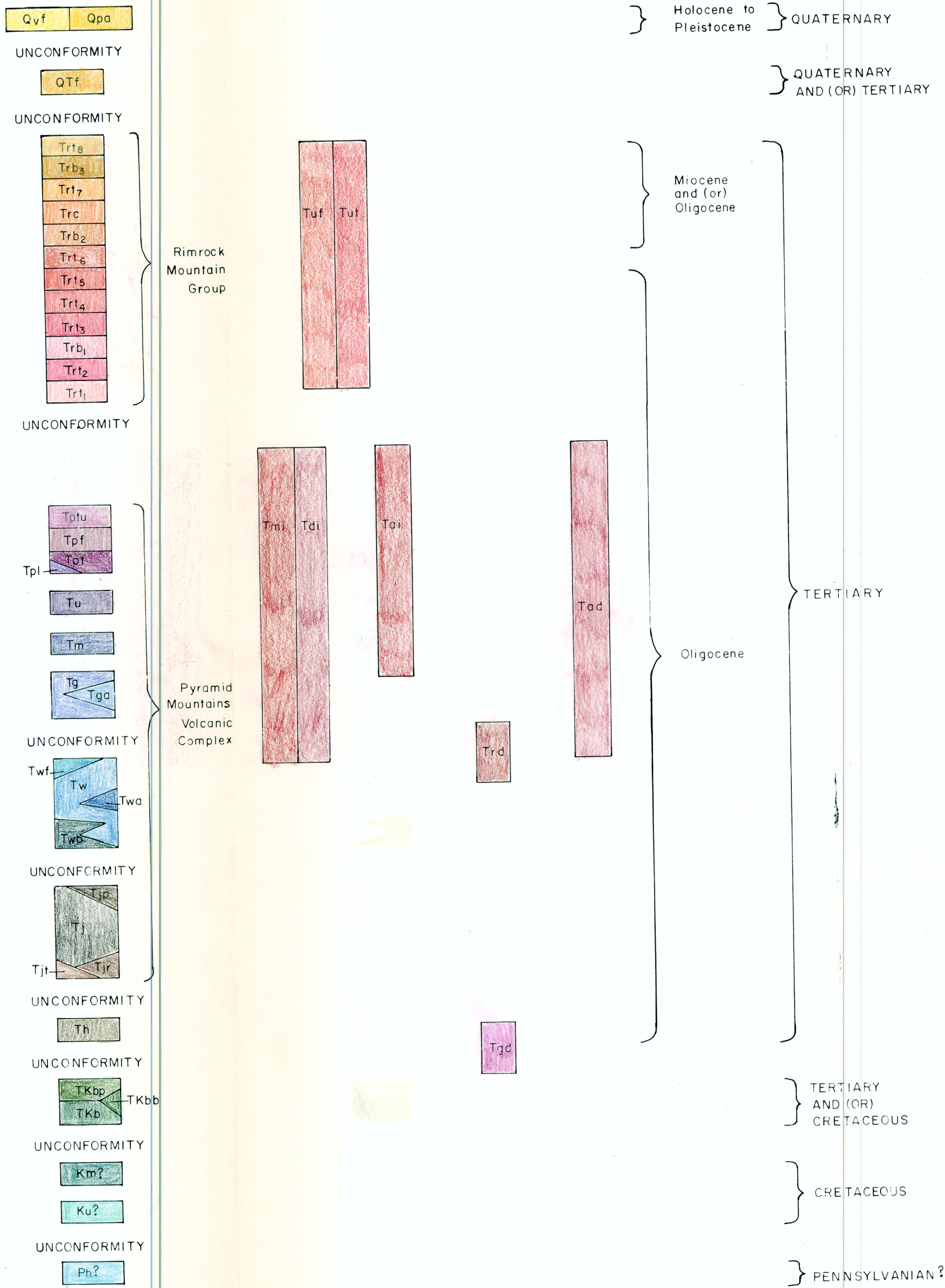


CORRELATION OF MAP UNITS



DESCRIPTION OF MAP UNITS

- VALLEY-FLOOR DEPOSITS (Quaternary)**—Fluviodeltaic, eolian, and sheetflood deposits, fine sand and silt  
 Qvf
- PIEDMONT AND ALLUVIAL DEPOSITS (Quaternary)**—Alluvial fan and active wash sediments, poorly sorted gravels and sands  
 Qpa
- EARLY FANGLOMERATE (Tertiary to Quaternary)**—Coarse volcaniclastic fanglomerate  
 QTf
- RIMROCK MOUNTAIN GROUP (Oligocene to Miocene?)**  
 TUFF 8—Rhyolite ash-flow tuff, moderately crystal-rich, contains sanidine, quartz, minor oligoclase and biotite  
 Trt8
- BASALTIC ANDESITE 3**—Flows, contain phenocrysts of andesine and augite, local volcaniclastic conglomerate  
 Trb3
- TUFF 7**—Rhyolite ash-flow tuff and pumiceous sandstone, tuff is crystal-poor to moderately crystal-rich, contains sanidine, quartz, biotite, trace augite and hornblende  
 Trt7
- CONGLOMERATE AND SANDSTONE**—Volcaniclastic boulder conglomerate and sandstone  
 Trc
- BASALTIC ANDESITE 2**—Aphanitic andesite, groundmass contains plagioclase, magnetite, augite  
 Trb2
- TUFF 6**—Rhyolite ash-flow tuff, strongly welded, crystal-rich, contains oligoclase, sanidine, quartz, biotite, trace hornblende  
 Trt6
- TUFF 5**—Rhyolite ash-flow tuff, crystal-poor, contains sanidine, plagioclase, trace quartz and biotite, also air-fall tuff and sandstone  
 Trt5
- TUFF 4**—Rhyolite ash-flow tuff, strongly welded, moderately crystal-rich, contains plagioclase, quartz, sanidine, minor biotite, trace hornblende or augite  
 Trt4
- TUFF 3**—Rhyolite ash-flow tuff, crystal-poor to moderately crystal-rich, contains quartz, sanidine, oligoclase, minor biotite, trace hornblende; sediments at the base  
 Trt3
- BASALTIC ANDESITE 1**—Flows, microporphyrific, contains augite, andesine, magnetite, trace olivine. In Three Mile Hills, porphyritic andesine-pyroxene-biotite andesite  
 Trb1
- TUFF 2**—Rhyolite or quartz latite ash-flow tuff, moderately crystal-rich, strongly welded, contains plagioclase, biotite, minor hornblende, trace sanidine, augite  
 Trt2
