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07/16/97

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES FILE DATA

PRIMARY NAME: PETERS PROPERTY

ALTERNATE NAMES:

YAVAPAI COUNTY MILS NUMBER: 1235

LOCATION: TOWNSHIP 10 N RANGE 2 E SECTION 1 QUARTER SW
LATITUDE: N 34DEG 16MIN 09SEC LONGITUDE: W 112DEG 06MIN 13SEC
TOPO MAP NAME: CORDES JUNCTION - 7.5 MIN

CURRENT STATUS: EXP PROSPECT

COMMODITY:
COPPER

BIBLIOGRAPHY:
USGS CORDES JUNCTION QUAD
ADMMR PETERS PROPERTY FILE

Humboldt, Arizona
July 5, 1954

Mr. H. F. Mills, Manager
Iron King Branch
Shattuck Denn Mining Company
Humboldt, Arizona

Memorandum
Peters Property
Yavapai County, Arizona

Mr. Peters represented his property as having chalcopryite so widely disseminated in granite as to be of economic interest to Shattuck Denn. On June 28, 1954 you and the writer spent half a day with Mr. Peters in examining the property which is on the Bloody Basin road about a mile east of the Black Canyon highway.

The country rock is what I have informally designated in my mapping to the west as "Bumblebee granite", notable for its coarse grain. This granite is cut by dikes and irregular large masses of aplite; both are cut by narrow, dark green andesite dikes. Rather wide cleavage zones which vary in strike from east to north and dip steeply are offset by schistose zones which are dominantly N. 25° E., the regional trend, but vary to N. 60° W. . The latest structures are gently dipping faults with much bleaching, weak iron staining, and occasional stringers of white quartz and carbonate of no economic interest.

Examination of the "Bumblebee granite" revealed small areas of chalcopryite and pyrite so sparsely and erratically disseminated that it is doubtful whether the copper content at best ever reaches 0.5%. The early cleavage zones are the sites of weak copper staining which show some persistence in strike and may occur over widths of 10 feet. The best of these have been explored by shallow cuts, although one is investigated by a shaft of about 30 feet. Values at the bottom of the shaft reputedly equal about 1.7% copper with something over a dollar in gold values. No chalcopryite was noted in these zones or was reported by Mr. Peters.

The evidence as to whether the chalcopryite is an accessory mineral or was introduced along the cleavage zones appeared ambiguous; the odds are that it weakly entered the granite along early fractures. Where these remained open to ground water, the copper moved and its salts thinly coated the fracture surfaces.

Regardless of how the primary copper got there, the mineralization and alteration are too weak and the country rock too inhospitable for this area to hold any potential for Shattuck Denn Mining Company.


S. E. Jerome

SEJ/