

iron ore, limonite, ilmenite, chromite, siderite, vivianite, clay ironstone, brown and yellow ochre, iron pyrites, pyrrhotite, mispickel, &c. Of these, magnetite, hematite, chromite, clay ironstone and pyrites are the most abundant ores. The former occurs in large masses, in the vicinity of some of the copper mines, notably the Union Mine, Tilt Cove. An immense body of magnetite was discovered a few years since in the Laurentian Range, near St. George's Bay, on the West Coast. It was found on analysis, however, to contain a large percentage of titanitic acid, which greatly militated against its usefulness. That there is an abundance of a similar ore in the same range, is indicated by the large quantity of debris found in the beds of most of the streams issuing from the Long Range Mountains. Magnetic iron sand is of very common occurrence, both in this island and along the Labrador coast. Hematite occurs with the magnetite at Tilt Cove and elsewhere. Chromite is found, generally, associated with the serpentine group of rock wherever displayed in the island; and there would appear, from the loose debris scattered about, to be a considerable deposit of this ore in the vicinity of Pipe Stone Pond, on the head of the Bay d'Est river. The clay ironstones are confined to the coal measures of Bay St. George and the Grand Lake region. In the latter, extensive beds were come across during the past season (1891), consisting of irregular nodular or lenticular masses, arranged in layers of stratification, with also some solid bands of from two to three feet thick. The common yellow pyrites (mundic) occurs all over the island, and is found, more or less, disseminated through every formation that goes to constitute its rock crust, but its chief value consists in the immense massive deposits associated with the copper ores in Notre Dame Bay and elsewhere. At the Terra Nova Mine, Bay Verte (not at present in operation), Mr. Murray, in 1867, speaks of the deposit as consisting of "an enormous mass of iron pyrites, with an occasional admixture of yellow sulphuret of copper." Again at the Union Mine Tilt Cove a mass of this ore, said to be over 200 feet thick, was driven through a few years since, on the east of the original copper workings. It is very hard and compact having a close, even texture, and contains, on an average, about two to four per cent. of copper. At the Tilt Cove, Bett's Cove and Little Bay copper mines, large quantities of this same ore have been mined with the copper; probably one-third of the bulk of ore