

The International Nickel Company of Canada, Limited (INCO)

INCO's iron ore recovery plant at Copper Cliff, Ontario, was originally designed to treat 1,000 tons a day of nickeliferous pyrrhotite concentrate recovered from Sudbury-area, copper-nickel ores. The concentrate is roasted, leached to remove nickel, copper and cobalt, and pelletized. The plant was completed in 1958 and in 1960 the company announced plans to triple its output capacity. The expanded plant is scheduled to be in operation by 1963.

Noranda Mines, Limited

The pyrite sintering plant for the production of sulphur dioxide and iron-oxide sinter commenced operation at Cutler, Ontario, in 1957. The iron sulphide concentrate delivered by rail from Noranda, Quebec, is pelletized and then roasted on two sintering machines. The iron-oxide sinter is crushed to two inches, screened to plus one-half inch and shipped to Canadian and United States steel mills.

Quebec Iron and Titanium Corporation (QIT)

QIT was formed in 1948 by Kennecott Copper Corporation and The New Jersey Zinc Company to exploit a large deposit of ilmenite discovered by Kennecott at Lac Tio, 28 miles north of Havre St. Pierre, Quebec. A railway was built between the mine and the dock at Havre St. Pierre and an electric smelter was built at Sorel, 40 miles east of Montreal. Titanium dioxide slag and pig iron are produced. About a million long tons of ilmenite are shipped to Sorel each year.

The ore deposits at Lac Tio are reported to contain over 200 million tons of ilmenite averaging 35 per cent  $TiO_2$  and 40 per cent iron.

Companies Developing for Production

Brynnor Mines, Limited

A subsidiary of Noranda Mines, Limited, this company began development in 1960 of a magnetite deposit near Kennedy Lake, Vancouver Island, British Columbia. Open-pit reserves are reported to be sufficient to produce 5 million tons of concentrate grading 62 per cent iron. Production will start in 1962 at a rate of 700,000 tons of concentrate a year. All production will be shipped to Japan.

Jedway Iron Ore Limited

This subsidiary of The Granby Mining Company Limited is developing a magnetite deposit on Moresby Island, Queen Charlotte Islands, British Columbia, for open-pit production starting in 1962. The ore, grading about 52 per cent iron, will be magnetically concentrated to 62 per cent at a rate of 400,000 tons of concentrate a year. The company has a contract with Japanese steel companies for 2 million tons of concentrate to be delivered over a five-year period.

Jones & Laughlin Steel Corporation

This large United States company leased a large deposit of magnetite iron formation grading about 25 per cent iron near Kirkland Lake, Ontario. It has been announced that a concentrator and a pelletizing plant will be built to produce a million tons a year of iron-ore pellets grading 66 per cent iron. The pellets will be consumed in the company's steel plants. The mine will be an open-pit operation and should be in production in 1964.