

PRODUCT

COPPER

PROVINCE OR  
TERRITORY

British Columbia

N.T.S. AREA 92 F/4

REF. Cu 2

NAME OF PROPERTY HETTY GREEN (BOUNCE, COPPER KING)  
(SUNWEST MINERALS: MAIN SHOWINGS - see also Cu 3, Cu 4, Cu 5)

LOCATION—Center of property.

Uncertainty in metres - 300. Lot. 49°14'33" Long. 125°35'36"

Mining Division Alberni District Clayoquot

County Township or Parish

Lot Concession or Range

Sec. Tp. R.

OWNER OR OPERATOR AND ADDRESS

## DESCRIPTION OF DEPOSIT

A broad, partly alluvial flat at the head of Deer Bay terminates northward against a low transverse ridge. To the east and west the flat passes into moderate mountain slopes. The valley flat is underlain by an intrusive complex consisting of a greenstone complex and successive intrusions of diorite, granodiorite, minor granite and porphyry. The lower walls of the valley consist predominantly of greenstone and crystalline limestone. These rocks are intruded by scattered diorite bodies which are generally sill-like in form. Small lenses of limestone are scattered in the valley flat.

The intrusive complex is irregularly altered to or veined by garnet-epidote-amphibolite-calcite skarn. The limestone is little altered. On the Hetty Green showings the altered rocks contain pockets of massive chalcopyrite, magnetite and pyrrhotite, a little powellite and malachite and sparsely disseminated molybdenite.

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

## HISTORY OF EXPLORATION AND DEVELOPMENT

These showings lie astride the second bend of Tofino Creek about one mile above its mouth at an elevation of about 200 feet. The property probably includes Crown-grant Lots 1105, 1106 and 1107, as shown on NTS Map 92 F/4, east half.

The ground was first worked in 1898 as the Hetty Green Group of seven claims including the Jay Gould, Lily May, Great Western, Rothschild and Hetty Green. Messrs. Ward and Thomson owned the properties until 1910 when the claims were allowed to lapse. During this period some open cuts were made and several small adits were driven. In 1905 a wagon road was built to tide-water and 215 tons of ore grading about 7% copper were shipped to the Ladysmith smelter. During 1907 the group was bonded to New York investors.

In 1916 Mr. McKay staked the Bounce claim which covered part of the ground formerly occupied by the Hetty Green Group. He extended an adit and made new open cuts. The claim subsequently reverted to the Crown.

In 1928, D.A. Grant restaked the ground as the Copper King Group which comprised the Copper Queen and Copper King Nos. 1, 2 and 3 claims. Assessment work was carried out on the property.

Since 1950 the ground covered by this and other properties in the area (see 92 F/4, Cu 3, 4, 5, 6, Ni 1) has been staked several times by various owners. Messrs. Hansen and Buckland located the Foremost and Clear Creek Groups in 1952-53. In 1953 Mr. Buckland organized Clear Creek Copper Mines Ltd. and Taiga Mines Ltd. to explore and develop the properties. A new adit was driven at the south end of the old White showing and some drilling was done there and on the Tofino Group. In 1960 the property was reacquired by Mr. Hansen and in 1962 the claims were transferred to Sunwest Minerals, Limited. At this time the property consisted of 58 recorded claims in three blocks. The principal block of 34 claims and fractions lies along the lower courses of Tofino and Onad Creeks. It includes the Lida, Foremost, Foremost Copper, Canyon, Clear Creek, Velvet and Copper Creek Groups. The other blocks comprise the Tofino Group (Cu 6) and the Tofino Nickel Group (Ni 1). Work done on the properties until 1969 included diamond drilling in ten holes for a total of 2,020 feet, bulldozer stripping and trenching. In 1966, Falconbridge Mines Limited conducted geophysical and geochemical surveys.

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

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## HISTORY OF PRODUCTION

In 1905, 214 tons of copper ore were shipped from the old Betty Green property to the Ladysmith smelter. Two ounces of gold, 168 ounces of silver, and 29,379 pounds of copper were recovered.

## REFERENCES

- Eastwood, G.E.P.; Tofino Inlet; Report of Minister of Mines, British Columbia, 1963, pp. 111-116.
- Reports of Minister of Mines, British Columbia: 1898, pp. 1133; 1899, pp. 788, 792; 1900, p. 924; 1901, p. 1098; 1902, p. 232; 1905, pp. 26, 212; 1906, p. 188; 1907, p. 148; 1909, p. 147; 1910, p. 152; 1911, p. 192; 1913, p. 280; 1916, pp. 333, 363; 1928, p. 371; 1930, p. 294; 1931, pp. 167, 168; 1955, p. 78; 1961, p. 104; 1962, p. 111; 1966, p. 74; 1967, p. 75.
- Geology, Exploration and Mining; British Columbia Dept. of Mines: 1969, pp. 217-218.
- Muller, J.E., and Carson, D.J.T.; Geology and Mineral Deposits of the Alberni Map-Area; Paper 68-50, pp. 36, 38, 41; Geol. Surv. of Canada, 1968.
- Mineral Resources Branch; Corporation Files: "Taiga Mines Ltd."; "Clear Creek Exploration Co. Ltd."

## MAP REFERENCES

- Map 17-1968, Alberni, (Geol. & Topo.), Sc. 1:250,000; Accomp. Paper 68-50.
- Map 196 A, Vancouver, (Geol.), Sc. 1":8 miles; Geol. Surv. of Canada, 1928.
- Properties referred to in the general Tofino area, Sc. 1":6 miles; Fig. 9, Eastwood, 1963, p. 110.
- Map 92 F (MI), Alberni, Sc. 1:250,000; B.C. Dept. of Mines and Petroleum Resources, 1962.
- \*Map 92 F/4, East, Tofino, (Topo.), Sc. 1:50,000.

## REMARKS

BCI 92F-15

JULY 1973