ARIZONA GEOLOGICAL SURVEY
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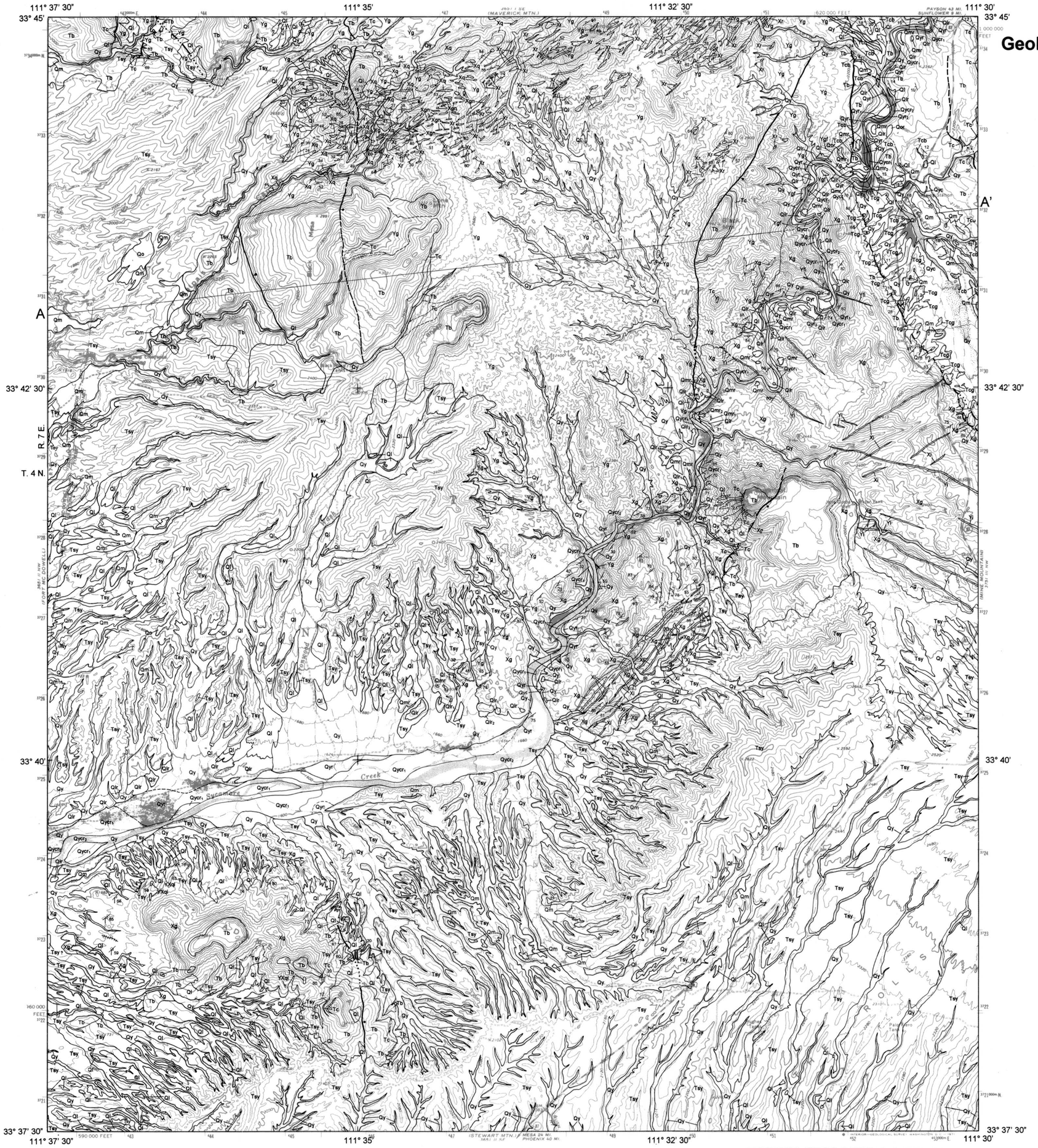


