DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

71-135

OPEN FILE 1971
STRONTIUM DISTRIBUTION
VICKS PEAK, STEEL HILL,
BLACK HILL QUADRANGLES,
SOCORRO COUNTY, N. MEX.
BY W. R. GRIFFITTS, H. V. ALMINAS,
AND E. L. MOSIER
SHEET 4 OF 4

EXPLANATION

QUATERNARY

Qs

Surficial deposits

TERTIARY

Tir

Intrusive rhyolite

Tr

Younger rhyolite flows and ash flow tuffs

Tdla

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

PALEOZOIC

Pz

Paleozoic sedimentary rocks; undivided shale, sandstone, and limestone

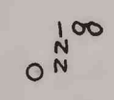
This map is preliminary and has not been edited or reviewed for conformity with U. S. Geological Survey standards.

Contact

Normal fault
dashed where approximately located; dotted where covered

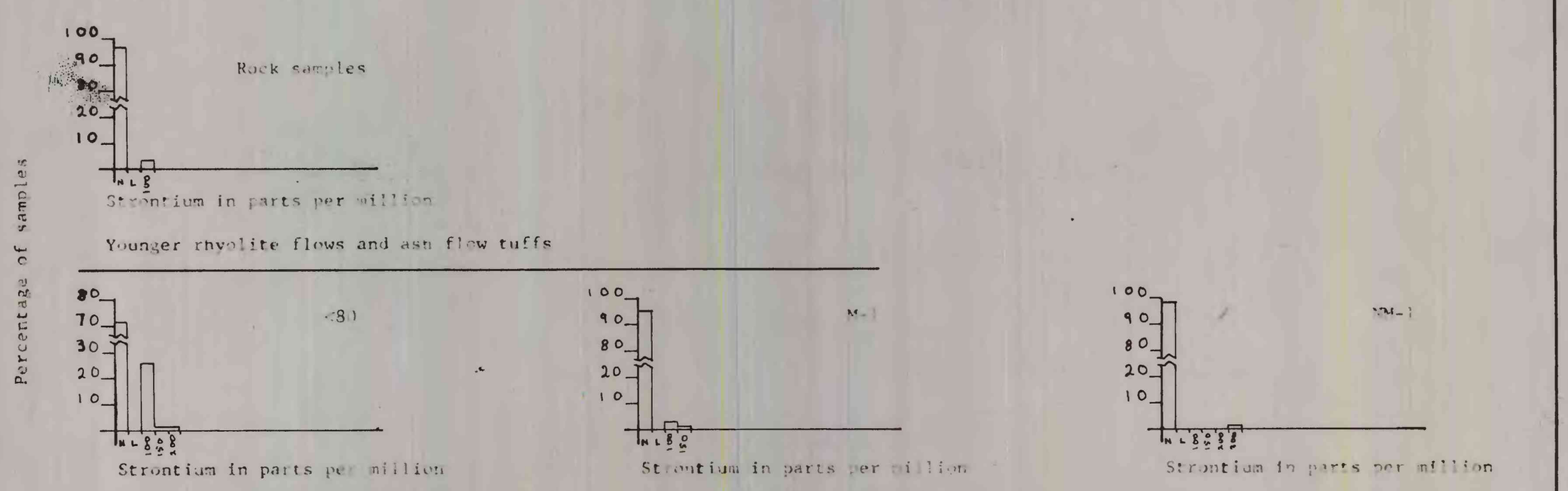
Lineament
traced from aerial photographs

Strontium 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

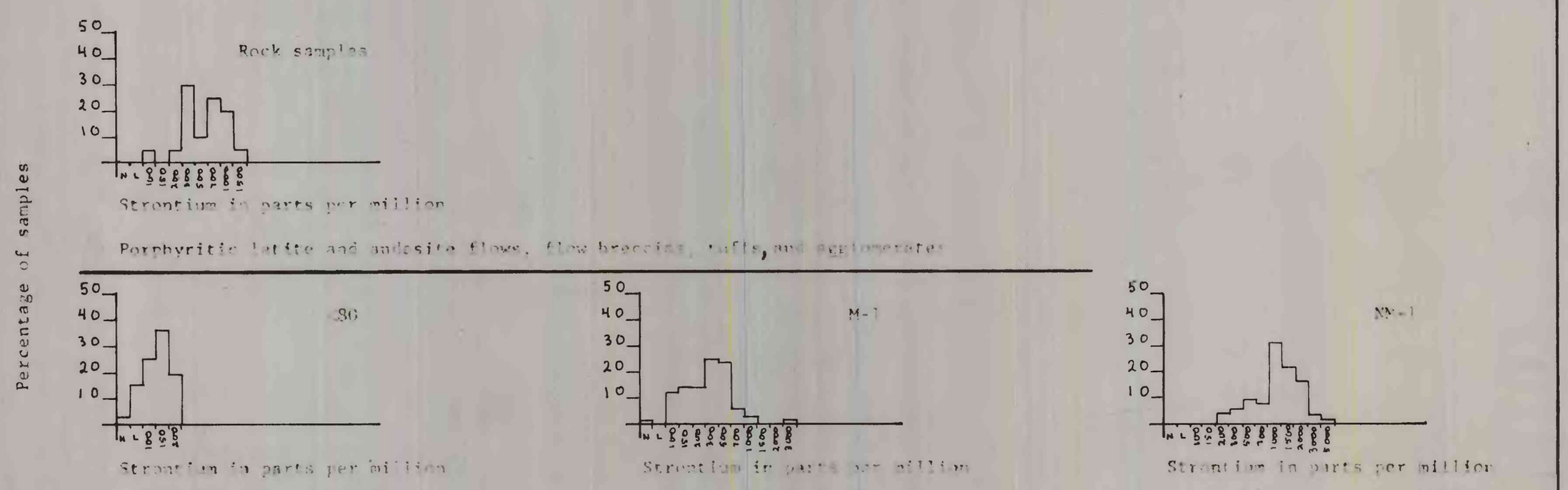


Stream-sediment sample
showing spectrographically determined strontium content in parts per million. Top number, strontium value of the <80 fraction; middle number, strontium value of the M-1 fraction; bottom number, strontium value of the NM-1 fraction. N, strontium value below the detection limit. L, strontium detected but below 100 parts per million. Dash, missing value

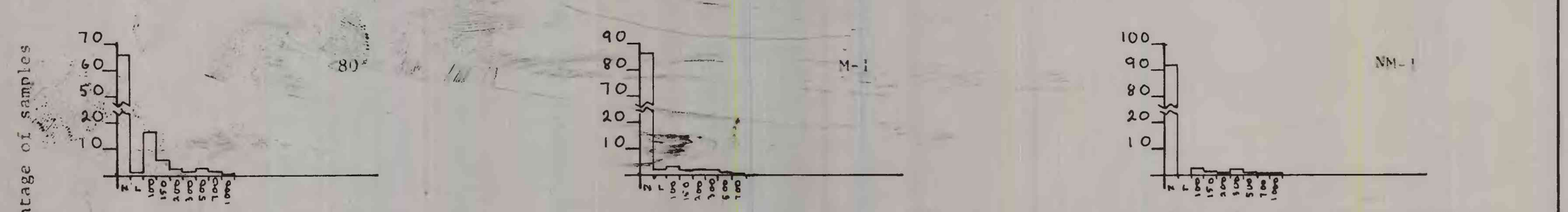
HISTOGRAMS SHOWING STRONTIUM DISTRIBUTION



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



Stream-sediment samples derived from porphyritic latite and andesite flows, flow breccias, tuffs, and agglomerates



Stream-sediment samples derived from the total map area