

PRODUCT COPPER

PROVINCE OR TERRITORY

British Columbia

N.T.S. AREA 92 L/7

REF. CU 4

NAME OF PROPERTY

BOB, HAB (BONANZA MINE)

OBJECT LOCATED - Bob 9, 10 claim.

UNCERTAINTY IN METRES 250. Lat. 50°18'40" Long. 126°45'40"

Mining Division Nanaimo District Rupert

County Township or Parish

Lot Concession or Range

Sec Tp. R.

OWNER OR OPERATOR AND ADDRESS

R.A. McIver and Imperial Oil Ltd.

DESCRIPTION OF DEPOSIT

Upper Triassic Karmutsen basalts have been cut by a granodiorite pluton. Faulted, northwest-trending inliers of inter-volcanic limestone (Quatsino Formation) and skarn are found both in the intrusive and the volcanic rocks.

Chalcopyrite, pyrite, magnetite, and minor pyrrhotite are associated with garnet epidote skarn.

HISTORY OF EXPLORATION AND DEVELOPMENT

The showings are located  $1\frac{1}{2}$  miles south of Bonanza Lake between elevations of 1,000 and 2,500 feet.

C.F. Millar Limited optioned 34 claims from R.A. McIver of Kitimat in 1967. Percussion drilling of 36 holes totalling 1,414 feet was done.

In 1968 M.B.H. Developments Ltd. carried out open cutting, stripping and percussion drilling of 30 holes totalling 3,000 feet on Bob 9 and 10 claims. A total of 2,265 tons of ore were mined from surface workings. In 1970 the company stockpiled 3,500 tons of ore.

In 1972 Imperial Oil Ltd. staked the Hab 1 to 11 claims. The company carried out line-cutting, and geological, geophysical and geochemical surveys.

In 1973 Imperial Oil Ltd. optioned McIver's claims. The property then included the Bob 1 to 13, 15 to 24, 26 to 31, 33, and Hab 1 to 48 claims. Geological mapping, line-cutting, and 32 line-miles of EM, magnetometer and geochemical soil and silt surveys were carried out. In 1974 the company did surface diamond drilling of five holes totalling 912 feet on Bob 3 and 11.

Associated minerals or products of value - Iron, silver.

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Mineral Development Sector, Department of Energy, Mines and Resources, Ottawa.

## HISTORY OF PRODUCTION

In 1968, 2,265 tons of ore were shipped. From this ore 1,323 ounces of silver and 161,293 pounds of copper were recovered.

## REFERENCES

- Reports of Minister of Mines, British Columbia: 1967, p. 71; 1968, p. 100.
- Geology, Exploration, and Mining; British Columbia Dept. of Mines: 1970, p. 274; 1972, p. 290; 1973, p. 258; 1974, pp. 213-14.
- Muller, Northcote, and Carlisle; Geology and Mineral Deposits of Alert-Cape Scott Map-area; Paper 74-8, pp. 62, 63, Geol. Surv. of Canada, 1974.
- Mineral Development Sector; Corporation Files: "Imperial Oil Ltd."
- Hoadley, J.W.; Geology and Mineral Deposits of the Zeballos-Nimpkish Area, Vancouver Island, British Columbia; Memoir 272, Geol. Surv. of Canada, 1953.

## MAP REFERENCES

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

#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 92 L/7 W, Nimpkish, (Topo.), Sc. 1:50,000.

## REMARKS

Comp./Rev. By	LJ	LJ					
Date	10-75	12-76					

BCI - 92 L - 134, 164, 254, 255