



EXPLANATION

[Symbol]	SILICIFIED VEIN COMPLEXES IN TERTIARY RHYOLITES
[Symbol]	LOWER SEQUENCE OF TERTIARY VOLCANIC ROCKS
[Symbol]	JURASSIC GRANITIC AND METAMORPHIC ROCKS
[Symbol]	PALEOZOIC AND LATE PROTEROZOIC SEDIMENTARY ROCKS
[Symbol]	KANAN OR POSSIBLE PROTEROZOIC ROCKS
[Symbol]	TRACTS DELINEATED FOR GOLD-SILVER QUARTZ VEINS (Q1-Q7)
[Symbol]	TRACTS DELINEATED FOR EPITHERMAL VEIN DEPOSITS (V1-V8)
[Symbol]	TRACTS DELINEATED FOR VEIN-TYPE IRON DEPOSITS (H1-H3)
[Symbol]	TRACTS DELINEATED FOR PEGMATITES (Pg1-Pg4)
[Symbol]	TRACTS DELINEATED FOR GNEISS-HOSTED DISSEMINATED GOLD MINERALIZATION (J1-J8)
[Symbol]	TRACTS DELINEATED FOR VOLCANIC-HOSTED DISSEMINATED GOLD-SILVER DEPOSITS (A1-A3)
[Symbol]	TRACTS DELINEATED FOR RHYOLITE-HOSTED TIN DEPOSITS (Sn1-Sn3)
[Symbol]	TRACTS DELINEATED FOR MANGANESE REPLACEMENT DEPOSITS (R1-R3)

CORRELATION OF MAP UNITS

Qa	Qts	QUATERNARY
Qtb		QUATERNARY AND TERTIARY
Tb		TERTIARY
Trm		
Tcl		
Trc		
Tbc		
Tcs	Td Trf Tcc	
Tbv		
Taf		
Tg		
TKgt		TERTIARY AND CRETACEOUS
TKgh		
KJsv		CRETACEOUS AND JURASSIC
KJg		
Jv		JURASSIC
Jvs		
PzZs		PALEOZOIC AND LATE PALEOZOIC
YXg		
Xs		MESOZOIC TO EARLY PROTEROZOIC

DESCRIPTION OF MAP UNITS

Qa	ALLUVIUM (QUATERNARY)
Qts	LANDSLIDE DEPOSITS (QUATERNARY)
Qtb	BASALT OF SENTINEL PLAIN AND PINNACLES VOLCANIC FIELD (QUATERNARY AND TERTIARY)
Tb	BASALT AND BASALTIC ANDESITE (TERTIARY)—Includes the Batemore Andesite; scattered capping basaltic flows, tuffs, and breccias
Trm	RYHOLITE, ANDESITE, AND MINE DACITE PLUGS AND FLUES (TERTIARY)—In the Lukeville and Lukeville Mountains and the Lukeville Range
Tcl	GILLES LATTICE PLUGS AND PLUG BRECCIA (TERTIARY)
Trc	RYHOLITE COMPLEX (TERTIARY)—Mostly extensive flows in the Lukeville and Lukeville Mountains. Rhyolite flows, flow breccias, and tuffs predominate in the Lukeville Mountains. Porphyritic biotite- to biotite-hornblende-bearing rhyolite and dacite occur in the Lukeville Mountains. Generally, eruptions in the Lukeville Mountains are younger than those of the Lukeville Mountains
Tbc	BASALTIC COMPLEX: PRIMARILY COARSE, PORPHYRITIC BASALT TO BASALTIC ANDESITE (TERTIARY)
Tcs	CONGLOMERATE AND MINOR SANDSTONE INCLUDING DANIEL'S CONGLOMERATE (TERTIARY)—Highly scattered occurrences; generally the Daniel's Conglomerate is only significant sedimentary rock lying within the Lukeville Field
Td	DACITE TO RHYOLITIC PLUGS, PLUG BRECCIA, DYES, AND SILLS; MINOR LATTICE AND ANDESITIC SUFFRACOUS ROCK (TERTIARY)
Trf	RYHOLITE PLUGS, ANDESITE, ASH PLUG TUFFS, MINOR ANDESITE (TERTIARY)
Tbv	BASAL VOLCANIC SEQUENCES (TERTIARY)—Low-lying, typically poorly exposed porphyritic plagioclase andesite and minor tuff. Includes Sued Andesite of Giluly (1946)
Taf	ANDESITE OF CASTLE DOVE MOUNTAINS (TERTIARY)
Tac	ANDESITE AND FACULONARITE, MINOR COARSE ARKOSIC SANDSTONE (EARLY TERTIARY)—Commonly occurs as intercalated steeply tilted sequence
Tg	BIOTITE-HORNBLende GRANITE (EARLY TERTIARY)
TKgt	TWO-MICA GRANITE, BIOTITE GRANITE (EARLY TERTIARY AND LATE CRETACEOUS)
TKgh	HORNBLende BIOTITE SERIES GRANITOIDES (EARLY TERTIARY AND LATE CRETACEOUS)
KJsv	SEDIMENTARY AND VOLCANIC ROCKS (CRETACEOUS AND (OR) UPPER JURASSIC)
KJg	GRANITIC ROCKS (CRETACEOUS OR JURASSIC)
Jv	GRANITIC AND SYENITIC ROCKS (JURASSIC)
Jvs	VOLCANIC AND MINOR SEDIMENTARY ROCKS (JURASSIC)
PzZs	SEDIMENTARY ROCKS INCLUDING APACHE GROUP ROCKS, DIABASE (PALEOZOIC AND LATE PROTEROZOIC)
YXg	GRANITE (MIDDLE AND EARLY PROTEROZOIC)
Xs	UNDIFFERENTIATED SCHIST (EARLY PROTEROZOIC)—Includes Pinal Schist
MYXg	GNEISS AND SCHIST (MESOZOIC AND (OR) MIDDLE PROTEROZOIC AND (OR) EARLY PROTEROZOIC)
MP	PARAGNEISS (MESOZOIC AND (OR) PALEOZOIC AND (OR) MIDDLE PROTEROZOIC AND (OR) EARLY PROTEROZOIC)

TRACTS DELINEATED FOR VEIN DEPOSITS (EXCEPT FOR TUNGSTEN-BEARING VEINS), PEGMATITES, DISSEMINATED GOLD DEPOSITS, RHYOLITE-HOSTED TIN DEPOSITS, AND MANGANESE REPLACEMENT DEPOSITS

By Jocelyn A. Peterson, Dennis P. Cox, and Floyd Gray

Simplified geologic map compiled by
Floyd Gray, R.J. Miller, and M.I. Grubensky