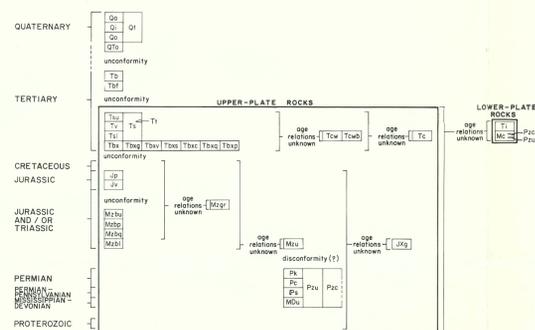


CORRELATION OF MAP UNITS



MAP UNITS

POSTDETACHMENT UNITS

- Qa YOUNG ALLUVIAL DEPOSITS
- Qi INTERMEDIATE-AGE ALLUVIAL DEPOSITS
- Qt TALLS DEPOSITS
- Qo OLD ALLUVIAL DEPOSITS
- Qlo VERY OLD ALLUVIAL DEPOSITS (QUATERNARY OR UPPER TERTIARY)
- Tb MESA-FORMING BASALT (UPPER MIOCENE)
- Tdf BASIN-FILL CONGLOMERATE AND SANDSTONE (MIDDLE TO UPPER MIOCENE)

UPPER-PLATE UNITS

- Tc REPLACEMENT CARBONATE
- Tcw CONGLOMERATE OF CAVE WASH
- Tcw0 BASALT OR BASALTIC ANDESITE OF CAVE WASH
- Ts SEDIMENTARY ROCKS, UNDIVIDED
- Tsu SEDIMENTARY ROCKS, UPPER UNIT
- Tv INTERMEDIATE VOLCANIC ROCKS
- Tsl SEDIMENTARY ROCKS, LOWER UNIT
- Tl AIR-FALL TUFF
- Tbx SEDIMENTARY BRECCIA, UNDIVIDED
- Tbxg SEDIMENTARY BRECCIA, GRANITIC PROTOLITH
- Tbxv SEDIMENTARY BRECCIA, MESOZOIC VOLCANIC PROTOLITH
- Tbxs SEDIMENTARY BRECCIA, MESOZOIC SEDIMENTARY PROTOLITH
- Tbxq SEDIMENTARY BRECCIA, QUARTZITE PROTOLITH
- Tbxc SEDIMENTARY BRECCIA, PALEOZOIC CARBONATE PROTOLITH
- Tbxp SEDIMENTARY BRECCIA, UNDIVIDED PALEOZOIC PROTOLITH
- Jp PLANET VOLCANICS (JURASSIC)
- Jv VAMPIRE FORMATION (JURASSIC?)
- Mbu BUCKSKIN FORMATION, UPPER MEMBER
- Mbp BUCKSKIN FORMATION, PHYLLITE MEMBER
- Mbs BUCKSKIN FORMATION, QUARTZITE MEMBER
- Mbl BUCKSKIN FORMATION, LOWER MEMBER
- Mzu METAVOLCANIC AND METASEDIMENTARY ROCKS OF THE SQUAW PEAK KLIPPE (MESOZOIC)
- Mzg GRANITIC ROCKS (MESOZOIC?)
- Pk KAIBAB FORMATION
- Pc COCONINO SANDSTONE
- PPS SUPAI GROUP (PENNSYLVANIAN AND PERMIAN)
- Mdu MARTIN AND REDWALL FORMATIONS (DEVONIAN AND MISSISSIPPIAN)
- Pzc CALCAREOUS SEDIMENTARY ROCKS, UNDIVIDED (PALEOZOIC)
- Pzu SEDIMENTARY ROCKS, UNDIVIDED (PALEOZOIC)
- JXg GRANITIC ROCKS (PROTEROZOIC OR JURASSIC)

