MOTHERLOOE & SUNSET GREEN WOOD BC.

#2075

THE GRANBY CONSOLIDATED M. S. & P. CO. LIMITED THE , Dahmi COP WANCOUVER, B. C., November 45, 1950. MR. W. I. NELSON MR. A. E. PIKE Re: Motherlode and Sunset Claims - Greenwood, B. C. Dear Mr. Nelson: I have studied the correspondence from Mr. F. A. Gowing and re-examined the data of Mr. J. W. James in regard to the above property. As mentioned in my report of August 15th, I felt that the property had possibilities, providing the tonnage and grade estimates of Mr. Gowing could be substantiated. The data and correspondence to hand, in my opinion, fails to substantiate Mr. Gowing's estimates. We are therefore left with the choice of having to spend a good deal of money to determine the amount of ore that could be sined by Quarrying as originally planned. Such work would include the reopening of the old workings down to the 200 level so that the workings could be surveyed and sampled. In addition, diamond drilling would have to be carried out, especially in the area south of the shaft. to determine the extent of the ore body in that direction, and also to determine the amount of overburden and waste rock that would have to be removed before quarrying could begin. The cost of equipping the property with a suitable mill at this time would be very high, and I can only concur with Mr. Baillie's suggestion that the logical time for our Company to place a mill on the property would be when our own equipment might be available, and the property might then be operated as a salvage operation. I feel that the considerable expense necessary to determine the probable available tonnage is not warranted at this time. I would therefore appreciate your decision on the property, together with your instructions as to whether or not I should return the property data to Mr. James. Yours very truly. A. E. Pike. Exploration Engineer. AEP: el cc: ASB: RSD: KCF: Vanc.: File

To al Pih. Fra Ke Folmi Stjat: Motherlode Data.

Den al.

Received the message from you though Bill Goula ad Mr Baillie this morning asking for us to send top the data on Motherloode. The file here has only letter, exchanged between W. 9. M. al Mr. Goving, and a copy and the original name into of your report of ayest 15th. I premie hove en that it is the Ab folder of reports and information that is morning. Lloyd Mc Ray says he took set down to Vancouer with him al left it is the old matalle misses. with him and left it in the office, Thear Miss Gourlage desk in en envelope addressed to you. Upon returning to the office, later the same day, he noticed it was gone and premied you had picked it up. It may law been put any by someone in the office and should turn up there somewhere.

KC Falmi

Mother hade Calden noof A.C. Good one under ridge for some 200' or west side approx 60% loft bal out in also south of and decand lose Also much ore or east side of most clean pls. hung up in glory bele Jangle # / on granto out Glory hole enterosth: # 100 from shaft Calory hole Jantile # 3 yearle, magnetile + chales largely to epidetized rothers tion for horst 20 wide by30

Excavation for hoist 20 wide by30' largely in spidetized + 5 hours Dump Back of shaft . 275' much magnitude alory have contraste Creek below dumps only a trickle. most drawfle hung up in Ore bin to top styr of draw 250' 3/ope 35-45° Creek about 100 below level. appeal 60% lott but out in Jame 200' so west side on when ridge for Calleen wood, A.C. Mother hole

anset Affects to show more copper stain in glory holes. Possible backs about 100 above railroad grade. R.R. grade to Mother Lode would necessitate opening trestle or relocation relocating largo circular damp on M. L side of trette Railroad grade about Road 1230 Also another trestle 200' on son R.R. grade appear above switchback

F. A. Gowing, Twain Harte, Calif.

October 17, 1950

Mr. W. I. Nelson, Allenby, B. C.

Dear Mr. Nelson:

Your belated reply to my letter of August 23rd received, the tenor of which is not in accord with my ideas on the subject.

Firstly, I have had about 45 years of operating (including copper blast furnacing) and examinations for such people as Greene Cananea, New Jersey Zinc and W. P. Hammon and do not make bald statements.

