ARIZONA GEOLOGICAL SURVEY
Open-File Report 98-20, sheet 1 of 1, with text

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

by
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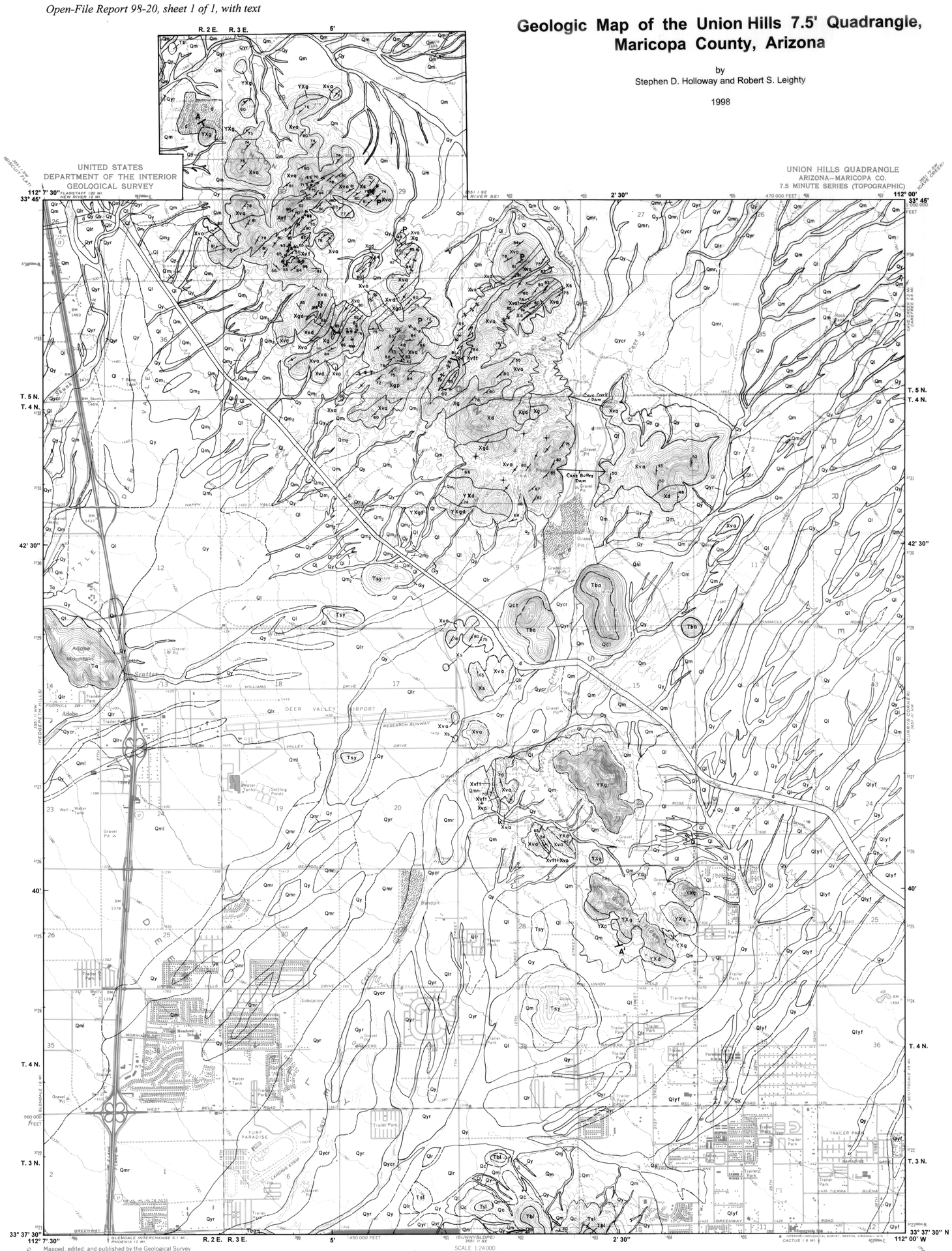
1998



UNIT DESCRIPTIONS

Quaternary piedmont deposits

- **Qct** Colluvium and talus, undivided (<750 Ka)
- **Qc** Colluvium (<750 Ka)
- **Qy** Holocene alluvium (<10 Ka)
- **Qlyf** Holocene to Late Pleistocene fine-grained alluvium (<100 Ka)
- **Ql** Late Pleistocene alluvium (10 to 250 Ka)
- **Qml** Middle to Late Pleistocene alluvium (10 to 750 Ka)
- **Qm** Middle Pleistocene alluvium (250 to 750 Ka)

Quaternary river deposits

- **Qycr** Active channel deposits (<1 Ka)
- **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)

