

Re: Silver Hill - Tulameen, B.C.

This property has been in my office on two ~~times~~ ^{times} previous seasons - 1948-1950.

Barney is difficult to deal with and not too reliable. He insists on operating without benefit of technical advice. Sampling results would be open to question and subject to a careful check.

Indicated Tonnage (Possible - not proven) would appear to be 25,000 - 30,000 tons at best. I can find no justification for the 65,000 ton reserve quoted in reports.

Chances for making a successful and profitable operation not rated as good.

Concur in decision to take no action

[Signature]

19 Aug 51

Excerpt from Evan Just memo to HTM 4-13-52

"Dub, after further study, doesn't like the Silver Hill project (B.C.) account the vein looks too narrow to make an operation of sufficient size to be interesting. Further work on the raise - where the data given to me in Vancouver indicated a greater average thickness than on any of the levels - ran into poorer conditions. The vein pinched down to one foot. This pretty well sinks it, at least for the present."

Original in Just folder in General Files

Lat

BC
Silver Hill
14/11/52

1206B
1026F
HTM
JLB
RWM
CWS

TO: MR. EVAN JUST

FROM: George D. Dub

DATE: April 8, 1952

SUBJECT: LOCATION - BRITISH COLUMBIA
METALS - SILVER, LEAD, ZINC
PROPERTY - SILVER HILL MINE,
TULAMEEN, B.C.

CONCLUSIONS

At the outset, it should be stated that Borup came to see me in late 1948 or early 1949, before I came into the Cyprus organization. I think he was just canvassing mining engineers in this area whose names he obtained out of a directory, with a view to selling them stock or getting him help in selling some. He was very cocky, indicating that he had a "sweet" little property and was not going to give it away. He did not say what the property was or where it was and on a second visit indicated that he had sold \$7,000.00 worth of stock. I wrote him later asking for some information, but as I recall got none.

My conclusions are that -

1. This deposit is probably too small to be of any interest to Cyprus Mines Corporation. What ore there is is probably of good grade, but there does not seem to be quantity enough to justify a mill of such size as Cyprus Mines Corporation would consider a minimum, nor is there much likelihood that sufficient ore would be developed on account of narrow vein widths and uncertain shoot lengths.
2. This is a promotion at least three years old and I would guess that either the entrance fee will be too high, or the portion retained by the promoters will be too great to be attractive to Cyprus Mines Corporation.
3. Driving of the raise should be watched, but if values improve, or persist as in the range 60 feet to 86 feet, prices will parallel progress of the raise upward. When and if this develops, examination may be advisable.
4. I do not feel that we are justified at this time in making an examination.

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PROPERTY: 18 claims; 6 owned outright, 4 (Dornberg Group) under royalty agreement; 8 (Jensen Group) under lease and bond. Details as to royalties and lease and bond terms are lacking.

NAMES OF CLAIMS: Mary E., Lobe, Allen, Jim, Silver King 1, 2 and Fraction, why not 2, 3 and Fraction; Eureka and Fraction; Tamarack and No. 2.

LOCATION: 21 Miles by road West of Tulameen, British Columbia, on Canadian Pacific Railway, 167 miles East of Vancouver and 350 miles West of Trail, British Columbia.

EQUIPMENT: Said to be fully equipped, except mill, but no detailed statement of equipment or for how many men there are camp facilities.

GEOLOGY: Statement from Summary of report by A. M. Richmond, M.E.; P. Eng., Consulting Mining Engineer, March 22, 1949 - Cretaceous sediments, slates, argillites, tuffs, arkose rocks, intruded by feldspar-porphry dikes; and subsequently "mineralized solutions from nearby quartz-diorite stocks or possibly from granodiorite batholith East of the camp, were intruded along the dike walls, forming mineralized veins on both foot and hanging walls of the dykes."

Sediments strike N.20 W., and dikes N. 70 E dipping 64-75 SE.

GENERAL

Much of the information contained in the reports is not original with the writers of the reports, and many data go back to 1925 as reported by Norrie. Riley calls attention to oversimplification of geology. Riley's

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own examination however was limited to one day since he spent three out of four days traveling to and from the mine, and under his caption "Geology" apparently accepts what has previously been reported and "plugs" for a detailed mapping of the property.

Much of the money that has been spent by present owners probably has been spent on road maintenance and repair, reports and promotional activities. At present, a raise is being driven from the No.3 to the No. 2 level and you have submitted the following data as assays:

| <u>Ft.Above</u> <u>#3 Level</u> | <u>Width Ft.</u> | <u>Ag.Oz/Ton</u> | <u>Pb.%</u> | <u>Zn.%</u> |
|------------------------------------|------------------|------------------|-------------|-------------|
| 35 | 1.2 | 5.6 | 0.9 | 28.2 |
| 42 | 5.5 | 0.5 | 0.5 | 9.4 |
| 47 | 4.2 | 0.3 | .35 | 7.3 |
| 55 | 3.5 | 0.8 | .25 | 13.3 |
| 60 | 5.0 | 6.4 | 4.1 | 20.7 |
| 67 | 5.5 | 5.05 | 2.6 | 17.8 |
| 73 | 4.0 | 8.0 | 2.7 | 11.8 |
| 80 | 4.5 | 5.6 | 1.7 | 9.15 |
| 86 | <u>4.0</u> | <u>11.8</u> | <u>5.8</u> | <u>14.6</u> |
| Averages | 4.1 | 4.8 | 1.7 | 13.5 |

We do not know if these are channel or grab samples.


