GEOLOGIC MAP OF THE MESCAL 7.5' QUADRANGLE, PIMA AND COCHISE COUNTIES, ARIZONA

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Arizona Geological Survey Digital Geologic Map 9

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MAP EXPLANATION

GEOLOGIC MAP SYMBOLS

- Horizontal bedding
- 23 Inclined bedding
- 86 Overturned bedding
- 52 Inclined tectonic foliation
- 75 Inclined eutaxitic foliation in tuffs
- Lineation defined by mineral alignment or elongation
- Stratigraphic up-direction defined by cross-bedding
- Contact; dashed where approximately located, queried where location guessed
- 56 Normal fault showing attitude of fault surface (dashed where approximate; querried where guessed; dotted where concealed; ball and bar symbol on downdropped side)
- marker bed
- quartz vein
- felsic dike
- fold hinge line

GEOLOGIC MAP UNITS

Quaternary Deposits

- Qy_2 Late Holocene alluvial deposits (< 100 yr)
- Qy_1 Middle to early Holocene alluvial deposits (< 10 ka)
- Qly Late Pleistocene and early Holocene alluvial deposits (<10 to 250 ka)
- Ql Late Pleistocene alluvial deposits (10 to 250 ka)
- Qm Middle Pleistocene alluvial deposits (250 to 750 ka)
- Qo Early Pleistocene alluvial deposits (750 ka to 1.6 Ma)

Quaternary and Tertiary Deposits

- QTs Late Tertiary and Quaternary deposits
- QTc Caliche deposit at the base of the late Tertiary and Quaternary deposits

Late Tertiary Deposits

- Tsq Late Tertiary basin-fill deposits (quartzite-clast dominated)
- Tsl Late Tertiary basin-fill deposits (limestone-clast dominated)
- Tsgq Late Tertiary basin-fill deposits (granite- and quartzite-clast dominated)
- Tsg Late Tertiary basin-fill deposits (granite-clast dominated)

Tertiary Sedimentary and Volcanic Rocks (Pantano Formation)

- Tw Conglomerate (Wakefield Canyon facies)
- Tcu Upper conglomerate
- Ts Siltstone
- Tcm Middle Conglomerate
- Tt_1 Quartz-rich tuff
- Tt_2 Sanidine-rich tuff
- Tss Siltstone and sandstone
- Ta Porphyritic andesite
- Tdcl Lower conglomerate
- Tdcc Carbonate-clast conglomerate

Tertiary or Cretaceous Sedimentary Rocks (Fort Crittenden Formation?)

