GEOLOGIC MAP OF THE BUCKEYE 7.5' QUADRANGLE, MARICOPA COUNTY, ARIZONA

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August, 2002

Arizona Geological Survey Digital Geologic Map 15

citation for this map:
Skotnicki, S.J., 2002, Geologic map of the Buckeye 7.5' Quadrangle, Maricopa County, Arizona: Arizona Geological Survey Digital Geologic Map 15 (DGM-15), 1 CD-ROM with 2 Adobe PDF files (15 pages text, 1 plate, layout scale 1:24,000)

Research supported by the Arizona Geological Survey and the U.S. Geological Survey, National Cooperative Geologic Mapping Program, under USGS award #01HQAG0098. The view and conclusions contained in this document are those of the author and should not be interpreted as necessarily representing the official policies, either expressed or implied, of the U.S. Government.

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MAP EXPLANATION

GEOLOGIC MAP UNITS

Anthropogenic units

- a — Agriculture

Quaternary Sedimentary Deposits

Axial River Deposits

- Qyrc — Active river channel deposits (since the major flood of 1993)
- Qyr_2 — Holocene river deposits, younger member (< 10 ka)
- Qyr_1 — Holocene river deposits, older member (<10 ka)

Piedmont Deposits

- Qyc — Active channel deposits (<100 yrs)
- Qy_2 — Holocene alluvium, younger member (<10 ka)
- Qy_1 — Holocene alluvium, older member (<10 ka)
- Qye — Holocene eolian deposits (<10 ka)
- Ql — Late Pleistocene alluvial deposits (10 ka to 250 ka)
- Qm — Middle Pleistocene alluvial deposits (250 ka to 750 ka)
- Qo — Early Pleistocene alluvial deposits (750 ka to 1.2 Ma)

Tertiary Deposits

- Tsy — Younger Tertiary sedimentary deposits
- Tc — Conglomerate
- Txg — Sedimentary breccia and conglomerate
- Tcg — Granitic sandstone beneath breccia

Early to Middle Proterozoic Intrusive Rocks

- YXd — Diorite

Early Proterozoic Intrusive Rocks

- Xh — Hematite alteration zones
- Xgp — Medium-grained pegmatite dike
- Xgl — Leucocratic granite (Cotton Center Granite)
- Xglb — Biotite-rich phase (?) of the leucocratic granite
- Xgw — White, leucocratic phase of the medium- to coarse-grained granite
- Xg — Medium- to coarse-grained granite (Corgett Wash Granite)
- Xgc_2 — Medium- to coarse-grained granite in the western part of the map area
- Xgm — Mafic granitoid
- Xgc — Coarse-grained granite (Maricopa Granite)
- Xgb — Biotite granite (possibly also the Maricopa Granite)

Early Proterozoic Metamorphic Rocks

- Xr — Metarhyolite
- Xrs — Slaty metarhyolite

GEOLOGIC MAP SYMBOLS

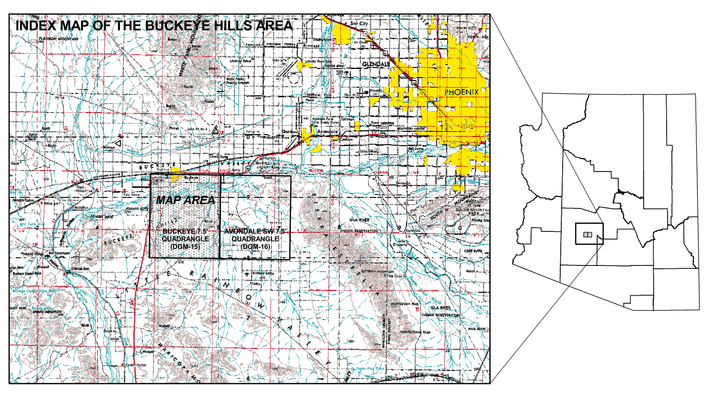
Line Symbols

- Contact (dashed where approximately located, queried where location guessed, dotted where concealed)
- Normal fault, showing attitude of fault surface (dashed where approximately located, queried where location guessed, dotted where concealed)
- Felsic dike
- Mafic dike
- Shear zone
- Diabase dikes

