

PRODUCT ZINC  
PRODUIT

PROVINCE OR PROVINCE OU  
TERRITORY TERRITOIRE

British Columbia

N.T.S. AREA 92 H/5  
RÉGION DU S.N.R.C.

REF. ZN 1  
RÉF.

NAME OF PROPERTY SENECA (LUCKY JIM) (HARRISON)  
NOM DE LA PROPRIÉTÉ

OBJECT LOCATED - small open pit.  
OBJET LOCALISÉ

UNCERTAINTY 200 m Lat. 49°19'02" Long. 121°56'37"  
FACTEUR D'INCERTITUDE Lat. Long.

Mining Division New Westminster District  
Division minière District

County Township or Parish  
Comté Canton ou paroisse

Lot Concession or Range  
Lot Concession ou rang

Sec. Tp. R.  
Sect. Ct. R.

OWNER OR OPERATOR/PROPRIÉTAIRE OU EXPLOITANT

#### DESCRIPTION OF DEPOSIT/DESCRIPTION DU GISEMENT

A Kuroko-type, stratiform, syngenetic massive sulphide deposit is associated with felsic volcanic rocks of the Harrison Lake Formation of Mid Jurassic age. The stratigraphy in general strikes north-south and dips 15 degrees to the east, but is complicated by block faulting.

The T-showing, located 1.5 km northwest of the Seneca deposit, is a brecciated massive sulphide occurrence tentatively diagnosed as occurring in a volcanic vent.

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

This property is located at about the 900 foot elevation on the east side of the Chehalis River, about 5 miles north of Harrison Mills, some 50 miles east of Vancouver.

Information regarding early exploration work is very limited. Geological mapping was reported carried out by Cominco Ltd in 1944 and by New Jersey Zinc Exploration Company (Canada) Ltd in 1950. Noranda Exploration Company, Limited is reported in 1951 to have drilled 443 feet in 12 shallow holes but little information was gained due to poor core recovery. In later years 31 recorded claims were held by Isaac Miller & associates of White Rock. A private company, Mac.-M. & H. Mining Co Ltd was incorporated in November 1960 to carry out exploration work. A drift was driven 470 feet during the period January to May 1961. Limited diamond drilling was reported and some ore was shipped from a small open pit. Work by Noland Mines, Limited during 1964-65 included a reconnaissance self-potential survey and diamond drilling in 2 holes totalling 925 feet. Mitsui Mining and Smelting Company, Limited is reported to have conducted geological mapping concurrent with the work by Noland Mines.

Zenith Mining Corporation Ltd optioned 55 full and 4 fractional claims from Isaac Miller in June 1970. Additional staking was done to a total of 104 claims, including the Lucky Jim, Harrison, Bonanza, Chehalis, Dorothy, and L.H. groups. Initial work by the company included induced potential, magnetometer, and soil geochemical surveys. The induced potential survey located an anomalous area 200 by 400 feet in the vicinity of the small pit. The initial diamond drilling of the anomalous area indicated a complex faulting of the mineralization.

Cominco Ltd in April 1971 optioned the property from Zenith Mining and Isaac and Dorothy Miller. Work in the 1971-1974 period included geological mapping, geochemical rock and soil surveys, an induced potential survey and 17,081' of diamond drilling in 27 holes. Additional work in 1975-76 included a geochemical survey and 1 775 metres of diamond drilling in 8 holes. Cominco Ltd apparently gave up the option in 1976.

Chevron Standard Limited optioned 100% interest in the property (Dorothy 1-10 claims; 140 units) from Zenith Mining by an agreement retroactive to December 1976; Zenith retained a

502215 \* con't card 2

Associated minerals or products - Gold, silver, copper, lead.  
Minéraux ou produits associés

**HISTORY OF PRODUCTION/HISTORIQUE DE LA PRODUCTION**

In 1962, 287 tons of ore were shipped from this property. From this ore 17 ounces of gold, 959 ounces of silver, 7,118 pounds of copper, and 40,657 pounds of zinc were recovered.

**REFERENCES/BIBLIOGRAPHIE**

Mineral Policy Sector; Corporation Files: "Zenith Mining Corporation Ltd"; "Chevron Standard Limited"; "Curator Resources Ltd."

Reports of Minister of Mines, British Columbia: 1961, p. 88; 1962, p. 93.

Monger, J.W.H.; Hope Map-Area, West Half, British Columbia; Paper 69-47, p. 67, Geol. Surv. of Canada.

