

PRODUCT	COPPER	PROVINCE OR TERRITORY	British Columbia	N.T.S. AREA	92 I/9	REF. CU 8
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NAME OF PROPERTY	LORNA, DM (TRUTH) (CRESCENT ZONE)		
OBJECT LOCATED - Lorna showing.			
UNCERTAINTY IN METRES	200.	Lat. 50°39'50"	Long. 120°28'00"
Mining Division	Kamloops	District	
County	Township or Parish		
Lot	Concession or Range		
Sec	Tp.	R.	

OWNER OR OPERATOR AND ADDRESS	
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DESCRIPTION OF DEPOSIT
 Drilling on the Lorna group encountered mineralization in an irregular and apparently small body of Cherry Creek breccia within Cherry Creek microdiorite and porphyry and located immediately northeast of a northwesterly trending fault which probably dips to the southwest at 70 to 75 degrees. The fault follows a pronounced drift-filled depression and separates, at least locally, Cherry Creek intrusives to the northeast from Iron Mask microdiorite to the southwest. Appreciable chalcopyrite mineralization with traces of bornite and molybdenite was found in 3 drill holes in reddish Cherry Creek porphyry and breccia extensively replaced by pink potash feldspar.

Associated minerals or products of value Gold

HISTORY OF EXPLORATION AND DEVELOPMENT
 The property is located in the vicinity of Ironmask Lake approximately 5 miles west-southwest of Kamloops. An area roughly identified as lying between Ironmask Lake and the DM shaft (Lat. 50°40'00", Long. 120°29'00") 1½ miles to the west has been held for many years by a number of Crown-grants and various located claim groups.
 The Truth group, comprising the Truth, Dakota, Hope, Jennie, and Pearl claims was owned by A.G. McDonald and Joseph McGee. Development working during the period 1899 to 1906 inclusive included a shaft to 80 feet with a 100 foot drift from it. A second shaft was sunk to 30 feet and an adit was driven more than 100 feet to drain the workings. Ore mined in 1906 was sold to the nearby Iron Mask operation for fluxing purposes.
 The Con Verdant claim (Lot 1341) was Crown-granted to the British Columbia Trust Co. Ltd. in 1905. The May Fraction (Lot 1311) was Crown-granted to A.R. Thomas in 1908. The Sodium Fraction (Lot 4666) and Winty (Lot 4667) claims were Crown-granted in 1941 to W.E. Wintemute and Marcus Smaby, respectively.
 Berens River Mines Limited, a subsidiary of Newmont Mining Corporation, held a number of claims in 1952. An electromagnetic survey was carried out and 5 diamond drill holes put down on the Iron Cap (see 92 I/9, Cu 9) and adjacent claims.
 Graham Bousquet Gold Mines, Limited in 1956 acquired the DM group, in part a restaking of the Truth group, and other claims in the vicinity. Work included geophysical and geochemical surveys. The company amalgamated with several other companies in 1958 to form Cadamet Mines Limited. Noranda Exploration Company, Limited optioned the property in 1958 and carried out further geophysical surveys. The option was given up later in the year.
 Comet Mining Corporation Ltd., incorporated December 1964, optioned the Lorna 1-4 claims from Lorne H. Stephens. The company also acquired the Iron Cap (Mineral Lease No. 21-0) and some 62 located claims in the RO, DM, and Monzo groups. In 1965 Vanco Explorations Limited optioned this and a number of adjacent properties. Work by the company included geological, geophysical and geochemical surveys. Diamond drilling totalling 5,290 feet in 15 holes was carried out on the Lorna claims. The option was terminated in May 1966.

see Card 2
 Mineral Development Sector, Department of Energy, Mines and Resources, Ottawa.

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HISTORY OF PRODUCTION

REFERENCES

Reports of Minister of Mines, British Columbia:
 1899, pp. 605, 730; 1900, p. 890; 1901, p. 1078;
 1904, p. 231; 1905, pp. 194, 254; 1906, p. 174;
 1908, p. 252; 1956, p. 68; 1957, p. 31; 1958, p. 29;
 1959, p. 39; 1962, p. 60; 1967, pp. 144-147 + .

Mineral Policy Sector; Corporation Files: "Comet Industries Ltd."; "Initial Developers Limited"; "Getty Mining Pacific, Limited"; "Canadian Superior Exploration Limited". "Teck Corporation"; "Metall Mining Corporation"; "Davenport Industries Ltd."

Geology, Exploration and Mining; British Columbia Dept. of Mines: 1972, p. 195; 1973, p. 199; 1976, p. E 99; 1977, p. E 154; 1978, p. E 167.

Geological Fieldwork; British Columbia Dept. of Mines: 1977, p. 37.

Exploration in British Columbia; British Columbia Dept. of Mines: 1983, p. 282; 1987, p. C195.

