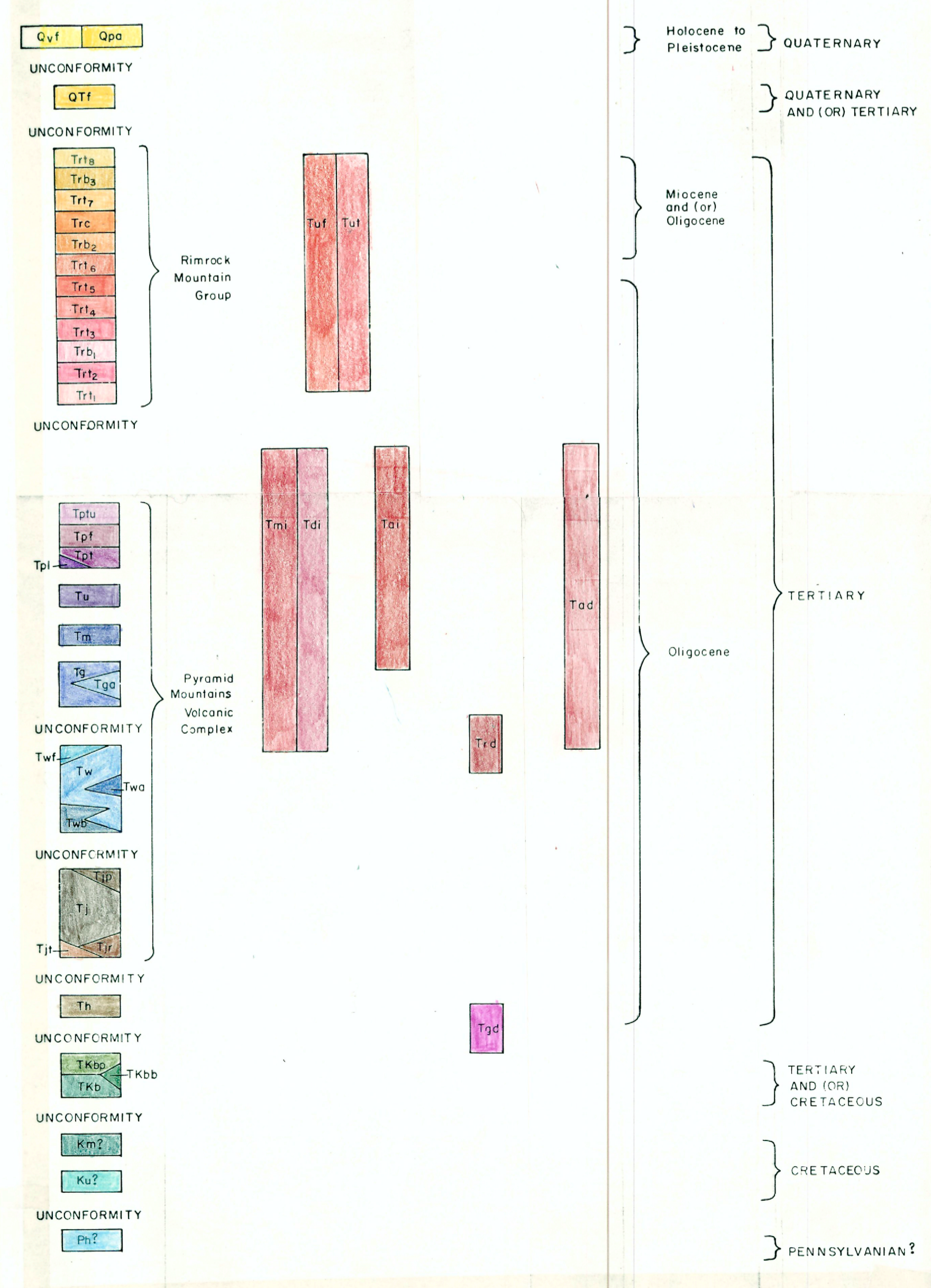


CORRELATION OF MAP UNITS

DESCRIPTION OF MAP UNITS



- QUATERNARY**
- Qv1** VALLEY-FLOOR DEPOSITS (Quaternary) - Fluvial, colluvial, and alluvial deposits, fine sand and silt
 - Qpo** PIEMONT AND ALLUVIAL DEPOSITS (Quaternary) - Alluvial fan and active wash sediments, poorly sorted gravels and sands
 - QTI** EARLY FANGLMERATE (Tertiary to Quaternary) - Coarse volcaniclastic conglomerate
- QUATERNARY AND (OR) TERTIARY**
- Tr1a** RIMROCK MOUNTAIN GROUP (Oligocene to Miocene?)