Attitude Symbols

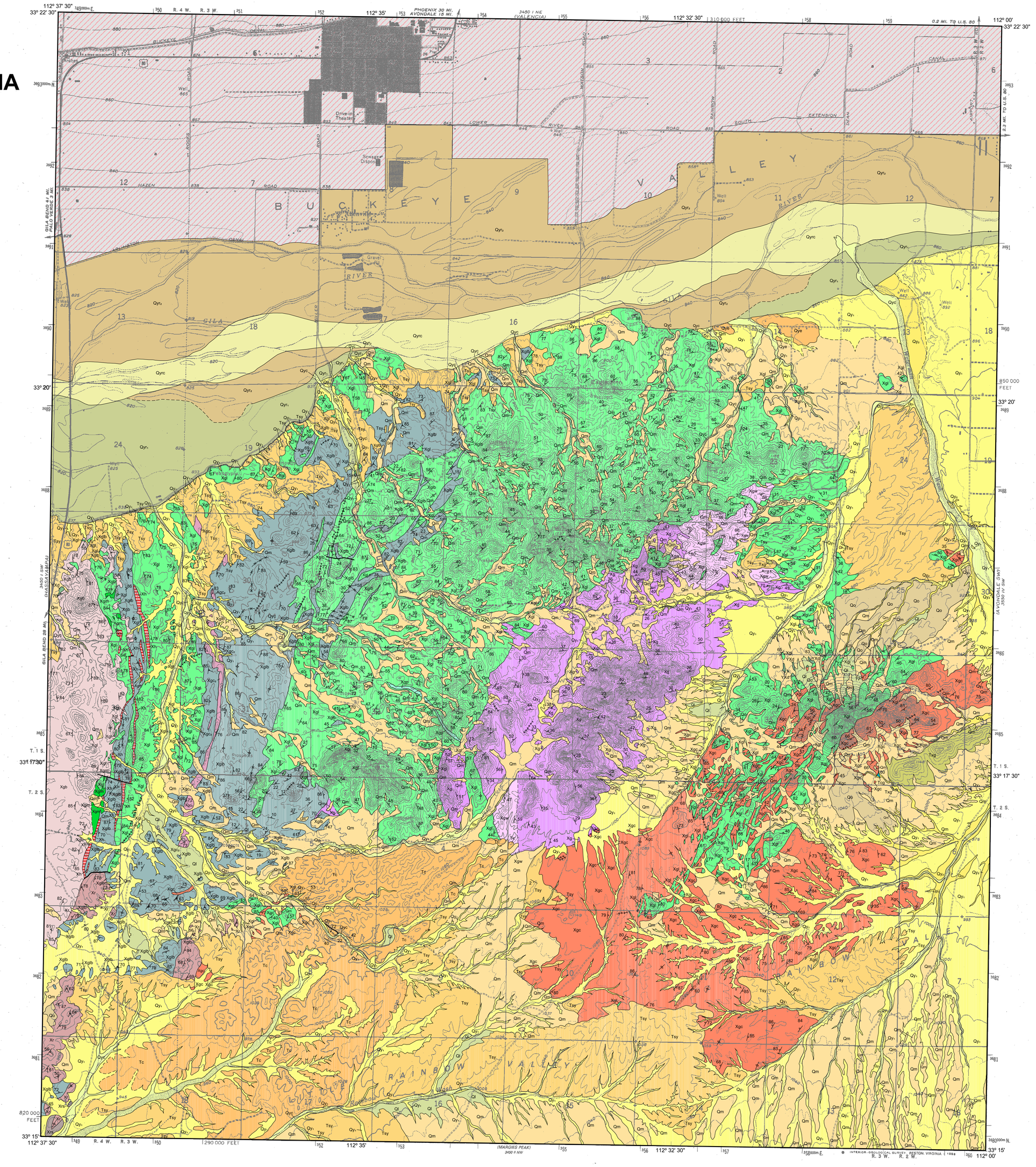
- Inclined bedding
- Inclined tectonic foliation, with stretching lineation
- Vertical tectonic foliation
- Igneous flow foliation
- Inclined gneissic foliation
- Vertical gneissic foliation
- Secondary foliation defined by kink bands
- Mylonitic foliation, with stretching lineation

N



LAYOUT SCALE 1:24,000

1 — 0 — 1 Miles

1000 — 0 — 1000 — 2000 — 3000 — 4000 — 5000 — 6000 — 7000 Feet

1 — 0 — 1 Kilometers