

Limited, produces heavy-media concentrate from its Bell Island, Nfld., operations and accounted for about 10 p.c. of Canadian shipments. About 3 p.c. of all 1959 shipments was in the form of pelletized iron ore concentrate from the Hilton Mines near Shawville, Que.

In Ontario, Steep Rock Iron Mines Limited and Canadian Charleson Limited have their operations based near Atikokan, 140 miles west of Port Arthur. Steep Rock supplies direct-shipping ore and some concentrate and in 1959 accounted for 12 p.c. of Canada's total shipments. Canadian Charleson commenced small-scale production of iron ore concentrate in 1958. Algoma Ore Properties Limited operates mines and a sinter plant near Jamestown in the Michipicoten area and accounted for 9 p.c. of 1959 shipments. Marmoraton Mining Company Limited produces pelletized iron ore concentrate at its plant near Marmorata. Lowphos Ore Limited commenced production of iron ore concentrate in 1959 on a small scale near Capreol.

British Columbia accounted for about 4 p.c. of the total Canadian shipments in 1959. Most of the output, in the form of iron ore concentrates, is produced from mines operated by Empire Development Company Limited on Vancouver Island and Texada Mines Limited on Texada Island. Two new producers of iron ore concentrate on Vancouver Island made small shipments in 1959.

Three companies produce iron by-products from the processing of other raw materials. Two of these, namely, the International Nickel Company of Canada Limited (Copper Cliff, Ont.) and Noranda Mines Limited (Cutler, Ont.) treat iron sulphide material and obtain small tonnages of high-grade iron oxide. The third, Quebec Iron and Titanium Corporation, smelts ilmenite at its Sorel plant in Quebec to produce titania slag and pig iron. The ilmenite is mined from deposits at Allard Lake, Que.

The rapid increase in Canadian iron ore production during the past decade is expected to continue. Properties being developed for production will probably result in a doubling of Canada's 1959 shipments by 1965. In the Wabush Lake area of Labrador, 190 miles north of Sept Îles, Iron Ore Company of Canada and Wabush Iron Company Limited have very large deposits under development. They will spend over \$100,000,000 each in the next few years to bring their properties into production, the former in 1962 and the latter in 1965. In Quebec, Quebec Cartier Mining Company will spend up to \$300,000,000 on its project at Lac Jeannine, about 200 miles north of Shelter Bay on the St. Lawrence River. A deep-water harbour at the new town of Port Cartier, another new town near the mine site, a 193-mile connecting railway, a 60,000-hp. power development and a beneficiation plant were all started late in 1958. In Ontario, Caland Ore Company Limited neared the final stages of dredging the east arm of Steep Rock Lake. The mine development is well advanced and production in 1960 is expected to reach 750,000 tons. In British Columbia, the Consolidated Mining and Smelting Company of Canada Limited started the construction of a plant near Kimberley to produce 36,500 tons of pig iron from what was previously classified as iron oxide waste.

In many other parts of Canada a large number of companies continued to explore and evaluate several iron-bearing deposits of promise. Work to date suggests that there are large reserves—especially in Quebec, Newfoundland (Labrador) and Ontario—of concentrating grade iron ore, some of which are likely to be developed as the demand for iron ore increases.

**Gold.**—Conditions in Canada's gold mining industry had improved in 1958 over 1957. The average Mint price for gold increased to \$33.98 an ounce troy from only \$33.55 in 1957. Production rose to 4,571,347 oz. t. from 4,433,894 oz. t. and the value increased to \$155,334,370 from \$148,757,143. However, the improvement did not continue in 1959 when production amounted to 4,444,845 oz. t. valued at \$149,213,447. The premium on the Canadian dollar in relation to that of the United States rose, resulting in an average Mint price for gold of only \$33.57 in 1959.