DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

OPEN FILE 1971-136
TIN DISTRIBUTION
VICKS PEAK, STEEL HILL,
BLACK HILL QUADRANGLES,
SOCORRO COUNTY, N. MEX.
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EXPLANATION

QUATERNARY

Qs — Surficial deposits

TERTIARY

Tlr — 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

Contact

Normal fault
dashed where approximately located; dotted where covered

Lineament
traced from aerial photographs

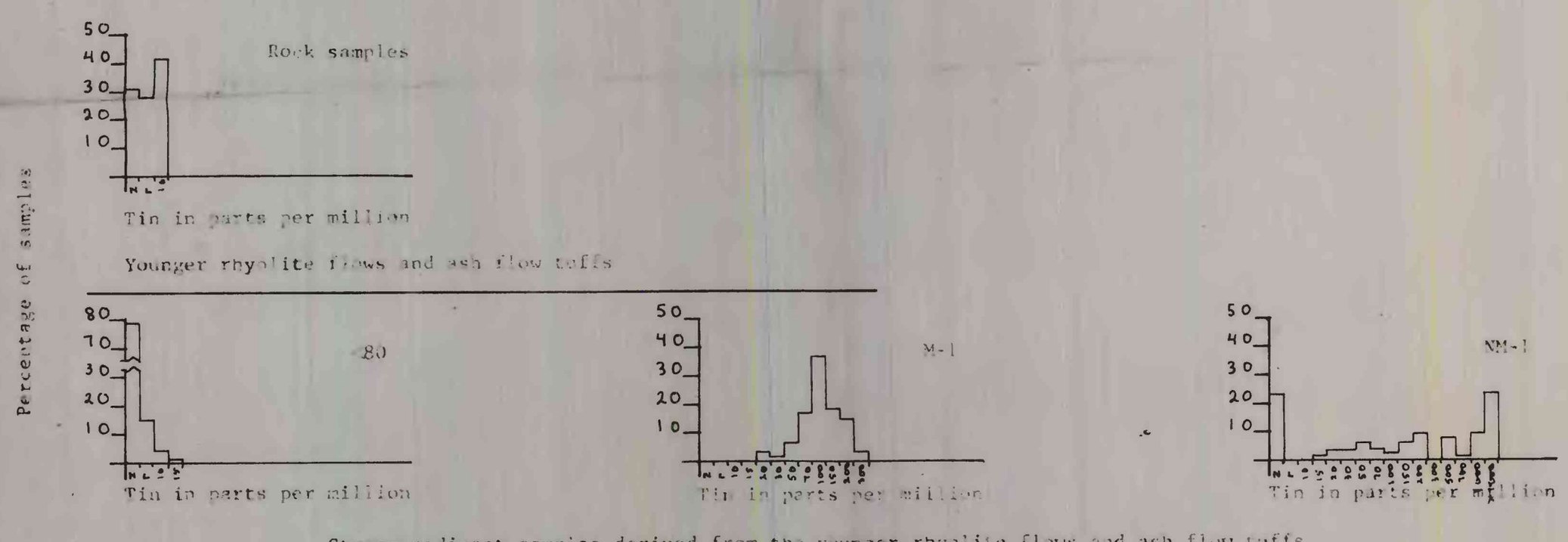
Tin contents of three sample types (<80, M-1, NM-1) are given at each sample location. The <80 sample consists of material finer than 0.177 mm sieved from the total stream sediment. The other two sample types are portions of stream-sediment panned concentrates with a specific gravity higher than that 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.