I wish however to correct your deductions about values of 0.9% cu. in the ore. I am astoneshed that you assume that production figures are 100% of the contained values. The B. C. smelter record show the following: Tons smelted 3,772,723 lbs Cu. produced 67,627,575. Smelter feed 1.234% Cu. or 24.68 lbs per ton. Recovery 72.8% of Cu. and about 87% of Au. The average gold head appears to have been 0.049 oz. with recovery of 0.0426.

Regarding Par. 3 of my letter of August 23, the volume of the open glory hole is about 3,800,000 tons, subject to an allowable error of 10%, while the total tons mined from the Motherlode, including the sorted rejects is about 4,400,000 tons or 600,000 tons more than the capacity of the glory hole itself. This latter tonnage must therefore have been mined from the ground below the present bottom of the pit. This more or less limits the tonnage taken from levels below the 60 Ft. level. In regard to this I have fairly complete maps of the lower levels showing stopes, chutes, etc.

I have interviewed men who have worked at the property and Frank Skeels, whom you may know of with St. Jo. lead, now living at Los Gatos and who was at the time quarry foreman, assures me that no selective mining of any type was practiced or was possible.

Regarding the shaft block, I used the foot average of 13 holes, an addition of 5 to those you mention, of a total footage of 736 ft for an average of 1.27% cu. and 2x9x 0.059 in Au. However, I combined these with mine assays of the area, resulting in a combined average of 1.166% Cu. and 0.058 Au. In calculating the third block of about 800,000 tons which I quoted you as having Au. 0.046 and Cu. 26.8 lbs, I combined the samples shown by James with averages derived from assay records of the B. C. Company.

As to the tonnage estimated for the shaft area, which you give as a possible 386,250 tons, two facts are: one that the collar of the shaft is below the level of some of the ore of the hill above it to the xex east and secondly I assumed a difference in elevation of 140 ft. between the 60 ft. level and the 200 ft. level.

In connection with tonnage, in my report on the M. L. my estimates of positive ore for the block you mention is 550,000 tons and in connection with the ore north, I quote from my report as follows: "In further clarification of the tonnage figures used, the shuthern portion of the glory hole to a point about 300 ft. north of the shaft is apparently uncaved to the 200 foot level, although containing some stoping. On the other hand the portion of the glory hole northerly from this point was affected by the large blasts used, so that the ore in this area is diluted to a certain degree. This is in large part due to slides from the easterly side of the pit. This ore accordingly, with contained waste will necessarily be of lower grade than the value assigned to it from assay records and may be found to vary from 0.75 to 1.0% in copper" As this applies to the blocks designated as probable or indicated ore, it does not affect the ore estimated as more or less positive or sampled".

Aside from the above, which I have written merely for the purpose of correcting improper deductions, I have formerly in writing both Mr. Whicher and yourslef requested that I be informed as to your definite interest in the project and also in particular, whether you would consider participation from capital here. I have had no response to this.

It is for this reason, a matter of some indifference to me whether Granby cares to give further consideration to the venture, but I wish to make it perfectly clear that you cannot accept production as representing head values.

I am very truly yours

Copy to L. E. Whicher

ASB KCF

AP

File

F. A. Gowing



GOPY

Allenby, B.C. August 18th, 1950

Mr. F.A. Gowing Twain Harte California

Dear Mr. Gowing:

We have had an engineer inspect the Mother Lode and Sumset Mines at Greenwood, B.C. with a view of possible operations. Our engineer had a talk with Mr. J.M. James in Vancouver, but is unable to obtain the data upon which you based your estimate of the grade and tonnages available in the glory hole and in the block of ground surrounding the Mother Lode shaft. Apparently you were the last engineer who was able to sample on the 200 foot level before caving stopped access to these workings and therefore you are the only one who has authentic data on what pillars and other ore there might be available.

Could you supply us with the details of your estimate of the 2,450,000 tons estimated to be available above the 200 feet level, particularly the items of 1,350,000 tons on the south end of its glory hole and the 400,000 tons above the 50 feet level of the Sunset orebody giving grades also for the various blocks.