Geology, Exploration, and Mining; British Columbia Dept. of Mines: 1971, p. 265; 1972, p. 102<sup>+</sup>; 1973, p. 125<sup>++</sup>; 1974, p. 102; 1975, p. E 62; 1976, p. E 77; 1977, p. E 122; 1978, p. E 141.

Economic Geology, Vol. 60, No. 5, 1965, p. 955.

George Cross News Letters: 14/12/83; 10/01/84; 30/03/84; 1986, No. 224.

Exploration In British Columbia; BCDM: 1983, p. 234; 1986, p. C201.

**MAP REFERENCES/RÉFÉRENCES CARTOGRAPHIQUES**

Map 12-1969, Hope (West Half), (Geol.), Sc. 1":4 miles - accomp. Paper 69-47.

Map 737 A, Hope, (Geol.), Sc. 1":4 miles. (1942).

\*Map 92 H/5 W, Harrison Lake, (Topo.), Sc. 1:50,000.

Geology of an area southwest of Harrison Lake, Sc. 1":4,400 ft., Fig. 12 - accomp. Geology, Exploration, and Mining, 1973, British Columbia Dept. of Mines.

#Geology of Seneca Area, Sc. 1":250 ft., Fig. 13 - accomp. Geology, Exploration, and Mining, 1973, British Columbia Dept. of Mines.

**REMARKS/REMARQUES**

Comp./Rev. By Comp./rév. par			DMacR	DMacR			
Date Date	01-72	01-76	03-84	06-88			

PRODUCT PRODUIT	ZINC	PROVINCE OR TERRITORY	PROVINCE OU TERRITOIRE	British Columbia	N.T.S. AREA 92 H/5 RÉGION DU S.N.R.C.	REF. RÉF. Zn 1
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NAME OF PROPERTY NOM DE LA PROPRIÉTÉ	SENECA (LUCKY JIM) (HARRISON)
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**HISTORY OF EXPLORATION AND DEVELOPMENT (con't)**  
**HISTORIQUE DE L'EXPLORATION ET DE LA MISE EN VALEUR**

10% carried net profits interest. The company name (Zenith) was changed in May 1977 to Zenore Resources Inc and in June 1982 to Zenco Resources Inc. In 1977-78, Chevron carried out geological mapping, geochemical surveys comprising 1,695 soil and 151 silt samples, electromagnetic and induced potential surveys and test pitting. Reserves were estimated by Wright Engineers Limited in May 1983 as drill indicated 533,700 tons and inferred 349,500 tons with an average grade of 0.028 oz/t Au, 1.55 oz/t Ag, 0.68% Cu, 0.18% Pb and 4.67% Zn. (George Cross Newsletter, 10/01/84).

Curator Resources Ltd in 1983 optioned from Chevron a 50% interest in the property. Work by Curator in 1983 included 8,400 feet of diamond drilling in 18 holes. Based on this work the measured, indicated and inferred reserves were increased to 1,660,550 tons at 0.024 oz/t Au, 1.2 oz/t Ag, 0.63% Cu, 0.15% Pb, 3.57% Zn (George Cross News Letter, 30/03/84) net profits interest. Chevron in 1977-79 carried out geological mapping, geochemical surveys comprising 1695 soil and 151 silt samples, electromagnetic and induced potential surveys and 2816 m of diamond drilling in 10 holes.

Curator Resources Ltd in July 1982 optioned a 50% joint venture interest from Chevron Canada Resources Limited. Reserves were estimated in May 1983 as drill indicated 533,700 tons and inferred 349,500 tons at 0.028 oz/t Au, 1.55 oz/t Ag, 0.68% Cu, 0.18% Pb, 4.67% Zn (George Cross News Letter, 10/01/84). Work by Curator in 1983-84 included 2558 m of diamond drilling in 18 holes. Based on this work the measured, indicated and inferred reserves were increased to 1,660,550 tons at 0.024 oz/t Au, 1.20 oz/t Ag, 0.63% Cu, 0.15% Pb, 3.57% Zn (International Curator Resources, Filing Statement #200/85). The company name (Curator) was changed in June 1985 to International Curator Resources Ltd. Work in 1985 included geophysical and  
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geochemical surveys and 1374.7 m of diamond drilling in 12 holes; drilling on an IP anomaly led to the discovery of the Vent (T) zone; 5 of the 12 holes were drilled on this zone.

In 1986, BP Canada Inc. was granted an option to earn a 50% interest in the International Curator-Chevron joint venture; work that year included an induced potential survey and 2672 m of diamond drilling in 28 holes on the Vent zone.