N 150 3000 — 10 300 1000

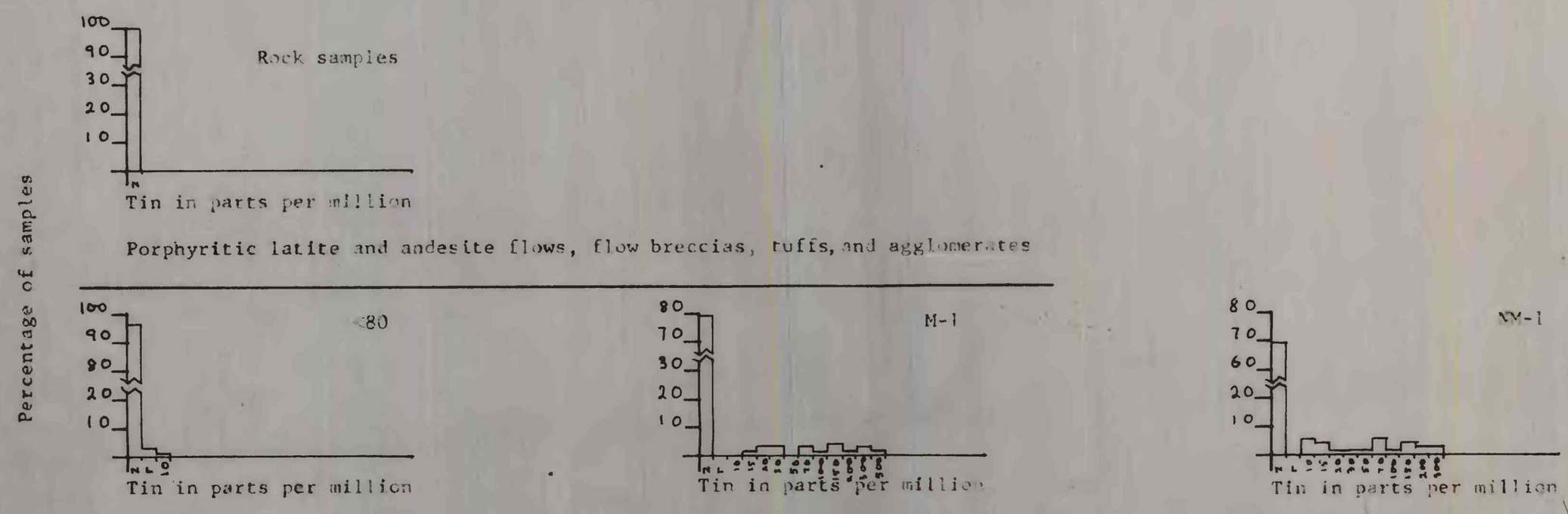
Stream-sediment sample
showing spectrographically determined tin content in parts per million. Top number, tin value of the <80 fraction; middle number, tin value of the M-1 fraction; bottom number, tin value of the NM-1 fraction. N, tin value below the detection limit. L, tin detected but below 10 parts per million. Dash, missing value. Filled circle indicates sample location at which the NM-1 fraction contains at least 1000 parts per million tin.

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

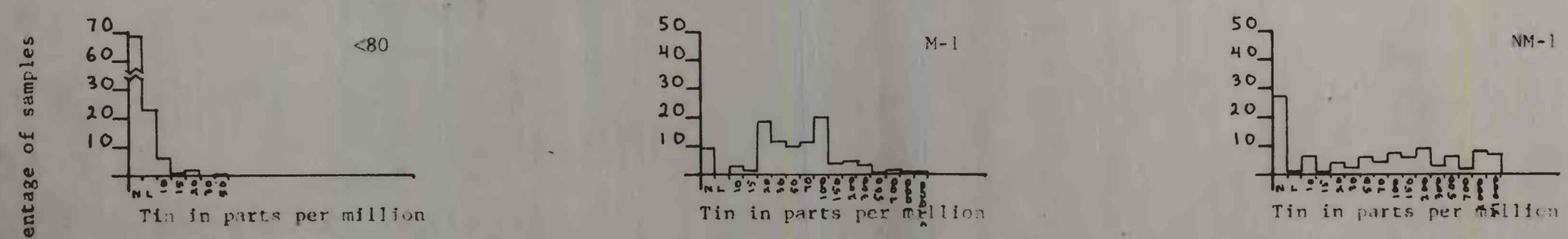
HISTOGRAMS SHOWING TIN DISTRIBUTION



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