ARIZONA GEOLOGICAL SURVEY
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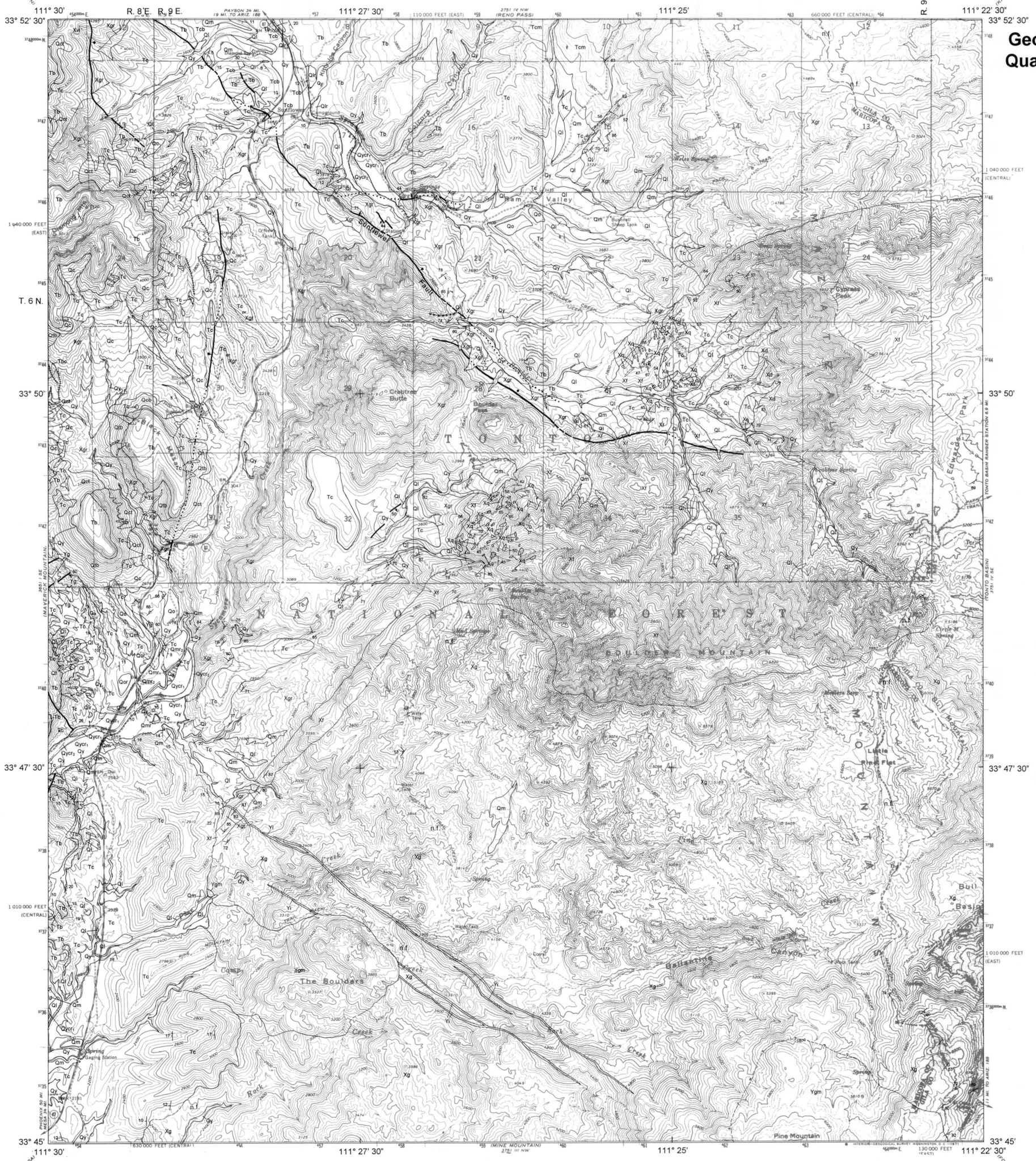


Geologic Map of the Boulder Mountain Quadrangle, Maricopa and Gila Counties, Arizona

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)
- Qo Early Pleistocene alluvium (750 ka to 1.6 Ma)

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
- Qmr_2 Younger member of the Mesa terrace
- Qmr_1 Older member of the Mesa terrace
- Qor Early Pleistocene stream terrace deposits (750 ka to 2 Ma)--Sawik terrace

Tertiary Deposits

- Tcr Conglomerate near Edwards Park
- Tcb Basalt-clast conglomerate
- Ts Sandstone and conglomerate
- Tbc Basaltic cinder, scoria, and agglomerate
- Tb Basalt
- Tc Conglomerate

Proterozoic Intrusive Rocks

- Ygm Medium- to fine-grained granite
- Yi Quartz-feldspar porphyry dikes
- Yg Coarse-grained granite
- Xgr Granite
- Xg Quartz monzonite
- Xf Intrusive rhyolite/granophyre
- Xd Diorite

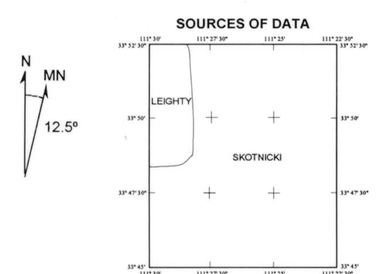
Proterozoic Metamorphic Rocks

- Xvi Intermediate metavolcanic rocks
- Xq Quartzite
- Xr Metarhyolite

Map Symbols

- n.f. not foliated
- bedding
- overturned bedding
- primary metamorphic foliation in plutonic rocks, with lineation defined by mineral alignment and/or elongation
- contact, dashed where approximately located
- fault, with attitude and lineation, dashed where uncertain, dotted where concealed
- mafic dike
- contact between basalt flows, and boundaries of shear zones in plutonic rocks

SOURCES OF DATA



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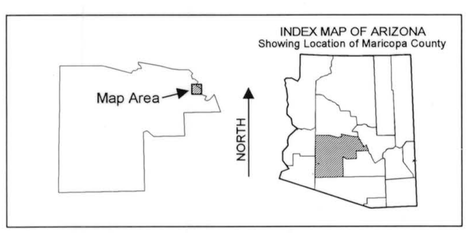
SCALE 1:24,000

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

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