

U. S. Geological Survey
Randsburg, California
September 4, 1943

MEMORANDUM

on the

COPPER KING MINE, WASHOE COUNTY, NEVADA

BY

C. W. Chesterman

Location:

The Copper King Mine property is in low mountain range a few miles southwest of the Virginia Mountains, Washoe County, Nevada about 16 miles northeast of Sparks, Nevada. The mine can be reached by traveling along the Pyramid Lake highway from Sparks to a point about 5 miles northeast of the Sky Ranch. Here the highway is joined by an ungraded dirt road which leads east for 2 miles to the mine.

Ownership:

The Copper King Mine property, comprising 4 unpatented mining claims, Copper King, Copper King Nos. 1, 2, and 3, is owned by S. L. Williams, 333 15th Street, Sparks, Nevada. These claims were located in February 1942 and are now leased to the Sowall brothers, 324½ E. Ninth Street, Reno, Nevada. The Sowall brothers are sinking a small vertical shaft in granodiorite and plan to reach the ore zone at comparatively shallow depth of 50 feet or less.

Mining Equipment:

The mining equipment consists of an improvised air compressor, one second hand hoist, several pieces of drill steel, air and water line, and an assortment of hand tools.

Mine Workings:

The mine workings consist of three stub adits, two vertical shafts 35' and 100' deep, and several cuts and trenches.

Geology:

The property is underlain principally by a coarse-grained granodiorite. Extending through the center of the property is a pod-shaped body ^{of} and schist which is almost completely surrounded by the granodiorite. Within the schist and on the contact between the schist and granodiorite ~~there~~ are two lenticular bodies of quartz-rock. ~~This quartz-rock is~~ composed essentially of sheared and massive quartz with minor amounts of opal, brown garnet, malachite, and azurite. ^{The quartz contains} ~~There~~ ^{a trace of scheelite and a small amount of copper} ~~is also a very small amount of scheelite in the quartz.~~ The strike of the quartz-rock and schist is N 70° E and the dip is S. E. 60° to 65°. In all probability, the quartz-rock represents a silicified shear zone. ~~which now contains a small amount of copper and an exceedingly small amount of scheelite.~~

Scheelite Deposits:

A few fragments of scheelite-bearing quartz-rock were found on the dump of the adit just north of the 35' shaft. None of the outcrops nor shallow cuts revealed the slightest trace of scheelite.

Copper Deposits:

Copper in the form of malachite and azurite occurs as very narrow seams along joints and on fracture surfaces in the quartz-rock. An occasional showing of copper may be found

