Geologic Map of the New River SE 7.5' Quadrangle, Maricopa County, Arizona

by
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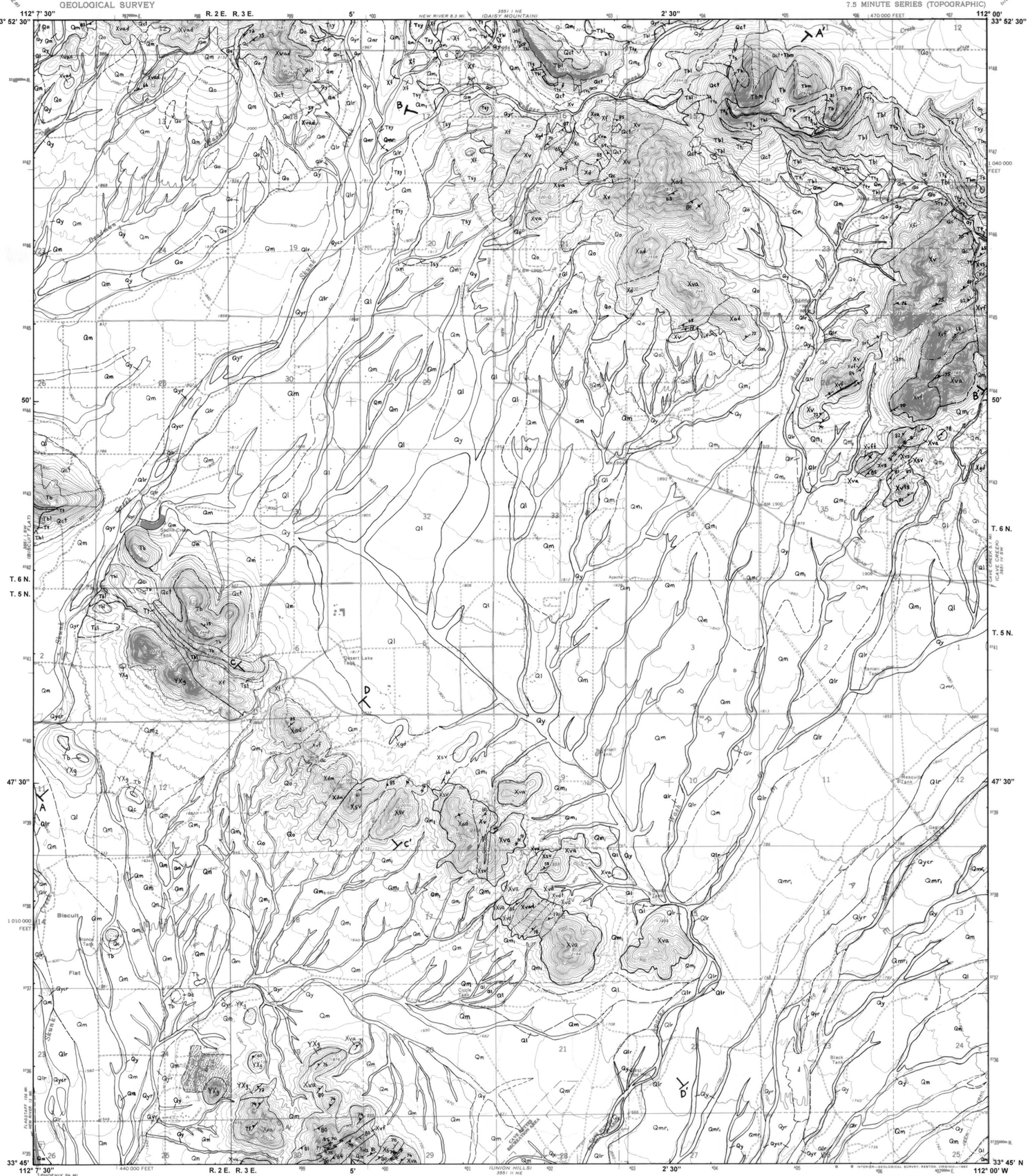
1998

ARIZONA GEOLOGICAL SURVEY
Open-File Report 98-21, sheet 1 of 1, with text



Mapped, edited, and published by the Geological Survey

Control by USGS and NOS/NOAA

Topography by photogrammetric methods from aerial photographs taken 1962. Field checked 1964

Polyconic projection. 10,000-foot grid ticks based on Arizona coordinate system, central zone
1000-meter Universal Transverse Mercator grid ticks, zone 12, shown in blue. 1927 North American Datum
To place on the predicted North American Datum 1983 move the projection lines 1 meter south and 65 meters east as shown by dashed corner ticks

Fine red dashed lines indicate selected fence lines

There may be private inholdings within the boundaries of the National or State reservations shown on this map

