

## NAME OF PROPERTY

AVALLIN (CAYCUSE)

LOCATION as per Geology, Exploration and Mining, 1969.

Lat.	48°48'	Long.	124°25'
	to		to
Mining Division	48°54'	District	Renfrew and Cowichan Lake
County		Township or Parish	
Lot		Concession or Range	
Sec.	Tp.	R.	

## OWNER OR OPERATOR AND ADDRESS

## DESCRIPTION OF DEPOSIT

The rocks in the area are basaltic to dacitic flows with some horizons of tuff and lenses of limestone. These are altered to lenses of amphibolite and skarn. Pyrite, chalcopyrite and some magnetite are associated with these altered rocks. There are two fault sets, one strikes N83°W and dips 80°S; the other strikes north to N10°E and dips 80°-86°E. The former occurred after mineralization while the latter is sparsely mineralized and shows subsidiary shearing. The rocks are folded into open northwest-trending flexures of small amplitude.

Associated minerals or products of value - Iron, molybdenum.

## HISTORY OF EXPLORATION AND DEVELOPMENT

The centre of the Avallin properties is about six miles southwest of the west end of Cowichan Lake. The Group was formed in 1956 and consisted of 78 claims including the old Panther Group which was staked in 1916 and later acquired by NIT-I-NAT Copper Mines, Limited. In 1956 Avallin Mines Ltd. acquired the property. They conducted a geophysical survey and did 1,048 feet of diamond drilling on an anomaly. During 1960, mapping, sampling and a limited amount of surface trenching was done. Cowichan Copper Co. Ltd. obtained control of Avallin Mines Ltd. in 1960 for the purpose of obtaining ore for their mill.

By 1969 the property had been expanded to 535 claims, consisting of the Tan, Tana, Av, Gate and OGM Groups. They were held by Quintana Minerals Corporation who carried out geological mapping and collected and analysed 3,000 soil samples.

It seems possible that the ground covered by the Caycuse Copper property was taken over in the expansion. It was located on the north bank of the Caycuse River, consisting of 62 claims and covering an area of about 3,000 acres. On the banks of the river are found huge blocks of high-grade chalcopyrite which have obviously slid off the steep walls into the river. Visible on the cliffs are three bands of ore separated by a fault. This property was originally staked by F. Hallberg and his son but no work was reported until 1956 when Caycuse Copper Co. Ltd. was incorporated to carry out exploration work. In 1960, Cowichan Copper Co. Ltd. took over effective control of Caycuse.

## HISTORY OF PRODUCTION

## REFERENCES

Reports of Minister of Mines, British Columbia: 1916, p. 314; 1918, p. 299; 1956, p. 124; 1957, p. 72; 1959, p. 138.

Geology, Exploration, and Mining, British Columbia Dept. of Mines, 1969, p. 221.

Western Miner and Oil Review, October 1956, p. 85.

Mineral Resources Branch, Corporation Files: "Avallin Mines Ltd."; "Caycuse Copper Co. Ltd.".

## MAP REFERENCES

Map 17 A, Southern Vancouver Island, (Geol.), Sc. 1": 6 miles; Accomp. Memoir 13, Geo. Surv. of Canada.

Map 92 B-C (MI), Preliminary Mineral Inventory Map, Sc. 1: 250,000; B.C. Dept. of Mines and Petroleum Resources, 1968.

Map 92 C/15 E, Nitinat, (Topo.), Sc. 1:50,000.

Map 92 C/16 E, Cowichan Lake, (Topo.), Sc. 1:50,000.

## REMARKS

JULY 1973