 - Tr1b** TUFF 8 - Rhyolite ash-flow tuff, moderately crystal-rich, contains sandstone, trace hornblende or augite
 - Tr1c** BASALTIC ANDESITE 3 - Flows, contain phenocrysts of andesine and augite; local volcaniclastic conglomerate
 - Tr1d** TUFF 7 - Rhyolite ash-flow tuff and pumiceous sandstone, tuff is crystal-poor to moderately crystal-rich, contains sandstone, quartz, biotite, trace augite and hornblende
 - Tr1e** CONGLOMERATE AND SANDSTONE - Volcaniclastic boulder conglomerate and sandstone
 - Tr1f** BASALTIC ANDESITE 2 - Aphanitic andesite, groundmass contains plagioclase, magnetite, augite
 - Tr1g** TUFF 6 - Rhyolite ash-flow tuff, strongly welded, crystal-rich, contains oligoclase, sanidine, quartz, biotite, trace hornblende
 - Tr1h** TUFF 5 - Rhyolite ash-flow tuff, crystal-poor, contains sanidine, plagioclase, trace quartz and biotite; also air-fall tuff and sandstone
 - Tr1i** TUFF 4 - Rhyolite ash-flow tuff, strongly welded, moderately crystal-rich, contains plagioclase, quartz, sanidine, minor biotite, trace hornblende or augite
 - Tr1j** TUFF 3 - Rhyolite ash-flow tuff, crystal-poor to moderately crystal-rich, contains quartz, sanidine, oligoclase, minor biotite, trace hornblende; sediments at the base
 - Tr1k** BASALTIC ANDESITE 1 - Flows, microporphritic, contains quartz, andesine, magnetite, trace plagioclase, biotite, trace hornblende
 - Tr1l** TUFF 2 - Rhyolite or quartz latite ash-flow tuff, moderately crystal-rich, strongly welded, contains plagioclase, biotite, minor hornblende, trace sanidine, augite
 - Tr1m** TUFF 1 - Rhyolite ash-flow tuff, crystal-poor, contains sanidine, minor quartz, trace plagioclase and biotite
 - Tr1n** RHYOLITE FLOWS, UNASSIGNED (Oligocene?) - Crystal-poor flow-banded rhyolite, contains plagioclase, quartz, sanidine
 - Tr1o** RHYOLITE TUFF, UNASSIGNED (Oligocene?) - Ash-flow tuff, welding variable, moderately crystal-rich, contains quartz, sanidine, plagioclase, sparse biotite, conspicuous pumice lenses
 - Tr1p** ANDESITE DIKES (Oligocene?) - Aphanitic to porphyritic dikes, variable mineral content, most common type resembles andesite of Holtkamp Canyon
 - Tr1q** RHYOLITE DIKES (Oligocene?) - Aphanitic, white rhyolite
 - Tr1r** ANDESITE PORPHYRY (Oligocene?) - Small intrusive stock, moderately crystal-rich, contains plagioclase, augite
 - Tr1s** COMPOSITE STOCK (Oligocene)
 - Tr1t** MONZONITE PORPHYRY - Contains plagioclase phenocrysts in groundmass of feldspars, magnetite, chloritized ferromagnesian minerals
 - Tr1u** DIORITE - Fine grained, contains andesine-hornblende, magnetite, biotite, augite, hornblende
 - Tr1v** QUARTZ LATITE DIKE (Oligocene?) - Porphyritic, crystal-poor, contains andesine, biotite in groundmass of quartz, plagioclase, and sanidine
- Oligocene**
- Tuf** RHYOLITE OF PYRAMID MOUNTAIN VOLCANIC COMPLEX
 - Tuf1** UPPER TUFF MEMBER - Basal sandstone, medial breccia with clasts of flow member, upper ash-flow tuff
 - Tuf2** FLOW MEMBER - Crystal-poor, contains oligoclase-andesine and biotite
