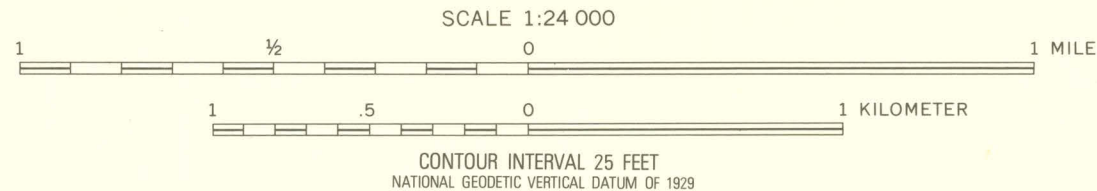
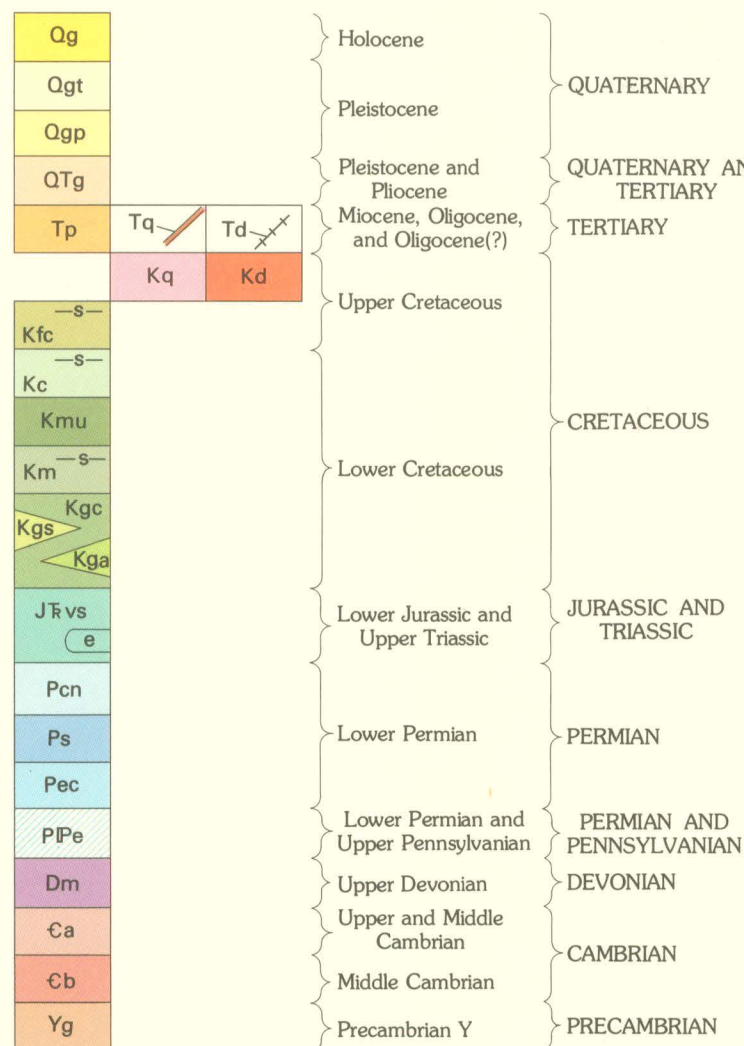


Base from U.S. Geological Survey,
Pyeatt Ranch (1948-58)

Geology of central area by Drewes, 1974
and Drewes and C. H. Thorman, 1975;
other areas modified from Hayes
(Hayes and Raup, 1968)



