

NAME OF PROPERTY **ALICE LAKE**

LOCATION - of old crosscut adit.

Radius of uncertainty - 200 metres. Lat. 50°26'35" Long. 127°25'

Mining Division **Nanaimo** District **Rupert**

County _____ Township or Parish _____

Lot _____ Concession or Range _____

Sec. _____ Tp. _____ R. _____

OWNER OR OPERATOR AND ADDRESS

DESCRIPTION OF DEPOSIT

Outcrops are scarce, but in the general vicinity crystalline dark grey to white limestone is the predominant rock. There are also many dykes and sills which vary in colour from green to white and in composition from diorite and andesite to felsite. The limestone lies in a series of gentle folds, dipping at low angles to the northeast or southwest and striking to the northwest. A granodiorite stock of the Coast Range intrusives is exposed to the south, on and south of the adjoining June group. The adit follows a bedded replacement in limestone which is from a few inches to 4 feet wide with the exception of one place where the ore petered out for a few feet. The ore, consisting of well-crystallized pyrite, galena, and sphalerite, with more or less coarse calcite, follows along the drift about breast high roughly following the bedding but cutting across it in detail in many places. Sometimes the sulphides have entirely replaced the limestone across 2 or 3 feet, at others they are disseminated in it rather sparingly, and they frequently exhibit a nodular zoned structure with an outer p.t.o.

Associated minerals or products of value - Lead, silver.

HISTORY OF EXPLORATION AND DEVELOPMENT

The original showings are located at the 1,000 foot elevation about 1 mile west of Alice Lake, and south of Sorenson Creek, approximately 20 miles south of Port Hardy. The June property adjoins on the southeast.

The Alice Lake Group, comprising the Alice Lake, Lucky Strike, Paystreak, and Galena claims, was staked in 1924 by W Clancy and W.D. Kinsey, of Quatsino. The initial exploration work was done in open cuts along the northeasterly slope. During 1925 a crosscut adit was driven 95 feet but failed to intersect the mineralized zone. In 1926 a drift adit was begun to follow the ore zone. Three additional claims were acquired in 1926; the Iron Knob (Lot 184), which was formerly part of June property, was purchased; the Cedar and Hornet claims were apparently acquired by staking. Exploration work by the owner continued until about 1933; the drift adit had by then been extended to a length of about 100 feet and included one raise and a shallow winze. Mr. Clancy, of Jeune Landing, still owns the property in 1951.

Alice Lake Mines Limited, incorporated September 1955, acquired 56 claims. Limited geophysical surveys and diamond drilling were reported in the early 1960's. In 1969 the property comprised the Iron Knob Crown grant (Mineral Lease M- and recorded claims in the Clancy, AJ, and other groups. During 1969 an airborne magnetic, electromagnetic, and radioactivity survey was flown over 66 line-miles covering an area 16,000 by 11,000 feet. Two anomalies, designated No. 1 and No. 2, were located about 1 mile apart in a north-south direction. Drilling on No. 1 anomaly was begun in 1969. Hole No. 12 returned a weighted average of 5.1% zinc, 1.51% lead, and 0.82 ounce of silver per ton over 11 feet. Hole No. 14 gave a weighted average of 13.38% zinc over 13 feet. Geophysical work in 1970 located a large anomaly adjacent to the area drilled in 1969. Additional claims were staked to a total of 161 recorded claim (See 92 L/6, ZN 2; 92 L/6, CU 2).

Ground adjacent to the Clancy workings was staked as the Alm group in 1980. Underground diamond drilling in 1982 to test the geology surrounding the main adit level totalled 273.7 m in 8 AQ holes.

HISTORY OF PRODUCTION

MAP REFERENCES

- Plan of Alice Lake Group, (Geol. and workings) Sc. 1": 60 feet, Figure 7, Report by Gunning.
- Alm Group, Claim map, Sc. 1: 20 000, Map 2 - accomp. report by Lorimer.
- Map 255A, Quatsino-Nimpkish Area, (Geol.), Sc. 1":2 miles - Accomp. Summary Report 1929, Pt. A.
- Map 1737 G, Alice Lake, (Aeromag.), Sc. 1":1 mile. (1963).
- Map 92 L/6 W, Alice Lake, (Topo.), Sc. 1:50,000.
- 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 4-1974, Alert Bay-Cape Scott, (Geol.), Sc. 1:250,000 - accomp. Paper 74-8, Geol. Surv. of Canada, 1974.

DESCRIPTION OF DEPOSIT (continued)

Layer of pyrite surrounding a core of galena. The ore in the zone is similar to that in the adit except that it contains some arsenopyrite.

REFERENCES

- Gunning, H.C.; Geology and Mineral Deposits of Quatsino-Nimpkish Area, Vancouver Island; Summary Report 1929, Pt. A, pp. 135-138, Geol. Surv. of Canada.
- Reports of Minister of Mines, British Columbia: 1924, p. 228; 1925, p. 273; 1926, p. 305; 1927, p. 346; 1928, p. 374; 1929, p. 377; 1930, p. 296; 1932, p. 206.
- Geology, Exploration and Mining, British Columbia Dept. of Mines: 1969, p. 207; 1982, p. 227.
- Mineral Development Sector; Corporation Files: "Alice Lake Mines Limited".
- Tests on Gold-Silver-Lead-Zinc Ore From the Alice Lake Group, Quatsino Sound, Vancouver Island; Publication No. 736, Report No. 438, pp. 53-58, Mines Branch, Ottawa, 1932.
- Muller, Northcote, and Carlisle; Geology and Mineral Deposits of Alert-Cape Scott Map-area; Paper 74-8, p. 60, Geol. Surv. of Canada, 1974.
- Lorimer, M.K.; Engineering Report on the Alm Group, 24/08/80, in Alice Lake Mines Statement of Material Facts 24/81.

BCI 92L-55

APR 1973
OCT 1975
DEC 1988