Geologic Map of the Fountain Hills--Mount McDowell Area, Maricopa County, Arizona

by
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ARIZONA GEOLOGICAL SURVEY
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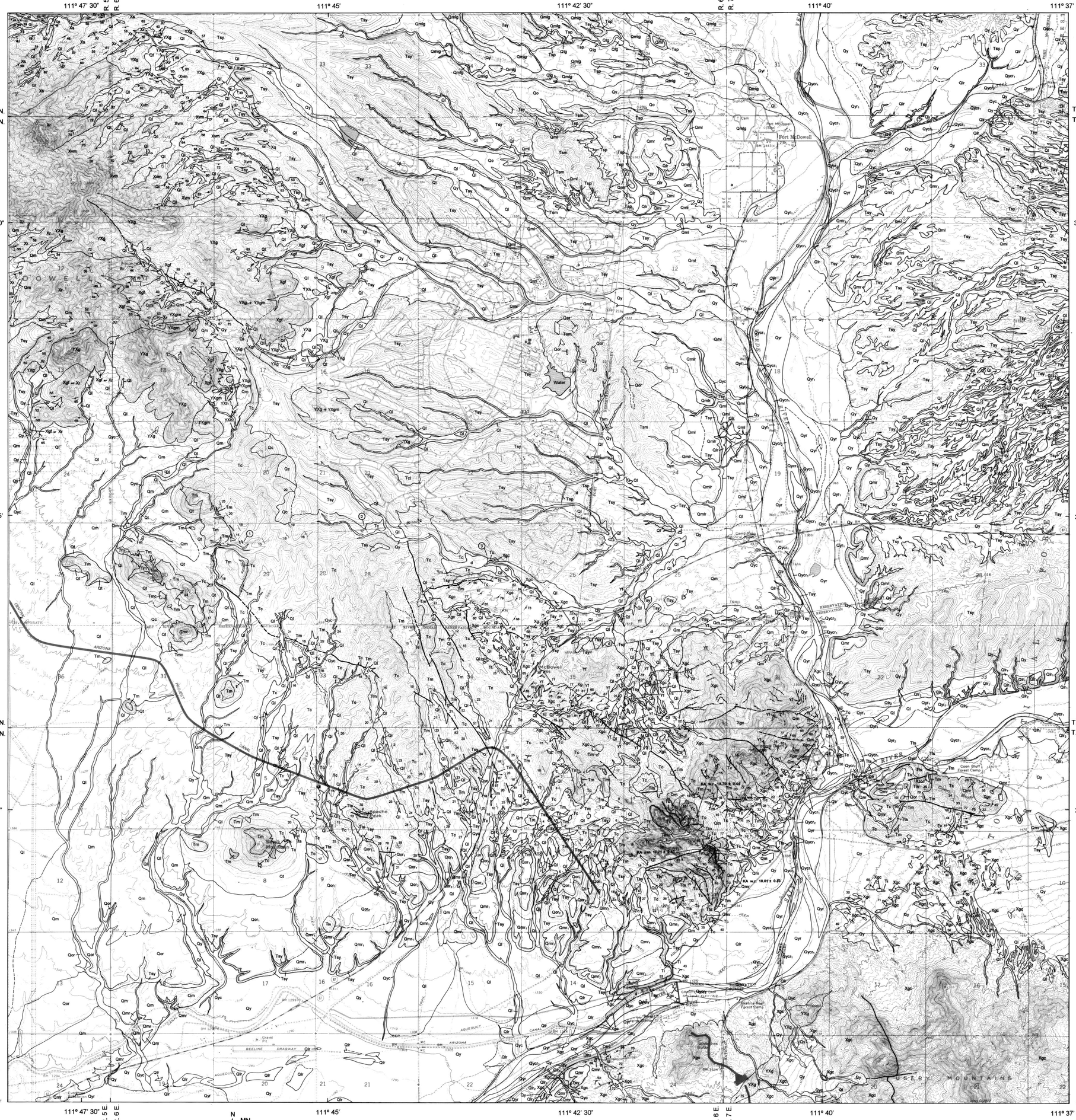


