

exportation. In Guysboro' County the Devonian measures carry several large deposits of specular ore of good quality, but as yet unproven. The ore is presented in veins and in large masses, and may be connected with the dioritic dykes found at this point. It occurs under similar conditions near St. Peters. I believe that by some the copper-ores of Polsons Lake and Lochaber in Antigonishe County are referred to this horizon. These deposits are connected with igneous dykes, and, as far as they have been explored, appear very promising, but their distance from shipping, etc., has diverted attention from them.

*Upper Silurian* (Lower Helderberg, Clinton).—In Pictou and Antigonishe counties, strata which are referred to this age carry important deposits of bedded red hematites, varying in thickness up to 50 feet. The ores are silicious, but frequently free from sulphur and phosphorus; their metallic contents vary from 35 to 50 per cent. Owing to their size and accessibility they can be cheaply mined, and will probably be utilized in connection with the richer ores found in their vicinity.

*Lower Silurian*.—These measures as developed in Cape Breton carry several beds of red hematite, and deposits of copper pyrites and sometimes cuprififerous iron pyrites.

*Cumbr-Silurian*.—This term has been provisionally applied to the mass of strata forming the Cobequid hills and reappearing in Pictou County. The ores occurring in these measures embrace several varieties of hydrated and anhydrous peroxide. At Londonderry the limonite occurs with a little specular in a large interstratified vein containing ankerite and sideroplesite, the latter being used to some extent in the furnaces of the company operating at this point. Magnetites have also been met in parts of this range. In Pictou County the ores occur in interstratified veins with ankerite, but are principally specular. Copper- and gold-ores are reported as occurring in this range, but I am uninformed concerning their economic value. The deposits of antimony-ore at Rawdon, Hants County, have been worked for several years, and are probably extensive. Their exact geological horizon is not yet clearly known, but they are referred to here.

*Cambrian* (Longmynd).—The only mineral of economic value yet found in these measures is gold. The strata are slate and quartzite lying in large abrupt folds, which have permitted the intercalation of the gold-bearing quartz-veins, varying in thickness up to 12 feet. The gold is also found disseminated in some of the beds of slate.