

## SULPHIDE OF COPPER. (Chalcopyrite)

Northampton—4½ miles from Woodstock, Carleton Co.

Cobbler and Sexton Mine.

This mine was discovered in 1905, since which exploratory work has been more or less continuously carried on. The ore, though of low grade (5 to 6 per cent.) is interesting as carrying small amounts of free gold, and also 3 oz. to the ton of silver.

## SULPHIDES OF COPPER. (Bornite and Chalcopyrite)

Goose Creek, St. John Co. (Leonard Martin)

American Copper Co.

As in Charlotte county, the ores of eastern St. John (and Albert) county have long been known, and exploited, but, upon the whole, with unsatisfactory results. At Goose Creek the ore is mainly bornite, and large boulders of very fine ore have been found in the vicinity, but the veins so far exploited have been comparatively small. Much difficulty has also been experienced in mining operations, owing to the location of the works on a bold and dangerous coast, with but little opportunity for anchorage or wharfage.

## SULPHIDE OF COPPER. (Copper Glance)

Dorchester, Westmorland County.

These ores are peculiar as occurring in gray sandstones and conglomerates of Carboniferous age, partly in the form of small veins, rarely more than a quarter of an inch in thickness, and partly disseminated through the rock in quantities not directly visible to the eye. There is also more or less of the green carbonate, and with the ore are carbonized remains of plants which have doubtless played an important part in the precipitation of the copper.

In treatment the original rock, with its contents, was directly crushed, and in the operations carried on here about 1899 was then submitted to chemical and electrolytic processes for the extraction of the copper—the plant for the purpose being of elaborate and costly construction. The result of its use was, however, found to be unsatisfactory, and the machinery, though still standing, is not now employed, other and more expeditious methods being substituted.