APPROXIMATE BOUNDARY OF GOLDEN VALLEY WILDERNESS STUDY AREA (CDCA-170)

SKG claims(general area)

M/C Ag,Pb,Zn [2]

L/B Au [2]

L/C Geothermal [1]

Lava Mountain claims

M/C Au [1]
M/B Ag,W) [1]

L/B Au,Ag [2,3,4]

H/C Au,Ag [1,4]
M/C Geothermal [4]
L/D Na [4]

RAK claims

H/C Au,Ag [2,3]
M/C Geothermal [4]
L/D Na [4]

L/C Geothermal [4]

RAK claims

SEK claims

SEK claims

Geology generalized from G.I. Smith (1964)

Base from U.S. Geological Survey
Cuddeback Lake, 1954, 1:62,500;
Klinker Mountain, Red Mountain, 1967

APPROXIMATE MEAN DECLINATION, 1985

SCALE 1:24 000

1 ½ 0 1 MILE

1 .5 0 1 KILOMETER

CONTOUR INTERVALS 20 AND 40 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

AREA OF MAP

☆ INTERIOR—GEOLOGICAL SURVEY, RESTON, VA.—1985—685736

EXPLANATION

GEOLOGIC TERRANE HAVING HIGH MINERAL RESOURCE POTENTIAL

GEOLOGIC TERRANE HAVING MODERATE MINERAL RESOURCE POTENTIAL

GEOLOGIC TERRANE HAVING LOW MINERAL RESOURCE POTENTIAL OR LOW POTENTIAL FOR GEOTHERMAL ENERGY RESOURCES

LEVELS OF RESOURCE POTENTIAL

H High mineral resource potential
M Moderate mineral resource potential
L Low mineral resource potential
U Unknown mineral resource potential

LEVELS OF CERTAINTY

A Available data not adequate
B Data indicate geologic environment, and suggest level of resource potential
C Data indicate geologic environment, indicate resource potential, but do not establish activity of resource-forming processes
D Data define geologic environment and level of resource potential and indicate activity of resource-forming processes in all or part of area

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

LEVEL OF CERTAINTY

Relationships between levels of resource potential and levels of certainty

COMMODITIES

Ag Silver
Au Gold
Na Sodium
Pb Lead
W Tungsten
Zn Zinc
Geothermal

[ ] TYPES OF DEPOSITS AND OCCURRENCES

1 Silicified zones and fractures
2 Propylitized zone
3 Argillically altered zone
4 Hot spring

CORRELATION OF MAP UNITS

Qs Qv } QUATERNARY

Tv Tbs } TERTIARY

Ka } pre Tertiary

DESCRIPTION OF MAP UNITS

Qs SURFACE DEPOSITS (QUATERNARY)—Modern and older alluvium composed of locally derived, arkosic sandstone and older pediment gravel; limited outcrop extent in the northeastern part of the study area which is underlain by Pleistocene(?), tan to dark-brown, volcanic boulder conglomerate containing smaller igneous and metamorphic clasts. Includes Christmas Canyon Formation of Smith (1964)

Qv VOLCANIC ROCKS (QUATERNARY)—Flows, sills, dikes and plugs of olive- to very dark-greenish-gray andesite composed of plagioclase, biotite, hornblende, pyroxene, and minor quartz phenocrysts in a microcrystalline and glassy groundmass

Tv VOLCANIC AND SEDIMENTARY ROCKS (TERTIARY)—Intrusive and extrusive volcanic rocks and interbedded sedimentary rocks: rubble, volcanic and tuff breccias, and lapilli tuff locally capped by dark-gray, porphyritic andesite; minor andesite dikes and felsite plugs; interbedded tuffaceous arkosic sandstone and conglomeratic sandstone; propylitically altered, heavily brecciated porphyritic andesite, thinly bedded lapilli tuff, and less-brecciated andesite dikes; alteration intensity greatest in center of altered area and increases with depth. Includes Lava Mountains Andesite and late Pliocene Almond Mountain Volcanics of Smith (1964). Stippled pattern shows area of propylitic alteration described by Smith (1964)

Tbs BEDROCK SPRING FORMATION (TERTIARY)—Interbedded epiclastic and pyroclastic rocks including tan arkosic sandstone and conglomerate with minor amounts of siltstone, claystone, limestone, and evaporites; laterally extensive lenses of tuff, lapilli tuff, and volcanic breccia

Ka ATOLIA QUARTZ MONZONITE (CRETACEOUS?)—Plutonic rocks approximating quartz monzonite in overall composition; includes aplitic and leucocratic rocks in the northwestern part of the study area and some hornblende granodiorite in the southeastern part

CONTACT

FAULT—Dashed where approximately located; dotted where concealed

FAULT LOCATED FROM AERIAL PHOTOGRAPHS

USBM SAMPLING SITE WITH DETECTABLE GOLD

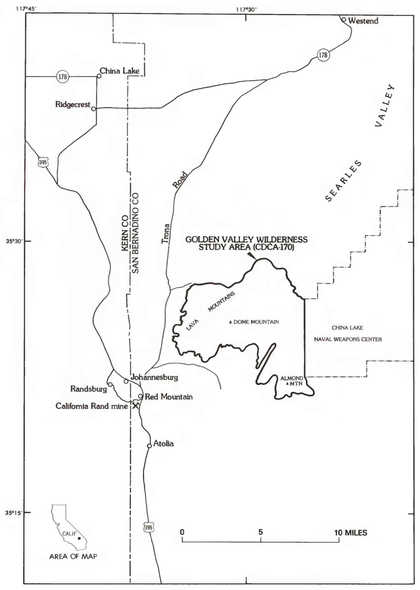
USBM SAMPLING SITE WITH NO DETECTABLE GOLD

USGS STREAM-SEDIMENT SAMPLING SITE AND NUMBER

PROSPECT

PROSPECTS AND CLAIMS

Map No.	Name
—	Lava Mountain claims
—	RAK claims
—	SKG claims
1	prospect, name unknown
2	prospect, name unknown
3	prospect, name unknown
4	prospect, name unknown
5	prospect, name unknown
6	prospect, name unknown
7	prospect, name unknown



INDEX MAP

MINERAL RESOURCE POTENTIAL MAP OF THE GOLDEN VALLEY WILDERNESS STUDY AREA, SAN BERNARDINO COUNTY, CALIFORNIA