George Cross News Letter: 1987, NO. 169; 1988, No. 181.

MAP REFERENCES

#Geological plan, Comet-Krain Mining Corp., Sc. 1":1,200 ft. (approx.), Fig. 16, Report of Minister of Mines, British Columbia, 1967, p. 145.

Eastern Part of the Iron Mask Batholith, (Geol.), Sc. 1":1 mile, Fig. 13, Report of Minister of Mines, British Columbia, 1967.

Map 887 A, Nicola, (Geol.), Sc. 1":4 miles - accomp. Memoir 249, Geol. Surv. of Canada. (1948).

Map 5216 G, Kamloops, (Aeromag.), Sc. 1":1 mile. (1968).

*Map 92 I/9, Kamloops, (Topo.), Sc. 1:50,000.

REMARKS

Comp./Rev. By	DMacR	DMacR	DMacR	DMacR	DMacR	DMacR	
Date	8-78	02-82	05-84	05-86	04-87	05-89	

NAME OF PROPERTY

LORNA, DM (TRUTH) (CRESCENT ZONE)

HISTORY OF EXPLORATION AND DEVELOPMENT (continued)

Comet Mining and Krain Copper Resources Ltd. amalgamated in May 1966 to form Comet-Krain Mining Corp. Ltd. In October 1966 the company optioned the Con Verdant, May Fraction, Sodium Fraction, and Winty Crown-grants from Isabelle Wintemute. The company name, Comet-Krain, was changed in April 1971 to Comet Industries Ltd. An exploration and development option agreement was made in January 1972 with Initial Developers Corporation Limited, an associate company. Work by Initial on the Lorna, DM and RO groups included geological mapping, magnetometer, electromagnetic and induced potential surveys over 30 line-miles, a geochemical survey, 7,500 feet of diamond drilling in 25 holes, and 6,600 feet of percussion drilling in 22 holes. Work on adjacent groups (EB, ID, and RO 47-52) owned by Initial included magnetometer, induced potential, and electromagnetic surveys over 10 line-miles. This work: "indicated some 2,500,000 tons of mineable reserves assaying 0.5% copper in the Crescent zone" (Western Miner, October 1972, p. 85).

In December 1972 Getty Mining Pacific, Limited optioned 120 contiguous claims in the combined properties (Victor, Iron Mask, Iron Cap and DM (92 I/9, Cu 1, 7-9) held by Comet, Initial and Davenport. Work by Getty in 1973 included an induced potential survey over 58 line-miles, a magnetometer survey over 54 line-miles, 6,839' of rotary drilling in 8 holes, 1,852' of diamond drilling in 2 holes, and 50,897' of percussion drilling in 159 holes. Among these holes, 25 were spaced over a 2 mile by 3 mile area. The option was given up in 1974.

Davenport Oil & Mining changed its name in 1973 to Davenport Industries Ltd. Initial Developers Corporation in May 1974 amalgamated with North Pacific Mines Ltd. under the name Initial Developers Limited.

Canadian Superior Exploration Limited optioned the above combined properties (some 5,400 acres) in 1975. Work in 1976-78 included a magnetometer survey over 89 line-k, 8,064 metres of diamond drilling in 47 holes and 4,211 metres of percussion drilling in 48 holes. The option was terminated in 1978.

Craigmont Mines Limited in February 1981 obtained an exploration agreement on the above four properties and on the adjacent Rainbow property (92 I/9, CU 5) of Pacific Seadrift Resources. Craigmont completed some 19,000' of diamond drilling in a 7 month program. This work indicated insufficient tonnage and the option was terminated in September 1981.

Comet Industries Ltd in 1983 carried out exploration on the combined Lorna, Iron Cap and DM properties, including magnetometer and electromagnetic surveys over 13 km and 294 m of diamond drilling in 3 holes. Crescent zone reserves were reported as possible 1,300,000 tonnes at 0.51% Cu (Initial Developers Limited, Filing Statement 164/86). This property, and the adjacent Iron Mask, Victor and Iron Cap properties were owned in 1986 by Comet Industries Ltd (40%), Davenport Industries Ltd (30%) and Initial Developers Limited (30%). Work reported on the Lorna and DM in 1986 included geochemical sampling (50) and 209 m of diamond drilling in 2 BQ size holes.

Teck Corporation and Metall Mining Corporation, through Afton Operating Corporation, in August 1987 obtained a two year option agreement to earn a 60% interest in the DM property (5 Crown grants, 785 acres) by placing the property in production. Work in 1987-88 included 1968 m of diamond drilling in 23 holes and open pit development. Reserves were reported as 1,070,000 tonnes at 0.46% Cu, 0.206 g/mt Au (BC EMPR, Mineral Exploration Review, 1988, p. 29.) Production began in October 1988, the ore being hauled to the nearby Afton Mill.

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