

SUMMARY INFORMATION

LOCATION-TRANSPORTATION

The mining property held by the FIRE LAKE SYNDICATE consists of several groups of claims as shown on Section 2. These are located on the slopes of Fire Mountain in the Lower Lillooet River valley and Harrison Lake Mining district 45 miles N. E. of the city of Vancouver, Section 1. The property can be reached from Vancouver through Harrison Lake to Lipella where an excellent trail starts following the course of Fire Creek to Fire Lake and the old Money Spinner Mine Sections 6 and 11. Fire Lake is also used as a landing place for airplane which makes the trip in less than 1 hour, and could be used equally well in transporting men or supplies.

The elevation of the properties range from 3400 at Fire Lake to 7000' above sea level. Water power is available at the outlet of the lake or from the Lillooet river Section 6,8. Mining timber can be found right on the property.

GENERAL GEOLOGY

Fire Mountain is situated within the Central Pendant Belt of the Coast Range Batholith which has been well described by Dr. J.T. Mandy, resident mining engineer for Prince Rupert. Section 9 shows the approximate position of Fire Mountain in regard to the Central Pendant Belt. Section 4 shows the relation of Fire Mountain with the International Gold Mine which also produces free gold. Section also shows the position and relation of the Eastern Contact Belt with the Central Pendant Belt 4,9.

LOCAL GEOLOGY

The local geology in this report is taken entirely from the geological report by L. F. Greene. He also spent several months of close exploration work on Fire Mountain. The geology is examined on sections 6, 7 and 8. Briefly described the geological features of Fire Mountain are as follows: a prominent granite

dyke cuts right across Fire Mountain in N. W. -S. E. direction and is in contact with a highly inclined belt of slate. On both sides of this granite-slate contact with are thick masses of volcanic rocks, andesite, greenstone etc. The whole mountain shows evidence of tremendous volcanic activity and several old craters are recognised during the time of expansion and subsequent contraction deep sealed fractures were formed. Those fractures allowed the high temperature gold-bearing solution to reach the surface and form the numerous sets or system of free gold bearing veins on section 6. 40 veins have been identified many of them containing free visible gold. Section 5 shows the district geology as mapped out by Cairnos for survey.

PLAN OF OPERATION

It is planned to carry on exploration on the Eastern slopes of Fire Mountain and to open up the main 9 major veins as shown on Sections 10 and 11.

Respectfully submitted by R. A. Brooke

Revenue from Free Miners' Certificates.....	\$21,889	\$15,367
Other mining revenues.....	5,957	2,762

total mining revenues.....	<u>\$27,846</u>	<u>\$18,129</u>
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(IN the above amounts are included the Free miners' Certificates issued at Vancouver.)

It will be seen that there has been a considerable falling off in every department of mining revenue, except in the fees for assessment work, and that a great many of the claims located in 1897 have been allowed to lapse. This was to be expected. The mining boom of 1897 influenced men without experience to locate claims where there was very little prospect of finding a paying mine. In many cases these locations were made in the hope of making a sale of the claim without the expenditure of any money thereon.

Among the claims in good standing, there are quite a number where the indications are entirely encouraging, but only a small number has development work been done to any considerable extent. It is difficult to ascertain with any exactness the expenditure actually made on many of these claims, but from the best information at hand I estimate that there has been expended in development work in the Division during the year about \$75,000. On the following claims, the following sums (approximately) have been expended:--Providence (Harrison Lake), \$8,000; Golden Crown (Harrison Lake), \$1,500; Money Spinner (Fire Mountain), \$10,000; White Star Group (Douglas-Lillooet R Road), \$4,000; Fairplay and St. Alice (near Agassiz), \$3,000; Pitt Lake Group (Pitt Lake), \$8,000.

The Providence mine has been purchased by the Providence Mining and Developing Company, the purchase price being stated as 1,200,000 shares at 25 cents, representing \$300,000. There are three veins on the claim, and considerable work has been done in developing it. This year a tunnel has been made in No. 1 vein, 31 feet, as well as a 92-foot shaft and a cross-cut of 37 feet. In No. 2 vein, an adit of 45 feet has been made. The amount expended on the mine this year is about \$8,000, exclusive of an expenditure of \$5,500 in new plant which is now on the ground. This includes a 4-drill hand compressor. Three shipments of ore have been sent to the smelters at Tacoma and Everett, which gave returns of from \$20 to \$34 in gold and silver to the ton. There are about 165 tons of ore on the dump.

In a report on this mine, date 14th October last, Mr. Fritz Cirkel, M.E., says of No. 1 vein: "It has all the characteristics of a fissure vein. It crosses the formation

and presents two well-defined walls." Mr. Cirkel concludes as follows: " In conclusion, I may say that, looking at the property just examined as a whole, the results so far obtained are of a very satisfactory nature, and should encourage further extensive development work"

The golden Crown is an extension of the Providence Claim, and is owned by Messrs. Trethewey, Fullbrook and Monteith. This claim has been bonded to the Golden Crown Syndicate for \$20,000. There are four veins on the claim, almost parallel to each other, within a distance of 400 feet. The syndicate has driven a tunnel, with the intention of cross-cutting these veins. This tunnel is 55 feet in length, and has reached the first vein. Assays of the ore have gone as high as \$32 to the ton in gold and silver. It is the intention of the syndicate to continue the tunnel until all the veins have been cut. The sum expended since the 8th of October, when the mine was bonded, is \$1,500.

*Golden Crown
now owned
by
Fire Mt Gold & Silver
mines
R. M. L.*