PROPUCT	ZINC	-	PROVINCE OR TERRITORY	British (Columbia	N.T.S. AREA	82 M/ 15	REF.	ZN 1
NAME OF PROPERTY RUDDOCK CREEK (IT)				н	HISTORY OF EXPLORATION AND DEVELOPMENT				
OBJECT LOCATED UNCERTAINTY IN Mining Division County Lot Sec OWNER OR OPE	METERS -100. Kamloops	Lat. 51 °46 ¹ 37 [#] District Township or Parish Concession or Range R.	Long. 118°53'57" Kamloops	Gordo The s showi about exten slope feet, T tors ting Limit stake Falco the s drill	The property is on the southern slopes of a ridge west of Gordon Horne Peak, about 60 miles north-northwest of Revelstok The showings, referred to as the E, F, G, M, T, U, V, R, and (showings, occur in steep cliffs over an east-west distance of about 3 miles. The V, R, and Q showings are below treeline, extending down to elevations of 3,100 feet on the steep-gullie slopes of Oliver Creek. The E showing, at an elevation of 7,6 feet, contains the outcrop of the largest mineralized zone. The showings were discovered in September 1960 by prospec- tors M. Donahue and T. Cross as a result of systematic prospec ting of this part of the Monashee Mountains for Ventures Limited. The IT, IN, and TO groups, totalling 102 claims, wer staked on the showings. Ventures Limited, and subsequently Falconbridge Nickel Mines, Limited, drilled, sampled, and mapp the showings in the summers of 1961, 1962, and 1963. Diamond drilling in 1962 totalled 4,246 feet; in 1963 deep drilling, c the basis of the geological mapping, totalled 12,093 feet in 2				
morphic Complex of property are a variable schist, and gneis rocks form highly by granite-pegnat inant folds plung called Phase 1, a Phase 2, are more vicinity of the s divided into two calcareous group. marble layers eac	is in metase of Precambria aried success s, with inter- of folded dise ite and medi- ge 20° to 30° are isoclinal open, and a showings the general grou- the calcar ch more than	an or Later age. sion of mica schi ercalated layers continuous layers ium grained grani b to the west. T l and obscure. T are abundant on a metasedimentary ups - a calcareou recous group conta 10 feet thick, t	f the Shuswap Meta The rocks on the st, calc-silicate of marble. These and lenses enguli tic rocks. The do he earliest folds, he later folds, ca ll scales. In the rocks have been s group and a non- ins three or more he sulphide layer isses. several type	A- holes mater the p Bulle chang Mines durin netic alled carri IT 4 claim inclu in 6 IT 3.	As a result of ial grading 10% ossibility of mu- etin 57, p. 48). ged in 1970 to Fa in 1973 carried carried, a who is limited, a who is 1973 carried cominco Ltd. opt cominco Ltd. opt cominco Ltd. opt claim in 1975 and in 1976. Addi- ded geological m holes and 770 m 4, 8 and 10.	of this work, s combined lead ach more was in The company malconbridge Nice lly owned subst out airborne may 7 line-miles. ioned the properties tres of diamond nd 259.8 metres tional work by mapping, 812 metres etres of X-ray	Several million and zinc was of dicated. (Fyle name (Falconbr ckel Mines Lim idiary of Falc agnetometer an erty from Falc d drilling in s in one hole Cominco durin etres of diamo drilling in 2	h tons of liscover s, J.T., idge) wa ited. W onbridge d electr onbridge one hole one hole on IT 27 g 1977-7 nd drill 5 holes	f ed and as Nesfrol ; romag- e and e on 78 ing on

marble layers each more than 10 feet thick, the sulphide layer, a wide variety of calc-silicate schists and gneisses, several types of biotite schist, and minor calcareous quartzite.

26 km. Drill indicated reserves were reported as approxim-The main mineralized zone (E zone) extends on surface for about ately 5 000 000 tonnes at 2.5% Pb, 7.5% Zn, (Hoy; CIM bulletin, 600 feet along the central part of a fold that has been referred to April 1982, p. 119). as a syncline but is actually a flat compressed crumple open to the

see Card 2

Associated minerals or products of value - Lead, silver, fluorspar.