The width appears to be in excess of that indicated as conservative average for other workings said to be 2.5 feet @ 8 oz. Ag., 2% Pd and 10% Zn. The first 35 feet are missing.

This raise is probably the first underground development that has been undertaken by the present owners.

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No workings and assay maps are available. From the data on page 39 in the sheaf of reports submitted by Hemsworth (page 39 being apparently a part of Riley's report) there seems to be a decreasing Pb. trend with depth.


George D. Dub

GDD:ft

HILL, LEGG & HEMSWORTH
CONSULTING MINING ENGINEERS

April 7, 1952

Mr. E. Just,
250 Clayton Road,
SCARSDALE, New York.

Dear Sir:-

Mr. T. E. Blossom has asked me to reply to your letter of April 4th. As our firm are the consulting engineers for Silver Hill Mines, he felt that we were better fitted to answer your questions, some of which are technical.

Ques. 1

Ans. 1 I understand from the mine foreman who took the samples that they are chip samples taken across the vein. He claims they are representative. I intend to resample the raise on my trip to the property next week.

Ques. 2

Ans. 2 The zinc would probably be classified as marmatitic. The sphalerite is coarse-grained, but is dark-brown to black due to the presence of iron and manganese. Mill tests were made by Denver Equipment Company on Silver Hill ore. The heads contained 15% Zinc, 9% Iron, and 2% Manganese. The concentrate obtained contained 53% Zinc, and 10% Iron.

Ques. 3

Ans. 3 To put the Silver Hill mine into production, on the Basis of a selective flotation mill of 50-60 tons per day, would cost about \$400,000. This would include required development, stope preparation, power, camp and mill construction. This estimate may appear high, but our experience with B. C. mines has shown that with a lesser amount, the property would be underfinanced. After production starts, an operation must be carried for about three months, during the tune-up period.

Ques. 4


Ans. 4 The 53% zinc concentrate obtained in mill tests contained 0.26% cadmium. One of my samples, from the No. 3 Level, containing 31% zinc assayed 0.21% cadmium. Insufficient samples have been run for cadmium to give an accurate estimate. The Trail Smelter pays for only 70% of the cadmium content, with a minimum deduction of 5 pounds (0.25%), less 50¢ per pound. Consequently our estimates have not included any credit for cadmium content.

Ques. 5

Ans. 5 The raise is being driven between the No. 3 and No. 2 levels. Vertical distance between levels is 386 feet; raise slope length will be about 520 feet at 48 degrees average dip. Latest reports place the face of the raise at 220 feet slope distance above No. 3 track level.

I intend to sample and map the raise next week, and will be in a better position to give you more information after my examination.

Yours very truly,


Fred J. Hemsworth
Hill, Legg & Hemsworth.

FJH/pd

250 Clayton Road
Scarsdale, New York

April 4, 1952

Mr. T. E. Blossom
Hemsworth and Blossom
615 Credit Foucier Building
Vancouver, B. C.

Dear Mr. Blossom:

We have had considerable discussion of the Silver Hill Mines development in our Los Angeles office. I found little enthusiasm for proceeding in the light of present knowledge, but interest in keeping an eye on developments. Therefore, with a view to the possibility of doing business in the future, I would appreciate any added information obtained from the development now in progress as well as the answers to the following questions:

1. Are the raise samples now in my possession representative of the positions and thicknesses indicated or are they simply grab samples at those points?
2. Is the zinc marmititic?
3. What is your estimate of the amount of financing it would take to put the property into production, giving the capacity of the mill contemplated in the estimate? (For your information, our own interest would be in a mill of at least 100 tons capacity and sufficient ore to justify same).
4. How rich would the zinc concentrate be in cadmium?
5. Is the raise now being driven between the third and second levels or between the second and first? If the former, what was the story for the first 35 feet?

Sincerely yours,

EJ -P

cc - Mr. Christopher Riley
Mr. George D. Dub

Silver Hill

4/15

Assays and widths of raise being driven from ~~third~~ level, as on diagram in black.

35' (?)

| <u>Ft</u> | <u>Width, Ft.</u> | <u>Ag. Oz/ton</u> | <u>Pb %</u> | <u>Zn %</u> |
|--------------|-------------------|-------------------|-------------|-------------|
| 35 | 1.2 | 5.6 | 0.9 | 28.2 |
| 42 | 5.5 | 0.5 | 0.5 | 9.4 |
| 47 | 4.2 | 0.3 | 0.35 | 7.3 |
| 55 | 3.5 | 0.8 | 0.25 | 13.3 |
| 60 | 5.0 | 6.4 | 4.1 | 20.7 |
| 67 | 5.5 | 5.05 | 2.6 | 17.8 |
| 73 | 4.0 | 8.0 | 2.7 | 11.8 |
| 80 | 4.5 | 5.6 | 1.7 | 9.15 |
| 86 | 4.0 | 11.8 | 5.8 | 14.6 |
| 9) 37.4 [4.1 | | 44.5 [4.9 | 19.3 [2.1 | 132.3 [14.7 |

4.8

18.9

1.7

Geomet. Av = 13.5

Conservative average other workings:

2.5 ft @ 8oz Ag, 2% Pb, 10% Zn =
gross value of \$3.80 per ton or \$26.90 for
5 ft. mining width, apparently in minable
lengths and heights.

Much of development work would be in ore.

Probably can obtain control for ~~paid~~ assuming
further financial burden, on basis matching
funds actually expended by present owners

for 50-60% with right treating added
advances as loan.

Probably could hand-pick a good
deal of shipping ore.

Note Canadian law permits
3 1/2 years tax free operation.

A strong structure. Some possibility
making a tonnage mine.