

### Steep Rock Iron Mines Limited

The Steep Rock iron ore deposits lie in the bed of Steep Rock Lake, near the town of Atikokan, 142 miles by rail west of the "Lakehead" cities of Fort William and Port Arthur, Ontario.

Steep Rock Iron Mines Limited began production of direct-shipping iron ore, ranging between 50 and 55 per cent iron, in 1944 following the draining of the Middle Arm of Steep Rock Lake. The original open pit (Errington) has been mined to its economic depth. Production now comes from two other open pits (Hogarth and Roberts) and the Errington underground mine. The company has two gravity ore washing plants and two screening plants to up-grade and improve some of the ore. It is shipped to Canadian and American steel plants. Total ore reserves in the deposits at present being mined were estimated to have originally contained 125 million tons of ore to a depth of a few hundred feet.

### Texada Mines Limited

The Texada magnetite deposits are on the northwest coast of Texada Island, about 50 miles northwest of Vancouver, British Columbia. Production started in 1952 and since then ore has come from seven separate pits. Underground exploration began in 1959 and in 1962 it was announced that underground mining would commence in 1963. The ore, containing about 39 per cent iron and small amounts of copper sulphide, is ground and magnetically concentrated. The copper is removed by flotation. All iron ore is shipped to Japan.

### Dominion Steel and Coal Corporation, Limited Wabana Mines Division

The Wabana iron-ore deposit lies off the northwest shore of Bell Island, under Conception Bay on the east coast of Newfoundland. Although production from this deposit started in 1895, production figures were not included in those of Canada until Newfoundland joined Confederation in 1949.

The ore is mined underground by room and pillar methods and conveyed on belts to the surface. The crude ore is crushed and up-graded by heavy-media separation. Mine production is between 2 and 3 million tons annually. The parent company consumes about a fifth of production at its steel plant in Sydney, Nova Scotia. Most of the remainder is exported to Britain and Western Europe.

### By-Product Producers

#### The Consolidated Mining and Smelting Company of Canada Limited

For many years, pyrrhotite concentrate has been recovered from the concentration of lead-zinc ore from the company's great Sullivan mine at Kimberley, British Columbia. Some of this pyrrhotite has been roasted to produce sulphuric acid for the company's fertilizer plant. The resultant iron-oxide residue has also been stockpiled.

In 1959, it was announced that sintering facilities and an electric furnace with an annual capacity of 35,000 tons of pig iron would be built. Construction was completed late in 1960 and production from calcine started early in 1961. In 1962, it was announced that the facility would be expanded to produce 110,000 tons of pig iron a year.