

PRODUCT

COPPER

PROVINCE OR
TERRITORY

British Columbia

N.T.S. AREA 92 L/12

REF. CU 19

NAME OF PROPERTY

HEP

OBJECT LOCATED - showing.

UNCERTAINTY IN METRES 250.

Lat. 50°41'40" Long. 127°53'20"

Mining Division Nanaimo

District Rupert

County

Township or Parish

Lot

Concession or Range

Sec

Tp.

R.

OWNER OR OPERATOR AND ADDRESS

BHP-UTAH MINES LTD.

DESCRIPTION OF DEPOSIT

The area is underlain by Jurassic Bonanza volcanics and Triassic Parson Bay sediments cut by stocks, plugs, and dykes of Island Intrusions. Pyrite and minor chalcopyrite and molybdenite occur as quartz-filled fractures and as disseminations in andesite with argillic, carbonate and epidote alteration.

HISTORY OF EXPLORATION AND DEVELOPMENT

The property is located near Hepler Creek, 2 miles southwest of Nahwitti Lake between 1,300 and 1,800 feet elevation.

In 1962, Utah Construction and Mining Co. acquired claims over a showing believed to be the Bowerman showing (see 92 L/12, CU 17). Utah held 86 claims, the Hep 1-85 claims, and Hep 1 Fraction, in 1966 and 1967. The Company carried out a magnetometer survey and diamond drilling of 27 holes for a total of 2,440 feet, in the 2 years.

In 1968, Utah held the Hep group of 101 claims and the Expo group of 711 claims. (See 92 L/12, CU 18). Between 1968 and 1970 the Company carried out, over the area, geological mapping, geochemical, magnetometer, and induced polarization surveys, and 750 feet of diamond drilling in 2 holes on Hep 1 and 2.

The Company became Utah Mines Ltd. in 1971. Work done in the area from 1971 to 1973 included magnetic, electro-magnetic and induced polarization surveys. Diamond drilling of 2,137 feet in 4 holes was done on the Hep group.

In 1974 a seismic survey of 0.3 line-mile was carried out on Hep 93 and 100. Diamond drilling was done on Hep 59 and 98; drilling was reported in 1977 on Hep 54, 59, 100.

The Hep zone of copper-molybdenum mineralization, located at the intersection of two shear zones, is estimated to contain approximately 50,000 tons grading 0.80% Cu (H.M. Jones & Assoc. Inc., Expo Property Summary Report, July 11, 1988-in Moraga Resources Ltd. Prospectus, 26/07/88).

Exploration for copper continued over adjacent properties until 1981 when the emphasis shifted to gold. The company name (Utah) was changed in July 1987 to BHP-Utah Mines Ltd.

Associated minerals or products of value - Molybdenum.

120329

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

HISTORY OF PRODUCTION

REFERENCES

Reports of Minister of Mines, British Columbia: 1965, p. 244; 1966, pp. 64-65; 1967, p. 68; 1968, p. 95.

Geology, Exploration, and Mining; British Columbia Dept. of Mines: 1969, p. 202; 1970, p. 262; 1971, p. 323; 1972, p. 304; 1973, p. 262; 1974, p. 218.

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

Mineral Development Sector; Corporation Files: "Acheron Mines Ltd."; "Moraga Resources Ltd.".

Exploration in British Columbia; BC EMPR: 1977, p. 174.

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/12, Quatsino, (Topo.), Sc. 1:50,000.

Map 1734 G, Quatsino, (Aeromag.), Sc. 1":1 mile.

Expo Project, Cu, Mo, Au occurrences - George Cross News Letter, 1988, No. 225.

REMARKS

Comp./Rev. By	LJ	LJ	DMacR				
Date	10-75	12-76	12-88				

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