Geologic Map of the Adams Mesa Quadrangle, Maricopa County, Arizona

by
Steven J. Skotnicki and Robert S. Leighty

July, 1997

UNIT DESCRIPTIONS

Quaternary Deposits

Piedmont Deposits

- Qyc — Modern alluvium (<100 yr)
- 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 River Deposits

- $Qycr_2$ — Active channel deposits
- $Qycr_1$ — Modern flood plain deposits (0 to 100 yrs)
- Qyr — Holocene river terrace deposits (0 to 10 ka)--Lehi terrace
- Qyr_2 — Younger member of the Lehi terrace
- Qyr_1 — Older member of the Lehi terrace
- Qlr — Late Pleistocene river terrace deposits (10 to 250 ka)--Blue Point terrace
- Qlr_2 — Younger member of the Blue Point terrace
- Qlr_1 — Older member of the Blue Point terrace
- Qmr — Middle Pleistocene river 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 river terrace deposits (750 ka to 2 Ma)--Sawik terrace

Tertiary Deposits

- Tsy — Younger sedimentary basin-fill deposits
- Tsb — Monolithic breccia
- Tcg — Granite-rich conglomerate
- Tcb — Basalt-rich conglomerate
- Tb — Basalt
- Tc — Conglomerate

Proterozoic Intrusive Rocks

- Yi — Quartz-feldspar porphyry dikes
- Yg — Granite
- Ygf — Fine- to medium-grained granite
- Xi — Granitic dikes
- Xg — Quartz monzonite

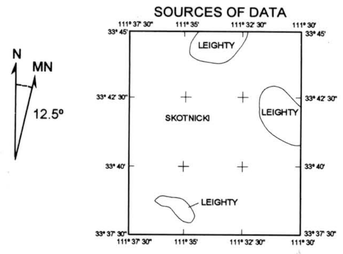
Proterozoic Metamorphic Rocks

- Xq — Quartzite
- Xr — Metarhyolite

Map Symbols

- bedding
- overturned bedding
- horizontal bedding
- ripple marks with current direction
- primary metamorphic foliation in plutonic rocks, with lineation
- vertical foliation
- secondary metamorphic foliation
- contact, dashed where approximately located
- fault, with attitude and lineation, dashed where uncertain, dotted where concealed
- mafic dike
- shear zone
- marker horizon

SOURCES OF DATA



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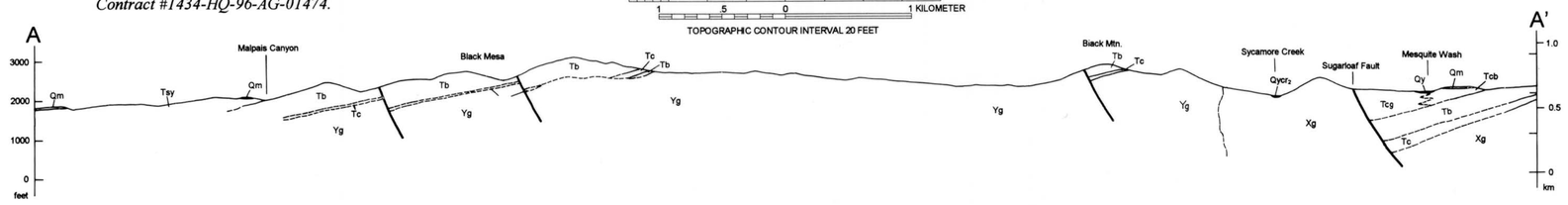
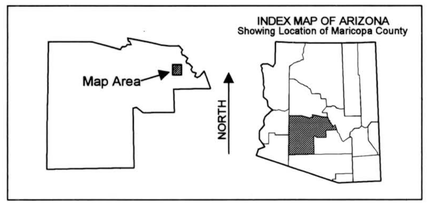
SCALE 1:24,000

1 .5 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

TOPOGRAPHIC CONTOUR INTERVAL 20 FEET

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