ARIZONA GEOLOGICAL SURVEY
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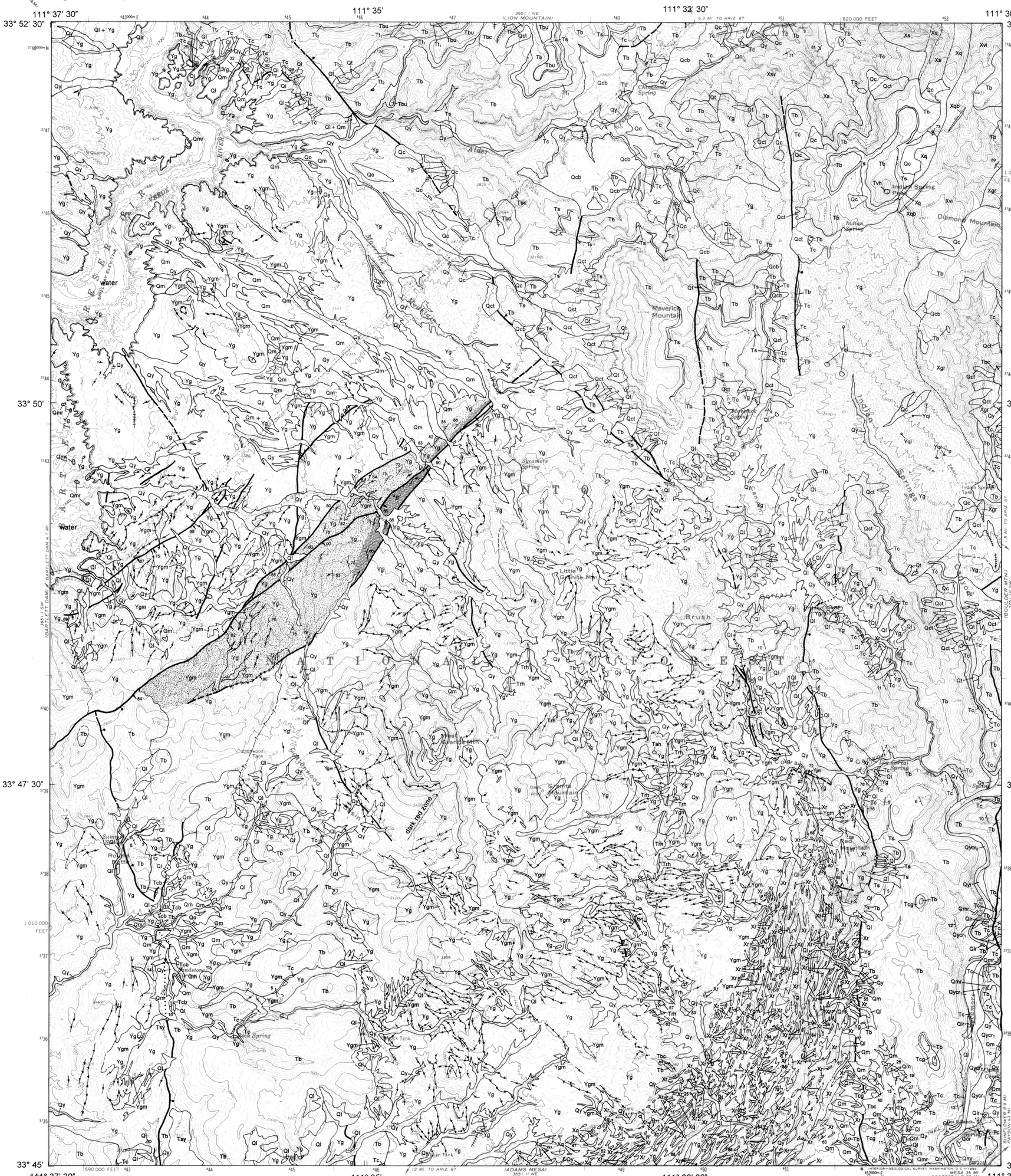


Geologic Map of the Maverick Mountain Quadrangle, Maricopa County, Arizona

by
Steven J. Skotnicki and Robert S. Leighty

August, 1998

UNIT DESCRIPTIONS

Quaternary Deposits

Piedmont Deposits

- Qt — Talus
- Qc — Colluvium
- Qtb — Talus containing dominantly basalt clasts
- Qct — Colluvium and talus, undivided
- Qy — Holocene alluvium (<10 ka)
- Ql — Late Pleistocene alluvium (10 to 250 ka)
- Qm — Middle Pleistocene alluvium (250 to 750 ka)

Major Stream Deposits

- $Qycr_2$ — Active channel deposits
- $Qycr_1$ — Modern flood plain deposits (0 to 100 yrs)
- Qyr — Holocene stream terrace deposits (0 to 10 ka)--Lehi terrace
- Qlr — Late Pleistocene stream terrace deposits (10 to 250 ka)--Blue Point terrace
- Qmr — Middle Pleistocene stream terrace deposits (~400 to 750 ka)--Mesa terrace
- Qor — Early Pleistocene stream terrace deposits (750 ka to 2 Ma)--Sawik terrace

Tertiary Deposits

- Tsy — Younger sedimentary deposits
- Tcg — Granite-clast conglomerate
- Tcb — Basalt-clast conglomerate
- Tbu — Upper basalt
- Tt — Felsic tuff
- Tt_2 — Upper member of felsic tuff
- Tt_1 — Lower member of felsic tuff
- Tvh — Plagioclase porphyry
- Tah — Hypabyssal andesite
- Ts — Sandstone and conglomerate
- Tbc — Basaltic cinder, scoria, and agglomerate
- Tb — Basalt
- Tc — Conglomerate
- Trh — Hypabyssal rhyolite

Proterozoic Intrusive Rocks

- Yqi — Quartz intrusions
- Ygm — Medium- to fine-grained granite
- Yg — Coarse-grained granite
- Xgr — Granite

Proterozoic Metamorphic Rocks

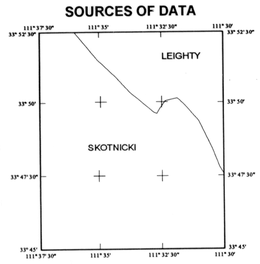
Exposures in the south

- Xq — Quartzite
- Xr — Metarhyolite

Exposures in the north

- Xqb — Massive quartzose bed
- Xvi — Intermediate-composition metavolcanic rocks
- Xq — Quartzite
- Xs — Pelitic and Psammitic metasedimentary rocks
- Xsv — Metasedimentary and metavolcanic rocks

SOURCES OF DATA



Map Symbols

- zone of mylonitic deformation
- zone of extensive hematite staining
- bedding
- overturned bedding
- primary metamorphic foliation in plutonic rocks, with lineation defined by mineral alignment and/or elongation
- flow-foliation in hypabyssal rhyolite
- contact, dashed where approximately located
- fault, with attitude and lineation, dashed where uncertain, dotted where concealed
- medium-grained granite dike (map unit Ygm)
- mafic dike
- contact between basalt flows, and boundaries of shear zones in plutonic rocks

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SCALE 1:24,000

1 .5 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

TOPOGRAPHIC CONTOUR INTERVAL 40 FEET

N MN 12.5°

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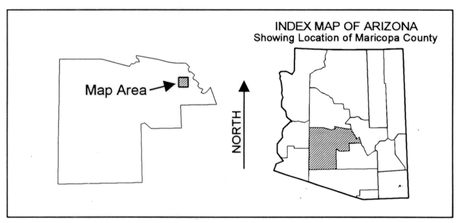
INDEX MAP OF ARIZONA
Showing Location of Maricopa County