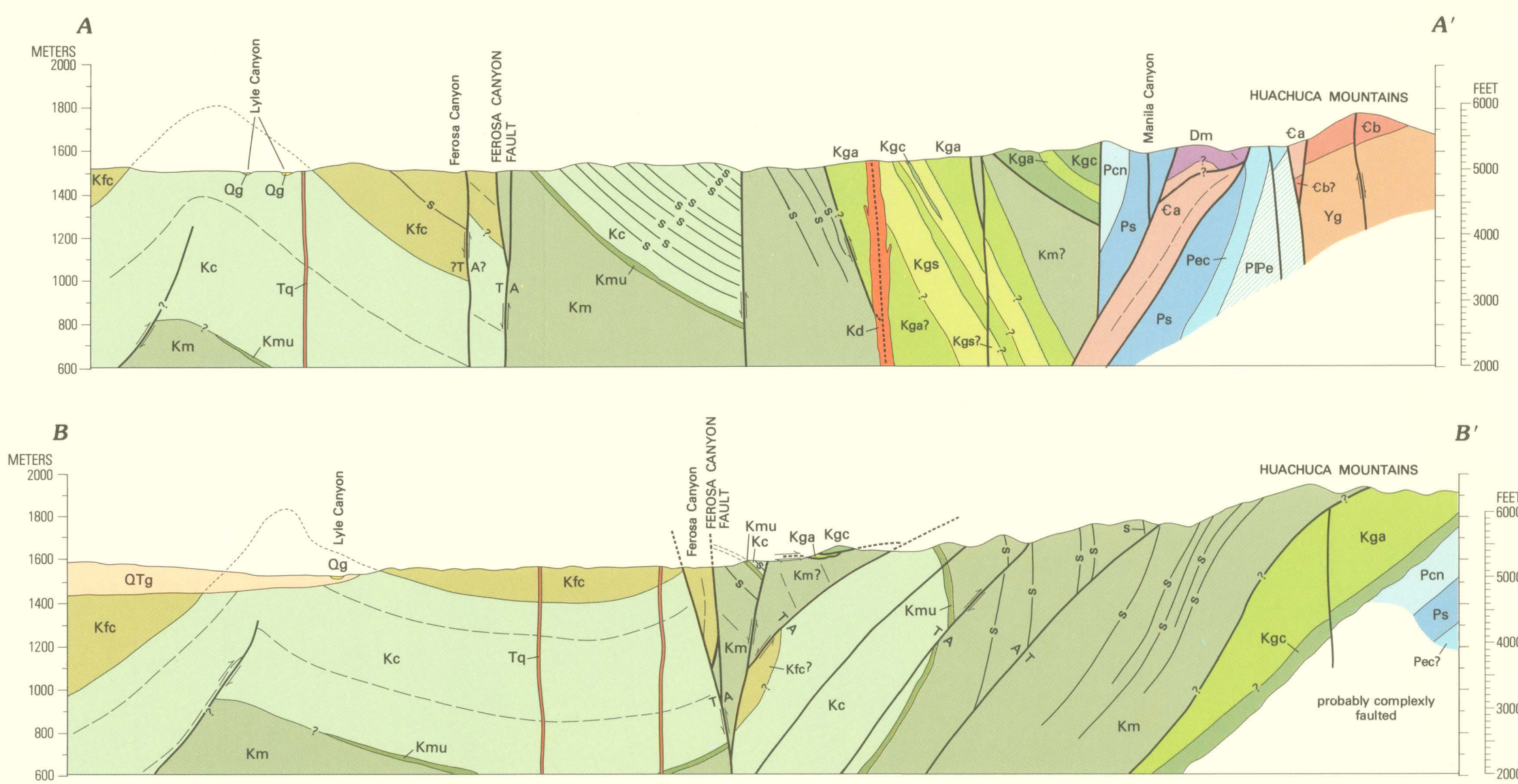
CORRELATION OF MAP UNITS



DESCRIPTION OF MAP UNITS
In part after Hayes and Raup (1968)

