

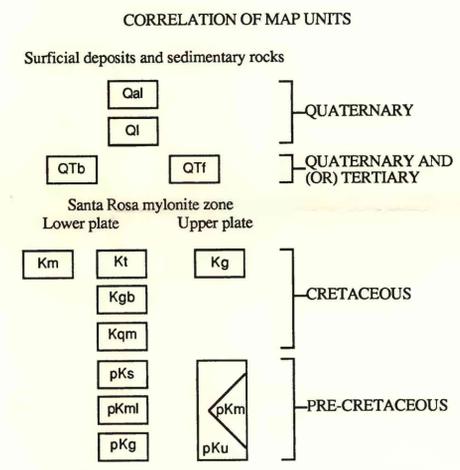
EXPLANATION

Area having high mineral resource potential (H)

Area having moderate mineral resource potential (M)

Commodities

Au Gold
M Marble
W Tungsten



DESCRIPTION OF MAP UNITS

Surficial deposits and sedimentary rocks

Qal Alluvium (Quaternary)

Qi Landslide deposits (Quaternary)—Arrows indicate direction of movement

QTb Bautista Formation of Axelrod (1966) (Quaternary and (or) Tertiary)

QTf Funglomerate deposits (Quaternary and (or) Tertiary)

Lower plate

Km Mylonitic gneiss, marble, and tonalite (Cretaceous)

Kt Tonalite, monzogranite, and granodiorite (Cretaceous)

Kgb Gabbro (Cretaceous)

Kqm Quartz monzonite (Cretaceous)

pKs Metasedimentary rocks (pre-Cretaceous)

pKml Marble (pre-Cretaceous)

pKg Gneiss and schist (pre-Cretaceous)—Includes pods of marble

Upper plate

Kg Undifferentiated granitic rocks (Cretaceous)

pKk Marble (pre-Cretaceous)—Coarse-grained, locally mylonitic

pKu Gneiss, schist, and metasedimentary rocks, undivided (pre-Cretaceous)

- MINES, PROSPECTS, AND CLAIMS**
- | | |
|-------------------------|------------------------------------|
| 1 Pigeon Creek mine | 7 Unnamed prospect |
| 2 Ribbonwood prospect | 8 Dolomite mine |
| 3 Indian prospect | 9 Nightingale limestone claims |
| 4 Miller Ranch prospect | 10 Serpentine Hill asbestos claims |
| 5 Oro Vista mine | 11 Unnamed prospect |
| 6 Unnamed prospect | 12 Sand and gravel pit |

- Contact—Dashed where approximately located; queried where uncertain
- Fault—Dashed where approximately located; dotted where concealed. Arrows show sense of lateral slip; bar and ball on downthrown side. Dips shown where known
- Thrust fault—Dashed where approximate; dotted where concealed; queried where uncertain. Sawtooth on upper plate
- Slump scarp
- ↘ Strike and dip of bedding
- ⊙ Horizontal bedding
- ↖ Vertical foliation
- ↖ Strike and dip of foliation—Arrow indicates bearing and plunge of lineation
- ⊗ Mine
- ⊗ Prospect
- ⊗ Gravel pit
- ⊙ Claim

DEFINITION OF LEVELS OF MINERAL RESOURCE POTENTIAL AND CERTAINTY OF ASSESSMENT

LEVELS OF RESOURCE POTENTIAL

H HIGH mineral resource potential is assigned to areas where geologic, geochemical, and geophysical characteristics indicate a geologic environment favorable for resource occurrence, where interpretations of data indicate a high degree of likelihood for resource accumulation, where data support mineral-deposit models indicating presence of resources, and where evidence indicates that mineral concentration has taken place. Assignment of high resource potential to an area requires some positive knowledge that mineral-forming processes have been active in at least part of the area.

M MODERATE mineral resource potential is assigned to areas where geologic, geochemical, and geophysical characteristics indicate a geologic environment favorable for resource occurrence, where interpretations of data indicate reasonable likelihood for resource accumulation, and for where an application of mineral-deposit models indicates favorable ground for the specified type(s) of deposits.

L LOW mineral resource potential is assigned to areas where geologic, geochemical, and geophysical characteristics define a geologic environment in which the existence of resources is permissive. This broad category embraces areas with dispersed but insignificantly mineralized rock, as well as areas with little or no indication of having been mineralized.

N NO mineral resource potential is a category reserved for a specific type of resource in a well-defined area.

U UNKNOWN mineral resource potential is assigned to areas where information is inadequate to assign a low, moderate, or high level of resource potential.

LEVELS OF CERTAINTY

A Available information is not adequate for determination of the level of mineral resource potential.

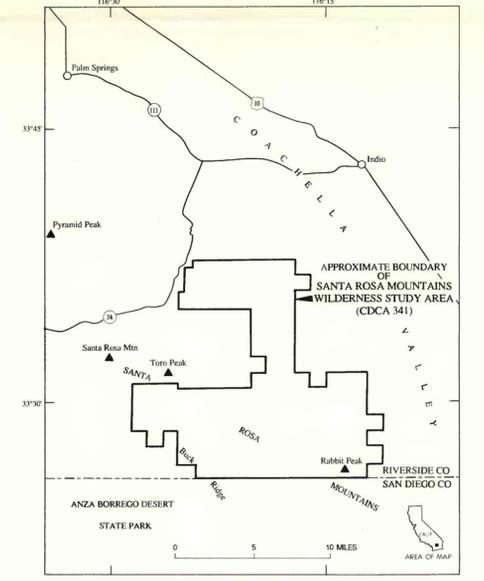
B Available information only suggests the level of mineral resource potential.

C Available information gives a good indication of the level of mineral resource potential.

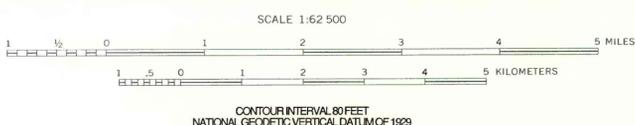
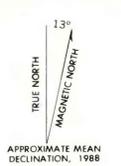
D Available information clearly defines the level of mineral resource potential.

LEVEL OF RESOURCE POTENTIAL	LEVEL OF CERTAINTY			
	A	B	C	D
HIGH POTENTIAL	U/A	H/B	H/C	H/D
		M/B	M/C	M/D
MODERATE POTENTIAL		L/B	L/C	L/D
				N/D
LOW POTENTIAL				N/D
				NO POTENTIAL

Abstracted with minor modifications from:
Taylor, R.B., and Stevens, T.A., 1983. Definition of mineral resource potential. *Economic Geology*, v. 78, no. 6, p. 1268-1270.
Taylor, R.B., Spoonman, R.J., and Marsh, S.P., 1984. An assessment of the mineral resource potential of the Santa Rosa Mountains, southeastern Colorado. U.S. Geological Survey Bulletin 1348, p. 40-42.
Coadour, C.H., compiler, 1984. Guide to preparation of mineral resource reports on public lands. U.S. Geological Survey Open File Report 84-209, p. 8.



Base from U.S. Geological Survey, Coachella, 1956; Palm Desert and Rabbit Peak, 1959; Clark Lake, 1960.



Geology compiled from Wright (1946), Sharp (1967), Matti and others (1983), Calzia (1988), and from unpublished geologic mapping by J.C. Matti, B.F. Fox, R.V. Sharp, and B.G. Erskine, 1982.

MINERAL RESOURCE POTENTIAL MAP OF THE SANTA ROSA MOUNTAINS WILDERNESS STUDY AREA, RIVERSIDE COUNTY, CALIFORNIA

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