PRODUCTIRONPROVINCE ORPROVINCE OUPRODUITTERRITORYTERRITOIRE	British Columbia	N.T.S. AREA 92 L/2 <i>RÉGION DU S.N.R.C.</i>	REFFE 1 <i>RÉF.</i>
NAME OF PROPERTY ZEBALLOS IRON (F.L.) (FORD MAGNETITE) HISTORY OF EXPLORATION AND DEVELOPMENT HISTORIQUE DE L'EXPLORATION ET DE LA MISE EN VALEUR			LEUR
OBJECT LOCATED – F.L. deposit. OBJET LOCALISÉ	The property is loc	ated about 5 miles north of 2 adwaters of Blacksand Creek 1	Zeballos,
UNCERTAINTY 100 m FACTEUR D'INCERTITUDE Mining Division Division minière Lat. 50°03'00" Long. 126°50'10" Lat. District District District	elevations of 2,400 and 2,850 feet. Magnetite bodies outcrop on the F.L. group, and on the Extension, Ridge, and Cordova claims. The showing was discovered in 1936 by A. Ford of Parksville while on a road building project in the area. Anyox Metals Ltd.		
County     Township or Parish       Comté     Canton ou paroisse	obtained a lease on the	property in 1938. By 1951	they had
Lot Concession or Range Lot Concession ou rang		orebody, having completed 4,3 holes and a dip-needle survey	
Sec Tp. R. Sect. Ct. R.	International Iron	Mines Ltd. obtained an option	n on the
OWNER OR OPERATOR/PROPRIÉTAIRE OU EXPLOITANT	Iron Mines Ltd., to bri 1961 a beneficiating pl open pit mining. Produ ation was closed down i extracting ore by open increased more rapidly In September 1963 H	y formed a subsidiary company, ing the property into product ant was built and preparation action started in April 1962. In February 1963 due to the di pit methods; the stripping fa than had been calculated. Empire Ventures Ltd. took over convert it to an underground of	ion. During ns made for The oper- ifficulty in actor the prop-
DESCRIPTION OF DEPOSIT/DESCRIPTION DU GISEMENT The orebody consists of a large lens of relatively pure magnetite which extends in a north-south direction for 1,500 feet, averages 70 feet thick and dips west at about 45° into the wall of Blacksand Creek canyon. It lies along the contact zone between the Zeballos batholith and the Quatsino limestone The hanging wall is a complex of tuff, intrusive andesite, diorite and granodiorite, locally altered to skarn and the footwall is composed largely of limestone. The bedded rocks are folded into a southwesterly plunging anticline. Deposi-	The contract, made sale of 3,000,000 tons fulfilled by Empire Ven this property are contr A main haulage leve elevation and two other and 2,440 feet. Underg feet of drifts, crosscu ground was begun in Jul	by International Iron Mines I of iron concentrate to Japan atures Ltd.; the companies ass colled by Falconbridge Nickel el was established at the 2,28 c adit levels were established ground work during 1963-64 tot ats, and raises. Production f	Ltd., for the is to be sociated with Mines Ltd. 30 foot 1 at 2,375 called 6,714 From under-

drilling.

are folded into a southwesterly plunging anticline. Deposition of the magnetite has been at least partly controlled by zone and carried out development work in the "B" zone to the north of "A" zone. Work consisted of 3,387 feet of drifting and fracturing. Most of the magnetite is massive and very fine grained, but a small amount of it is in octahedral crystals sub-drifting, 1,276 feet of raising and 183,903 feet of long one eighth of an inch to half an inch in diameter. hole drilling.

Associated minerals or products Minéraux ou produits associés

**p.t.o.** Mineral Policy Sector, Department of Energy, Mines and Resources, Ottawa Secteur de la politique minérale, ministère de l'Énergie, des Mines et des Ressources, Ottawa 506058 \*

In 1966 the stopes in "A" zone were mined out and 2 stopes in "B" zone were brought into production. Work included 1,034 feet of drifting and sub-drifting, 1,011 feet of crosscutting, 945 feet of raising and 161,515 feet of long hole drilling.