- Qg** GRAVEL (HOLOCENE)—Alluvium along stream bottoms and on low terrace
- Qgt** GRAVEL (PLEISTOCENE)—Alluvium on terraces of intermediate height
- Qgp** GRAVEL (PLEISTOCENE)—Alluvium on high pediment cap
- QTg** GRAVEL (PLEISTOCENE AND PLIOCENE)—Thick deposit of slightly indurated, moderately coarse gray gravel and sand
- Tp** PANTANO FORMATION (MIOCENE AND OLIGOCENE)—Moderately indurated, fine-grained pinkish-gray to pale-red gravel and sand
- DIKES:** (Age relations between dikes and Pantano Formation unknown)
 - Tq** Quartz latite porphyry (Oligocene?)—Pale-yellowish-gray, flow-laminated; contains sparse small phenocrysts of quartz, feldspar, and commonly also of altered biotite
 - Td** Dacite porphyry (Oligocene?)—Greenish-gray; contains phenocrysts of feldspar and altered amphibole
- INTRUSIVE BODIES:** (Age relations between rocks unknown)
 - Kq** Quartz monzonite (Upper Cretaceous?)—Pale-orange-gray, coarse-grained altered rock
 - Kd** Diorite (Upper Cretaceous)—Medium-dark-gray amphibole-rich rock
 - Kfc** FORT CRITTENDEN FORMATION (UPPER CRETACEOUS)—Brown arkose and conglomerate containing clasts of rocks as young as the Bisbee Group, and intercalated reddish-brown siltstone
- SANDSTONE MARKER UNIT**
 - Kc** Cintura Formation (Lower Cretaceous)—Alternating units of reddish-gray siltstone and pale-brownish-gray well-sorted sandstone, feldspathic sandstone, and quartzitic sandstone in units commonly 1-5 m thick; contains some poorly developed cross bedding and graded bedding. About 500 m thick
 - Kmu** Mural Limestone (Lower Cretaceous)—Light-gray fine-grained limestone in thin beds, and intercalated red mudstone. Thins northwest from about 6 m to less than 1 m
 - Km** Morita Formation (Lower Cretaceous)—Alternating reddish-gray siltstone and pale-brownish-gray sandstone that resemble the rocks of the Cintura Formation; contains some thin conglomerate beds near base
 - Kgs** Siltstone unit; includes some mudstone and sandstone
 - Kga** Andesite flows, flow breccia, and possibly some intrusive sheets
- CANEO HILLS VOLCANICS (LOWER JURASSIC AND UPPER TRIASSIC)**—Interlayered rhyolitic lava, tuff, and sedimentary rocks
 - e**—Exotic blocks; large masses of Paleozoic formations
- NACO GROUP:**
 - Pcn** Concha Limestone (Lower Permian)—Light-medium-gray cherty limestone
 - Ps** Scherrer Formation (Lower Permian)—Very pale brownish-gray fine-grained quartzitic sandstone, a thin medial dolomite, and a basal red siltstone
 - Pec** Epitaph Dolomite and Colina Limestone (Lower Permian)—Medium-gray sparsely cherty limestone, dolomitic limestone, and dark-gray dolomite
 - PIPe** Earp Formation (Lower Permian and Upper Pennsylvanian)—Pale-red siltstone and marlstone
 - Dm** MARTIN FORMATION (UPPER DEVONIAN)—Dark-brownish-gray dolomite, sandy dolomite, and some thin sandstone and siltstone beds
 - Ca** ABRIGO FORMATION (UPPER AND MIDDLE CAMBRIAN)—Shale, siltstone, thin-bedded limestone and some dolomite
 - Cb** BOLSA QUARTZITE (MIDDLE CAMBRIAN)—Reddish-brown, purplish-gray, and yellowish-brown, thick-bedded, coarse-grained quartzite
 - Yg** GRANITE (PRECAMBRIAN Y)—Pinkish-gray coarse-grained, porphyritic granite or quartz monzonite

- ALTERED ROCK**—Homfelsed and possibly slightly mineralized rocks
- CONTACT**—Dotted where concealed
- FAULTS**—Showing dip. Dotted where concealed. Queried where uncertain
 - Strike-slip fault—Arrow couple shows relative movement. Half-arrow shows trend of slicken sides
 - Normal fault—Bar and ball on downthrown side
 - Thrust fault—Sawteeth on upper plate
 - Fault on cross section—Arrow couple shows relative movement. A, movement away from viewer; T, toward viewer
- FOLDS**—Showing trace of axial plane
 - Anticline
 - Syncline
- STRIKE AND DIP OF BEDS**
 - Inclined
 - Vertical
 - Overtured—Queried where inferred only from geologic relations



GEOLOGIC MAP AND STRUCTURE SECTIONS OF THE NORTHERN HUACHUCA MOUNTAINS, ARIZONA