Geologic Map of the Hedgpeth Hills 7.5' Quadrangle, Maricopa County, Arizona

ARIZONA GEOLOGICAL SURVEY
Open-File Report 98-18, sheet 1 of 1, with text

by
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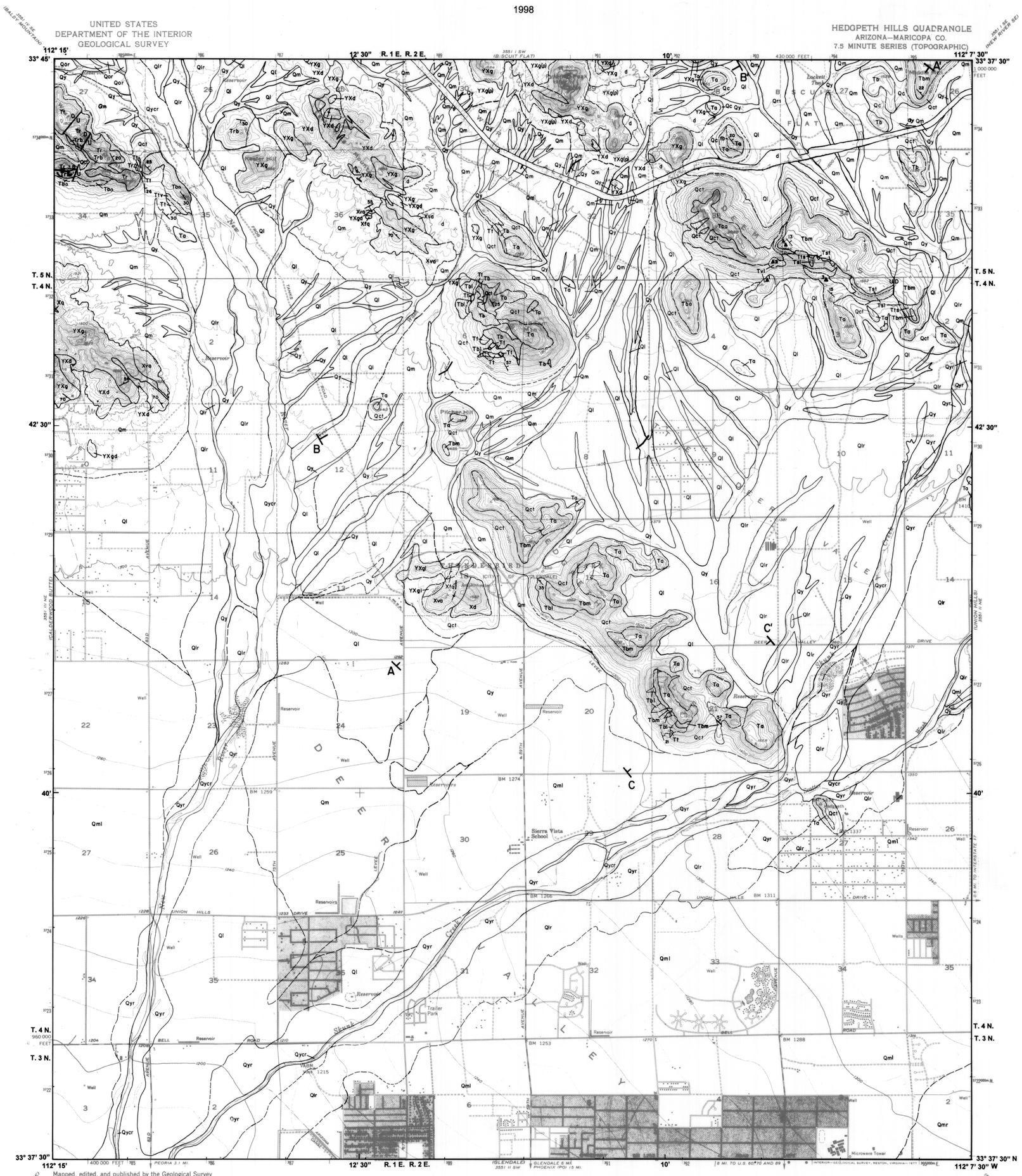
1998