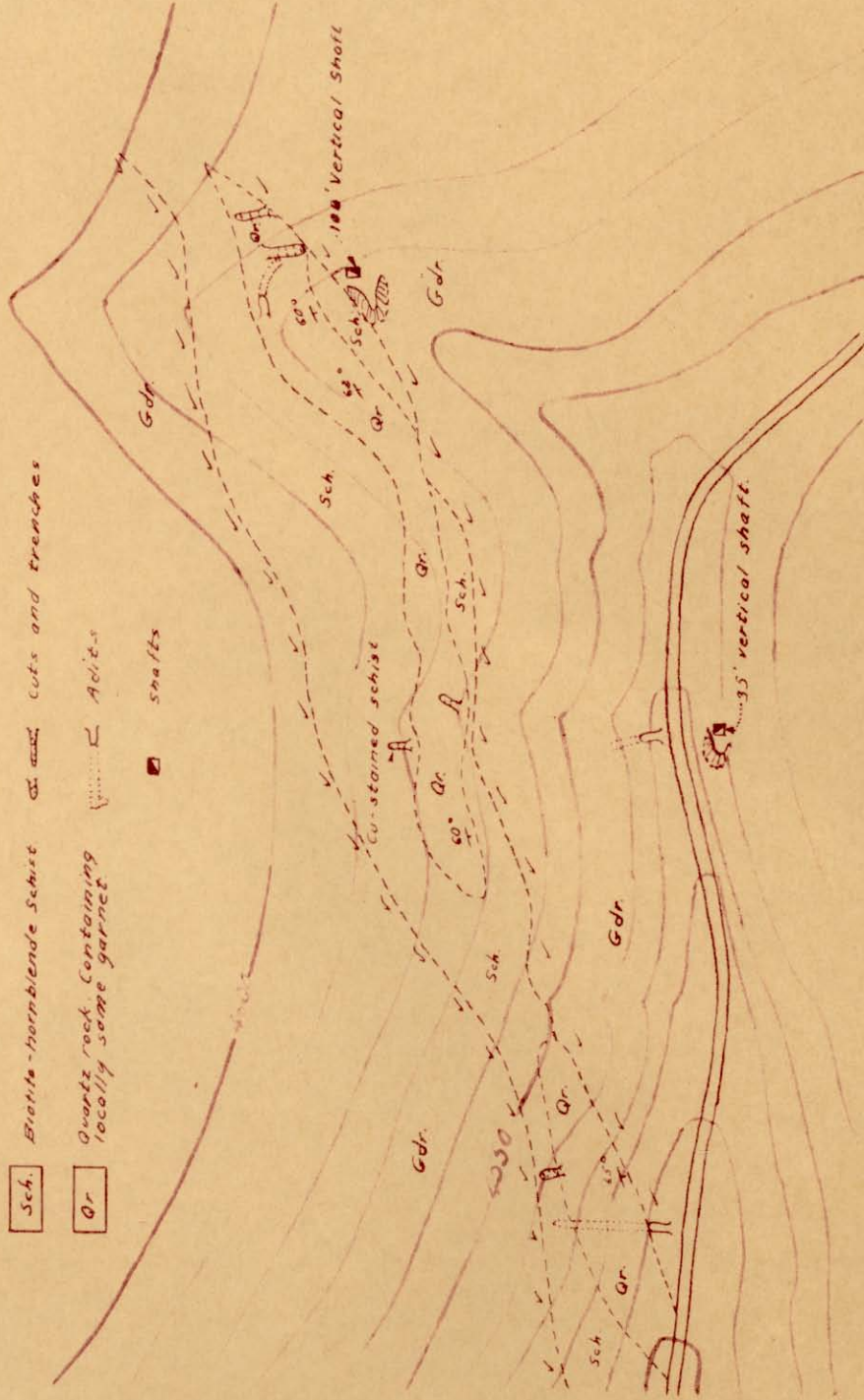
in the schist.

Reserves:

There are no copper nor tungsten reserves on this property. The grade and amount of copper present is low enough to discourage future exploration and development work.

EXPLANATION

- Gdr. granodiorite
- Sch. Biotite-hornblende schist
- Or Quartz rock, containing locally some garnet
- Contact
- cuts and trenches
- Adits
- shafts