UTM GRID AND 1981 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

CONTOUR INTERVAL 20 FEET
DOTTED LINES REPRESENT 10-FOOT CONTOURS
NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

QUADRANGLE LOCATION

Revisions shown in purple and woodland compiled from aerial photographs taken 1978 and other sources. This information not field checked. Map edited 1981

ROAD CLASSIFICATION
Primary highway, all weather, hard surface — Light-duty road, all weather, improved surface
Secondary highway, all weather, hard surface — Unimproved road, fair or dry weather
Interstate Route — U. S. Route — State Route

NEW RIVER SE, ARIZ.
N3345—W11200/7.5
1964
PHOTOREVISED 1981
DMA 3551 I SE-SERIES V898

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)
- **Qm** Middle Pleistocene alluvium (250 to 750 Ka)
- **Qm_2** Younger member of the Middle Pleistocene alluvium
- **Qm_1** Older member of the Middle Pleistocene alluvium
- **Qo** Early Pleistocene alluvial fan deposits (750 Ka to 1.6 Ma)
- **TQo** Pliocene to Early Pleistocene alluvial fan deposits (1 to 3 Ma)

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)
- **Qmr_1** Older member of the Middle Pleistocene river terrace deposits

Middle to Late Tertiary volcanic and sedimentary rocks

- **Tsy** "Basin-fill" conglomerate and sandstone (Late Miocene)
- **Tbm** Hickey Formation basaltic rocks (Middle Miocene)
- **Tb** Basaltic rocks, undivided (Early to Middle Miocene)
- **Ts** Conglomerate and sandstone (Late Early Miocene to Middle Miocene)
- **Tbl** Chalk Canyon formation basaltic rocks (Early Miocene)
- **Tt** Tuff (Early Miocene)
- **Tt_3** Upper member of the Early Miocene tuff
- **Tt_2** Middle member of the Early Miocene tuff
- **Tt_1** Lower member of the Early Miocene tuff
- **Ttv** Vitrophyric tuff (Early Miocene)
- **Tst** Tuffaceous sandstone and conglomerate (Early Miocene)
- **Tsl** Conglomerate and sandstone (Late Oligocene to Early Miocene)

Early to Middle Proterozoic plutonic rocks

- **YXg** Granite

Early Proterozoic plutonic and metamorphic rocks

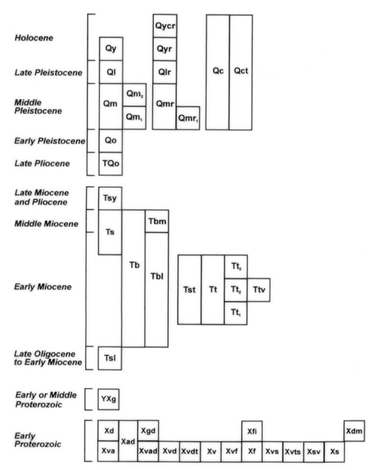
- **Xd** Diorite
- **Xgd** Granodiorite
- **Xdm** Quartz monzodiorite
- **Xfi** Hypabyssal felsic rocks
- **Xva** Andesitic to basaltic andesitic metavolcanic rocks
- **Xad** Andesite-diorite complex
- **Xvad** Andesitic to dacitic metavolcanic rocks
- **Xvd** Dacitic metavolcanic rocks
- **Xvdt** Dacitic meta-tuff
- **Xv** Intermediate to felsic metavolcanic rocks
- **Xvf** Felsic metavolcanic rocks
- **Xf** Felsic metavolcanic and hypabyssal rocks, undivided
- **Xvs** Metavolcanic and metasedimentary rocks
- **Xvts** Tuffaceous metavolcanic and metasedimentary rocks
- **Xsv** Metasedimentary and metavolcanic rocks
- **Xs** Pelitic to psammitic metasedimentary rocks