- TUFF 1**—Rhyolite ash-flow tuff, crystal-poor, contains sanidine, minor quartz, trace plagioclase and biotite; sediments at the base  
 Trt1
- RHYOLITE FLOWS, UNASSIGNED (Oligocene?)**—Crystal-poor flow-banded rhyolite, contains plagioclase, quartz, sanidine  
 Tuf
- RHYOLITE TUFF UNASSIGNED (Oligocene?)**—Ash-flow tuff, welding variable, moderately crystal-rich, contains quartz, sanidine, plagioclase, sparse biotite, conspicuous pumice lenses  
 Tui
- ANDESITE DIKES (Oligocene?)**—Aphanitic to porphyritic dikes, variable mineral content, most common type resembles andesite of Holtkamp Canyon  
 Tad
- RHYOLITE DIKES (Oligocene?)**—Aphanitic, white rhyolite  
 Td
- ANDESITE PORPHYRY (Oligocene)**—Small intrusive stock, moderately crystal-rich, contains plagioclase, augite  
 Td
- COMPOSITE STOCK (Oligocene)**  
**MONZONITE PORPHYRY**—Contains plagioclase phenocrysts in groundmass of feldspars, magnetite, chloritized ferromagnesian minerals  
 Tm
- DIORITE**—Fine grained, contains andesine-labradorite, magnetite, biotite, augite, hornblende  
 Td
- QUARTZ LATITE DIKE (Oligocene?)**—Porphyritic, crystal-poor, contains andesine, biotite in groundmass of quartz, plagioclase, and sanidine  
 Tgd
- PYRAMID MOUNTAIN VOLCANIC COMPLEX (Oligocene)**  
**RHYOLITE OF PYRAMID PEAK**  
 Upper Tuff Member—Basal sandstone, medial breccia with clasts of flow member, upper ash-flow tuff  
 Tplu
- Flow Member—Crystal-poor, contains oligoclase-andesine and biotite  
 Tplf
- Lower Tuff Member—Pumiceous tuff, sandstone, volcaniclastic conglomerate  
 Tpl
- Lake Deposits—Laminated sandstone, volcaniclastic conglomerate, freshwater limestone  
 Tpl
- LATITE OF UHL WELL**—Flows and dikes, moderately crystal-rich, contains plagioclase, augite and hornblende in lowest flows, biotite through most of the unit  
 Tu
- ANDESITE OF MANSFIELD SEEP**—Flows, moderately crystal-rich, contains andesine, hornblende, augite  
 Tm
- TUFF OF GRAHAM WELL**  
 Tuff Member—Quartz latite ash-flow tuff, moderately crystal-rich, contains oligoclase-andesine, biotite, trace quartz and sanidine  
 Tg
