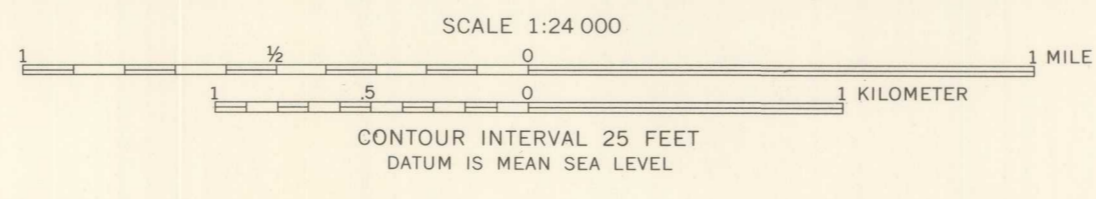


EXPLANATION

- | | | |
|--|--|---|
| Recent | <p>Qal
Alluvium
Gravel, sand, and silt along intermittent stream beds and in unconsolidated basins</p> <p>Coarse residual detritus, soil, and slope wash; mapped only in part</p> | QUATERNARY |
| Pliocene and Pleistocene | <p>UNCONFORMITY</p> <p>QTgt
Gila conglomerate
QTg, loose to firmly cemented alluvial fans and fluviatile valley fill deposits, older than the latest period of deformation
QTgt, interbedded buffaceous sandstone</p> <p>QTb
Basalt
Brownish-gray aphanitic, probably remnant of small local extrusions</p> | TERTIARY AND QUATERNARY |
| Upper Cretaceous or lower Tertiary | <p>UNCONFORMITY</p> <p>Td
Dacite
Massive sheet of pinkish-gray to light-brownish-gray welded tuff of dacitic composition; remnants are as much as 2,000 feet in thickness</p> <p>Tw
Whitetail conglomerate
Local accumulations of detrital material in channels and low-lying areas of the pre-dacite terrane</p> <p>UNCONFORMITY</p> <p>Tsg Tgp
Schulze granite
Tsg, stock of porphyritic biotite-quartz monzonite grading locally into granite porphyry facies
Tgp, granite porphyry dikes and sills not obviously connected with the main stock
May include some unrelated dikes in the southeastern part of the quadrangle</p> <p>TKdb
Diabase
Dikes, sills, and irregular intrusive bodies of greenish-black fine- to medium-grained diabase</p> <p>TKs
Solitude granite
Nearly white medium-grained nonporphyritic muscovite granite; in eastern part of the mass in the adjacent quadrangle contains biotite in addition to muscovite</p> | TERTIARY (?)

CRETACEOUS OR TERTIARY |
| Upper Proterozoic | <p>UNCONFORMITY</p> <p>pCdb
Dripping Spring quartzite and Barnes conglomerate, undivided
Only the lower part of the Dripping Spring quartzite is present, which is light-gray to light-brownish-gray medium- to coarse-grained feldspathic quartzite; shows distinct separation into beds which are thinly laminated and locally crossbedded. Below the Dripping Spring is the Barnes conglomerate, which in this area ranges from a thin layer of coarse-grained feldspathic sandstone containing a few scattered pebbles to a 6-foot-thick bed of closely packed ellipsoidal pebbles of hard vitreous quartzite, white vein quartz, and red jasper</p> <p>pCds
Pioneer formation and Scanlan conglomerate, undivided
Grayish-red to brownish-gray fine-grained argillaceous sandstone or feldspathic quartz wacke. Scanlan conglomerate, a bed of coarse-grained arkose, probably not more than 2 feet thick, containing a few pebbles of schist and white quartz, occurs below the Pioneer formation</p> | APACHE GROUP |
| Lower Proterozoic | <p>UNCONFORMITY</p> <p>pCmg
Granite on Manitou Hill
Sill-like bodies intruding Pinal schist; yellowish-gray fine- to medium-grained slightly gneissic muscovite granite</p> <p>pCmd
Madera diorite
Bright-gray mostly medium-grained biotite-quartz diorite; locally contains abundant epidote</p> <p>pCpl
Pinal schist
A thick sequence of weakly to moderately metamorphosed thin-bedded sediment ranging from silt to very coarse arkosic sand; composed essentially of quartz and sericite; foliation is parallel with the bedding; beds are tilted at angles ranging from 35° to 90° but otherwise are only slightly deformed; locally more intensely metamorphosed and crumpled in zones bordering granitic intrusions</p> | PRECAMBRIAN |
| <p>Contact
Dashed where approximately located and where bounding Gila conglomerate and surficial deposits</p> <p>Fault, showing dip
Dashed where approximately located; dotted where concealed. U, upthrown side; D, downthrown side</p> <p>Vertical fault</p> <p>Strike and dip of beds</p> <p>Strike and dip of foliation and bedding</p> <p>Strike of vertical foliation and bedding</p> <p>Generalized strike and dip of crumpled or undulating bedding of schist</p> | | <p>Shaft</p> <p>Mine dump</p> <p>Portal of adit</p> <p>Small prospect pit</p> <p>Mines and prospects referred to in text</p> <ol style="list-style-type: none"> 1. Powers Gulch 2. Swede mine 3. Bronx property 4. Clark prospect 5. American mine 6. Lorraine 7. Cremshaw 8. Gibson mine 9. Madera prospect 10. Ellis vein 11. Cole and Goodwin 12. Catclaw 13. Red Rock 14. Samsel deposit 15. Doak <p>Projects 1, 4, and 9 are described in text as general areas of mineralization</p> |

GEOLOGIC MAP AND SECTION OF THE PINAL RANCH QUADRANGLE, ARIZONA



Base map by Topographic Division
U.S. Geological Survey, 1949

Geology by N. P. Peterson, 1947 and 1957-59

APPROXIMATE MEAN DECLINATION, 1963