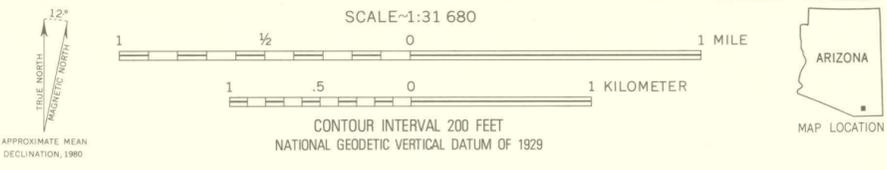


CORRELATION OF MAP UNITS

| | | |
|-----|---------------------------|-------------------------|
| Qg | Pleistocene | QUATERNARY |
| QTg | Pleistocene and Pliocene | QUATERNARY AND TERTIARY |
| Tr | | TERTIARY |
| Ks | | CRETACEOUS |
| Kl | Upper Cretaceous | |
| Kdi | | |
| Kd | | |
| Kb | | JURASSIC |
| Kbg | Lower Cretaceous | |
| Jg | | PERMIAN |
| la | | |
| Pe | Lower Permian | PENNSYLVANIAN |
| Ph | | |
| Me | | MISSISSIPPIAN |
| Dm | Upper Devonian | |
| Ca | Upper and Middle Cambrian | CAMBRIAN |
| Cb | Middle Cambrian | |
| Yg | Precambrian Y | PRECAMBRIAN |
| ap | | |
| Xp | Precambrian X | |

- BISBEE FORMATION (LOWER CRETACEOUS):**
- Kb** Siltstone, shale, and sandstone—Feldspathic light-reddish-gray siltstone, and dark-gray shale, 90 percent; light-brownish-gray, feldspathic, crossbedded sandstone with some lentils of small round-pebble conglomerate, 9 percent; and intercalated fine-grained limestone and limestone-nodule beds, together about 1 percent
 - Kbg** Glance Conglomerate Member—Limestone cobble conglomerate
- GLEESON QUARTZ MONZONITE (JURASSIC):**
- Jg** Coarse-grained biotite quartz monzonite and granodiorite, radiometrically dated as 178 and 185 m.y. Includes some small bodies of granitoid rock near the Herget Turquoise Mine that Gilluly (1956) mapped as Copper Belle Monzonite Porphyry and Turquoise Granite and as older than the Gleeson Quartz Monzonite
- Lamprophyre dike**
- la** Lamprophyre dike
- EPITAPH DOLOMITE (LOWER PERMIAN):**
- Pe** Dark-gray, coarse-grained dolomite; occurs only as large blocks in latitic tuff, unit Kl
- HORQUILLA LIMESTONE (PENNSYLVANIAN):**
- Ph** Light-gray, fine-grained, thin-bedded, cherty limestone
- ESCABROSA LIMESTONE (MISSISSIPPIAN):**
- Me** Dark-gray, coarse-grained, thick-bedded, cherty, crinoidal limestone
- MARTIN FORMATION (UPPER DEVONIAN):**
- Dm** Limestone, brown dolomite, and sandstone
- ABRIGO FORMATION (UPPER AND MIDDLE CAMBRIAN):**
- Ca** Shale, sandstone, and thin-bedded limestone
- BOLSA QUARTZITE (MIDDLE CAMBRIAN):**
- Cb** Light-gray to brownish-gray, thick-bedded, coarse-grained quartzite
- GRANODIORITE PORPHYRY (PRECAMBRIAN Y):**
- Yg** Coarse-grained biotite granodiorite porphyry
- Aplite**
- ap** Aplite
- Lamprophyre dike**
- la** Lamprophyre dike
- PINAL SCHIST (PRECAMBRIAN X):**
- Xp** Phyllite, schist, and metagraywacke

