Geologic Map of the Biscuit Flat 7.5' Quadrangle, Maricopa County, Arizona

by
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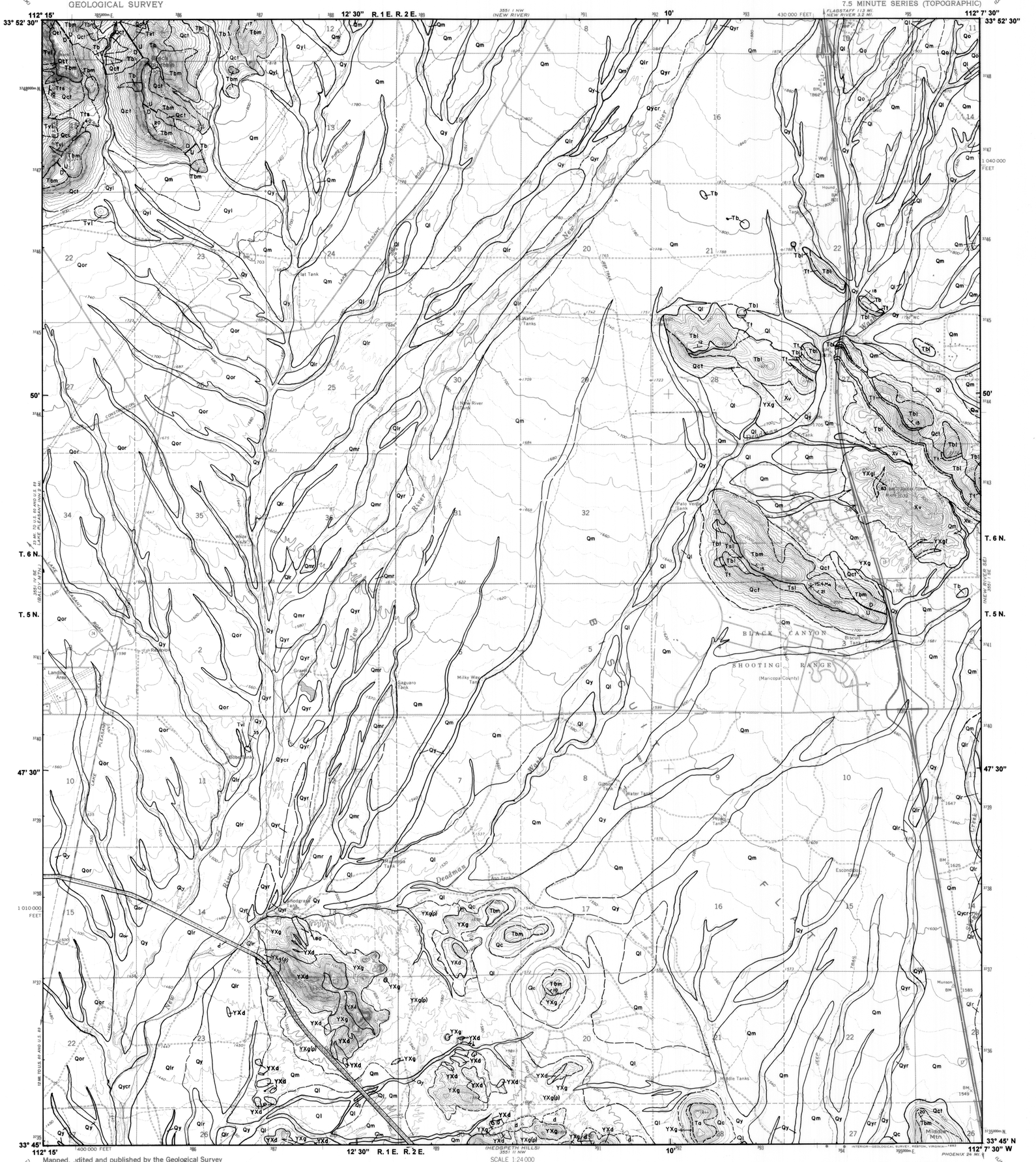
1998

ARIZONA GEOLOGICAL SURVEY
Open-File Report 98-19, sheet 1 of 1, with text

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

BISCUIT FLAT QUADRANGLE
ARIZONA–MARICOPA CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)



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 1965

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 66 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 1983 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
Heavy-duty — Light-duty
Unimproved dirt
Interstate Route — State Route

BISCUIT FLAT, ARIZ.
N3345—W11207.5/7.5
1965
PHOTOREVISED 1981
DMA 3551 I SW-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)
- **Qml** Middle to Late Pleistocene alluvium (10 to 750 Ka)
- **Qm** Middle Pleistocene alluvium (250 to 750 Ka)
- **Qo** Early Pleistocene alluvium (750 Ka to 2 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/alluvial fan deposits (750 Ka to 2 Ma)

