GEOLOGIC MAP AND GEOLOGIC HAZARDS OF THE THREE POINTS 7.5' QUADRANGLE, PIMA COUNTY, ARIZONA

By
Philip A. Pearthree, Charles A. Ferguson, Wyatt G. Gilbert, and Steven J. Skotnicki

October, 2000

Arizona Geological Survey Digital Geologic Map 4

geology described in:
Pearthree, P.A., Ferguson, C.A., Gilbert, W.G., and Skotnicki, S.J., 2000, Geology and Geologic Hazards of the Three Points Quadrangle, Pima County, Arizona: Tucson, Arizona Geological Survey Open-File Report 00-12, (OFR 00-12), 19 p., 1 sheet, scale 1:24,000.

digital cartography by
Tim R. Orr

citation for this map:
Pearthree, P.A., Ferguson, C.A., Gilbert, W.G., and Skotnicki, S.J., 2000, Geologic map of the Three Points 7.5' quadrangle, Pima County, Arizona: Tucson, Arizona Geological Survey Digital Geologic Map 4 (DGM-04), 1 Adobe PDF file (1 plate), layout scale 1:24,000.

Research supported by the Arizona Geological Survey and U.S. Geological Survey, National Cooperative Geologic Mapping Program, under USGS award #99HQAG0171. The view and conclusions contained in this document are those of the authors and should not be interpreted as necessarily representing the official policies, either expressed or implied, of the U.S. Government.

Not to be reproduced for commercial purposes

MAP EXPLANATION

Geologic Symbols

- contact (solid where accurate; dashed where approximate)
- sample location (showing K/Ar date)

Geologic Map Units

Piedmont Alluvium

- Qyc — Modern channel deposits
- Qy2 — late Holocene alluvium (<~2 ka)
- Qy1 — Holocene alluvium (0 to ~10 ka)
- Ql — late Pleistocene alluvium (~10 to 130 ka)
- Qm — middle Pleistocene alluvium (~130 to 500 ka)
- Qmo — middle to early Pleistocene alluvium (~500 ka to 1 Ma)
- Qo — early Pleistocene alluvium (~1 to 2 Ma)
- Tc — Pliocene to late Miocene alluvial fan deposits (~2 to 10 Ma)

Axial Stream Deposits

- Qycr — modern river channel deposits (< 100 years)
- Qy2r — late Holocene proximal floodplain (<~2 ka)
- Qy1r — Holocene distal floodplain and terrace deposits (0 to ~10 ka)
- Qyre — Holocene stream terrace deposits and eolian deposits (< 10 ka)
- Qyr — Holocene stream deposits, undivided in agricultural areas (< 10 ka)
- Qmlr — middle to late Pleistocene river deposits (~10 to 500 ka)

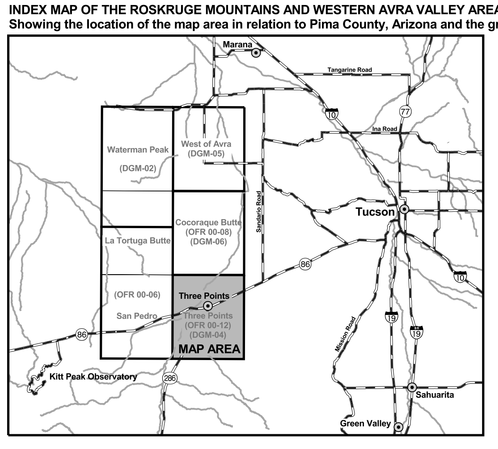
Hillslope Deposits

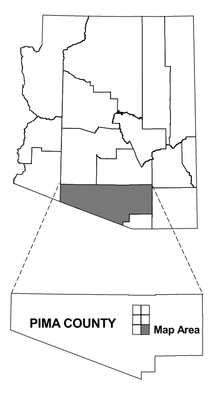
- Qc — Quaternary hillslope colluvium

Bedrock

- Tb — basalt of Brawley Wash (~10 Ma)
- Tm — trachyandesite lava (~24 Ma)

INDEX MAP OF THE ROSKRUGE MOUNTAINS AND WESTERN AVRA VALLEY AREA
Showing the location of the map area in relation to Pima County, Arizona and the greater Tucson region