Base from U.S. Geological Survey, 1:62,500
Pearce, 1958

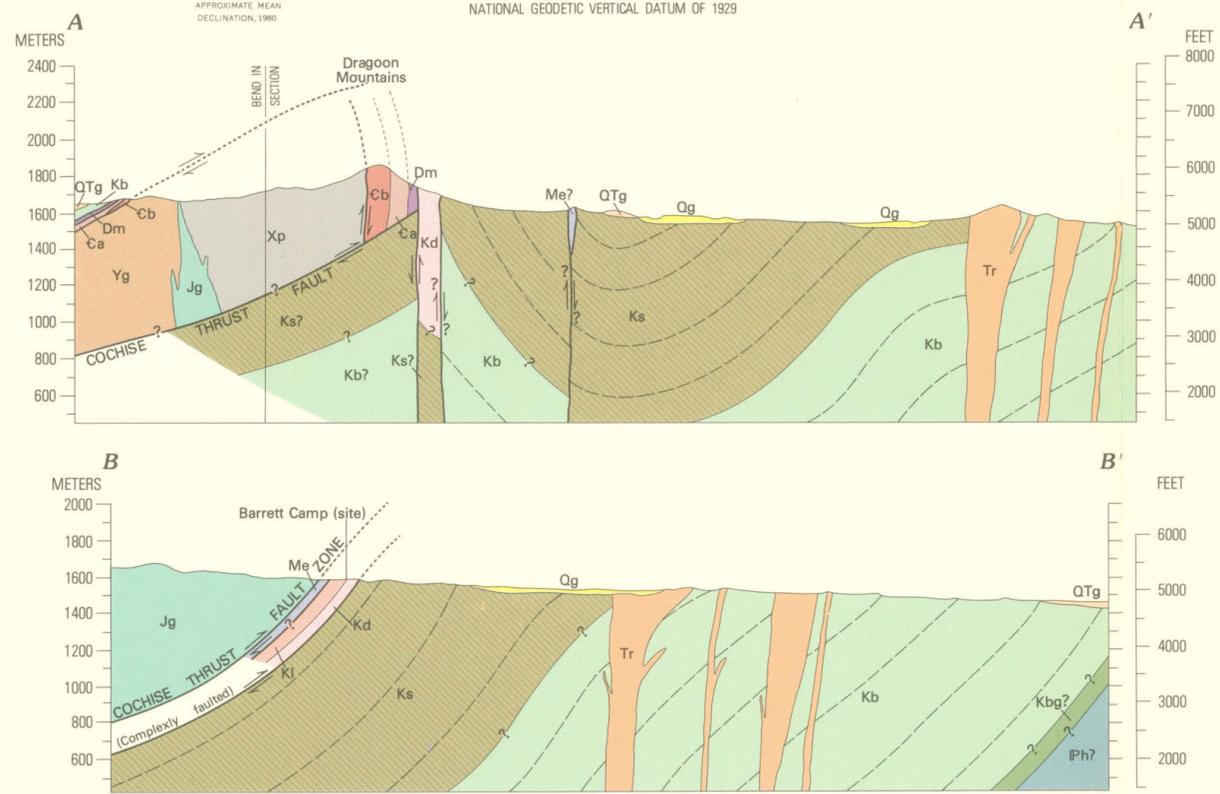


Geology by Harald Drewes, 1972 and 1975; assisted by G. K. Lee, 1972, and C. H. Thorman, 1975

DESCRIPTION OF MAP UNITS

- Qg** GRAVEL AND SAND (PLEISTOCENE)—Alluvium along watercourses and on terraces
- QTg** GRAVEL (PLEISTOCENE AND PIOCENE)—Alluvium deposited on pediments and in basins
- Tr** RHYOLITE (TERTIARY)—Dikes of porphyritic rhyolite
- Ks** SEDIMENTARY ROCKS (UPPER CRETACEOUS)—Siltstone, sandstone, and conglomerate that contain subangular pebbles and cobbles derived from sandstone and conglomerate of the Bisbee Formation, Gleeson Quartz Monzonite, and volcanic rocks
- Kl** LATITIC TUFF (UPPER CRETACEOUS)—Indurated, altered, and probably welded tuff. Contains large blocks of Escabrosa and Horquilla Limestones and of Epitaph Dolomite, as parenthetically marked
- Dacitic Rocks (UPPER CRETACEOUS):**
 - Kdi** Intrusive dacitic porphyry
 - Kd** Volcanic dacite and dacite breccia

- CONTACT**—Dotted where concealed
- NORMAL FAULT**—Dotted where concealed. Bar and ball on downthrown side
- THRUST FAULT**—Showing dip. Sawteeth on upper plate
- COMPLEX FAULT**—Showing dip. Sawteeth on upper plate. Inferred to have moved first as part of a thrust fault and then as a glide fault
- FAULT ON CROSS SECTION**—Arrow couple shows relative movement. Queried where basis for projection is lacking
- QUARTZ VEIN**—Showing dip. Half-arrow shows plunge of slickensides
- STRIKE AND DIP OF BEDS**
 - $\frac{15}{}$ Inclined
 - $\frac{+}{}$ Vertical
 - $\frac{80}{}$ Overtured



GEOLOGIC MAP AND STRUCTURE SECTIONS OF PART OF THE SOUTHERN DRAGOON MOUNTAINS BETWEEN SOUTH PASS AND TURQUOISE MOUNTAIN, ARIZONA