PHOENIX NORTH, ARIZONA

Geologic Map of the Phoenix North 30' x 60' Quadrangle, Central Arizona

Compiled by

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Scale 1:100,000

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EXPLANATION

Quaternary and Late Tertiary Surficial Deposits

Q	Alluvium and talus, undifferentiated (Holocene and Pleistocene)
Qyc	Young alluvium in modern stream channels (Holocene)
Qy	Young alluvium (Holocene)
Qt	Talus (mostly Holocene)
Qm	Middle alluvium, undifferentiated (Late to Middle Pleistocene)
Qm_2	Younger middle alluvium (Late to Middle Pleistocene)
Qm_1	Older middle alluvium (Middle Pleistocene)
Qmo	Middle and older alluvium, undifferentiated (Middle to Early Pleistocene)
Qo	Older alluvium (Middle to Early Pleistocene)
QTs	Older alluvium along Hassayampa River (Quaternary or Late Tertiary)

Tertiary Volcanic and Sedimentary Rocks

Tsl	Lacustrine sedimentary rocks (Late Tertiary)
Tsy	Younger sedimentary rocks; conglomerate, sandstone, and lacustrine rocks (Late Tertiary)
Tsmy	Sedimentary rocks (Middle and Late Tertiary)
Tsm	Sedimentary rocks; conglomerate, sedimentary breccia, sandstone, and siltstone (Middle Tertiary)
Tv	Volcanic rocks, undifferentiated (Middle Tertiary)
Tsv	Sedimentary rocks related to Tertiary volcanism; locally includes breccia, tuff, and other volcanic rocks (Middle Tertiary)
Tb	Basalt, undifferentiated (mostly Middle Tertiary)
Tbu	Upper basalt (Late and Middle Tertiary)
Tbl	Lower basalt, basaltic andesite, andesite, tuff, and clastic rocks (Middle Tertiary)
Tbs	Lower basalt, basaltic andesite, and sedimentary rocks, including arkosic sandstone and conglomerate (Middle Tertiary)
Tru	Upper rhyolite (Middle Tertiary)
Tr	Rhyolite and rhyodacite flows, tuffs, and domes (Middle Tertiary)
Trt	Rhyolite and rhyodacite ash-flow tuff (Middle Tertiary)
Tt	Tuff and associated sedimentary rocks (Middle Tertiary)
Ta	Andesite to latite flows and tuffs (Middle Tertiary)

Tertiary and Cretaceous Intrusive Rocks

Ti	Intrusive and hypabyssal rocks (Middle Tertiary)
Tim	Intrusive mafic rocks (Middle Tertiary)
Tg	Granite in Belmont Mountains (Middle Tertiary)
TKg	Granite and granodiorite (Middle Tertiary or Late Cretaceous)
TKgm	Leucocratic granite (Early Tertiary - Late Cretaceous?)
TKp	Porphyry intrusion (Early Tertiary - Late Cretaceous?)
Kg	Granite (Late Cretaceous)
Kgd	Granodiorite (Late Cretaceous)
Kd	Diorite (Late Cretaceous)

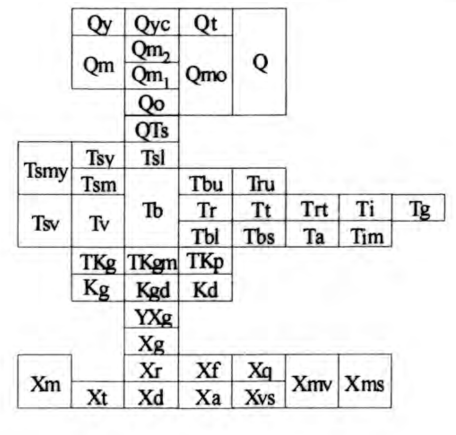
Proterozoic Rocks

YXg	Granite (Middle or Early Proterozoic)
Xg	Granitoid rocks; commonly foliated (Early Proterozoic)
Xt	Tonalite, diorite, granodiorite, and their metamorphosed equivalents (Early Proterozoic)
Xd	Diorite (Early Proterozoic)
Xm	Metamorphic rocks, undifferentiated (Early Proterozoic)
Xms	Metasedimentary rocks, including schist, phyllite, quartzite, and rare thin marble (Early Proterozoic)
Xmv	Metavolcanic rocks, undifferentiated; metamorphosed mafic to felsic flows, tuff, and sedimentary rock (Early Proterozoic)
Xf	Felsic hypabyssal(?) rocks (Early Proterozoic)
Xr	Metarhyolite, rhyodacite, and dacite (Early Proterozoic)
Xq	Quartzite (Early Proterozoic)
Xvs	Volcaniclastic and volcanic rocks (Early Proterozoic)
Xa	Meta-andesitic flows, tuffs, associated clastic rocks, and ferruginous quartzite (Early Proterozoic)

Symbols

- Contact; dashed where approximately located
- Fault; bar and ball on downthrown side; dashed where approximately located; dotted where covered
- Low-angle normal fault; ticks on upper plate
- Detachment fault; ticks on upper plate
- Felsic dike
- Intermediate dike
- Mafic dike
- Ferruginous quartzite marker bed
- Bedding
- Horizontal bedding
- Overturned bedding
- Foliation, with lineation
- Vertical foliation

Correlation of Map Units



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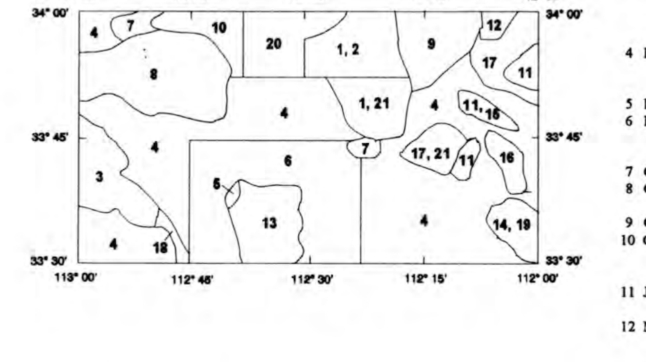

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