UNIT DESCRIPTIONS

Quaternary piedmont deposits

- **Qc** Colluvium (<750 Ka)
- **Qct** Colluvium and talus, undivided (<750 Ka)
- **Qy** Holocene alluvium (<10 Ka)
- **Ql** Late Pleistocene alluvium (10 to 250 Ka)
- **Qml** Middle to Late Pleistocene alluvium (10 to 750 Ka)
- **Qm** Middle Pleistocene granitic alluvium (250 to 750 Ka)
- **Qo** Early Pleistocene alluvial fan deposits (750 Ka to 1.6 Ma)

Quaternary River Deposits

- **Qyc** Active channel deposits
- **Qyr** Holocene river terrace deposits (<10 Ka)
- **Qlr** Late Pleistocene river terrace deposits (10 to 250 Ka)
- **Qmr** Middle Pleistocene river terrace deposits (400 to 750 Ka)
- **Qor** Early Pleistocene river terrace deposits (750 ka to 1.6 Ma)

Tertiary volcanic and sedimentary rocks

- **Tbm** Basalt (Middle Miocene)
- **Tr** Rhyolite (Early to Middle Miocene)
- **Trb** Rhyolite breccia/tuff (Early to Middle Miocene)
- **Ta** Andesite (Early to Middle Miocene)
- **Tts** Interbedded tuff and sedimentary rocks (Early to Middle Miocene)
- **Tsl** Conglomeratic sandstone (Early to Middle Miocene)
- **Ttv** Vitrophyric tuff (Early to Middle Miocene)
- **Tt** Tuff (Early to Middle Miocene)
- **Tb** Basaltic rocks, undivided (Early to Middle Miocene)
- **Tbl** Basalt (Latest Oligocene to Early Miocene)
- **Tvl** Trachyte (Late Oligocene to Early Miocene)

Early to Middle Proterozoic plutonic rocks

- **YXg** Granite (Early to Middle Proterozoic)
- **YXgl** Leucocratic granite (Early to Middle Proterozoic)
- **YXgd** Granodiorite, diorite, and tonalite (Early to Middle Proterozoic)
- **YXd** Diorite (Early to Middle Proterozoic)

Early Proterozoic rocks

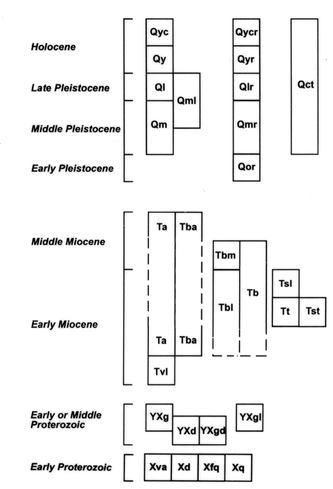
- **Xva** Andesitic metavolcanic rocks (Early Proterozoic)
- **Xd** Diorite (Early Proterozoic)
- **Xfq** Ferruginous quartzite (Early Proterozoic)
- **Xq** Quartzite (Early Proterozoic)