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

meter survey over 9.2 km and an electromagnetic survey over

511658

HISTORY OF PRODUCTION		

- MAP REFERENCES
- #Ruddock Creek Property, (Geol.), Sc. 1":1,000 feet, Fig. 9, Bulletin 57, B.C. Dept. of Mines.
- Map 12-1964, Big Bend, (Geol.), Sc. 1":4 miles accomp. Paper 64-32.
- Map 82 M/15 W, Scrip Creek, (Topo.), Sc. 1:50,000.
- Map 8507 G, Scrip Creek, (Aeromag.), Sc. 1":1 mile.

R	Ε	F	Ε	R	E	N	С	ES	
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- Fyles, J.T.; The Jordan River Area, Near Revelstoke, British Columbia, A Preliminary Study of Lead-Zinc Deposits in the Shuswap Metamorphic Complex; Bulletin 57, pp. 48-57, British Columbia Dept. of Mines, 1970.
- Wheeler, J.O.; Big Bend Map-Area, British Columbia; Paper 64-32, p. 27, Geol. Surv. of Canada, 1965.
- Reports of Minister of Mines, British Columbia: 1961, p. 84; 1962, p. 89; 1963, pp. 86-88⁺⁺ ·
- **Muraro, T.W.; Metamorphism of Lead-Zinc Deposits in Southeastern British Columbia; in Tectonic History and Mineral Deposits of the Western Cordillera, The Canadian Institute of Mining and Metallurgy, Special Volume No. 8, 1966, p. 244.
 - Geology, Exploration, and Mining; British Columbia Dept. of Mines: 1973, p. 118; 1975, p. E-60; 1976, p. E-75; 1977, p. E 102; 1978, p. E 117.

Exploration in British Columbia; BCDM: 1982. p. 124.

Hoy, Trygve; Stratigraphic and structural setting of Stratabound lead-zinc deposits in southeastern BC; CIM Bulletin, Vol. 75, No. 840, April 1982, p. 119.

Exploration in British Columbia; BCDM: 1982, p. 124.

 REMARKS

 Comp./Rev. By
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 Date
 8-73
 10-78
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BCI 82 M - 82, 83, 84

AUG 1973

NAME OF PROPERTY

RUDDOCK CREEK (IT)

DESCRIPTION OF DEPOSIT (continued)

south. The hinge line of the crumple plunges flatly in the same direction as the common lineation of the area, north 70 degrees west. The ore has been followed down dips of 35 to 40 degrees by diamond drilling to the hinge line, a distance of about 500 feet. The ore in the main zone is as much as 40 feet thick and has the appearance of a greatly thickened layer, repeated in the crumple. A second, much thinner, ore layer lies 15 to 30 feet outside the first.

Detailed mapping and diamond drilling have demonstrated a considerable tonnage of ore containing about 10 per cent zinc in holes drilled within a few hundred feet of the outcrop of the ore. Drilling farther afield, to follow westward down the plunge of the ore in the axial zone of the fold (where it is thickest), failed to locate ore beyond a north-trending fault which apparently drops the ore zone down on the west. The deepest hole was drilled to a depth of some 1,900 feet.

The principal sulphides are sphalerite, pyrrhotite, galena, pyrite, and minor chalcopyrite. They occur as contorted layers and lenses associated with schist, siliceous calc-silicate gneiss, quartzite, marble, and locally barite and fluorite. Very finegrained sphalerite and pyrrhotite with minor galena and rounded quartz eyes up to one-half an inch in diameter are common. Equally common are layers containing medium-grained dark-brown sphalerite with interstitial quartz and scattered quartz augen. Much of the M showing and parts of the G showing contain banded and minutely folded extremely fine-grained sphalerite and pyrrhotite. Galena and sphalerite occur also as scattered grains in marble, calcareous quartzite, and fluorite.

In the sulphide layer, lenses of massive sulphides up to 5 feet thick are common. They are complexly folded within themselves on axes which plunge to the west parallel to the folds in the surrounding rocks. The folds in the sulphides, which are outlined by the banding and by discontinuous layers of schist, gneiss, and quartzite, are irregular in form and usually disharmonic.

It is difficult to estimate the average grade without extensive sampling. Grades estimated to be 20 per cent combined lead and zinc over widths of 5 to as much as 20 feet are found at many places in the E showings and over widths up to 8 feet in the other showings. Lead is less abundant than zinc, and silver amounts to less than 1 ounce per ton.