

NAME OF PROPERTY JESSIE (JEDWAY)

LOCATION—Centre of Lot 1861.

Lat. 52°17'37" Long. 131°11'47"

Uncertainty in metres 100.

Mining Division Skeena District Queen Charlotte

County Township or Parish

Lot 1861 Concession or Range

Sec. Tp. R.

OWNER OR OPERATOR AND ADDRESS

Jedway Iron Ore Limited.

DESCRIPTION OF DEPOSIT

The rocks of the area are of the Vancouver Group, locally represented by the Karmutsen and Kunga Formations, both early Triassic in age. The Karmutsen Formation is a thick accumulation of submarine basic lavas, related clastic rocks, dykes, sills and minor limestone. These are conformably overlain by Kunga limestones and argillites. The stratified rocks at the Jessie, except those immediately adjacent to faults, strike within 10° of east-west, with an average dip probably about 50 to 55° north. These rocks are cut by a series of intrusive bodies which include diorite and quartz-diorite of the late Cretaceous, early Tertiary Jedway stock; greenstone; diorite porphyry; rhyolite; andesite and basalt. Post-mineralization dykes are small and insignificant.

The Jessie mineralized bodies are on the northern flank of a north 70° west-trending domal anticline near its intersection by a north 40° west fold and fault structure of presumably younger age. In the upper part of the pit a small anticline-syncline pair was exposed. Faults of moderate and small size are numerous in the pit

see Card 2

Associated minerals or products of value

HISTORY OF EXPLORATION AND DEVELOPMENT

The Jessie mine is on the southeast coast of Moresby Island. It is situated on the ridge between Harriet Harbour and Ikeda Cove about 1½ miles southeast to the entrance to the Harbour at an elevation of 500 feet.

The Jessie is the key claim of a large group of claims acquired by The Granby Mining Company Limited, and its subsidiary, Jedway Iron Ore Limited. Jedway acquired 61 recorded claims, three mineral leases and ten Crown-granted claims. The three mineral leases cover four reverted Crown-grants as follows: Mineral Lease 2, Adonis, Lot 1865 (103 B/6, Fe 4); Mineral Lease 37, Hot Punch, Lot 1976, and Iron Duke, Lot 1977; and Mineral Lease 105, Jessie, Lot 1861. The ten Crown-granted claims were as follows: Moresby Island, Lot 78 (103 B/6, Cu 6) Magnet, Lot 79 (103 B/6, Fe 12); Blue Belle, Lot 80 (103 B/6, Fe 7); Ajax, Lot 81; Sandwich Fraction, Lot 92; Emma, Lot 854; Della, Lot 2597; Lizzie B, Lot 2604; Cypress Queen, Lot 2607; Mattie H. Fraction, Lot 2608. These Crown-granted claims were originally part of the large block owned by J.S. McMillan (see Copper Queen, 103 B/6, Cu 3). In addition, Granby holds 64 recorded claims in the vicinity.

The Jessie showings were located around 1908 by the Trethewey Brothers and "a considerable amount of work" was reported done on them. In 1912, the Jessie was Crown-granted to P. Drummond, the Hot Punch and the Iron Duke to R.R. Hill and the Harriet, Lot 86, to R.A. and J.O. Trethewey. These covered 116.35 acres. These showings are not rich in chalcopyrite so interest in the properties lapsed.

Little attention was paid to the properties until 1956 when Dr. J.M. Black, for Western Canada Steel Limited, explored the area and conducted a magnetometer survey over the showings. In 1959 Silver Standard Mines Limited acquired an option on the Jessie claim from Consolidated Exploration Company Limited, the Limestone, Diorite and Chance fraction claims from Western Canada Steel Limited, and the Hot Punch and Iron Duke from J.M. Black. A diamond drilling programme was started and by 1960, 51 holes totalling 16,364 feet had been drilled on the Jessie and Limestone claims, 22 holes totalling 1,531 feet on the Magnet, 13 holes totalling 1,081 feet on the Adonis and 7 holes totalling 553 feet on the Blue Belle. This outlined 2,500,000 tons.

In January 1961, The Granby Mining Company Limited optioned, and after additional drilling purchased, the property and formed

see Card 2

Mineral Resources Branch, Department of Energy, Mines and Resources, Ottawa.

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HISTORY OF PRODUCTION

Between 1962 and 1968, 19,267,901 tons of ore and waste were mined. 4,341,676 tons of this were milled, producing 2,282,835 tons of concentrates for shipment.

MAP REFERENCES

- Fig. 5, Geology of the Queen Charlotte Islands, (Geol. and Topo.), Sc. 1:125,000; Accomp. Bulletin 54.
- Fig. 2, Surface Geology of the Jessie Ore Zone, (Geol. and Topo.); Accomp. report by Jeffery.
- Fig. 34, (#36), Mineral Resources Map, (Geol.), Sc. 1": 8 miles; Accomp. Bulletin 54.
- *Map 103 B-C (MI), (#25), Moresby Island, Sc. 1:250,000; B.C. Dept. of Mines and Petroleum Resources, 1969.
- *Map 103 B/6 E, Jedway, (Topo.), Sc. 1:50,000.

REMARKS

REFERENCES

- Brown, A.S.; Geology of the Queen Charlotte Islands; Bulletin 54, pp. 14, 198-202, British Columbia Dept. of Mines, 1968.
- Reports of Minister of Mines, British Columbia: 1908, p. 60; 1912, p. 325; 1960, pp. 11-12; 1961, pp. 13-15; 1962, pp. A-47, 11-12; 1963, pp. A-47, 16; 1964, pp. A-53, 46, 330; 1965, pp. A-53, 69; 1966, pp. 53-54; 1967, p. A-57; 1968, pp. 70-71.
- Jeffery, W.G.; Moresby Island; Annual Report, 1959, pp. 11-14, British Columbia Dept. of Mines.
- Young, G.A., and Unglow, W.L.; The Iron Ores of Canada, Vol. I: British Columbia and Yukon; Economic Geology Series No. 3, pp. 39-42, Geol. Surv. of Canada, 1926.
- Sangster, D.F.; The Contact Metasomatic Magnetite Deposits of Southwestern British Columbia; Bulletin 172, pp. 78-80, Geol. Surv. of Canada, 1969.
- Mineral Development Sector; Corporation Files: "Silver Standard Mines Limited"; "Jedway Iron Ore Limited"; "The Granby Mining Company Limited".
- Gilleland, H.B.; Early Production Anticipated by Silver Standard; Western Miner and Oil Review, Vol. 32, October 1959, pp. 110, 112-113.
- Jedway Iron Ore Project; Western Miner and Oil Review, Vol. 35, January 1962, pp. 14-17.
- Jedway Iron Ore Limited; Western Miner and Oil Review, Vol. 35, September 1962, pp. 28-42.
- Mineral Deposit Inventory, Property No. 278, British Columbia Dept. of Mines.
- Geology, Exploration, and Mining; British Columbia Dept. of Mines: 1972, p. 494.

JULY 1973
DEC 1976