

PRODUCT COPPER
PRODUIT

PROVINCE OR TERRITORY PROVINCE OU TERRITOIRE British Columbia

N.T.S. AREA 82 F/14
RÉGION DU S.N.R.C.

REF. Cu 1
RÉF.

NAME OF PROPERTY
NOM DE LA PROPRIÉTÉ WILLA (ROCKLAND) (AYLWIN)

OBJECT LOCATED Mineralized zone
OBJET LOCALISÉ

UNCERTAINTY 300 m
FACTEUR D'INCERTITUDE Lat. 49°52'50" Long. 117°21'50"

Mining Division Slokan 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 steep dipping, arcuate breccia pipe is intrusive into a quartz latite porphyry. Both the pipe and porphyry are contained in a pendant of hornfelsed mafic volcanic rocks of probable Lower Jurassic Rossland Formation. The porphyry is host to quartz molybdenite stockwork mineralization. Chalcopyrite and microscopic native gold occur within the intrusive pipe and at its margins. Three zones of gold-rocks bearing mineralization have been identified.

Associated minerals or products Gold, silver, molybdenum
Minéraux ou produits associés

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

The property is located at approximately 4000 feet elevation on Aylwin Creek, on the east side of Slocan Lake, 4.5 miles south of Silverton.

The Willa claim (Lot 1529) was Crown-granted in 1898 to Willow Gold Mining Co. A shipment of ore was reported from the Rockland claim (Lot 3884) in 1899; the claim was Crown-granted to W. Spinks in 1900. The above claims, along with the Rustler claim (Lot 3885) comprised the Rockland group, which was owned in 1904 by Spinks, Graves, and Watson. Development work to 1904 totalled about 300 feet of drifts in 3 adits, one on the north side of the creek and two on the south. The claims were owned in the early 1930's by W.J. Nicholls, of Spokane, and optioned late in 1936 to Slocan Lake Gold Mining Company, Incorporated, of Spokane; work in 1937 included 106 feet of drifting and 12 feet of raising.

The Little Daisy group, comprising the Little Daisy, Golden, Idler, and Golden Fr. (Lots 7302-7304, 7307 respectively), adjoining the Rockland group on the north, were Crown-granted to N.F. McNaught & associates in 1906. Small shipments of ore were made from the Little Daisy as early as 1904. Further work was reported during 1931-33 by H. Aylwin and A. Jarvis, of Silverton. In 1935, the property, owned by Mrs. McNaught of Silverton, was under lease to R.A. Grimes, of Nelson, and sub-leased to A. Erickson, of Silverton. The workings at that time comprised 3 adits totalling about 335 feet of drifts, crosscuts and winze on the Little Daisy claim. Some development work was carried out during 1935-36 and a small amount of ore shipped.

Northlode Exploration Ltd. in the early 1960's held 17 Crown-granted and recorded claims in the Rockland group, and presumably including the Little Daisy group. Cominco Ltd. held an option on the claims and during 1964-65 carried out geological mapping and 975 feet of diamond drilling in 4 holes, mainly on the Rockland and Willa claims.

Rockland Mining Ltd. was incorporated in May 1967 to purchase Mineral Lease M58 covering the Rockland, Willa and Rustler reverted Crown-grants from D.H. Hawkins, E. Lorentzen and D. Cameron. In September 1967, the company acquired the Little Daisy group from E. McGibbon, who had previously

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HISTORY OF PRODUCTION/HISTORIQUE DE LA PRODUCTION

In 1899, 331 tons of copper-gold ore were reported shipped from the Rockland claim. Production from the Little Daisy for the period 1904-36 totalled 48 tons. From this ore 83 ozs gold and 89 ozs silver were recovered.

REFERENCES/BIBLIOGRAPHIE

Reports of Minister of Mines, British Columbia: 1898, p. 1194; 1899, p. 688; 1900, p. 987; 1904, p. 173; 1905, p. 161; 1906, p. 252; 1931, p. 24; 1932, pp. 26, 179; 1933, p. 206; 1935, p. E 3+; 1936, p. E 50; 1937, p. E 49; 1965, p. 193.

