



CORRELATION OF MAP UNITS

QTs	UNCONFORMITY	QUATERNARY AND TERTIARY
Tir		TERTIARY
Tim	TERTIARY	TERTIARY
Pz		
pCm	PRECAMBRIAN	PRECAMBRIAN

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; includes recent surficial deposits and basalt flows.
- Tim** DIKE (TERTIARY) - Composition unknown. Same age as the intrusive rhyolite (Tir).
- Tv** VOLCANIC ROCKS (TERTIARY) - Andesite-latic-floes, flow breccia, and agglomerate; biotite latite and quartz latite-rhyolite ash-flow tuff and breccia; local waterflood 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 felsite of Rolly Peak.
- Pz** PALEOZOIC ROCKS - Predominantly limestone of the Pennsylvanian and Permian Magdalena Group and Permian red beds, sandstone, and dolomite in the north; includes lower Paleozoic carbonaceous 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 OR AERIAL PHOTOGRAPHY
- MINE WORKINGS OR PROSPECT
- SAMPLE LOCALITY

SAMPLE TYPES - Tungsten and silver content of pan-concentrated stream sediment has been determined spectrographically for each sample locality. Fluorite presence in pan-concentrated stream sediment has been determined by visual inspection under the binocular microscope 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 Franz 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 tungsten in either or both concentrate fractions and outlining visually detected fluorite in the NM-1 fraction. Hashures indicate low areas within metal and fluorite anomalies. Quered where control is lacking.

- Tungsten detected - Values range from the L category through 700 ppm (parts per million)
- Tungsten - At least 1,000 ppm
- Fluorite - Visually detected under binocular microscope in NM-1 fraction

SAMPLE LOCALITY WHERE ANOMALOUS AMOUNT OF SILVER WAS DETECTED

- At least 2 ppm in the NM-1 fraction
- At least 100 ppm in the NM-1 fraction

INDEX MAP OF SIERRA CUCHILLO-ANIMAS UPLIFTS AND ADJACENT AREAS SHOWING U.S. GEOLOGICAL SURVEY TOPOGRAPHIC QUADRANGLES, 1:24,000 AND 1:62,500

33° 30' 30"	45	30	107° 15'
	WILSON HEAD	MONTECITO	
30	IRON MTS	JANUARIA MTS	MONTECITO
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