Geologic Map of the Cave Creek Quadrangle, Maricopa County, Arizona

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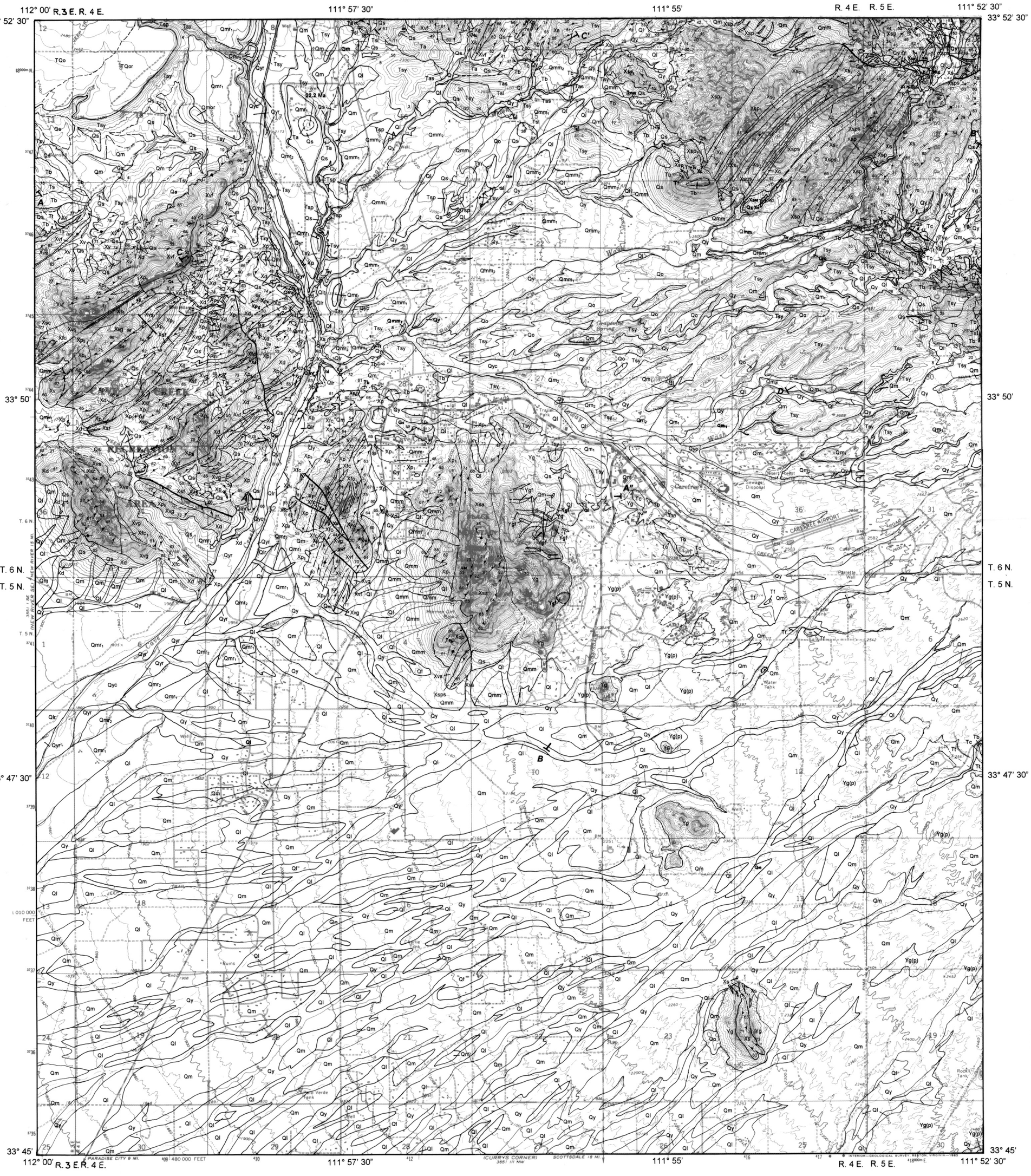
ARIZONA GEOLOGICAL SURVEY
Open-File Report 97-1, sheet 1 of 2, with text

