



**MAP UNITS AND SYMBOLS**

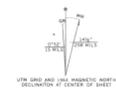
**MAP UNITS**

- Qs YOUNGER ALLUVIUM (Quaternary)
- Qso MID-LEVEL ALLUVIUM (Quaternary)
- QTs OLDER ALLUVIUM (Quaternary and Tertiary)
- Tt FANGLOMERATE (Tertiary)
- Th MEGABRECCIA AND SEDIMENTARY BRECCIA (Tertiary)
- Tut UPPER TUFFS (Tertiary)
- Tub UPPER BASALTS (Tertiary)
- Tdf DEBRIS FLOWS AND AVALANCHE DEPOSITS (Tertiary)
- Tif FELSIC DIKES AND PLUGS (Tertiary)
- Tin INTERMEDIATE DIKES AND PLUGS (Tertiary)
- Tim MAFIC DIKES AND PLUGS (Tertiary)
- Tb HELLS GATE VOLCANICS (Tertiary)
- Thu UPPER HELLS GATE DACITE AND RHYODACITE FLOWS (Tertiary)
- Tml LOWER HELLS GATE FLOWS (Tertiary)
- Ths HELLS GATE TUFFS (Tertiary)
- Tsd SAN DOMINGO VOLCANICS (Tertiary)
- Taj APHYRIC RHYOLITE FLOWS (Tertiary)
- Tjg PHENOCRYST-POOR RHYOLITE FLOWS (Tertiary)
- Tqf QUARTZ-BEARING RHYOLITE FLOWS (Tertiary)
- Tst LITHIC TUFFS AND RELATED SEDIMENTARY ROCKS (Tertiary)
- Tlb LOWER BASALT, BASALTIC ANDESITE, AND ANDESITE FLOWS (Tertiary)
- Ta ANDESITE FLOW (Tertiary)
- Tc CLASTIC SEDIMENTARY ROCKS (Tertiary)
- Tpe INTENSELY SILICIFIED ROCKS (Tertiary)
- Kp PEGMATITE (Cretaceous)
- Ka APLITE (Cretaceous)
- Kgd GRANODIORITE (Cretaceous)
- Kg GRANITE (Cretaceous)
- Xp PEGMATITE (Precambrian X)
- Xg GRANITIC ROCKS (Precambrian X)
- Xal LEUCOGRANITE, PEGMATITE, AND INTERLAYERED SCHIST AND AMPHIBOLITE (Precambrian X)
- Xm METAMORPHIC ROCKS (Precambrian X)
- Xs SCHISTOSE METAMORPHIC ROCKS (Precambrian X)
- Xam METAVOLCANIC ROCKS (Precambrian X)
- Xmch METACHERTS (Precambrian X)
- Xmc METACARBONATE (Precambrian X)
- Xms METASEDIMENTARY ROCKS (Precambrian X)
- Xps PSAMMITIC SCHIST (Precambrian X)

**MAP SYMBOLS**

- GEOLOGIC CONTACT—dashed where inferred; dotted where buried.
- HIGH-TO-MODERATE-ANGLE FAULT, WITH ARROW SHOWING DIRECTION AND AMOUNT OF DIP—dashed where inferred; dotted where buried. Bar and ball on downthrown block.
- LOW-ANGLE FAULT, WITH ARROW SHOWING DIRECTION OF DIP—dashed where inferred; dotted where buried. Hashures on upper plate.
- STRIKE AND DIP OF BEDDING
  - ⊖ Horizontal
  - ∕ Inclined
  - ⊥ Vertical
- STRIKE AND DIP OF FOLIATION, AND LINEATION
  - + Horizontal
  - ∕ Inclined
  - ⊥ Vertical
- LINEATION
- STRIKE AND DIP OF CLEAVAGE
  - ∕ Vertical
  - ∕ Inclined
- LINE OF CROSS SECTION

547754  
5544291  
Mapped, edited, and published by the Geological Survey  
Control by USGS and USCSGS  
Topography by photogrammetric methods from aerial photographs taken 1962. Field checked 1964.  
Polyconic projection. 1927 North American datum.  
1:24,000 grid based on North American datum, central zone.  
1000-meter Universal Transverse Mercator grid ticks, zone 12, meters to blue.  
To place on the projected North American Datum 1983, move the projection lines 1 meter south and 67 meters east, as shown by dashed corner ticks.



SCALE 1:24,000  
CONTOUR INTERVAL: 40 FEET  
DOTTED LINES REPRESENT 20-FOOT CONTOURS  
NATIONAL GEODESIC VERTICAL DATUM OF 1929  
ROAD CLASSIFICATION  
Light duty Unimproved dirt



RED PICACHO, ARIZ.  
1:24,000 - 7-1  
Map photoreproduced 1978  
No major culture or drainage changes observed  
1964  
PHOTODUPLICATED 1978  
DMA 8401.1-RE-SERIES 1988

# GEOLOGIC MAP OF THE WICKENBURG, SOUTHERN BUCKHORN, AND NORTHWESTERN HIEROGLYPHIC MOUNTAINS, CENTRAL ARIZONA

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ARIZONA BUREAU OF GEOLOGY AND MINERAL TECHNOLOGY  
OPEN-FILE REPORT 87-  
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