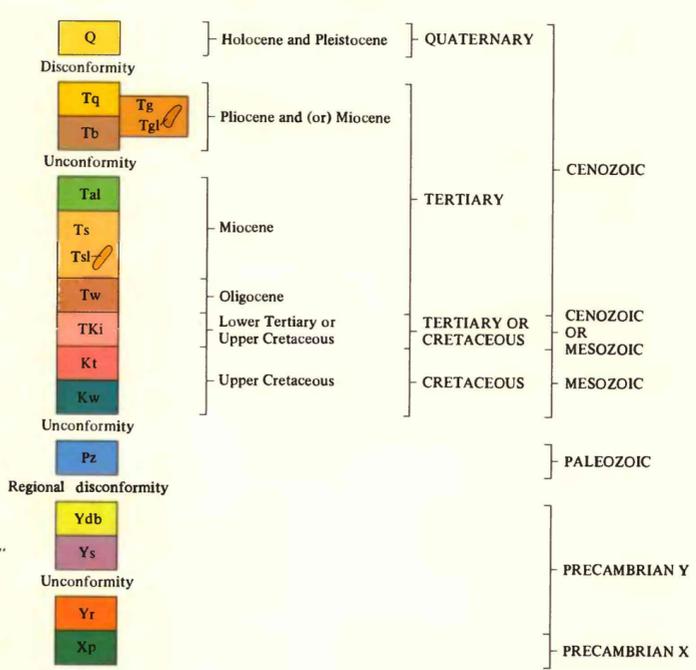


CORRELATION OF MAP UNITS

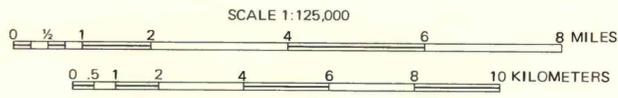


DESCRIPTION OF MAP UNITS

- Q** ALLUVIUM AND PEDIMENT GRAVELS—Locally may include older gravels; not shown in areas of Tertiary strata
- Tq** QUIBURIS FORMATION (Miocene or Pliocene)—Alluvial and lakebed deposits in basin now occupied by the San Pedro River; contains Hemphillian vertebrate fossils near the Miocene-Pliocene boundary as defined by Bergren (1972)
- Tg** TERTIARY DEPOSITS, UNDIFFERENTIATED—In Dripping Spring Valley includes alluvial and lakebed deposits that may be Quiburis or Big Dome in age; in western part of Teapot Mountain quadrangle includes volcanic and sedimentary rocks younger than the Apache Leap Tuff
- Tgl** EL CAPITAN LANDSLIDE—In Dripping Spring Valley
- Tb** BIG DOME FORMATION (Miocene)—Alluvial deposits dated at 14 m.y. (biotite) and 17 m.y. (hornblende). Contains abundant clasts of Apache Leap Tuff; unconformable on San Manuel Formation
- Tal** APACHE LEAP TUFF—Ash-flow tuff, 20 m.y.
- Ts** SAN MANUEL FORMATION—Alluvial and playa deposits. Absence of clasts of Apache Leap Tuff suggests that San Manuel Formation is older. A tuff bed in upper part gave ages of 18 m.y. (biotite) and 24 m.y. (sanidine)
- Tsl** KEARNY AND OTHER LANDSLIDES—Interbedded in San Manuel Formation
- Tw** WHITETAIL CONGLOMERATE—Tuff bed in upper part gave age of 32 m.y. (biotite)
- TKi** INTRUSIVE ROCKS—Stocks, sills, and dikes of dioritic to rhyodacitic and granodioritic composition
- Kt** TORTILLA QUARTZ DIORITE
- Kw** WILLIAMSON CANYON VOLCANICS—Includes related volcanic rocks in Crozier Peak quadrangle
- Pz** SEDIMENTARY ROCKS—Includes Cambrian Bolsa Quartzite and Abrigo Formation, Devonian Martin Formation, Mississippian Escabrosa Limestone, and Pennsylvanian Naco Limestone
- Ydb** DIABASE—About 1,200 m.y.; many small diabase sills, too small to show at map scale, are in tilted belts and broad areas of Precambrian sedimentary rocks
- Ys** SEDIMENTARY ROCKS—Includes Apache Group and overlying Troy Quartzite; Apache Group consists of (in ascending order) Pioneer Formation and basal Scanlan Conglomerate Member, Dripping Spring Quartzite and basal Barnes Conglomerate Member, Mescal Limestone, and Apache basalt
- Yr** GRANITIC ROCKS, LARGELY RUIN GRANITE—1,400-1,460 m.y.; also includes Precambrian Madera Diorite in Teapot Mountain and Sonora quadrangles and some early Tertiary granodiorite in Ninety-six Hills northeast quadrangle
- Xp** PINAL SCHIST

- Contact—Queried where doubtful
- Fault, showing dip where known—Dashed where approximate, dotted where concealed. Bar and ball on downthrown side
- Thrust fault—Dashed where approximate, dotted where concealed. Sawteeth on upper plate of thrust
- Syncline—Dotted where concealed
- Strike and dip of beds
- 35 Inclined
- 60 Overturned
- ☀ Mine dump

Base from Tucson and Mesa, 1:250,000, 1956



Geology compiled from sources listed on figure 1

GEOLOGIC MAP OF KEARNY AND SURROUNDING QUADRANGLES, ARIZONA

This map was printed from negatives prepared by photographic color-separation of a hand-painted original.