

NAME OF PROPERTY JUNE, STIKINE

OBJECT LOCATED-Hill zone.

UNCERTAINTY IN METERS-100. Lat. 58°15'10" Long. 129°49'30"

Mining Division Liard District Cassiar

County Township or Parish

Lot Concession or Range

Sec Tp. R.

OWNER OR OPERATOR AND ADDRESS

Deas Lake Mines Ltd.

#### DESCRIPTION OF DEPOSIT

The country rocks are Upper Triassic or earlier volcanic andesite and basalt flows, tuffs, and breccias with some sediments intruded by small stocks and sills of porphyritic andesite and basalt. The property is adjacent to the contact of the HOTAILUH batholith, a large plutonic body of hornblende quartz monzonite and granodiorite. Locally the geology remains obscure due to the extensive overburden and the alteration of the rocks exposed. In natural exposures and trenches in the vicinity of the mineralization the rocks consist of porphyritic hornblende andesite, andesitic greenstone, volcanic breccia, and tuff. All the volcanic rocks are intruded by fine grained feldspar porphyry. Carbonate is widespread and sericite is patchily distributed. Chlorite occurs on fractures in the volcanic rocks together with veins of tourmaline. The mineralization consists of dispersed and disseminated chalcopyrite with a little bornite. The sulphides occur in the altered andesitic greenstones, and the dark-green porphyritic andesites in blebs, wisps, and along fracture planes. Pyrite occurs in minor to negligible amounts. Magnetite is noticeable in all the volcanic rocks, and in places there appears to be strong concentrations of magnetite with chalcopyrite.

Associated minerals or products of value

#### HISTORY OF EXPLORATION AND DEVELOPMENT

The property is located at Lower Gnat Lake, about 16 miles southeast of Dease Lake. Mineralization has been explored in the "Creek Zone", just north of the lake, and in the "Hill Zone", about  $\frac{3}{4}$  of a mile northeast of the lake.

Mineralization was first discovered in 1960, and intermittent work was done up to 1964. Lytton Minerals Limited, which was controlled and managed by The Patino Mining Corporation, optioned the June and Stikine groups from W.H. Gross, W.S. Kennedy, and A.G. Anderson in about 1964. Additional staking was done to a total of 40 claims. Work by the company in 1965 included geological mapping, geophysical and geochemical surveys, and 4,600 feet of diamond drilling in 10 holes. This work located widespread low-grade copper mineralization.

Mitsui Mining and Smelting Company, Limited, was given the option to acquire an interest in the property and under the terms of the agreement a new company, Deas Lake Mines Ltd., was incorporated in January 1967; ownership was: Lytton 44%, Mitsui 44%, and the original optioners 12%. Work during the period 1966-1968 included induced potential, magnetometer, and geochemical surveys, and 52,662 feet of diamond drilling in 92 holes. This work indicated reserves of approximately 33,500,000 tons averaging 0.389% copper, including 20% dilution with wallrock grading 0.15% copper (D.W. Asbury 24/10/72, CSE List Stat 7/11/72, Lytton Mnrls L).

In December 1980, Lytton sold its interest in Deas Lake Mines to Hudson Bay Mining and Smelting Co., Limited; the Deas Lake Mines charter was cancelled in 1987.

Mineral Resources Branch, Department of Energy, Mines and Resources, Ottawa.

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## HISTORY OF PRODUCTION

## REFERENCES

Jeffery, W.G.; June, Stikine, September, etc.; Report of  
Minister of Mines, British Columbia, 1966, p. 19.

Reports of Minister of Mines, British Columbia: 1965, p. 15;  
1967, p. 27; 1968, p. 36.

Mineral Policy - Sector; Corporation Files: "Lytton  
Minerals Limited"; "Deas Lake Mines Ltd."; "The Patino  
Mining Corporation".

Geological Fieldwork, British Columbia Dept. of Mines: 1977,  
p. 43.

## MAP REFERENCES

\*Geology at Gnat Lake, Sc. 1":800 ft., Fig. 2, Report of  
Minister of Mines, British Columbia, 1966.

Map 29-1962, Cry Lake, (Geol.), Sc. 1":4 miles.

\*Map 104 I/5 W, Tanzilla Butte, (Topo.), Sc. 1:50,000.

Gnat Pass deposit, simplified Geology, Sc. 1": 530 feet,  
Figure 9, Geological Fieldwork, 1977, p. 44.

## REMARKS

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