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REPORT

on the

BUCKSKIR MINE

of the

AMBASSADOR GOLD MINE, LTD.

for

PAUL G. HOFFMAN AND E. R. CARPENTER

by

JAY A. CARPENTER B. M.

of

RENO, NEVADA

The Buckskin Sine of the Ambassador Gold Sine, Ltd., is a group of patented claims 10 miles west of Merington, Nevada. The Company has in its possession detail reports on the property. This is a private report to certain stockholders based upon, to quote sy instructions, "a one-day survey with your opinion as to values, your treatment, the management, and the possibilities of profitable operation."

Acting upon these instructions I spent the day of Warch 14th at the property. I was given a cordial reception by the manager, Mr. Horace Lackey and his assistant W. A. Burton, in charge of the mine and mill, both of whom freely answered all my inquiries.

A one-day examination is a very limited time. I sampled no faces of ore, as the claims for values were apparently conservative, and their own working assays were open to me for inspection. My main inquiries were toward ascertaining data to judge as accurately as possible upon the economic features of importance to stockholders. Much of my information is approximate but reliable enough, I believe, to base conclusions on taken in connection with shat I saw, and my familiarity with small mines of a similar type.

The Buckskin Mine was taken over by the Company in the spring of 1936. The mill reconstruction was completed, as a "50-ton" flotation unit, and started in the early fell.

Meager mine equipment was installed to develop and sine oxidized ore above the fl tunnel, but none for pumping the water out, or mining ore from the two main shafts.

stallations and changes in the mill flow sheet, an extraction of 90% could be maintained.

The Ho flotation process finds its best application to sulphide ores, but it is only a concentrating sethod, and the concentrate must bear the cost of shipping and smelting along with the refining of the metals therein.

This cost veries with the concentrate sade being 10% to 20% of the gross value of the metal content therein.

The condition at the sine at present is that (experience has shown) oxidized one of profitable milling grade is no longer available. A small body of sulphide one is now being mined on the 90° level of #2 shaft, with crude and costly holsting and mining methods. The brocking of this necessary one to keep the mill running taxes the mining equipment so that no work is being done to find new one bodies of sulphide one. The best that can be hoped for now is to be able to find and mine enough sulphide one to keep the mill running at little or no profit.

Since the mine is not owned but is only on a lease and bond with a very high bond price for a mine with limited tonnage of \$10.00 ore, the proposition of raising more capital for equipment to continue mining and possibly milling should be accutinized closely.

Sr. Lackay states that he considers \$25,000.06 is necessary for new equipment and aine development, to assure one for the 50-ton mill. He presented no budget or well outlined mining compaign for this expenditure; but in general he plans on mining equipment in the way of pumps, hoist, head-frame, compressors, and drills of sufficient capacity to pump out the water in the mine to the 180° level, and to carry on development on that level while at the same time mining and milling 50 tons a day. He is very confident or optimistic that large tonneges of sulphide one of profitable grade will be found and developed.

Much of this optimism is based upon maps and reports showing wide widths of sulphide are developed in lenses along a length of over 200 feet on the 185° level at the #1 shaft with the ground beneath the oxidized are bodies on the tunnel level beyond #2 shaft still unexplored on the 185° level. One of these reports is that of Mr. L. E. Snider whose estimates of tomages and values of oxidized are have been found to be greatly exaggerated, therefore little faith can be placed in his claim for large tomages of sulphide gold and copper are that at present prices of \$85.00 for gold and 15¢ for copper, would average \$10.00 - \$15.00 in gross value.

However another engineer by the same of A. Syverson reported in 1930 that he sampled this sulphide ore on the 150 level and his assays averaged, over widths of around 15 feet, about 1/10 on. of gold and 2.2 5 copper. At depression prices of \$20.67 an ounce for gold and 7¢ for copper, this would figure but an unattractive \$5.00 ore, but at the present high prices for gold, which will continue, and the present high price for copper which, I judge, may average 15¢ in the future, this ore would have a gross value of \$10.00

In the widths given as sampled, and capable of probably being mined cheaply (by Shrinkage stope method) there is the probability of being able to sine and mill 100 tons a day if it would prove to be of this grade, at a profit of \$2.00 to \$5.00 a ton above all expenses including royalty. The lease on royalty payment appears such more attractive than purchase under the present bond price unless large reserves of sulphide ore should be blocked out.

