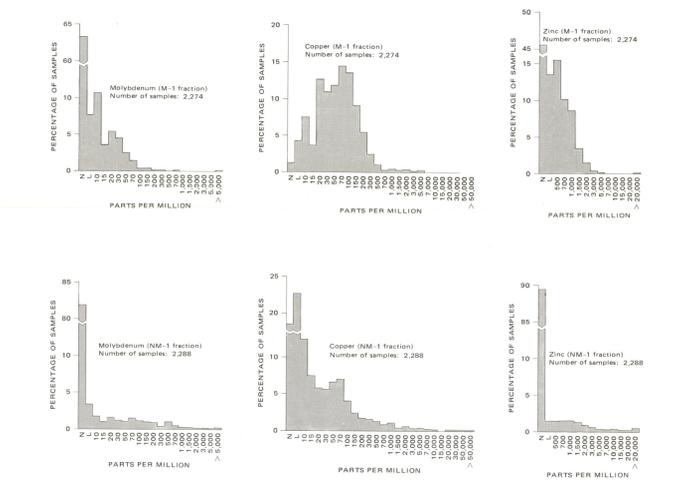


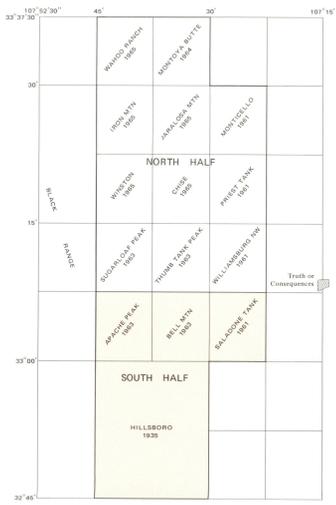
- DESCRIPTION OF MAP UNITS**
- QTs** SURFICIAL DEPOSITS AND BASALT FLOWS (QUATERNARY AND TERTIARY) - Includes pediment alluvium, conglomerate, and volcanic sediments of the Santa Fe Group as used by Kelley (1955); also includes recent surficial deposits and basalt flows.
 - Tir** INTRUSIVE RHYOLITE (TERTIARY) - Predominantly plugs and dikes; mainly fine to coarse porphyritic to aphanitic; includes some granite.
 - Ti** DIKE (TERTIARY) - Composition unknown. Same age as the intrusive rhyolite (Tir).
 - Tv** VOLCANIC ROCKS (TERTIARY) - Andesite-latte-flows, flow breccia, and agglomerate; biotite latite and quartz latite-rhyolite ash flow tuff and breccia; local waterlaid tuff.
 - Tim** INTRUSIVE MONZONITE (TERTIARY) - Medium-gray; weathers brown; medium grained, equigranular to fine to coarse porphyritic with phenocrysts of plagioclase, hornblende, biotite, and occasionally quartz; includes all intrusive bodies of similar composition within Hillsboro quadrangle; includes tectite of Reilly Peak.
 - Pr** PALEOZOIC ROCKS - Predominantly limestone of the Pennsylvanian and Permian Magdalena Group and Permian red beds, sandstone, and dolomite in the north; includes lower Paleozoic carbonate rocks and shales in the south; includes some small, scattered outcrops of Cretaceous and Precambrian rocks.
 - pCm** PRECAMBRIAN METAMORPHIC ROCKS

- CONTACT**
- KNOWN NORMAL FAULT, OR FAULT OR FRACTURE INFERRED FROM LINEAMENT ON AERIAL PHOTOGRAPH
 - MINE WORKINGS OR PROSPECT
 - SAMPLE LOCALITY
 - SAMPLE TYPES - Molybdenum, copper, and zinc content of pan-concentrated stream sediment has been determined spectrophotographically for each sample locality. The sample material consists of the portion of the pan-concentrated stream sediment having a specific gravity greater than that of bromoform. This material was subsequently separated magnetically into two fractions labeled M-1 and NM-1. The M-1 fraction is that portion which is not magnetic at 0.1 A (ampere) but is magnetic at a 1.0-A setting on a Frantz Isodynamic Separator (forward slope 25°, side slope 15°). The NM-1 fraction is not magnetic at a 1.0-A setting.
 - ISOPLETHS - Approximately delineating areas containing anomalous amounts of molybdenum and/or copper in either or both concentrate fractions. Hachures indicate low areas within metal anomalies. Quered where control is lacking. Arrow indicates direction of anomalous detrital dispersion train; number indicates known minimum length of train in miles.
 - Molybdenum - At least 10 ppm (parts per million)
 - Molybdenum - At least 70 ppm
 - Copper - At least 150 ppm
 - Copper - At least 1,000 ppm

- SAMPLE LOCALITY WHERE ANOMALOUS AMOUNT OF ZINC WAS DETECTED**
- At least 1,000 ppm in the M-1 fraction
 - At least 2,000 ppm in the M-1 fraction
 - At least 500 ppm in the NM-1 fraction
 - At least 10,000 ppm in the NM-1 fraction
 - At least 500 ppm in the NM-1 fraction and at least 1,000 ppm in the M-1 fraction
 - At least 10,000 ppm in one fraction and minimum anomalous value in other fraction



HISTOGRAMS SHOWING METAL DISTRIBUTION, SIERRA CUCHILLO-ANIMAS UPLIFTS AND ADJACENT AREAS
Showing spectrophotographically determined metal content in parts per million. N, metal value in sample is below the spectrographic detection limit. L, metal detected in sample but value is below the lowest spectrographic standard for a given metal.



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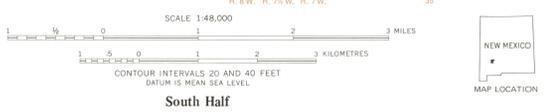
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MAP SHOWING ANOMALOUS DISTRIBUTION OF MOLYBDENUM, COPPER, AND ZINC IN STREAM-SEDIMENT CONCENTRATES FROM THE SIERRA CUCHILLO-ANIMAS UPLIFTS AND ADJACENT AREAS, SOUTHWESTERN NEW MEXICO

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1975