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ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: CHALCOCITE GROUP

ALTERNATE NAMES:

PINAL COUNTY MILS NUMBER: 313

LOCATION: TOWNSHIP 4 S RANGE 11 E SECTION 8 QUARTER SE
LATITUDE: N 33DEG 05MIN 43SEC LONGITUDE: W 111DEG 13MIN 58SEC
TOPO MAP NAME: NORTH BUTTE - 7.5 MIN

CURRENT STATUS: DEVEL DEPOSIT

COMMODITY:

COPPER OXIDE

SILVER

GOLD

BIBLIOGRAPHY:

ADMMR CHALCOCITE GROUP FILE

CHALCOCITE GROUP OF MINING CLAIMS 1011E

The Chalcocite Group of Mining Claims is situated in the Mineral Hill Mining District, Pinal County, Arizona, at Price station, on the Arizona Eastern Railroad, twelve miles east of Florence.

The group consists of eight full claims, or approximately, one hundred and sixty-eight acres of mineral ground. There are two distinct vein systems on this group of claims; the older system lying between feldspathic granite and diabase-porphyry dikes, have a trend north and south; and the newer system, lying between feldspathic granite and rhyolite dikes has an east and west strike. In the latter system the rhyolite dikes form the hanging and the granite the foot walls of the veins. In the former system the diabase-porphyry forms the hanging and the granite the foot-walls. But in both systems, however, there are occasional displacements of the granite foot-wall by irregular intrusions of diabase and at such points the mineralization seems to be stronger but not to a marked degree.

The mineralization throughout both systems, with the exceptions noted above, is remarkably uniform and unusually strong. The veins vary in width from three to twenty feet and have a salicious gangue material, intermixed with iron oxides and calcite.

The ores are exceptionally high grade and consist of every variety of carbonate, oxide, bromide and chalcocite, the latter being present not only in stratified and massive form, but it also is carried in the carbonates and oxides in finely divided particles and in nuggets.

The copper tenor of the ores is from four to sixty-five percent, the general average being about seven percent. On claims Nos. one to five, in carload lots, the ores gave an average return of silver per ton of \$2.50 and an excess of iron and lime for which five per cent per unit is allowed by the smelters.

On claims Nos. six and seven, which are separated from the other claims by a large box canyon, the vein gangue differs from that of the other claims described. At the south end of No. six claim, where its north and south vein forms a junction with a large transverse fissure, the latter is filled from wall to wall with iron about equally divided between hematite and gossan. A three foot stratum of gossan lies under the hanging wall and between this and the foot wall is about a four foot stratum of hematite. In the gossan stratum, about six feet below the outcrop, I found a copper replacement from which I extracted three tons of green carbonate ore which yielded forty percent copper at the smelter.

The hematite stratum resting against the foot wall of the transverse fissure assays as high as \$11 gold per ton and also runs well in copper. At the north end of No. 6 vein there is an irregular intrusion of epidote and garnet in which there is a large silver bearing fissure which I have not yet sampled.

On claims Nos. one to five there is a very interesting and geological and mineralogical condition that strongly indicates that at a short distance below the surface, in the large masses of intruded diabase-porphyry, a general dissemination of finely