

PRODUCT PRODUIT	ZINC	PROVINCE OR TERRITORY	PROVINCE OU TERRITOIRE	British Columbia	N.T.S. AREA 104 P/6 RÉGION DU S.N.R.C.	REF. ZN 1 RÉF.
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NAME OF PROPERTY
NOM DE LA PROPRIÉTÉ

JOEM, RAIN, DAKO
(HASKIN MTN - southeast side)

OBJECT LOCATED showing - from descriptive data.
OBJET LOCALISÉ

UNCERTAINTY 1,000 m FACTEUR D'INCERTITUDE	Lat. 59°19'55"	Long. 129°28'20"
Mining Division Liard Division minière	District District	Cassiar
County Comté	Township or Parish Canton ou paroisse	
Lot Lot	Concession or Range Concession ou rang	
Sec Sect.	Tp. Ct.	R. R.

OWNER OR OPERATOR/PROPRIÉTAIRE OU EXPLOITANT

DESCRIPTION OF DEPOSIT/DESCRIPTION DU GISEMENT

The mineralization occurs in a northwesterly trending belt of lower Cambrian Atan Group carbonate rocks, shales, and siliceous sedimentary rocks. These westerly dipping strata are locally deformed by small folds and steep faults trending both parallel and transverse to the bedding. An Eocene granite porphyry stock about 4,000 feet in diameter intrudes these rocks on the upper northwest side of the mountain about a mile northwest of the showings. Pyrrhotite, sphalerite, chalcopyrite, some pyrite, galena, and supposedly native bismuth and bismuthinite are found in lenses and disseminated replacements along limestone contacts with chert, siliceous argillite, and granitic dykes or sills. The mineralized limestone beds have been silicified and metasomatized to a dense, fine-grained calc-silicate rock. The upper adit followed a strike length of about 1,300 feet but the geometry and continuity of the mineralization is complicated by faulting. The skarn zone maintained a 40-degree west dip between the upper and lower adits. In the lower adit mineralization

see Card 2

Associated minerals or products - Silver, copper, lead, bismuth.
Minéraux ou produits associés

HISTORY OF EXPLORATION AND DEVELOPMENT HISTORIQUE DE L'EXPLORATION ET DE LA MISE EN VALEUR

The showings are located at approximately 5,200 feet elevation on the southeast side of Haskin Mountain, 1 mile southeast of the summit and some 12 miles east-northeast of Cassiar.

Claims were staked in this vicinity prior to 1906 by John W. Haskins of Victoria, and associates. In 1907 the claims were acquired by James Rosenthal and Adolph Kurz, of Chicago. Some of the claims were surveyed that year and apparently subsequently Crown-granted (Lots 301-303 and 330 on Topo map). Assessment work was reported in 1908 and 1909. The showings were reportedly inspected by A. Brindle, of Victoria in 1921, and restaked by him in 1923.

Prospectors R. Coutts and Emil Krysko in July 1961 staked a number of claims in the Joem and Rain groups, adjacent to the Snow property (104 P/6, Ag 1), and subsequently expanded their holdings to 47 claims almost surrounding the Snow property; the claims cover a molybdenum deposit located on the northwest side of the mountain (104 P/5, Mo 2), and the lead-zinc mineralization described here.

R. & P. Metals Corporation Limited and Iso Explorations Ltd., 80% owned by Iso Mines Limited, in 1968 acquired an option on 1/3 interest each in the 47 claims. Under the agreement the option was transferred to Della Mines Ltd. with the prospectors receiving 1/3 of the Della shares. Additional staking was done to a total of 165 claims. In 1969 Ashland Oil Canada Limited purchased a 1/3 interest in the 2/3 interest held by R. & P. and Iso.

Spartan Explorations Ltd. in 1969 optioned from Della Mines Ltd. 7 claims covering the Della Mines "B" zone. A program of geological mapping, trenching, sampling, and diamond drilling was carried out. Based on 4 drill holes the main zone contains an indicated 250,000 tons with an average grade of 9.41% combined Pb-Zn, 0.1% Cu, and 1.45 ozs/t Ag (Northern Miner, Dec. 25, 1969).

Della Mines began exploration of the "B" zone in 1970. Geological mapping on Joem 1 and 2, a geochemical soil survey (265 samples) covering Kao 4-15, and diamond drilling in 7 holes totalling 3,211 feet on Joem 1 and 2 and Dako 8 was carried out. Underground exploration began in 1971 when the upper adit, elevation 5,060', was driven 1,065 feet and

see Card 2

Reports of Minister of Mines, British Columbia:

1906, p. 60; 1907, p. 56; 1908, p. 54;

1909, p. 55; 1919, p. 85; 1921, p. 74.

Geology, Exploration, and Mining; British Columbia Dept.

of Mines: 1970, p. 34; 1971, p. 57; 1972, p. 561+;

1973, p. 518++; 1974, p. 354; 1976, p. E 199.

Minerals Sector; Corporation Files: "Sparton Explorations

Ltd."; "Della Mines Ltd."; "Iso Mines Limited".

MAP REFERENCES/RÉFÉRENCES CARTOGRAPHIQUES

Map 1110 A, McDame, (Geol.), Sc. 1":4 miles - accomp.

Memoir 319, Geol. Surv. of Canada, 1963.

General geology and geochronology in the Cassiar area, Sc. 1":

3,200', Fig. 1, Canadian Journal of Earth Sciences,

Vol. 9, 1972, p. 1730.

#Map 104 P/6, Good Hope Lake, (Topo.), Sc. 1:50,000.

REMARKS/REMARQUES

Comp./Rev. By Comp./rév. par	DMacR						
Date Date	12-80						

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NAME OF PROPERTY NOM DE LA PROPRIÉTÉ		JOEM, RAIN, DAKO (HASKIN MTN - southeast side)		HISTORY OF EXPLORATION AND DEVELOPMENT (continued) HISTORIQUE DE L'EXPLORATION ET DE LA MISE EN VALEUR		
DESCRIPTION OF DEPOSIT/DESCRIPTION DU GISEMENT (continued)		underground drilling begun. During 1972 the upper adit was extended a further 923 feet and underground drilling to a total of 3,477 feet was completed. A lower adit, at the 4,790' elevation, was begun in 1972 and driven as a crosscut for 419 feet. In 1973 this adit was extended 1,460 feet, reaching the mineralized zone at about 1,450 feet from the portal. Surface diamond drilling was done in 2 holes totalling 589 feet on Rain 2. During 1974 surface diamond drilling was done in 4 holes totalling 450 feet on Tibor 1 claim. In 1976 surface diamond drilling was done in 4 holes totalling 119 metres on Rain 2.				
		Ashland Oil in 1979 changed its name to Kaiser Petroleum Ltd. Iso Mines Limited in September 1979 amalgamated with Highmont Mining Corporation under the latter name. In 1979 Della Mines was owned by R & P Metals Corporation Limited (35%), Kaiser Petroleum Ltd. (35%), Highmont Mining Corporation (23%), and the Vendors (7%).				