Geology, Exploration, and Mining; British Columbia Dept. of Mines: 1970, p. 450.

Galloway, John D.; Lode Gold Deposits of British Columbia; Bulletin 1, 1932, p. 115, B.C. Dept. of Mines.

Cairnes, C.E.; Descriptions of Properties, Slocan Mining Camp; Memoir 184, p. 116, Geol. Surv. of Canada, 1935.

Mineral Policy Sector; Corporation Files: "Northlode Exploration Ltd."; "Rockland Mining Ltd."; "Riocanex Inc."; "BP Canada Inc."; "Rio Algom Limited"; "Northair Mines Ltd."

MAP REFERENCES/RÉFÉRENCES CARTOGRAPHIQUES

Map 272 A, Slocan, (Geol.), Sc. 1": 1 mile - accomp. Memoir 173, Geol. Surv. of Canada.

Map 1090 A, Nelson (West Half), (Geol.), Sc. 1": 4 miles - accomp. Memoir 308, Geol. Surv. of Canada.

Rockland Group, claim map, Sc. 1": 3000 feet, Fig. 2 - accomp. Report by Phendler, 1970.

Geology and planned drifting, Sc. 3.65 cm: 100 m, Fig. 2-1-2, Geological Fieldwork, 1986, p. 20.

#Plan of mineralized zones and adit, Sc. 1": 150 feet, in Northair Mines Ltd. 1986 Annual Report.

*Map 82 F/14, Slocan, (Topo.), Sc. 1: 50 000.

++Phendler, R.W.; Report on the Rockland Group, Oct. 22, 1970, in Rockland Mining Ltd. Statement of Material Facts, Nov. 20, 1970.

Exploration in British Columbia; BCDM: 1982, p. 70; 1985, pp. A 37, A 57; 1986, pp. A 24, A 58.

Geological Fieldwork, British Columbia Dept. of Mines: 1986, pp. 20-22.

George Cross News Letters: 1985, No. 77, 163, 242; 1986, No. 43, 94, 196, 223; 1987, No. 21, 29, 47, 113, 133, 167; 1988, No. 2, 57.

REMARKS/REMARQUES

Comp./Rev. By Comp./rév. par	DMacR						
Date Date	05-88						

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NAME OF PROPERTY NOM DE LA PROPRIÉTÉ	WILLA (ROCKLAND) (AYLWIN)
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HISTORY OF EXPLORATION AND DEVELOPMENT (con't)
HISTORIQUE DE L'EXPLORATION ET DE LA MISE EN VALEUR

optioned the property from Coast Securities Ltd. In addition, 36 recorded claims and fractions surrounding the Crown-grants were acquired from several owners. A geochemical soil survey and diamond drilling was carried out in 1969 in the vicinity of the Rockland and Willa showings. In October 1970, a joint venture agreement was reached with Western Exploration Company, Limited. Work during 1970-71 included diamond drilling on the Little Daisy showings; Western earned a 5% working interest in the property; the joint venture agreement terminated in 1972.

The Aylwin joint venture, comprised of Rio Algom Exploration Inc. and B.P. Canada Inc., carried out 46 900 feet of surface diamond drilling in 47 holes in the period 1980-84. Drill indicated tonnage was reported as follows:

	<u>Tonnes</u>	<u>Cu(%)</u>	<u>Au (g/t)</u>	<u>Ag (g/t)</u>
Main zone	3 400 000	0.32	1.48	4.8
West zone	1 800 000	0.66	2.93	9.3

(Northern Miner 05/03/85)

At the end of 1984, the property was held by BP Canada (72%) and Rio Algom (28%).

Northair Mines Ltd. in April 1985 obtained an option to earn a 50% interest in the property over 3 years. In 1985-86, a main adit, at 1025 m elevation, was driven 1067 m to the centre of the breccia pipe and 5233 m of underground diamond drilling was done on the East zone. In 1987, a new adit was driven at the 1100 m elevation to explore the Main zone, and a decline was driven from the main adit level to provide lower access to the West zone; fill in drilling was done in 58 holes. Northair's mill was moved from the Brandy mine property and expanded to 500 ton-per-day.