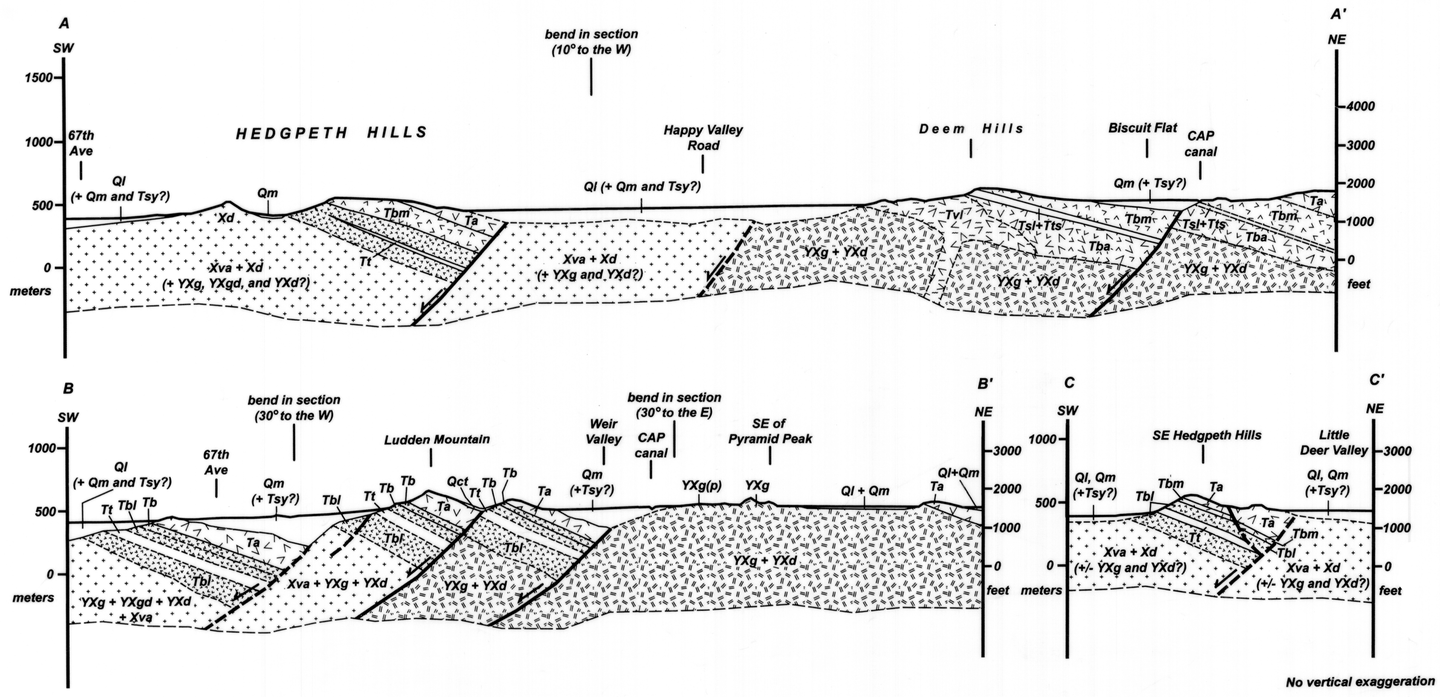
- **d** Disturbed area

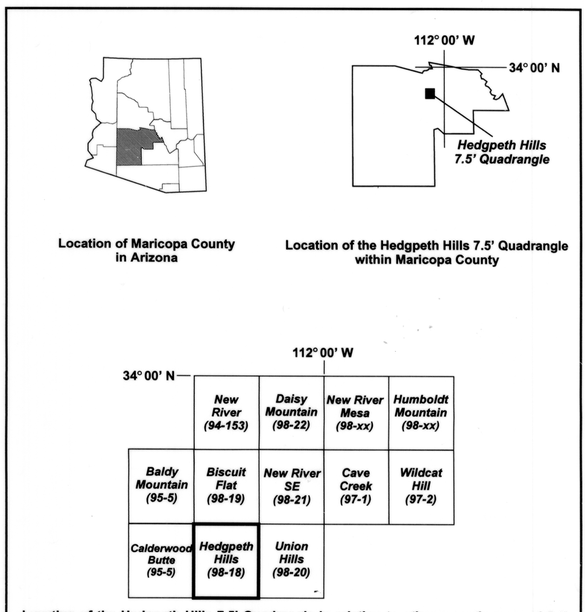
MAP SYMBOLS

- bedding
- vertical bedding
- primary foliation in volcanic rocks
- joint
- cleavage
- vertical cleavage
- unit contact; dashed where inferred; dotted where concealed
- intra-unit contact
- fault; dashed where approximately located; dotted where concealed; attitude and movement sense displayed if known
- oxide facies iron formation / ferruginous chert bed; attitude displayed if known
- geochemical sample locality, with sample number (see text for reference)

CORRELATION OF MAP UNITS







Location of the Hedgpeth Hills 7.5' Quadrangle in relation to other recently mapped 7.5' quadrangles in the northern Phoenix area. Numbers in parentheses refer to AZGS Open-File Reports, except for New River, which is a USGS Open-File Report.

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