NAME OF PROPERTY

JUNE, MINERVA FRACTION

LOCATION - symbol on Map 255 A.

Lat. 50°26'10" Long. 127°24'30"

Radius of uncertainty - 200 metres.

Nanaimo

District

Rupert

County

Mining Division

PRODUCT

Township or Parish

Lot

Concession or Range

Sec.

Tp.

COPPER

OWNER OR OPERATOR AND ADDRESS

DESCRIPTION OF DEPOSIT

The claims are underlain by Mesozoic limestones and volcanics of the Vancouver Group in contact to the southwest with Coast Range intrusives. Northward from the summit of two small knolls a series of andesite flows and dark green, fine-grained tuffs overlie and are interbedded with limestone. The limestone and volcanics probably strike northwest and dip at low angles to the southwest, although in the general vicinity they are lying in rolling, open folds so that dips in almost any direction might be expected. Southward from approximately the summit of the two knolls the underlying rock seems to be largely intrusive. The intrusive rock is very variable in composition. The earliest phases, which form dykes and sills on the claims, and larger bodies a short distance to the south, are dark green hornblende liorites. Later phases are more acidic, varying from fine-grained, geochemical surveys were reported on the Minerva Fraction claim grey granodiorite to light grey or almost white feldspar porphyry and aplite. The exposures on the claims are probably the marginal phases of a large stock which on Victoria lake and elsewhere to the see Card 2

Associated minerals or products of value - Iron, gold, silver.

HISTORY OF EXPLORATION AND DEVELOPMENT

The property is located one mile west of Alice Lake and one half mile north of the north end of Victoria Lake, about 20 miles south of Port Hardy. The showings are on two knolls whic rise about 200 feet above the surrounding area.

The showings were staked in 1901 and 1902 by W. Grant and C.S. Lippy. Five claims, the Amazon, Helen, June, Olga, and Iron Knob extended, in the above order, westward in a single ro from the Marble River; the claims (Lots 180-184) were Crowngranted to Grant and Lippy in 1904. The Minerva Fraction claim located between the Olga and Iron Knob claims, was staked by D.A. McDonell in about 1903; by 1916 open cutting had exposed mineralization over a length of 60 feet.

Grant and Lippy optioned their claims to The Copper Mountain Mining and Development Co., of Tacoma, Washington, in 1902. Exploration work was done in a large open cut on the hillside. By 1906 a crosscut adit 410 feet long, with 2 drifts totalling 58 feet, had been driven in the hope of intersecting the magnetite-bornite mineralization exposed in the open cut but as this was unsuccessful development was abandoned. A test shipment of 145 sacks of ore was made to the Crofton smelter in 1906. No further activity was reported until 1916 when N.S. Clarke & associates, of Seattle, optioned the property from the company and carried out prospecting and trenching.

The Iron Knob claim (Lot 184) was purchased in 1926 by the owners of the adjacent Alice Lake property (see 92 L/6, Zn 1). The remaining Crown-grants reverted to the Crown and were leased in 1928 by The Consolidated Mining and Smelting Company of Canada Limited. Diamond drilling (about 4,500 feet) gave indications of a fairly large tonnage of low-grade copper ore. Underground exploration was begun in October 1929 and continued into 1930. A crosscut adit was driven 516 feet from which 640 feet of drifting was done. This work encountered important bodies of pyrrhotite carrying some copper and gold-silver values. Small lenses varying from 3 to 5 feet in width and assaying 2 to 5 per cent copper were exposed, but in the mineralized zones the values, principally copper, were too low.

Assessment work, consisting of geological, geophysical, and in 1963 by Consolidated Exploration Company, Ltd.

Geology, Exploration and Mining in British Columbia, 1969, reports the property as held by Alice Lake Mines Limited.

> (con't card 2) Mineral Resources Branch, Department of Energy, Mines and Resources, Ottawa.

cara 2

NAME OF PROPERTY

PRODUET

JUNE, MINERVA FRACTION

DESCRIPTION OF DEPOSIT (continued)

COPPER

south varies from gabbro-diorite to granodiorite. The upper contact of the limestone follows around the lower northern slopes of the two knolls and between this and the intrusives, volcanics or dykes are exposed.

The mineralization consists of magnetite, chalcopyrite, bornite, and occasionally sphalerite and arsenopyrite, and garnet, epidote, chlorite, and other silicates. Quartz veins carrying pyrrhotite and other sulphides were noted in one or two places. The host rocks are volcanics, limestone, and hornblende diorite and the mineralization is evidently confined to a somewhat irregular zone adjoining the main intrusive contact. The hornblende diorite dykes are in part replaced by magnetite, chalcopyrite, and bornite and the sulphides are generally accompanied by small quartz stringers. Mineralization has been found for 2,000 feet along the contact.

Magnetite is found in two different occurrences in this deposit, as vein-like masses and irregular replacements in the volcanic rocks, and as veins, small masses, and spotty impregnations in the diorite.

Only very small amounts of solid magnetite are exposed in this deposit. Most of it is badly mixed with garnet, tremolite, actinolite, pyrite, pyrrhotite, and altered volcanic rocks; the remainder is scattered through the diorite, and associated with quartz stringers containing chalcopyrite and bornite.

HISTORY OF EXPLORATION AND DEVELOPMENT (con't) Work in 1969-1970 included an airborne magnetometer survey over 66 line-miles. In August 1987, Alice Lake Mines acquired a license from Western Forest Products Limited to explore the Amazon, Helen, June and Olga Crown-grants.

MAP REFERENCES

Map 255 A, Quatsino-Nimpkish Area, (Geol.), Sc. 1":2 miles - Accomp. Summary Report 1929, Pt. A.

Map 1737 G, Alice Lake, (Aeromag.), Sc. 1":1 mile. (1963).

*Map 92 L/6 W, Alice Lake, (Topo.), Sc. 1:50,000.

#Mines and Mineral Occurrences of Alert Bay-Cape Scott area, Sc. 1:250,000, Fig. 15 - accomp. Paper 74-8, Geol. Surv. of Canada, 1974.

Map 4-1974, Alert Bay-Cape Scott, (Geol.), Sc. 1:250,000 - accomp. Paper 74-8, Geol. Surv. of Canada, 1974.

REMARKS

(See: Alice Lake, 92 L/6, ZN 1).

REFERENCES

Gunning, H.C.; Geology and Mineral Deposits of Quatsino-Nimpkish Area, Vancouver Island; Summary Report, 1929, Pt. A, pp. 120-122, Geol. Surv. of Canada.

Young, G.A. & Uglow, W.L.; The Iron Ores of Canada, Vol. 1, Economic Geology Series No. 3, pp. 239-242, Geol. Surv. of Canada, 1926.

Reports of Minister of Mines, British Columbia: 1902, p. 234; 1903, pp. 194, 201, 257; 1904, pp. 245, 301; 1905, p. 213; 1906, pp. 183, 200, 201; 1907, p. 151; 1916, pp. 341, 343; 1929, p. 378; 1930, p. 296; 1931, p. 170; 1963, p. 127.

Geology, Exploration and Mining, British Columbia Dept. of Mines: 1969, p. 207.

Mineral Development Sector; Corporation Files: "Cominco Ltd.".

Muller, Northcote, and Carlisle; Geology and Mineral Deposits of Alert-Cape Scott Map-Area; Paper 74-8, pp. 60, 61, Geol. Surv. of Canada, 1974.

George Cross News Letter: 1987, No. 183

APR 1973 **OCT** 1975 DEC 1988