

NAME OF PROPERTY

OWL (COPPER QUEEN)

OBJECT LOCATED - "C" Zone

UNCERTAINTY IN METRES 300.

Lat. 50°23'50" Long. 122°47'50"

Mining Division Lillooet

District

County

Township or Parish

Lot

Concession or Range

Sec

Tp.

R.

OWNER OR OPERATOR

DESCRIPTION OF DEPOSIT

Map 13-1973 indicates the area is underlain by Upper Triassic volcanics and sediments of the Pioneer Formation, intruded by quartz diorite. The sedimentary rocks underlie the valley of Owl Creek, and are flanked by younger granite and granodiorite on the northeast. A tongue of granite extends into the bank from the west, and several stocks of diorite or quartz diorite intrude it. Several directions of shearing are evident or inferred, the dominant one paralleling the axis of Owl Creek valley. The diorite stocks are altered along shear zones and contain considerable pyrite and subordinate chalcopyrite and molybdenite at shear zone intersections.

Chalcopyrite, molybdenite, and pyrite with minor magnetite and bornite occur as disseminations, blebs, and fracture-fillings in quartz diorite, feldspar porphyry, and dioritized volcanic rocks.

Associated minerals or products - Molybdenum.

HISTORY OF EXPLORATION AND DEVELOPMENT

This property is located on Owl Creek, a southeasterly flowing tributary of the Birkenhead River, about 5 miles north of Pemberton.

Four showings, the A, B, C, and D, extend northwesterly along Owl Creek over a distance of about 2½ miles. The lower showing (A) was originally staked prior to 1913 as the Copper Queen group. In 1916 the property (over 12 claims) was owned by Hugh & Ken Ross, and George Moore. The workings at that time consisted of an adit about 230 feet long. On the Iron Man claim group, adjoining on the north, the workings consisted of a shallow shaft.

The Copper Queen Mining & Smelting Company, Limited, was incorporated in November 1916 to acquire the property. Limited exploration work was carried out by the company during 1917-1918. No further activity was reported until 1928 when the Britannia Mining and Smelting Co., Limited, optioned the property. Exploration work on the "A" showing included diamond drilling in 3 holes; the option was subsequently dropped. The company charter, Copper Queen Mining, was surrendered in 1932.

The ground was restaked by L.H. Harrison, of Garibaldi, for The Mining Corporation of Canada Limited in 1963. A program of geological mapping, trenching, and silt sampling was reported carried out at that time. In 1967 these claims were transferred to Mr. Harrison.

By an agreement of October 1968 Pine Lake Mining Co. Ltd. optioned the property from Mr. Harrison and J.S. Scott. The property was expanded to 146 claims in the Owl, OC, KB, OL, OLS, OLN, OCS, and BO groups. Work during 1969-1970 on the "A" and "C" zones included induced potential, magnetometer, and soil geochemical surveys, and 9,072 feet of diamond drilling in 11 holes. Based on this work the "C" zone has an indicated potential of 10 to 20 million tons grading 0.3 to 0.4% copper (Northern Miner, Dec. 17, 1970). A drill hole on the "A" zone cut 600 ft. assaying 0.2% copper.

Silver Standard Mines Limited carried out geological mapping over the OC and KB claims in 1971. Pine Lake Mining Co. Ltd. during 1972 carried out a geochemical soil survey (41 samples) and 5,560 ft. of percussion drilling in 19 holes on KB 6, OL 2 and 4, and OLN 6. Further work by the company in 1973 included geological mapping, a magnetometer

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HISTORY OF EXPLORATION AND DEVELOPMENT (continued)

survey over 7 line-miles, a VLF electromagnetic survey over 1.7 line-miles, and a geochemical soil survey comprising 520 samples.

Utah Mines Ltd. optioned the property from the owners, J. Scott and L. Harrison, in 1974. Work by Utah included a time-domain induced potential survey over 13.28 line-miles, a ground magnetometer survey over 22.7 line-miles, a geochemical soil survey (425 samples), and 1,800 feet of diamond drilling in 4 holes.

REFERENCES

Reports of Minister of Mines, British Columbia: 1913, p. 249; 1916, pp. 270-272; 1917, p. 231; 1918, p. 233; 1928, p. 219.

+Cairnes, C.E.; Pemberton Area, Lillooet District, British Columbia; Summary Report 1924, Pt. A, p. 90, Geol. Surv. of Canada.

Camsell, C.; Reconnaissance Along The Pacific Great Eastern Railway Between Squamish and Lillooet; Summary Report 1917, Pt. B, p. 19, Geol. Surv. of Canada.

++Bacon, W.R.; Report on the Harrison Property of Pine Lake Mining Co. Ltd., February 11, 1972 - in Pine Lake Mining, Statement of Material Facts, 29/2/72.

Mineral Policy Sector; Corporation Files: "Pine Lake Mining Co. Ltd."

Geology, Exploration and Mining; British Columbia Dept. of Mines: 1969, p. 188; 1970, p. 227; 1972, p. 281; 1973, p. 249+++; 1974, p. 203.

MAP REFERENCES

- Map 13-1973, Pemberton, (East Half), (Geol.), Sc. 1:250,000 - accomp. Paper 73-17, Geol. Surv. of Canada.
- #Pine Lake Mining, Harrison Property, (Geol.), Sc. 1": $\frac{1}{2}$ mile, Fig. 7 - accomp. Rept. by Bacon.
- Map 8550 G, Pemberton, (Aeromag.), Sc. 1":1 mile.
- *Map 92 J/7, Pemberton, (Topo.), Sc. 1:50,000.

REMARKS

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| Comp./Rev. By | DMacR | | | | | | |
| Date | 11-78 | | | | | | |