Yours very truly

W.I. Nelson.

ral ASB: KCF: AP: VANC: 2-file



MOTHERLODE AND SUNSET CLAIMS

Greenwood, B. C.

To: Mr. N. I. Melson.

August 15th, 1950

As instructed, I contacted the Apex Gold Mining Co. Ltd. at 626 West Pender St. in Vancouver regarding the above properties. This address is that of McInnes and Arnold, a law firm, and is the registered office of Apex Gold Mining Co. Ltd.

I was referred by that office to Mr. J. W. James of 1996 W. 41st Ave. in Vancouver. He apparently represents the Apex Company in the matter of any deal. A visit was made to Mr. James, who has a quite complete data in the way of maps, drill logs etc. He gave the writer some of the early history of the property and was quite conversant with the correspondence between F.A. Gowing of Twain Herte, California, and our Company. He knew of Mr. C. M. Campbell's report in our files (#255) and the large discrepancy between Campbell's figures of available tonnage and that estimated by Gowing. James claims that Campbell told him that the figures were not based on examination, but that they were figures received from the operators at that time. James also stated that Campbell made an examination a few years ago and arrived at a tonnage in excess of 1,500,000 tons.

Should such be the case, then the report in our file is inaccurate and misleading. It should be noted in this regard that in 1916 some 255,000 tons were shipped from the Mother Lode and 10,000 tons from the Sunset, and I believe shipments were continued in some degree up to 1920. The Minister of Mines report for 1915 quotes the General Manager as stating that the "total ore reserve under present conditions is 100,000 tons". It would appear that the ore tonnege was under-estimated in view of later shipments.

A set of plans showing the claim boundaries, glory-hole, level workings and assay plans of dumps was loaned to me by Mr. James.

On August 10th a trip was made to the property by the writer with R. Day as assistant. The purpose was primarily to procure suitable samples for mill tests and to check the district with reference to a possible mill site location and the availability of power and water.

Two samples, each about 150 pounds, were taken and delivered to Allenby. One sample was taken from the south end of the glory hole some 75' north of the shaft, while the second sample was taken from the main dump at the Motherlode. Both showed fairly heavy mineralization of pyrite, magnetite, and some chalcopyrite.

In considering possible mill sites, it is felt that if sufficient tonnege can be assured, then a mill might well be located close to Greenwood and the ore trucked from the mine. The mill location near Greenwood offers the following advantages:

1. Close to West Kootenay power.

2. Close to water which could be taken from Boundary Creek.

3. Close to C.P.R. for shipping concentrates.

4. Minimum of surface plant as no accommodation would be required for employees.

5. Close to labour supply.

A brief reconnaissance of the area suggests that a possible favourable mill site might be on a low ridge on the north east side of Deadwood Creek just behind the old smelter stack. The site is just alongside the road up Deadwood creek to the mine, making it easily accessible and about \(\frac{1}{2} \) mile from Greenwood. The area is clear and there is little overburden on the ridge.

Water might be taken in part from Deadwood Creek and the balance pumped from Boundary Creek. The status of water rights on these creeks would have to be checked with the Commissioner of Water Rights.

Electric power is readily available as the site lies only a few hundred yards from the West Kootenay sub-station, where transformer capacity is far in excess of local demand. No rate for power could be obtained in Greenwood but can be secured from Mr. Lee at Trail.

From the proposed site there is a railroad grade down to the C.P.R. tracks for convenient loading of concentrates.

The question of suitable tailings disposal will require surveying near the site above the old slag pile. It appears that if the water in Deadwood Creek can be used or flumed that the draw of the creek could be filled with tailings. Other draws close by could also be filled to take a quite large townage. No attempt was made to determine if such land was owned by individuals, as it was thought that any such local enquiry at this time would be ill advised.

The road to the property from the proposed mill site is about 3 miles long. This road, though narrow, is in good shape, with low grades up to the old town of Deadwood. From Deadwood up to the property the road grade is steeper but is steady at about 10 to 12%. The road is mostly hillside and could easily be widened in most places. There is also the old railway road bed about 5 miles long with a grade of about four percent which could be used, especially for loaded trucks. There are at least two trestles, however, which would have to be rebuilt or the draws filled.

