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APR 11 1977 (1)

MATTAGAMI LAKE MINES LIMITED
Matagami, Que.

cc: M.D. Rossell ✓
S. Harrington

INTER-OFFICE MEMORANDUM

FROM K.V. Konigsmann TO R.L. Coleman Y-9
 DATE April 4, 1977 COPY TO B.P. Wallace BU F
 SUBJECT Forecasts of beneficiation COPY TO _____
results for average Grum ores.

This is in reply to your request for a revised forecast for Grum metallurgy on the basis of best current knowledge and results. The test-work planned in our meeting of January 24 is in progress but results are not sufficiently complete for any type of ore to be assembled into a report. Therefore this revision has to be on rather general observations and assumption which are outlined below. The margin of error could be quite high.

I.D.B. ✓
 A.H.C. ✓
~~S.O.~~
 W.J.
 D.A.L.
 S.P.
 M.D.R.
 J.B.S.
 FILE

My revised forecast is:

	Analyses oz/t, %, ppm				Recoveries %		
	Ag	Pb	Zn	Hg	Ag	Pb	Zn
Mill Feed	2	4	9	80			
Pb Conc	20-25	<u>55-65</u>	6-10	100	67	80	
Zn Conc		<u>1-3</u>	<u>53-58</u>	500			85
Tailings		.3-1	.7-1.5				

It may be pointed out that no "conservative" reserve has been allowed for. It should not be expected that forecasts will automatically be revised upwards as investigations proceed. Future results might well force us to make downward adjustments.

157-1300

The assessment of Grum metallurgy is based on the following consideration:

The re-classification of Grum ore reserves which was undertaken in late 1976 and January 1977 led to two important conclusions:

1. The extremely fine grained and oxidized B-type ores make up less than 10 percent of the deposit. This was a very positive finding, since most B-type ores are hardly amenable to treatment by current mineral dressing techniques.
2. The bulk of the ore body shows coarser mineralization with little oxidation. This also was a very positive finding, but it should not be overlooked that the 90 percent bulk is not at all a homogeneous mass. There is an unusual wide variety of ore types. Some of the ores gave excellent results in preliminary testing (see memo of December 30, 1976), but in general there remain many metallurgical problems to be solved. One comes to the same conclusion upon evaluation of a recent report by the Anvil concentrator laboratory. Five Grum samples, not including oxidized "B", were tested there.

Type C and H ores have been tested in the Mattagami Laboratory in March. Results similar to those quoted above have been obtained with both, details will be reported upon completion of work with each type.

R. Ken.