1997



UNIT DESCRIPTIONS

Pliocene to Quaternary piedmont deposits

- **Qs** Alluvium, undivided
- **Qy** Holocene alluvium (< 10 Ka)
- **Ql** Late Pleistocene alluvium (10 to 250 Ka)
- **Qm** Middle Pleistocene granitic alluvium (250 to 750 Ka)
- **Qm_2** Younger member of the Middle Pleistocene granitic alluvium
- **Qm_1** Older member of the Middle Pleistocene granitic alluvium
- **Qmm** Middle Pleistocene metamorphic alluvium (250 to 750 Ka)
- **Qmm_2** Younger member of the Middle Pleistocene metamorphic alluvium
- **Qmm_1** Older member of the Middle Pleistocene metamorphic alluvium
- **Qo** Early Pleistocene alluvial fan deposits (750 Ka to 1.6 Ma)
- **TQo** Pliocene to Early Pleistocene alluvial fan deposits

Pliocene to Quaternary river deposits

- **Qyc** Active channel deposits
- **Qyr** Holocene river terrace deposits (0 to 10 Ka)
- **Qlr** Late Pleistocene river terrace deposits (10 to 250 Ka)
- **Qmr** Middle Pleistocene river terrace deposits (400 to 750 Ka)
- **Qmr_2** Younger member of the middle Pleistocene river terrace deposits
- **Qmr_1** Older member of the middle Pleistocene river terrace deposits
- **Qor** Early Pleistocene river terrace deposits (750 Ka to 1.6 Ma)
- **TQor** Pliocene to Early Pleistocene river terrace deposits

Miocene to Pliocene sedimentary rocks

- **Tsp** Playa deposits
- **Tsy** Younger sedimentary basin-fill deposits
- **Tsl** Lacustrine deposits
- **Ts** Miocene sediments, undivided
- **Tc** Conglomerate
- **Tas** Andesitic conglomerate

Late Oligocene to Miocene volcanic rocks

- **Tb** Miocene basalt, undivided
- **Tt** Tuff
- **Tai** Intrusive hornblende andesite
- **Ta** Andesite
- **Tfi** Felsic intrusive rock
- **Tf** Latite

Tertiary or Proterozoic rocks

- **TXd** Diorite

Middle Proterozoic intrusive rocks

- **Yg(p)** Granite pediment
- **Yg** Coarse-grained granite
- **Ygf** Fine-grained granite

Early Proterozoic intrusive rocks

- **Xg** Granite
- **Xd** Diorite to granodiorite

Early Proterozoic metavolcanic rocks

- **Xvf** Felsic metavolcanic rocks
- **Xvg** Intermediate to mafic metavolcanic rocks (greenstone)
- **Xv** Metavolcanic rocks, undivided
- **Xvs** Interbedded metavolcanic and metasedimentary rocks

Early Proterozoic metasedimentary rocks

- **Xsa** Meta-argillite
- **Xsp** Pelite
- **Xsp_1** Dark purplish gray to dark maroon pelite
- **Xsps** Psammite
- **Xsc** Metaconglomerate
- **Xs** Metasedimentary rocks, undivided
- **Xs_1** Interbedded pelite and chert
- **Xs_2** Interbedded pelite and psammite
- **Xc** Chert
- **Xsf** Ferruginous metasedimentary rocks
- **Xfc** Ferruginous chert
- **Xfc_1** Massive jasperoid rock

Early Proterozoic metamorphic rocks

- **Xp** Phyllite
- **Xp_1** Dark purplish gray to dark maroon phyllite
- **Xp_2** Gray to tan phyllite
- **Xp_3** Green phyllite
- **Xp_4** Light gray phyllite
- **Xp_5** Dark gray to dark brown phyllite or schist

MAP SYMBOLS

55	upright bedding
	vertical bedding
35	overturned bedding
75	primary foliation in volcanic rocks
	vertical primary foliation in volcanic rocks
	cross-bedding; arrow points up section
	ripple marks; arrow shows current direction
75	tectonic foliation
75 30	tectonic foliation, with bearing and plunge of lineation
	vertical tectonic foliation
40	crenulation cleavage
	fold hingeline; arrow shows bearing and plunge
	sedimentary or intrusive contact; dashed where approximately located
	intra-unit contact or marker bed; dashed where approximately located
50	fault, with attitude; dashed where approximately located, dotted where concealed
	quartz veins

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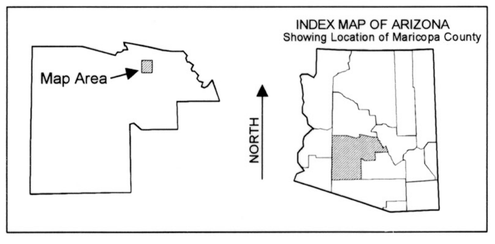
N
MN
12.5°

SCALE 1:24,000

1 .5 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

TOPOGRAPHIC CONTOUR INTERVAL 20 FEET