- TKcr Red Conglomerate

Tertiary or Cretaceous Intrusive Rocks

- TKi Intermediate intrusive rock
- TKfi Felsic intrusive rock

Tertiary or Proterozoic Intrusive Rocks

- TYd Diorite

Mesozoic Rocks

- Kb Bisbee Group
- KJc Glance Conglomerate

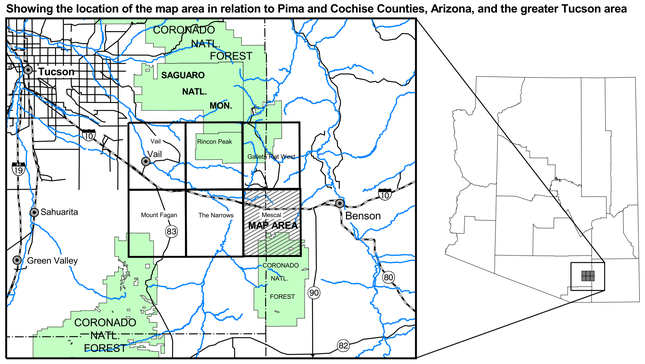
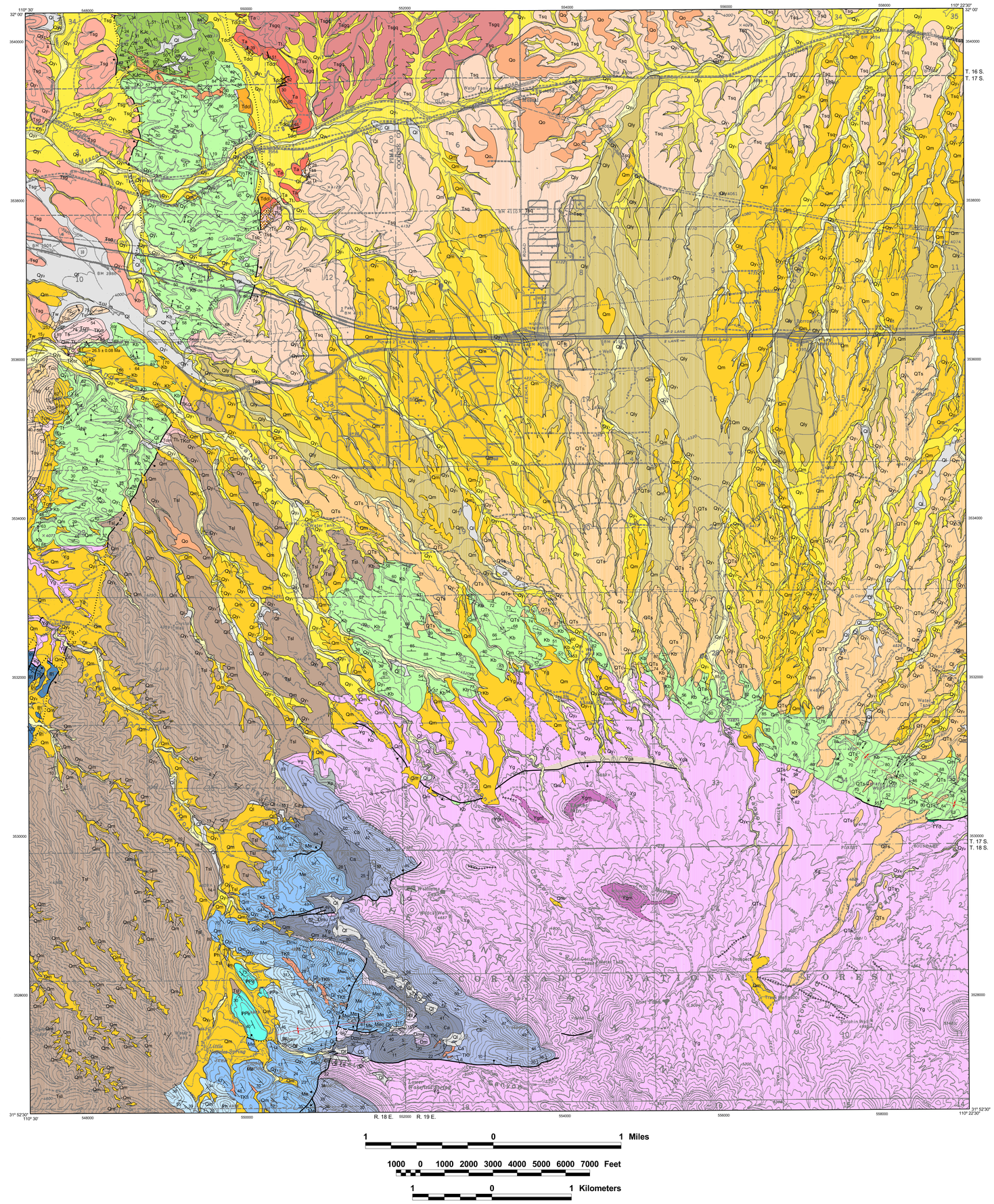
Paleozoic Rocks

- Pl Upper Paleozoic sedimentary rocks, undivided
- PPe Earp Formation
- Ph Horquilla Limestone
- Me Escabrosa Limestone
- Mec Distinctive chert layer in the Escabrosa Limestone
- Dmu Upper Martin Formation
- Dm Martin Formation
- Ca Abrigo Formation
- Cq Bolsa Quartzite

Middle Proterozoic Intrusive Rocks

- Yga Hematite-stained, red, coarse-grained granite
- Ygm Medium- to fine-grained granite
- Yg Coarse-grained granite

Early Proterozoic Metamorphic Rocks

- Xp Pinal Schist

INDEX MAP OF THE CIENEGA GAP AREA
Showing the location of the map area in relation to Pima and Cochise Counties, Arizona, and the greater Tucson area