



EXPLANATION

<p>PALEOZOIC AND YOUNGER ROCKS</p> <p>Qal Alluvium and talus UNCONFORMITY</p> <p>Qg Quaternary gravels <i>Of several ages, but distinguished from recent alluvium and talus by position and consolidation</i> UNCONFORMITY</p> <p>Ths Servilleta formation <i>Gravels and micaceous sand (Ths); in part covered by surface or near-surface flows of basalt (Thsb); concealed by later gravels except where dip and strike are shown or basalt lies at surface</i> UNCONFORMITY</p> <p>Tsf Santa Fe formation <i>Gravels, sand, silt, volcanic ash, clay, and intra-formational breccia, much of it buff-colored, partly covered by later gravels</i></p> <p>Tp Picuris tuff <i>Coarse basal conglomerate, brick-red, yellow, green, and white clay, volcanic breccia, water-laid volcanic tuff with interbedded coarse and fine gravels and thin basaltic flows, compact marl beds, and thin shaly beds, partly covered by later gravels</i> UNCONFORMITY</p>	<p>CARBONIFEROUS Pennsylvanian</p> <p>Cm Magdalena group <i>Arkose, sandstone, and shale, thin quartzite and cherty limestone beds in places at the base</i> UNCONFORMITY</p> <p>LATE PRE-CAMBRIAN ROCKS Metamorphic and igneous <i>(pc omitted from letter symbols)</i></p> <p>Diabase dikes <i>(Of very late pre-Cambrian age?) Relatively unmetamorphosed, cutting all other igneous and metamorphic pre-Cambrian rocks</i></p> <p>Embudo granite <i>Coarse-grained microcline granite or quartz monzonite consisting of darker biotite granite and light-colored well-foliated granite, both porphyritic in part, also pegmatitic leucogranite (eg); the leucogranite locally containing a zone of amphibolite gneiss (egam)</i></p> <p>Vadito formation Schist member <i>Quartz-muscovite schist, quartz-muscovite phyllite and quartz-biotite granulite (vs) interbedded with partly porphyritic plagioclase amphibolites in flows and sills (vsam)</i></p>	<p>CONTACTS</p> <p>Accurate, within the scale of the map</p> <p>Approximate and diagrammatic due to poor exposures</p> <p>SPECIAL SYMBOLS <i>(Strike and dip symbols represent only a small percentage of the field observations)</i></p> <p>Strike and dip of bedding</p> <p>Strike of vertical beds</p> <p>Horizontal bedding</p> <p>Strike and dip of foliation and schistosity</p> <p>Strike of vertical foliation and schistosity</p> <p>Strike and dip of foliation and strike of horizontal projection of lineation and angle of plunge</p> <p>Fault</p> <p>Inferred location of fault</p> <p>Inferred location of fault between soft Tertiary rocks and old hard rocks with indeterminate contact</p> <p>Silicified zone</p>
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ISOGRADS
si = sillimanite
ky = kyanite
st = staurolite

METAMORPHIC ZONES
Si = sillimanite zone
Ky = kyanite zone
St = staurolite zone
? = uncertain

ORE DEPOSITS (Chief metals shown by their chemical symbols)
Cu = Copper
Bi = Bismuth
W = Tungsten
Pb = Lead

PEGMATITES
Areas where abundant

SECTION ALONG LINE A-A'

SECTION ALONG LINE B-B'

Base map from U.S. Soil Conservation Service planimetric sheets

GEOLOGIC MAP OF THE PICURIS RANGE, TAOS COUNTY, NEW MEXICO
SHOWING ISOGRADS AND METAMORPHIC ZONES AND DISTRIBUTION OF PEGMATITES AND ORE DEPOSITS

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