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KASS MINE

Sulphurate

Located in Copper Basin District. Yavapai County, Arizona
Visited Sept. 6-9, 1916, by Y. F. S. Holland

12 to 14 miles SW of Prescott by good road. 4 to 6 miles SE of Skull Valley Station, whence shipments are made by the Commercial Mining Company and others.

The country generally is granite with acidic dikes and intrusions of monzonite, quartz porphyry and quartz diorite.

The mineralized zone appears to lie in a NW - SE direction. Strikes of ore bodies I observed were commonly N 20° W to N 40° W. Running with this zone is a belt of brecciated and silicified material, generally about 200 feet wide, which I traced for two miles from Frank Kass's property southerly into Gabarino Hill where the Commercial Mining Company obtains its ore. In the same general direction are shear zones, more or less mineralized especially prominent close to Gabarino Hill. North of Frank Kass's property, the mineralized zone may extend some miles to Ramsgate, where the conditions are similar.

THE FRANK KASS GROUP.

Frank Kass, owner, resident on the property. Presented by Ed. Shumate of Prescott. 20 claims, unpatented. A possible producer, after development, of chalcopyrite siliceous ores. No production at present.

Running thru three of the claims is a belt of quartz porphyry and brecciated material, with a general NW - SE strike and a dip to the east. The outcrop shows very little copper, but considerable hematite and other iron residues from leaching. Pyrite and chalcopyrite are often close to the surface. A pit, five feet deep, full of water, at the barn on the Home Run claim, has sulphides, apparently primary, in the bottom. At this point the belt is 200 feet wide. On the same claim is a shaft, said to be 100 feet deep, in which is about 60 feet of water. Picked samples of sulphides from the dump assayed:

(H-4) Copper 1.9% Silver 6.10 oz. Gold - trace. A sample across 12' of the outcrop assayed:

Copper 0.16% ----- Gold - none. Some of the ore showed galena. The best showing on the property, of ore in place is on the Gray Eagle Claim to the North. At the west end of the claim, a tunnel has been driven 120' on one of two parallel dikes towards a good surface showing of copper ore, chiefly sulphides, but not far enough to get under the good outcrop. Samples of ore, chiefly sulphides, from two shallow cuts above the tunnel assayed:

(H-5) Copper 15.36%; Gold 0.01 oz; Silver 2.69 oz. The tunnel cuts a well defined quartz vein which here carried very little mineral. On other parts of the property float quartz with the same well marked characteristics carries chalcopyrite.

Near the west end of the property and especially on the Victor claim, very large boulders of high grade copper ore are said to have been broken up and shipped, but apparently ore of this character has never been found in place in spite of much prospecting. Samples given me by Kass of a shipment said to have been made a few days ago by Sanders, assayed:

(H-6) Copper 22.44%; no gold; no silver. The mineral is chiefly chalcocite and is contained in quartz porphyry and breccia strongly resembling the material found in the 200 foot belt close to Kass's barn, except that the latter contains pyrite and chalcopyrite instead of chalcocite. There is a possibility that the boulders are merely portions of a local deposit, enriched by copper solutions. There is the further possibility that the original source of the boulders may be outside the limits of the Kass claims. The two hundred foot belt would appear to offer considerable promise for prospecting by the present operators but it does not seem attractive for large operation.