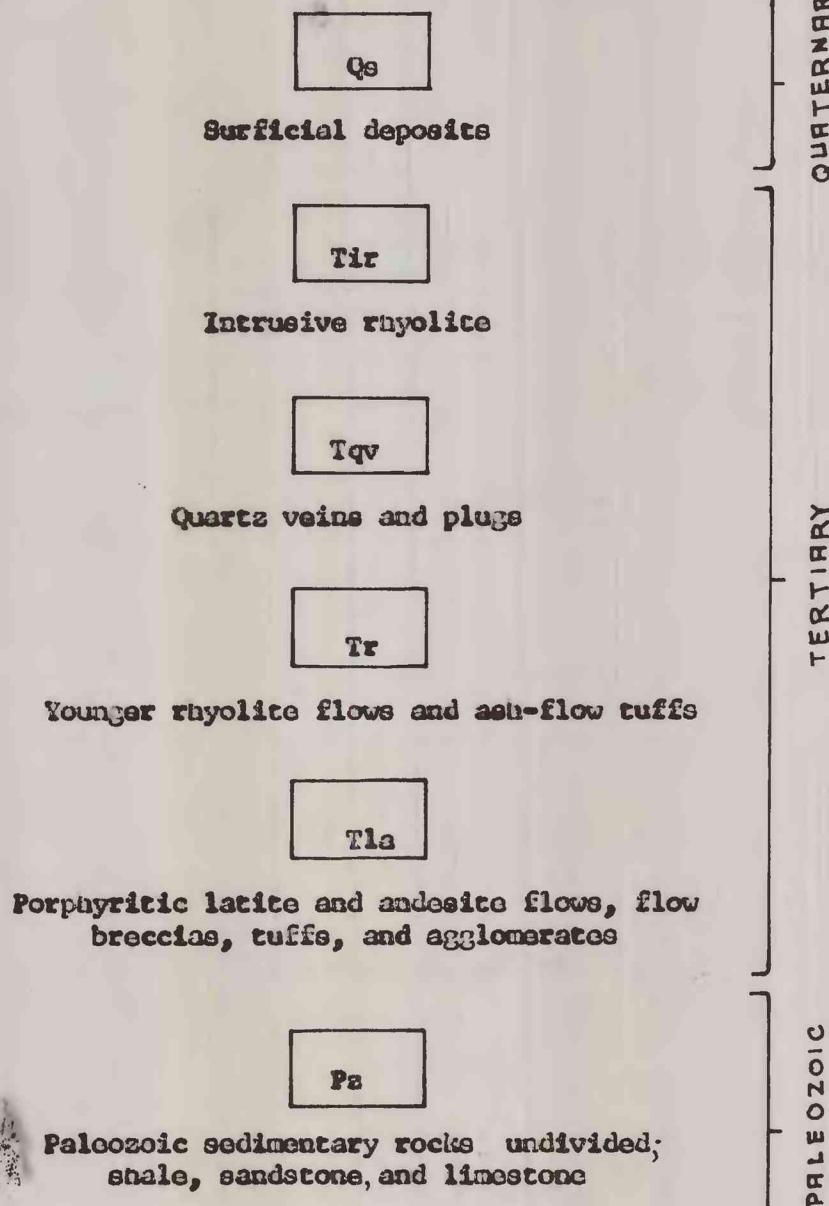


DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

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
SHEET 3 OF 3



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
1000
5000 ●

○ N N

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.

