

aggregate, in the known magnetite deposits of the coast district of British Columbia, a sufficiently large tonnage of ore available to support a small local iron industry for many years when conditions justify its establishment. There is little doubt, also, that active exploration would disclose many bodies of iron ore at present unknown.

The coast magnetites, while somewhat handicapped by their composition, and while they will in most if not all cases require to be roasted before smelting, are capable of producing a good merchantable pig-iron. They can be easily and cheaply mined, and are located close to tide water. Besides an adequate supply of suitable ore, other important considerations in the establishment of an iron industry are the proximity of fuel and flux, the ease with which the raw material can be assembled at the point of production, and a market for the product at profitable prices. On the British Columbia coast, ore, coke and limestone suitable for flux are all obtainable within easy reach of each other, and all are located so close to navigable water, open the year round, that transportation would be of the cheapest. These considerations suggest that the ores will ultimately be smelted locally; on the other hand, the labor situation in British Columbia is not the most favorable.

Failure to establish an iron smelter in the past has usually been ascribed to the lack of sufficient market for pig-iron; it is possible that the real limitation to the smelting of these ores locally will be found to be the cheapness with which Chinese and Indian pig-iron can be laid down in the coast market.

The only inland deposit of magnetite in British Columbia that has had much development work done on it is the Glen Mine, on the south side of Kamloops Lake. Previous to 1901, some 12,900 tons of magnetite were mined and shipped from this property to be used as a flux by lead smelters. Judging by the available records of analyses the ore is of excellent quality, and while development is not sufficient to prove the reserve tonnage claimed (8,000,000 tons) there is apparently a considerable quantity available.

**HEMATITE.**—Deposits have been found in a number of localities in British Columbia, notably, Bull River, Kitchener and Chilcotin; but, while analyses indicate some ores of good quality, there is, as yet, no