- Andesite Member—Local flows intercalated in tuff member; resembles andesite of Woodhaul Canyon  
 Tga
- TUFF OF WOOLHAUL CANYON**  
 Flow Member—Crystal-poor rhyolite flows  
 Twf
- Tuff Member—Rhyolite ash-flow tuff, crystal-poor, contains andesine, biotite, minor sanidine, abundant lithic inclusions, usually altered  
 Tw
- Andesite Member—Flows intercalated with tuff member  
 Twa
- Breccia Member—Blocks of andesite, conglomerate, limestone, granite in tuff matrix  
 Twb
- RHYOLITE OF JOSE PLACENCIA CANYON**  
 Flow Member—Domes and flows of crystal-poor flow-banded rhyolite, contains oligoclase-andesine, minor biotite, trace quartz and sanidine  
 Tpl
- Porphyritic Member—Local dikes and flows of crystal-rich rhyolite, contains oligoclase and sparse biotite, stratigraphic position uncertain  
 Tpl
- Rhyodacite Member—Flows, similar to flow member but contain more biotite  
 Tpl
- Tuff Member—Resembles tuff of Woodhaul Canyon except in stratigraphic position  
 Tpl
- ANDESITE OF HOLT KAMP CANYON (Oligocene?)**—Porphyritic andesite flows and breccias, mostly crystal-rich, contains andesine, augite, rare hypersthene, hornblende, some flows are aphanitic, locally includes felsic tuff  
 Tkb
- BASALT (Cretaceous or early Tertiary)**  
 Porphyritic Member—Resembles aphanitic member but contains plagioclase phenocrysts  
 Tkb
- Breccia Lentil—Volcaniclastic sandstone and breccia  
 TKbb
- Aphanitic Member—Propylitized basalt, contains andesine, secondary iron oxides and calcite  
 Tkb
- MCJACK? FORMATION (Lower? Cretaceous)**—Orthoquartzite  
 Km?
- U-BAR? FORMATION (Lower? Cretaceous)**—Fossiliferous limestone  
 Ku?
- HORQUILLA? FORMATION (Pennsylvanian?)**—Fusulinid-bearing limestone  
 Ph?
- CONTACT—Dashed where approximately located  
 FAULT—Dashed where approximately located, dotted where concealed. Bar and ball on downthrown side, unless shown by U or D  
 STRIKE AND DIP OF BEDS AND OF COMPACTED ASH-FLOW TUFFS:  
 25° — Inclined, with dip  
 + — Vertical  
 STRIKE AND DIP OF FOLIATED LAVA FLOWS AND DOMES:  
 25° — Inclined, with dip  
 + — Vertical  
 VEIN OR MINERALIZED FAULT  
 SHAFT  
 HOT WELLS