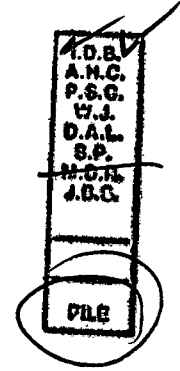


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To: M. D. Rowswell From: J. K. Carrington

cc: P. Cross  
E. Kirkpatrick  
D. Coleman  
B. Wallace  
D. Carson  
K. Konigsmann

Y-9  
14 F



Minutes of Meeting - January 24, 1977

The above listed people, excluding P. Cross and E. Kirkpatrick, met on January 24th to discuss the most recent metallurgical results of Mattagami Lake Mines on Grum ore, the findings of D. Carson's mineralogical study and to outline future sampling needs and testwork.

Recent Mattagami Lake Results

The 14 samples submitted by D. Carson last November by and large responded more favourably than the previous B samples. A second set of confirmatory tests is being run on these samples now. Klaus pointed out at this stage that there was no attempt to optimize these results. Work has yet to begin on the composite based on these 14 samples.

The differences between the Lakefield #6 recoveries and Mattagami's results were discussed. Klaus pointed out that the difference lies in the way of interpreting the results. Recalculations of Lakefield's results by Mattagami indicated closer agreement with Mattagami results. B samples, in particular, show a large circulating load in the testwork due to middlings. Mattagami assumes these middlings will eventually go to the tailings whereas Lakefield assumes they eventually will divide between tailings and concentrate in a proportion similar to the main products.

Dick Coleman is to arrange a meeting with Lakefield to resolve this difference and to have all future reporting done on a consistent basis.

Mineralogical Study by D. Carson

Dave Carson presented his findings along with slides of various polished sections. He examined 88 sections from throughout the deposit. From these he ranked ore types on a scale of 1-6 depending on galena and sphalerite particle sizes, 1 being a coarse grained easily treated ore to 6 being a fine grained ore with a great deal of middlings. He feels that there will be trouble with middlings and oxidized ores but that together they represent less than 10% of the deposit. Based on a hypothesis of ore deposition he thinks that the fine grained and/or oxidized material is confined primarily to a thin, perhaps 2-3 m, layer on the stratigraphic top of the sulphides. Dave expects to have a report available in two or three weeks.

Future Sampling and Testwork

The following work was outlined:

- 1) Dick Coleman is to produce a schedule and budget through to complete flowsheet and mill design. This will include the use of both Mattagami and Lakefield facilities for the test-work up to the pilot mill stage and Lakefield for the pilot run. Timing for the pilot run is July. Concurrent with the pilot work, design of the mill can be started for use in the detail feasibility study - September/October.
- 2) Klaus Konigsmann will continue work on A and C material and the composite Carson sample. Also, he will send like amounts of A and C to Lakefield for them to test.
- 3) Dave Carson will select additional sample points for polished section study. The objective is two fold: detailed sampling of certain drill holes to determine the oxide and middlings characteristics of the deposit and more widely spread samples throughout the deposit from approximately each major sulphide intersection to help outline metallurgical types of ore. This will be used to confirm the 90%+ estimate of easily treated ore.
- 4) Additional samples, approximately 225 kg each, fist size or larger will be taken at Sites D, F (2 samples corresponding to #1 and #2 in Table 8, Konigsmann December 30/76 report), G and H. Site H was not sampled by D. Carson in November. It represents higher grade quartz sulphide ore than G for instance. Some material from this site was shipped to Anvil in September 1976. These samples represent the bulk of the ore types expected to be encountered. From each site two samples of 225 kg each will be sent to Mattagami and Lakefield. It is planned to ship these samples from Faro before February 12th. At this time the additional samples for D. Carson, item 3, will be taken.

Please contact me if there are any errors or omissions.

J. K. Carrington.



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