 - Tuf3** LOWER TUFF MEMBER - Pumiceous tuff, sandstone, volcaniclastic conglomerate
 - Tuf4** LAKE DEPOSITS - Laminated sandstone, volcaniclastic conglomerate, freshwater limestone
 - Tuf5** LATITE OF UHL WELL - Flow and dikes, moderately crystal-rich, contains plagioclase, augite and hornblende in lower flow, biotite through most of the unit
 - Tuf6** ANDESITE OF MARYFIELD SEEP - Flow, moderately crystal-rich, contains andesine, hornblende, augite
 - Tuf7** TUFF OF GRAHAM WELL
 - Tuf8** Tuff Member - Quartz latite ash-flow tuff, moderately crystal-rich, contains oligoclase-andesine, biotite, trace quartz and sanidine
 - Tuf9** Andesite Member - Local flows intercalated in tuff member; resembles andesite of Woodchuck Canyon
 - Tuf10** TUFF OF WOODCHUCK CANYON
 - Tuf11** Flow Member - Crystal-poor rhyolite flows
 - Tuf12** Tuff Member - Rhyolite ash-flow tuff, crystal-poor, contains andesine, quartz, minor plagioclase-andesine, minor biotite, trace augite
 - Tuf13** Andesite Member - Flows intercalated with tuff member
 - Tuf14** Breccia Member - Blocks of andesite, conglomerate, limestone, granite in tuff matrix
 - Tuf15** RHYOLITE OF JOSE PLACENCIA CANYON
 - Tuf16** Flow Member - Dikes and flows of crystal-poor flow-banded quartz latite, oligoclase-andesine, minor biotite, trace hornblende
 - Tuf17** Porphyric Member - Local dikes and flows of crystal-rich rhyolite, contains oligoclase and sparse biotite, stratigraphic position uncertain
 - Tuf18** Rhyodolite Member - Flows, similar to flow member but contain more biotite
 - Tuf19** Tuff Member - Resembles tuff of Woodchuck Canyon except in stratigraphic position
 - Tuf20** ANDESITE OF HOLTKAMP CANYON (Oligocene?) - Porphyritic flows and dikes, highly crystal-rich, contains andesine, augite, rare hornblende, hornblende, some flows are aphanitic, locally includes felsic tuff
- TERTIARY**
- Tm1** BASALT (Cretaceous or early Tertiary)
 - Tm2** Porphyritic Member - Resembles aphanitic member but contains plagioclase phenocrysts
 - Tm3** Breccia lentil - Volcaniclastic sandstone and breccia
 - Tm4** Aphanitic Member - Porphyritic basalt, contains andesine, secondary iron oxides and calcite
 - Tm5** MCJALIC FORMATION (Lower? Cretaceous) - Orthoquartzite
 - Tm6** U-BAR? FORMATION (Lower? Cretaceous) - Fossiliferous limestone
 - Tm7** HOQUILLA? FORMATION (Pennsylvanian?) - Fossiliferous limestone
- TERTIARY AND (OR) CRETACEOUS**
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- CRETACEOUS**
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- CONTACT** - Dashed where approximately located
- FAULT** - Dashed where approximately located, dotted where concealed, bar and ball on downthrown side, unless shown by U
- STRIKE AND DIP OF BEDS AND OF COMPACTED ASH-FLOW TUFFS:**
- Inclined, with dip
 - Vertical
- STRIKE AND DIP OF FOLIATED LAVA FLOWS AND DOMES:**
- Inclined, with dip
 - Vertical
- VEIN OR MINERALIZED FAULT**
- SHAFT**
- WELL**