- **d** Disturbed area

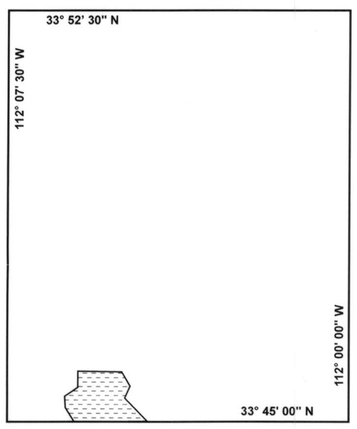
MAP SYMBOLS

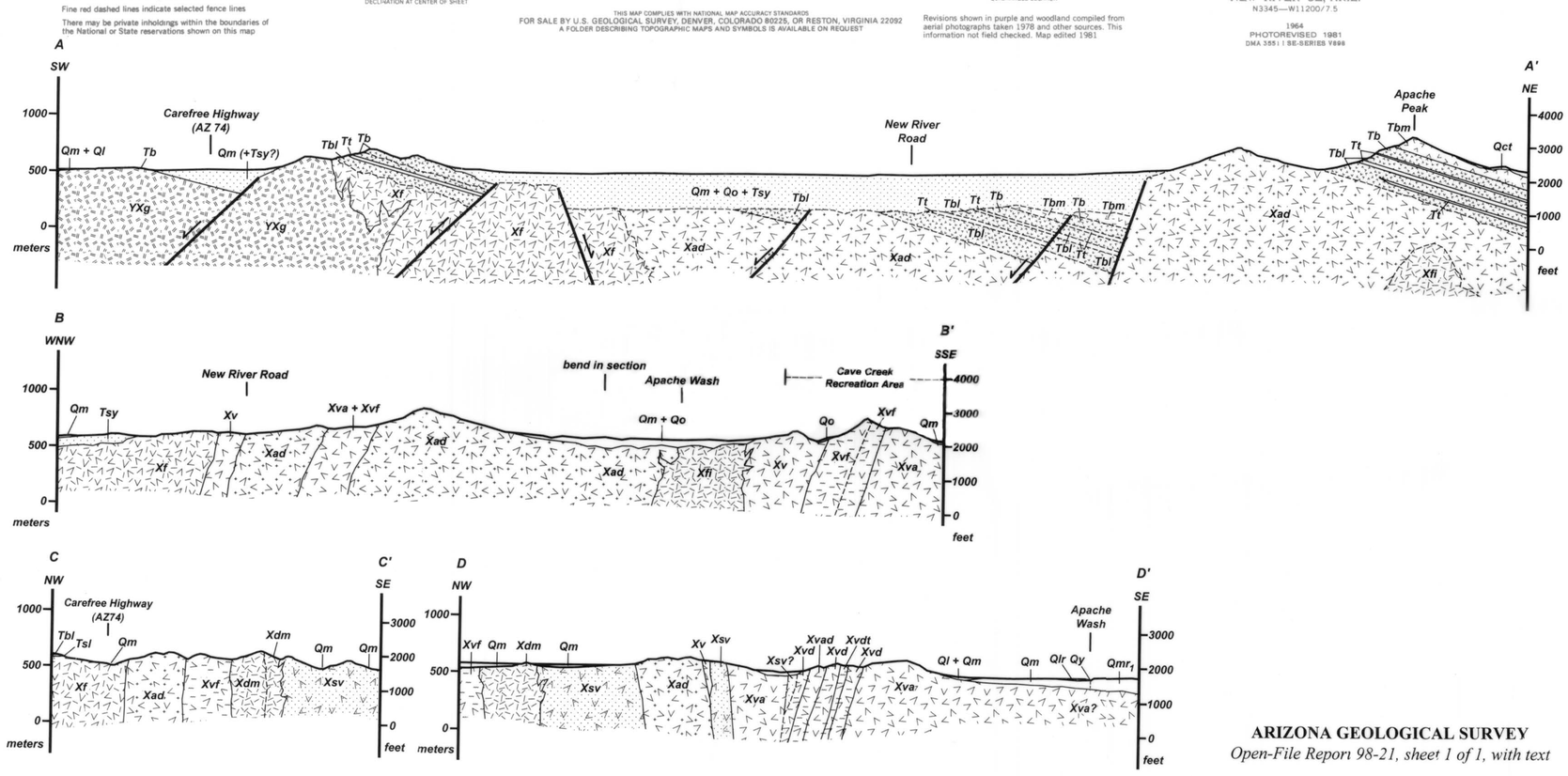
- bedding
- vertical bedding
- cleavage
- cleavage, with bearing and plunge of lineation
- vertical cleavage
- unit contact; dashed where inferred; dotted where concealed
- intra-unit contact
- fault; dashed where approximately located; dotted where concealed; attitude and movement sense displayed if known
- oxide facies iron formation / ferruginous chert bed; attitude displayed if known

CORRELATION OF MAP UNITS

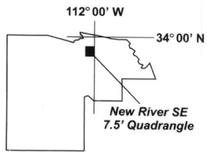


MAPPING COVERAGE

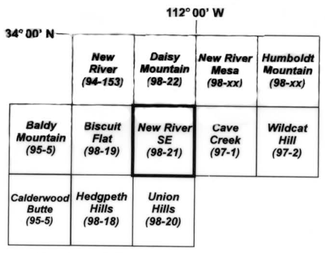




Location of Maricopa County in Arizona



Location of the New River SE 7.5' Quadrangle within Maricopa County



Location of the New River SE 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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