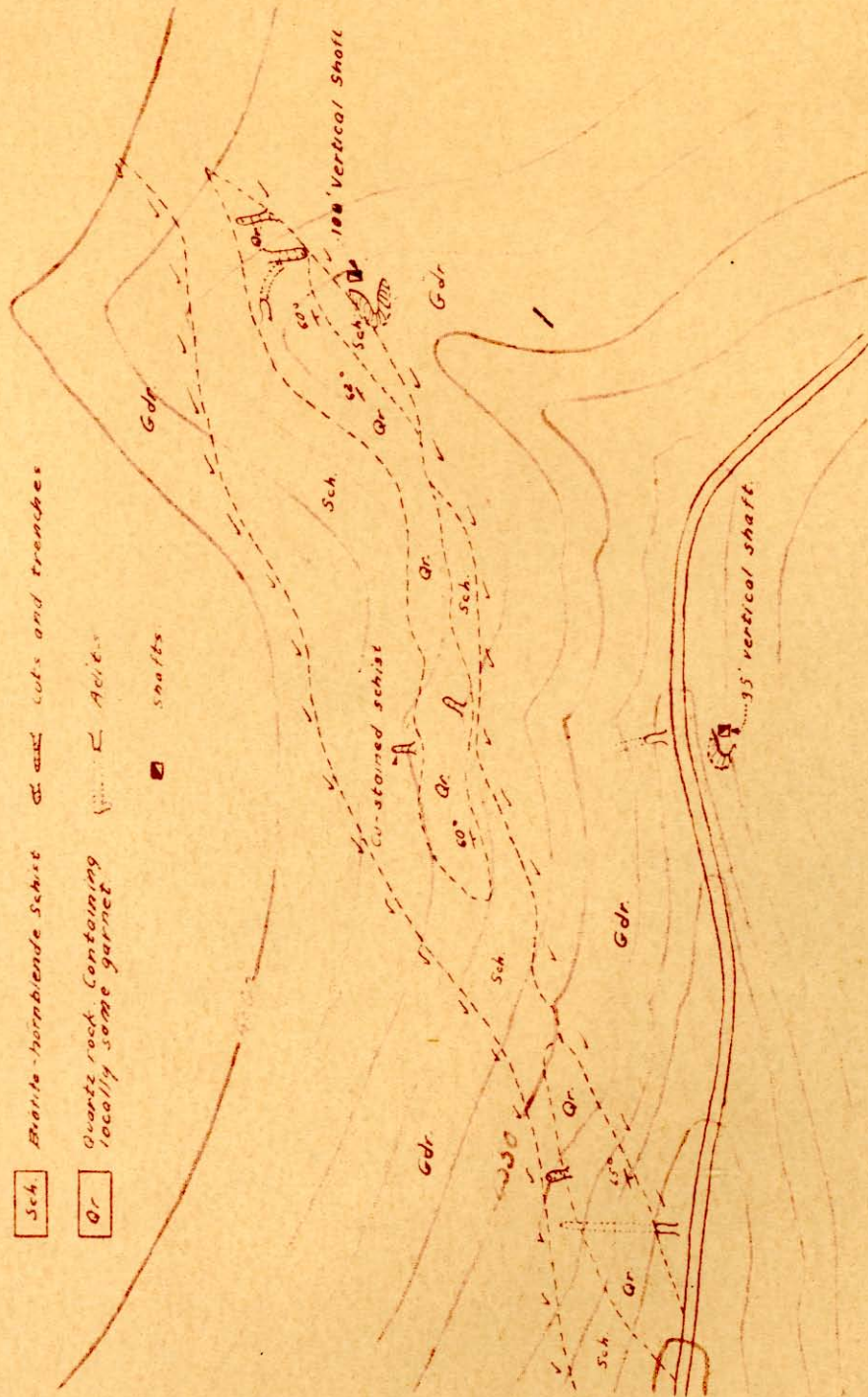


GEOLOGIC SKETCH MAP
 THE COPPER KING MINE AREA
 WASHOE COUNTY, NEVADA
 C.W. CHESTERMAN U.S. GEOLOGICAL SURVEY
 AUGUST 1943

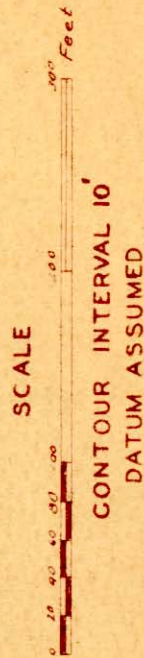
SCALE
 0 25 50 100 150 200 Feet
 CONTOUR INTERVAL 10'
 DATUM ASSUMED

EXPLANATION

- Gdr. Granodiorite
- Sch. Granite-hornblende schist
- Qr. Quartz rock, containing locally some garnet
- Contact
- Cuts and trenches
- Adits
- Shafts



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