Tertiary sedimentary rocks

- **Tsl** Lacustrine deposits (Early to Middle Miocene)
- **Tst** Tuffaceous sediments (Early Miocene)

Tertiary volcanic rocks

- **Tbm** Basalt (Middle Miocene)
- **Ta** Andesite (Early to Middle Miocene)
- **Tb** Basalt, undivided (Early to Middle Miocene)
- **Tt** Tuff (Early Miocene)
- **Tbl** Lower basalt (Early Miocene)
- **Tvl** Felsic volcanic rock (Late Oligocene to Early Miocene)

Early or Middle Proterozoic plutonic rocks

- **YXg(p)** Pediment on coarse-grained granite
- **YXg** Coarse-grained granite
- **YXd** Diorite
- **YXgl** Leucocratic granite

Early Proterozoic metavolcanic and related rocks

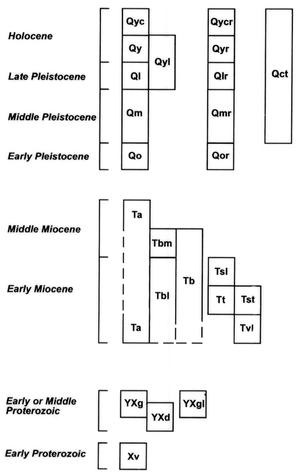
- **Xv** Andesitic metavolcanic and related rocks

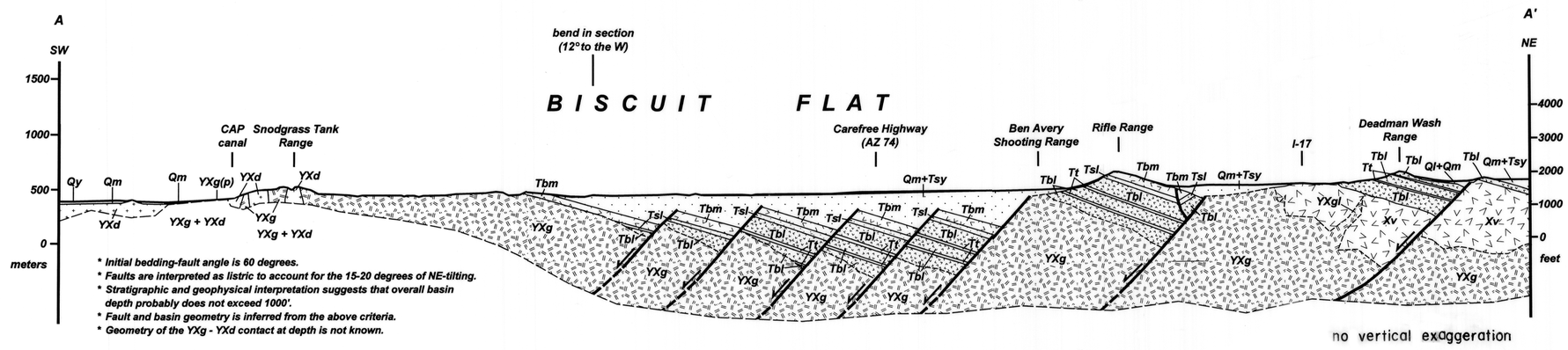
- **d** disturbed area

MAP SYMBOLS

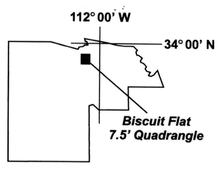
- 25 — **bedding**
- 75 — **cleavage**
- **unit contact; dashed where inferred; dotted where concealed**
- **intra-unit contact**
- D/U — **fault; dashed where approximately located; dotted where concealed; attitude and movement sense displayed if known**
- 15.4 — **K-Ar radiometric date location, with age in Ma (millions of years before present); see text for reference**

CORRELATION OF MAP UNITS

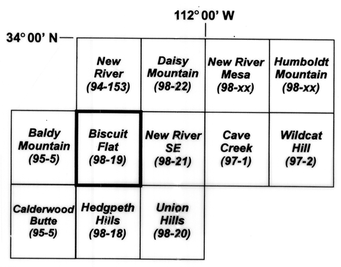




Location of Maricopa County in Arizona



Location of the Biscuit Flat 7.5' Quadrangle within Maricopa County



Location of the Biscuit Flat 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.

Funded by the Arizona Geological Survey and the Arizona Radiation Regulatory Agency, with funds provided by the U.S. Environmental Protection Agency through the State Indoor Radon Grant Program

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