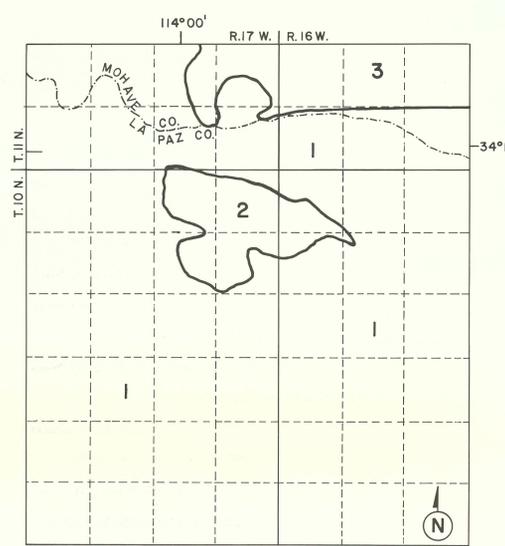
LOWER-PLATE UNITS

- Ti INTERMEDIATE TO MAFIC INTRUSIVE ROCKS (UPPER OLIGOCENE? TO MIDDLE MIOCENE?)
- mc MYLONITIC CRYSTALLINE ROCKS (PROTEROZOIC TO CENOZOIC)

MAP SYMBOLS

- CONTACT: Depositional or intrusive; dashed where approximately located.
- BUCKSKIN-RAWHIDE DETACHMENT FAULT, SHOWING DIP: Dashed where inferred, dotted where concealed. Double hatchures on upper plate.
- LOW-ANGLE (LESS THAN 35°) NORMAL FAULT, SHOWING DIP: Dashed where inferred, dotted where concealed. Single hatchures on upper plate.
- LOW-ANGLE (LESS THAN 35°) FAULT: Dashed where inferred, dotted where concealed. Teeth on hanging-wall block.
- REVERSE FAULT, SHOWING DIP: Dashed where inferred, dotted where concealed. Teeth on hanging-wall block.
- HIGH-ANGLE (GREATER THAN 35°) NORMAL FAULT, SHOWING DIP: Dashed where inferred, dotted where concealed. Bar and ball on hanging-wall block.
- HIGH-ANGLE (GREATER THAN 35°) FAULT, SHOWING DIP: Dashed where inferred, dotted where concealed.
- STRIKE AND DIP OF BEDDING
- APPROXIMATE STRIKE AND DIP OF DEFORMED BEDDING
- STRIKE OF VERTICAL BEDDING
- STRIKE AND DIP OF OVERTURNED BEDDING
- HORIZONTAL BEDDING
- STRIKE AND DIP OF UPRIGHT BEDDING; TOP DIRECTION KNOWN
- STRIKE AND DIP OF METAMORPHIC FOLIATION: Locally includes mylonitic foliation and cleavage.
- STRIKE OF VERTICAL METAMORPHIC FOLIATION: Locally includes mylonitic foliation and cleavage.
- STRIKE AND DIP OF CLEAVAGE
- STRIKE OF VERTICAL CLEAVAGE
- STRIKE AND DIP OF MULTIPLE, PARALLEL, PLANAR COMPOSITIONAL, AND/OR FABRIC ELEMENTS: Shown, for example, metamorphic foliation and cleavage, bedding and cleavage, bedding and metamorphic foliation.
- STRIKE AND DIP OF MYLONITIC FOLIATION AND TREND OF LINEATION WITHIN PLANE OF FOLIATION.
- ANTICLINE: Direction of plunge indicated; dotted where trace of axis is concealed.
- SYNCLINE: Direction of plunge indicated; dotted where trace of axis is concealed.
- TREND OF SMALL-SCALE FOLDS: Direction of plunge indicated.
- CRUSHED ROCK IN SHEAR ZONES
- MARKER BED OR INTRAIT CONTACT
- LEADER CONNECTING AREAS OF SAME ROCK UNIT
- SAMPLE LOCATION

SOURCES OF DATA



- 1 — J.E. Spencer and S.J. Reynolds—this report.
- 2 — N.E. Lehman—unpublished geologic map for AMAX, Inc. (scale 1:6,000).
- 3 — Ivo Lucchitta and Neil Suneson—Geologic map of the Planet 2 SW, Arizona, Quadrangle (SW 1/4 of Castaneda Hills 15' Quadrangle), unpublished (scale 1:24,000). Also, reconnaissance by J.E. Spencer and S.J. Reynolds and aerial photography interpretation.

GEOLOGIC MAP OF THE PLANET-MINERAL HILL AREA, NORTHWESTERN BUCKSKIN MOUNTAINS, WEST-CENTRAL ARIZONA

by  
Jon E. Spencer, Stephen J. Reynolds, and Norman E. Lehman  
1989



In Spencer, J.E., and Reynolds, S.J., eds., 1989, Geology and mineral resources of the Buckskin and Rawhide Mountains, west-central Arizona: Arizona Geological Survey Bulletin 198, scale 1:24,000.