

THE YUKON CONSOLIDATED GOLD CORPORATION, LIMITED

DAWSON, Y. T.
CANADA

23rd September, 1948.

A.M. Nordale, Esq.,
Resident Manager,
Yukon Cons. Gold Corp. Ltd.,

Dear Arnold,

Re: Test of Gold Losses on No. 8 Dredge

The sampler was placed on the starboard longitudinal tables as shown in the drawing. The slots theoretically will take 14% of the total material on the table. As the flow with the hoods in place was very smooth the actual and theoretical should be close. No. 8 Dredge has averaged 194 cubic yards per hour actual digging time. This dredge has had an excessive amount of sand so I would estimate that 75% of the yardage passes over the tables, or 145 cubic yards per hour. The sampler on the one side would take 10 cubic yards per hour.

The sampler was operated from 5:00 p.m. August 20th to 8:45 a.m. August 23rd for a total of 60 hours operating time. Three clean-ups were made in that period. These clean-ups were run down in the Long Tom and the concentrate sent to the Gold Room where it was run in the small barrel with mercury and the amalgam panned out. The sand in the riffles of the Long Tom was saved.

A second test was made from September 6th to September 10th, a total of 94.5 hours operating time. Five Clean-ups were made and handled the same as before.

In an attempt to ascertain if gold were floating over the riffles, a settling trough 10 feet long with three hoppers was made and placed over the first section of the test sluice. The quantity of sand made it impossible to save all the material. The slots in two tables were plugged and the outlet of the first hopper left open and that sand wasted. The quantity of fine sand and mud in the next two hoppers was so large that only short sample times could be handled.

Three tests were made, representing 2-1/2 feet of ground at bedrock level clear across the dredge cut - 270 feet. Each test represented about 15 minutes elapsed time. The total sand collected has been sent to Bear Creek. If any gold is found in it further testing should be done as it would be very fine gold passing over the riffles. The test sluice was run continuously for the 42 hours during which these three tests were made. The clean-up from this sluice was screened but not run down.

The samples were taken when the highest grade ground was being dug. Only about 3% of the total fines dug was sampled. It is impossible to arrive at an accurate figure as to how much this last test represents. It can only be considered as an indication of gold losses.

Yours very truly,

MacLW: LC

sgd.... MacLeod White

MR. A.M. NORDALE.

GOLD ROOM,
October 22, 1948.Re: Test of Gold Losses on Dr. # 8

The first period of 60 hours referred to in Mr. White's report of Sept. 23rd, produced 5 small sacks of concentrate and 2 large sacks of sand. The concentrate was processed in the Gold Room and yielded a final button of good grade bullion weighing 1.34 oz; approximate value @ 25.00 - \$33.50. The large sacks are being held and will be processed when time and circumstances permit.

The second period of 94.50 hours duration yielded 1.10 oz. or \$27.50.

These figures represent recovery made from material which has been estimated by Mr. White as being 7% of the total flow over the tables. Taking Mr. White's figure of 145 cu. yds. as the average hourly yardage dug, in the first period of 60 hours we would have a total yardage of (60 x 145) 8700 cu. yds. If we assume that the recovery made from the Test Sluice represents an actual loss by the Dredge, we have;

$$\frac{1.34 \times 100}{7} \text{ a loss of } 19.142 \text{ oz. which @ } 25.00 \text{ is } \$278.55 \text{ or } 5.5\% \text{ per cu. yd.}$$

In the second test of 94.50 hours we have

145 x 94.50 = 13,702 cu. yds. The recovery from the Test Sluice concentrate during this period was 1.10 oz. which is assumed as being 7% only. Following this through we therefore have an assumed loss of

$$\frac{1.10 \times 100}{7} \text{ or } 15.71 \text{ ozs. } (\text{@ } \$25.00) = \$392.75 \quad 13,702 \quad 2.86\% \text{ per cu. yd.}$$

In considering these figures there are several things which must be taken into account. First:- The samples were cut from a point about ten or twelve feet back from the end of the sluice leaving an area on which some saving of gold might be expected. Second:- The gold saving conditions in the Test Sluice itself were by no means ideal due to the large amount of material which was passed over it. In fact, in my opinion conditions were such that gold which would not stay on the main tables could hardly be expected to stay in the Test Sluice. This could be remedied by taking a smaller sample. Third:- The higher figure in the first test might have been caused by some colours being carried down from the clean-up box. Any possibility of this was eliminated in the second test by utilizing a separate and unused clean-up box on the port side.

Approximately a ton of sand remains to be processed during the winter months. This material is from the Tests referred to in the second last paragraph of Mr. White's report and the findings will indicate whether or not gold is being carried away by the water

sgd.... J.F. Sealey



Library and Archives
Canada

395 Wellington Street
Ottawa, ON K1A 0N4

Bibliothèque et Archives
Canada

395, rue Wellington
Ottawa, ON K1A 0N4

For material still subject to legislative, contractual or institutional obligations, users warrant that they will respect those obligations and not use LAC collections in a manner that would infringe the rights of others. Liability that may arise in the use of a copy is assumed in full by the user. LAC accepts no responsibility for unauthorized use of collection material by users.

To ensure proper citation and to facilitate relocation of an item, the source of the material and its reference number should always accompany the copy.

Pour les documents faisant encore l'objet d'obligations législatives, contractuelles ou institutionnelles, les usagers s'engagent à respecter ces obligations et à ne pas utiliser les documents des collections de BAC de façon à nuire aux droits d'autrui. Ils doivent assumer entièrement toute responsabilité qui pourrait découler de l'utilisation d'une reproduction de document. BAC décline toute responsabilité quant à l'utilisation non autorisée de documents provenant de ses collections.

Afin de citer un document avec exactitude et d'en faciliter le repérage, sa source et son numéro de référence doivent toujours accompagner la reproduction.

TITLE/TITRE Re: Test of Gold Losses on No. 8 Dredge, A.M. Nordale
RG _____ MG 28 R- _____ SERIES/SÉRIE III 43
ACCESSION _____ VOL 37 PAGE(S) 2
BOX/BOÎTE _____ REEL/BOBINE _____
FILE/DOSSIER GOLD-IN TAILINGS (PT. 1) 1948-1957
DATE JANUARY 2016