UNIT DESCRIPTIONS

Quaternary Deposits

Anthropogenic Deposits

- a — Agricultural fields
- d — Disturbed or modified by man

Hillslope Deposits

- Qt — Talus
- Qc — Colluvium

Piedmont Deposits

- Qyc — Modern alluvium (<100 yr)
- Qy — Holocene alluvium (<10 ka)
- Ql — Late Pleistocene alluvium (10 to 250 ka)
- Qlg — Late Pleistocene granititic alluvium (10 to 250 ka)
- Qml — Middle and Late Pleistocene alluvium, undivided (10 to 750 ka)
- Qmlg — Middle and Late Pleistocene granitic alluvium, undivided (10 to 750 ka)
- Qm — Middle Pleistocene alluvium (250 to 750 ka)
- Qmg — Middle Pleistocene granitic alluvium (250 to 750 ka)
- Qo — Early Pleistocene alluvium (750 ka to 2 Ma)

Major River Deposits

- $Qycr_2$ — Active channel deposits
- $Qycr_1$ — Modern flood plain deposits (0 to 100 yrs)
- Qyr — Holocene river terrace deposits (0 to 10 ka)--Lehi terrace
- Qyr_2 — Younger member of the Lehi terrace
- Qyr_1 — Older member of the Lehi terrace
- Qlr — Late Pleistocene river terrace deposits (10 to 250 ka)--Blue Point terrace
- Qlr_2 — Younger member of the Blue Point terrace
- Qlr_1 — Older member of the Blue Point terrace
- Qmlr — Middle to late Pleistocene river terrace deposits (~200 to 400 ka)
- Qmr — Middle Pleistocene river terrace deposits (~400 to 750 ka)--Mesa terrace
- Qmr_2 — Younger member of the Mesa terrace
- Qmr_1 — Older member of the Mesa terrace
- Qor — Early Pleistocene river terrace deposits (750 ka to 2 Ma)--Sawik terrace
- Qor_2 — Younger member of the Sawik terrace
- Qor_1 — Older member of the Sawik terrace

Late Tertiary Deposits

- Tsy — Younger sedimentary basin-fill deposits
- Tsm — Middle sedimentary deposits
- Tsp — Pemberton formation

Middle Tertiary Units

- Tc — Conglomerate, breccia, and sandstone
- Tcl — Landslide block
- Tts — Ash-flow tuff
- Tt — Bedded tuff
- Tm — Mafic volcanic rocks
- Tmc — Coarse-grained mafic volcanic rocks
- Ti — Felsic hypabissal intrusive rock

Proterozoic Granitic Rocks

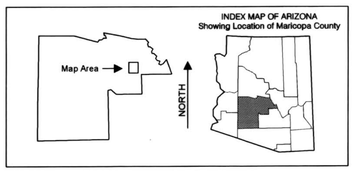
- Yf — Nonfoliated felsic granitoid
- YXh — Hornblendite
- YXgm — Mafic granitoid
- YXg — Felsic granitoid
- Xgc — Medium to coarse-grained granitoid
- Xgf — Fine-grained granite
- Xg — Foliated felsic granitoid

Proterozoic Metamorphic Rocks (Union Hills Group)

- Xvm — Mafic volcanic rocks
- Xr — Rhyolite
- Xs — Greywacke
- Xq — Quartzite

Map Symbols

- Metamorphic foliation, with lineation
- Vertical metamorphic foliation
- Bedding
- Contact, dashed where approximately located
- Fault with attitude, ball on downthrown side, dashed where uncertain, dotted where concealed
- Mafic dike
- Felsic dike
- Pegmatite/granitic dike
- Mylonite and strongly foliated zone



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