Middle to Late Tertiary volcanic and sedimentary rocks

- **Tsy** "Basin-fill" conglomerate and sandstone (Late Miocene to Pliocene)
- **Tba** Basalt to basaltic andesite (Early to Middle Miocene)
- **Ta** Andesite (Early to Middle Miocene)
- **Tbl** Basaltic rocks (Early Miocene)
- **Tsl** Conglomerate and sandstone (Late Oligocene to Early Miocene)

Early to Middle Proterozoic plutonic rocks

- **YXg** Granite
- **YXd** Diorite
- **YXgd** Granodiorite to diorite

Early Proterozoic plutonic rocks

- **Xgp** Granite porphyry
- **Xg** Granite
- **Xgd** Granodiorite

Early Proterozoic metamorphic rocks

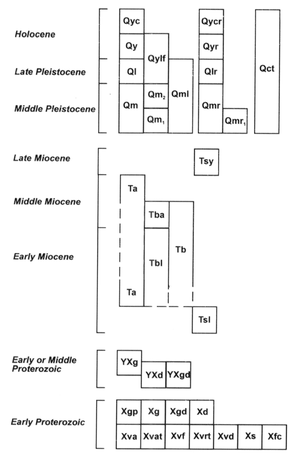
- **Xva** Mafic to intermediate metavolcanic rocks
- **Xvf** Felsic metavolcanic rocks
- **Xvd** Dacitic metavolcanic rocks
- **Xvrt** Metarhyolite tuff
- **Xvat** Meta-andesite tuff
- **Xs** Metasedimentary rocks
- **Xfc** Ferruginous chert/Iron formation

d Disturbed area

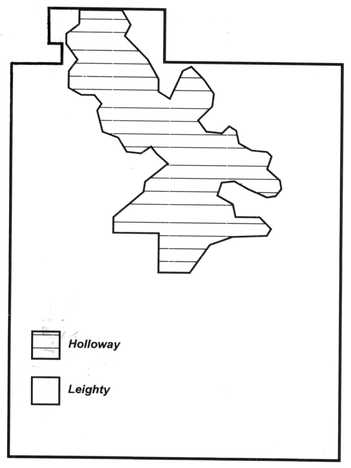
MAP SYMBOLS

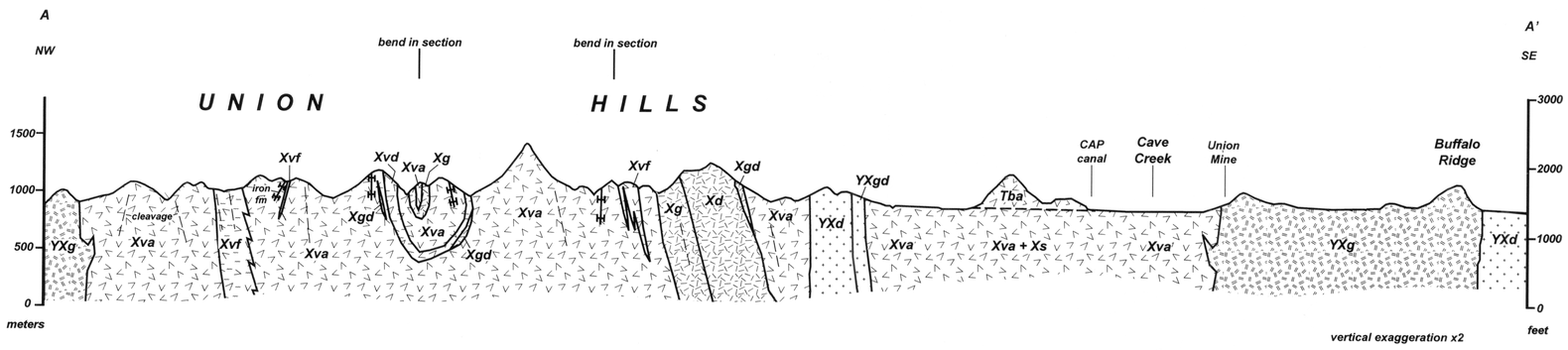
- **bedding**
- **vertical bedding**
- **cleavage**
- **horizontal cleavage**
- **vertical cleavage**
- **unit contact; dashed where inferred; dotted where concealed**
- **fault; dashed where approximately located; dotted where concealed; attitude and movement sense displayed if known**
- **oxide facies iron formation / ferruginous chert bed; attitude displayed if known**
- **quartz vein**
- **P pillow basalt location**

CORRELATION OF MAP UNITS

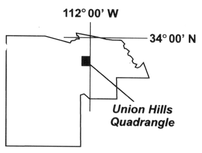


MAPPING COVERAGE

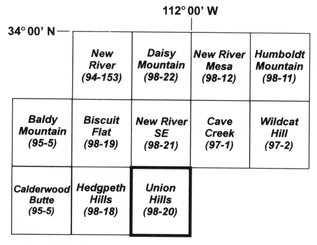




Location of Maricopa County in Arizona



Location of the Union Hills 7.5' Quadrangle within Maricopa County



Location of the Union 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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