

## NAME OF PROPERTY

ARSENAULT (TOP)

OBJECT LOCATED - Main Ridge.

UNCERTAINTY IN METRES 500. Lat. 59°48'20" Long. 131°42'40"

Mining Division **Atlin** District

County Township or Parish

Lot Concession or Range

Sec Tp. R.

## OWNER OR OPERATOR AND ADDRESS

## DESCRIPTION OF DEPOSIT

The property is underlain by a mixed assemblage of sediments and metasediments of the Big Salmon Complex of Carboniferous, probably mainly Mississippian, age. Disseminated pyrrhotite, pyrite, and chalcopyrite occurs in actinolite-epidote gneiss, in quartzites and calcareous mica schists, and in calcite-quartz skarns where mafic dykes cut the gneiss-marble contact.

## HISTORY OF EXPLORATION AND DEVELOPMENT

The property is located approximately  $4\frac{1}{2}$  miles east of Swift Lake and 7 miles south of the Alaska Highway at mile 753.

Copper mineralization in this vicinity was probably discovered in the late 1940's or early 1950's by Wilf McKinnon and associates while prospecting for Hudson Bay Exploration and Development Company Limited, but no follow up work was reported. Additional prospecting in the vicinity was done by Mr. McKinnon in the late 1950's or early 1960's as an independent prospector.

The Top group of 174 claims was staked by the late Mr. McKinnon, of Whitehorse, early in 1967 and optioned to the Karl Springer interests. Work carried out by the Husky Syndicate, in which Highland-Bell, Limited held a one-third interest, included geochemical soil and stream sediment sampling, geological mapping, and trenching. The option was abandoned in the summer of 1967.

Cyprus Exploration Corporation, Ltd., a subsidiary of Cyprus Mining Corporation of Los Angeles, optioned the claims from Mr. McKinnon in 1970. The option was subsequently transferred to another subsidiary, Bolivar Mining Corporation Ltd. Exploration work in 1970 and 1971 included geological mapping, airborne electromagnetic and magnetometer surveys, ground magnetometer and induced potential surveys, a geochemical survey, and 3,600 feet of diamond drilling in 4 holes. The option was subsequently given up and the claims lapsed.

Part of the area of the former Top claims was restaked in May 1977 as the Arsenault 1-3 claims (60 units) by the AGDL Syndicate of Whitehorse for Rebel Developments Ltd.

HISTORY OF PRODUCTION

REFERENCES

<sup>++</sup>Gabrielse, H.; Geology of Jennings River Map-Area, British Columbia; Paper 68-55, p. 35, Geol. Surv. of Canada, 1969.

Mineral Policy Sector; Corporation Files: "Highland-Bell, Limited" - 1967 Annual Report; "Rebel Developments Ltd."

Geology, Exploration, and Mining; British Columbia Dept. of Mines: 1971, p. 55.

<sup>+</sup>Sawyer, J.B.P.; Report on the Arsenault Claims Copper Prospect; June 1977 - in Rebel Developments Ltd. Statement of Material Facts, April 1978.

MAP REFERENCES

Map 18-1968, Jennings River, (Geol.), Sc. 1:250,000 - accomp. Paper 68-55.

#Arsenault Claim Area, Sc. 1:50,000 - accomp. Report by Sawyer, 1977, p. 11, in Rebel Developments Ltd. Statement of Material Facts, April 1978.

\*Map 104 0/13 E, Smart River, (Topo.), Sc. 1:50,000.

REMARKS

Comp./Rev. By	DMacR						
Date	5-78						