The development was completed in "B" zone and the 2 stopes in this zone were mined in 1967. Work done included 1,238 feet of drifting, 341 feet of raising and 4,468 feet of diamond

HISTORY OF PRODUCTION/HISTORIQUE DE LA PRODUCTION	REFERENCES/BIBLIOGRAPHIE	
During the period of open pit operation, April 1962 to February 1963, 369,289 tons of ore were treated. From this ore 250,397 tons of iron concentrate were recovered. In 1964, 127,259 tons of ore were treated. From this ore 92,727 tons of iron concentrate were recovered. From 1965 to 1969, 1,437,951 tons of ore were treated. From this ore 1,067,296 tons of iron concentrate were recovered.	Hoadley, J.W.; Geology & Mineral Deposits of the Zeballos-Nimpkish Area, Vancouver Island, B.C.; Memoir 272, pp. 66-68 & Fig. 1, Geol. Surv. of Canada, 1953.	
	Stevenson, J.S.; Geology & Mineral Deposits of the Zeballos Mining Camp, B.C.; Bulletin No. 27, pp. 125-128 & Fig. 2, Dept. of Mines, B.C., 1950.	
	Annual Reports, Dept. of Mines, B.C.: 1951, p. 197; 1952, p. 231; 1960, pp. 103-105; 1961, p. 101; 1962, pp. 100-103; 1963, p. 101; 1964, p. 153; 1965, pp. 230, 232; 1966, pp. 72-73; 1967, p. 73; 1968, pp. A-52, 102.	
	Mineral Policy Sector; Corporation Files: "International Iron Mines"; "Zeballos Iron Mines Ltd."; "Empire Ventures Ltd."; "Falconbridge Nickel Mines Ltd.".	
	Sangster, D.F.; The Contact Metasomatic Magnetite Deposits of Southwestern British Columbia; Bulletin 172, p. 74, Geol. Surv. of Canada, 1969.	
	Geology, Exploration, and Mining; British Columbia Dept. of Mines: 1969, pp. 215-216.	
<ul> <li>MAP REFERENCES/RÉFÉRENCES CARTOGRAPHIQUES Map 1028 A, Woss Lake, Vancouver Island, (Geol.), Sc. 1": 1 mile - accomp. Mem. 272.</li> <li>Fig. 15, Geology of the F.L. (Ford) and Ridge deposits - accomp. Bulletin 1972.</li> <li>Map 4-1974, Alert Bay-Cape Scott, (Geol.), Sc. 1:250,000 - accomp. Paper 74-8, Geol. Surv. of Canada, 1974.</li> </ul>	Muller, Northcote, and Carlisle; Geology and Mineral Deposits of Alert-Cape Scott Map-Area; Paper 74-8, p. 59, Geol. Surv. of Canada, 1974.	
#Sheet 92 L (MI), Alert Bay, Revised Mineral Inventory Map,		
Sc. 1:250,000, British Columbia Dept. of Mines, 1969. Fig. 2, Zeballos Mining Camp, Areal Geology, Sc. 1":16,600' -	HISTORY OF EXPLORATION AND DEVELOPMENT (continued) HISTORIQUE DE L'EXPLORATION ET DE LA MISE EN VALEUR	
accomp. Bull. No. 27, British Columbia Dept. of Mines, 1950. Map 92 L/2, West Half, Woss Lake, Rupert District, (Topo.), Sc. 1:50,000. *Map 92 L/2, Woss Lake, (Topo.), Sc. 1:50,000.	In 1968 the Company held the 13 Crown-granted claims, Lots 1999 to 2011, FL, Extension and FE claims, and the 2 recorded claims, Cordova and Cordova Fraction. Work eonsisted of mining 3 pillars between the stopes in "A"	
REMARKS/ <i>REMARQUES</i> For Ridge zone, see 92 L/2, FE 4.	zone. In June 1969 ore treatment was completed and in August 1969 the mine closed (and the plant was sold).	
Comp./Rev. By		
Comp. /rév. par DMac R LJ	BCI 92 L - 28	
Date 04-66 12-76		