The suggested system of open pit mining is quite feasible and would allow for the reclaiming of the old dumps. A road could be cut down into the bottom of Deadwood Creek from the road to the Motherlode which would allow the main Motherlode dump to be taken. From the old ore bins near the shaft to the edge of the creek draw however is a flat area 250' wide, and it is not known how much overburden covering the bed rock would have to be removed to get to the ore. From the data to hand, it is also not known how far the ore extends south from the shaft. It is known, however, that the 500' level bottomed the ore body.

C.W.S. Tremaine of the Hedley Mascot Co. has shown an interest in the property and is in possession of much data supplied by Mr. James. The Hedley Mascot Co. as such are not interested in the property. Tremaine, on the basis of information supplied by James, made the following estimate of ore reserves in the shaft area at the Motherlode above the 200 level.

	Ore		Dilution	
	Tons	Grade	Tons	Grade
Loss	413,400 30,000	1.51 ? removed in shafts, tunnels	67,580 s etc.	0.37
Plus		tons @ 1.51% cu. 0.05 ozs. tons of dilution @ 0.37%	au. and	0.20 ozs. ag.
	450,980	tons @ 1.34% copper.		

He estimated as probable 400,000 tons on the dump @ 0.038 ozs.au. 0.21 ozs. ag. and 0.74% copper, and in addition an estimated 100,000 tons in the glory hole of a grade of plus 0.75% copper.

With reference to mining, Tremmine mentioned that he had talked to a contracting company in Vancouver and that the ore breakage and haulage could be contracted for at a price of around 75 cents per ton.

Contracting the mining and haulage would result in capital expenditure being required for the mill only. No estimate of the cost of a suitable mill can be made until tests on the ore are complete and the flow sheet worked out.

The proposition as presented by dowing is of decided interest providing his tennage estimates can be substantiated. Incomplete data to hand, together with the fact that the underground workings are at present inaccessible, does not allow for a check of his tennage estimates and grades. It is suggested therefore that Mr. Gowing be asked to supply detailed information as to how he arrived at his tennage estimate. This information should include assay plans, sections, and any other pertinent data. His estimates could then be checked and if desired the workings could be re-opened for sampling and perhaps additional holes drilled to confirm the grade of one that could be mined.

The purchase price of the property was stated by Mr. J. N. James to be \$500,000.00. He mentioned that a deal for the property was almost completed in 1939 with American interests at which time a \$10,000.00 down payment was to be made with the blance being paid for on a royalty basis. It is possible therefore that some similar sort of deal could be made at this time.

The property in my opinion offers definite possibilities, providing the Cowing tonnage and grade estimates can be substantiated, a suitable deal made, and a satisfactory recovery made in the mill tests.

Respectfully submitted.

A. E. Pike.

Copper Mountain, B. C.

A.E. Pike

Be Meller Lobe & Junget

Green wood, B.C. As instructed, I confacted the Aprix Gold Mining Co. 11 at 626 West Perder St in Vancouver regarding the above properties. Amount This address is that of MInnes and Amold, a law frim, and is the registered I was referred by that office to Mr. J. W. James of 1996 West 41st Ave in Vancouver, who appropries properly and who as the many the property represents the Aprex Company in the matter of any deal. A VISIT was made to Mr James who has see quite complete bate in the way of monty anto drill logs to the gave the writer some of the early history of the property and was quite conversant with The new correspondence and dat between F.A. Garing of Twain Harte Colifornia and our Compleny. He knew of Mr C. M. Complett's report in our files (# 255) and the Jarge discrepancy between Complete Liques of or tonge (waitable) and that estimated by Gowing. James Claims That Complet allowing the him that the figures were not based on or examination, but that They well figures received from the operators at that time. Junes also stated that Complett made in examination a few years ago and arrived at a tonnage at in excess Should tuck be the case that the fort we are the

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