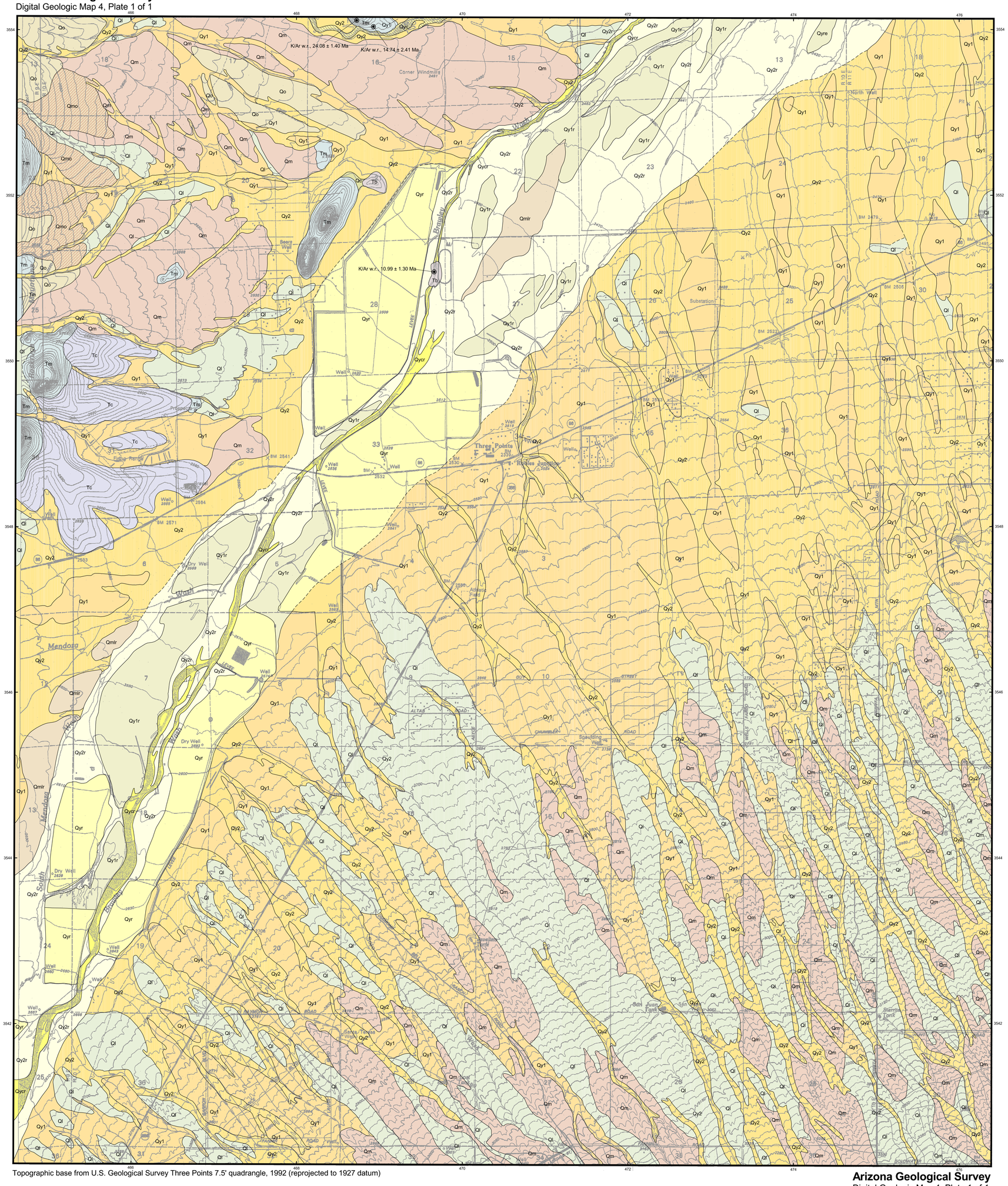


1 0 1 Miles

1000 0 1000 2000 3000 4000 5000 6000 7000 Feet

1 0 1 Kilometers

N



Topographic base from U.S. Geological Survey Three Points 7.5' quadrangle, 1992 (reprojected to 1927 datum)

Arizona Geological Survey
Digital Geologic Map 4, Plate 1 of 1