

In the first of these the gangue constituted 1.03 per cent. of the whole specimen; in the second 15.00 per cent., while the metalliferous portion of the ore contained 0.16 per cent. nickel. In No. 3 the gangue reached 40.15 per cent. by weight of the whole specimen, the metalliferous portion containing 0.13 per cent. nickel.

Copper.

Copper pyrites in small quantities was met with at several points along the line, usually in quartz veins. At Lower Shoal Harbor, Trinity Bay, beautiful peacock ore, erubescite, was seen to impregnate a quartz vein, but not in sufficient quantity to be of economic importance. Gray copper, tetrahedrite, was also met with in a cutting near Thorburn Lake; also in quartz sparsely distributed. These and other instances are merely mentioned to show the presence of this mineral in the rocks. Possibly it may occur in some part of the region in a more concentrated form and in sufficiently large deposits to be available for mining. Several years since, a very fine, rich specimen of copper was picked up loose on the Gander River below the Lake, but the locality from whence derived has never been ascertained. The occurrence of serpentine near the Gander Lake, and again in large volume on the upper reaches of the Gander River above . . . , might be looked upon as a favourable augury for the probability of copper and other valuable metallic substances as likely to occur in association therewith. Nothing short of a systematic prospecting of the country by experienced miners will ever reveal the presence of valuable deposits of such ores.

Iron Ores.

Magnetic iron in crystals, pretty thickly dispersed throughout the rock, occurs in a coarse diorite near . . . Harbor, Trinity Bay. The same ore was seen in minute crystals in other finer-grained diorites west of Budger Brook, and also as one of the necessary minerals in several of the granitic rocks met with. No well-defined vein or lode of this ore was discovered anywhere. A wide belt of dull, earthy, reddish jasper containing much ferric oxide, occurs near Clode Sound, as already mentioned. Though not in itself sufficiently rich in metallic substance to prove of much value, nevertheless it is accompanying just such jaspilites, and in about the same horizon, that the Minnesota iron ores,