Since Mr. Syverson states that he checked closely to Mr. Snider's sampling, I have a great fear that he is also a great optimist, but I do, however, have sufficient faith in the possibilities of the 180' level as now developed and to be developed out under the present oxidised ore bodies, to recommend that the level be unwatered as soon as possible for sampling

-8and that development work be pushed out to the West under the oxidized ere as rapidly as possible. My recommendation as to proceedure, would, however be much more conservative than Mr. Lackey's plan. Instead of buying new equipment in order to both mine and mill 50 tons of ore a day and develop the 150° Level at the same time, I recommend that the present equipment with the smallest possible additions be used primarily to develop the 150' Level, and mill only that ore broken in development work or that can be mined without interfering with development. This amount of mill ore, I would estimate to be sufficient to run the mill at least on day shift, which, besides giving an accurate sampling and test work on the sulphide ore, would yield a little profit toward the southly minimus royalty payment. If. say four months, development work, disclosed sufficient tonnage of profitable grade ore, then the sine and mill equipment could be installed for a 100-ton a day capacity with reasonable expectations of repayment of the capital investment and a chance of several years operation with the development of profitable sulphide ore on deeper levels. If the sampling of the present workings and the new development work on the 150° Level under the oxidized ore, proves unfavorable, the property could be abandoned without the present contemplated expenditure for new equipment that would have but a low resale value. With present equipment and on a SO-ton basis the costs of mining and milling are so high as to leave no profit on the expected grade of ore in the sulphide zone. Even with new equipment, but on a limited 50-ton per day basis the necessarily high sanagement and overhead costs per ton would cut sharply into the profits, and the total profits per month gross so small for all the worries, work connected with its operation. However if sufficient tonnage of \$10.00 ore was assurred, to justify a 100-ton a day production, the cost to enlarge would not be excessive as you now have ample power and water facilities and much of the equipment

The possible profits due to treating 100 tons at a reduced cost would be very attractive, and a worth while venture.

As to your request as to my opinion of the present management I was favorably impressed with the personality of both Mr. Lackey and his assistant Mr. Burton. However neither are technically trained mining engineers, such as real mining capital long since has demanded as an absolute requirement of their responsible employees. Even trained engineers make enough mistakes without taking risks on "practical mining men" or young men without technical training.

The Company should at least have a consulting engineer in Indiana that they have confidence in his integrity and ability, who should pass upon written recommendations for the mine, and inspect it on occasional visits.

You did not give se data as to capitalization of the Company, your holdings, and the proposition made to you for additional capital. Sowever with the data I have given you, you can apply your good business judgment on the offered terms of additional investment.

Yours sincerely,

Jay A. Carpenter, E.M.

2 . . . March 17, 1937 Mr. B. B. Carpenter, 9 Panely Hoppinson Co Int.
Los Angeles, Calif. The Frequence X a Dear Sirt Inclosed herewith my report to you on the Buckskin Mine of the Ambassador Gold Mine, Ltd., for which I have received your check. I am inclosing duplicate copies, as you may wish to send one to the sain company. If you should wish to know my experience and standing as a mining engineer I refer you to "Who's Who in Engineering" and "Who's Who in America." Briefly it is a record of 20 years practical experience in mining and milling, from shifthoss to manager to consulting work. The last ten years I have held the professorship of mining at the University of Nevada, along with consulting work and ownership in and operation of mining properties. With the aid of two senior mining students, I collected a great deal of data not included in my report. If there is additional information or advice that you wish, please feel free to call upon me. Thanking you for this opportunity of being of service to you, I am, Yours sincerely, Jay A. Carpenter, E.M.