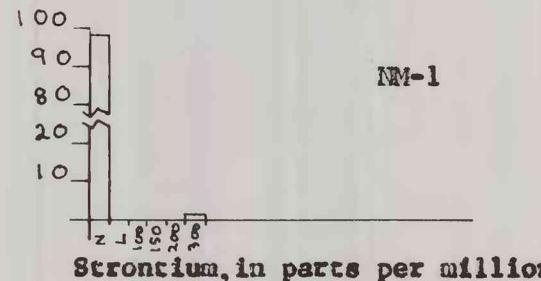
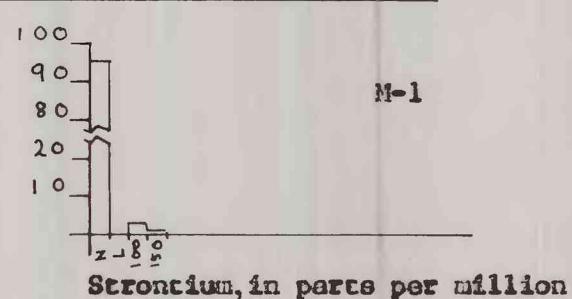
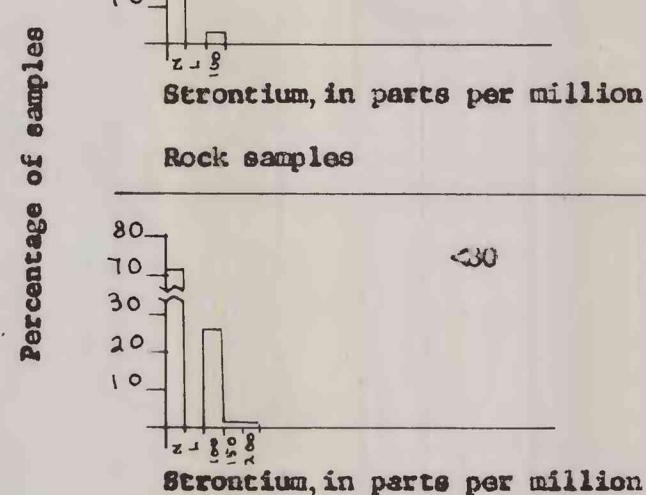
—1000—

Isopleth

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

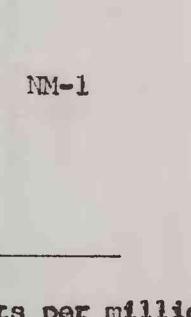
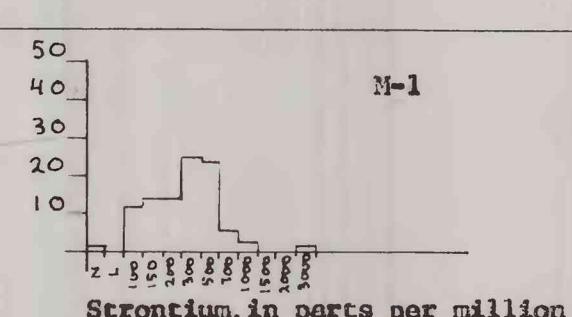
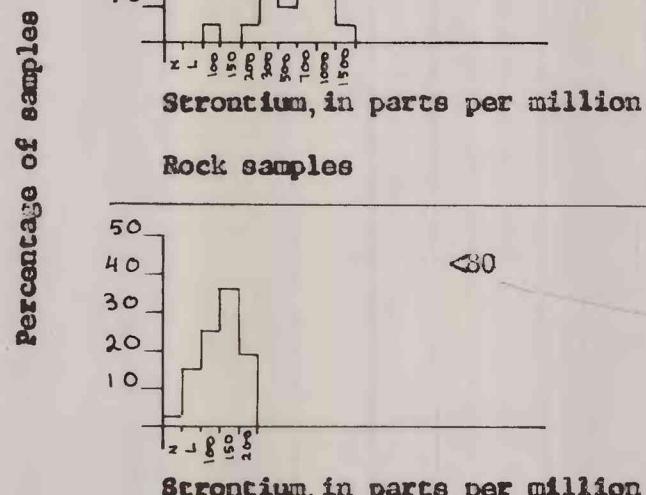
HISTOGRAMS SHOWING STRONTIUM DISTRIBUTION

Younger rhyolite flows and ash-flow tuffs



Stream-sediment samples

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



Total map area

