ARIZONA GEOLOGICAL SURVEY
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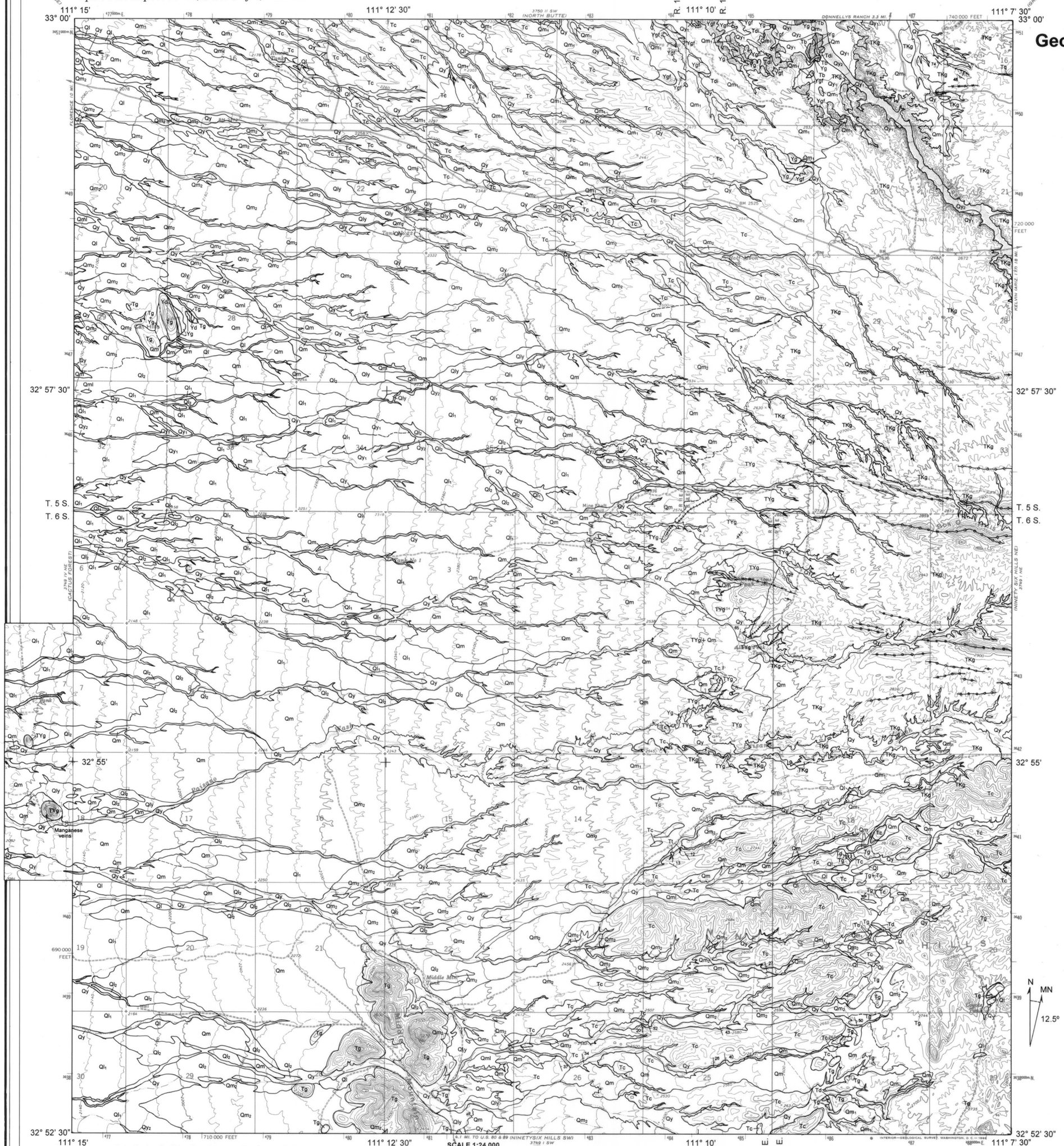


Geologic Map of the Ninetysix Hills, Pinal County, Arizona NW

by
Steven J. Skotnicki

September, 1999

UNIT DESCRIPTIONS

Quaternary Deposits

Qy	Holocene alluvium (<10 ka)
Qy_2	Late Holocene alluvium
Qy_1	Middle to early Holocene alluvium
Qly	Late Pleistocene to early Holocene alluvium
Ql	Late Pleistocene alluvium (10 to 250 ka)
Ql_2	Late Pleistocene alluvium, younger member
Ql_1	Late Pleistocene alluvium, older member
Qml	Middle to late Pleistocene alluvium
Qm	Middle Pleistocene alluvium (250 to 750 ka)
Qm_2	Middle Pleistocene alluvium, younger member
Qm_1	Middle Pleistocene alluvium, older member
Qo	Early Pleistocene alluvium (750 ka to 1.6 Ma)
Qo_2	Early Pleistocene alluvium, younger member
Qo_1	Early Pleistocene alluvium, older member

Middle(?) Tertiary Rocks

Tt	Lithic tuff
Tc	Conglomerate
Tb	Basalt
Th	Hypabyssal dacite
Tdi	Dacite dikes
Tq	Quartz vein
Td	Fine-grained diorite

Proterozoic to Tertiary Intrusive Rocks

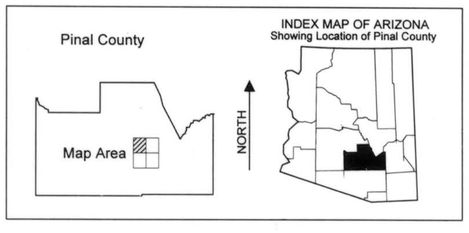
Tg	Granite
TKg	Teacup granodiorite
TYq	Vein quartz
TYg	Granite/granodiorite
TXg	Granite
Yd	Diabase
Ygf	Fine-grained granite
Ygm	Medium- to fine-grained granite
Yg	Coarse-grained granite

Proterozoic Metamorphic Rocks

Xp	Pinal Schist

Map Symbols

- horizontal bedding
- inclined bedding
- prominent joints
- contact, dashed where approximately located
- fault, with attitude and lineation, dashed where uncertain, dotted where concealed
- zone of intense mylonitic foliation seperating zone of spaced foliation (west) from zone of pervasive foliation (east)
- shear zone
- primary metamorphic foliation in plutonic rocks, with lineation defined by mineral alignment and/or elongation
- primary metamorphic foliation in plutonic rocks, with lineation defined by crenulations or kink bands
- S-plane of S-C foliation
- C-plane of S-C foliation
- secondary metamorphic foliation
- allignment of K-feldspar phenocrysts
- allignment of inclusions in plutonic rocks
- zone of extensive hematite staining
- dacite dike
- medium-grained granite dike (map unit Ygm)
- mafic dike
- quartz-feldsapr-biotite dike } very similar
- quartz porphyry and aplite dike } very similar
- pegmatite dike



Jointly funded by the Arizona Geological Survey and the U.S. Geological Survey STATEMAP Program Contract #98-HQ-AG2064.

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