

006569

INTER OFFICE MEMORANDUM

To: K.A. Forgaard

April 1st, 1987

From: R.D. Bourke

Subject: GRUM-VAN GORDA long range plans

To firm up the forecast data we have to get reasonably representative samples of the different ore types. Ideally we should get from 100 lb. to 500 lb. samples.

Work required is to:

- 1) establish optimum particle size
- 2) conduct rougher flotation tests
- 3) conduct cleaner flotation tests
- 4) establish flotation parameters
- 5) establish reagent consumptions

From literature available we feel that the Grum deposit has been quite well defined. Close to surface ore is oxidized and very finely disseminated which will cause us several problems. The underground drilled ore seems to have been treated with good results. I personally would feel more comfortable once we have physically handled the ore and conducted our own tests.

The Van Gorda ore really hasn't had much test work done on it. It also appears that more definition drilling should be done and we could use  $\frac{1}{2}$  drill core for metallurgical test work.

The basic questions to be answered are:

How will the 4A ore respond?

What effect will the barite ore have?

Fineness of grind required?

Can these ores be blended or do we have to provide for  
campaign treatment?

How much of the ore is oxidized?

To answer the above, when will ore be available from both  
deposits? I think that it will take us from 3 to 6 months to  
conclude our testwork. This is on a rush basis!

Priorities:

- 1) Get samples from Van Gorda deposit as soon as possible.  
(summer 1987)
- 2) Get samples from Grum deposit. (summer 1988)
- 3) Send out for microscopic examinations.
  - (a) basic ore types. (when available)
  - (b) concentrate products - on conclusion of testwork.
  - (c) tailings - on conclusion of testwork
- 4) Document the test work,
- 5) List the flotation parameters.
- 6) List the reagent consumption and cost same.
- 7) Re-establish the environmental monitoring program to establish  
background levels. (summer 1987)

This is a quick and dirty overview of the work to be done on  
Van Gorda and Grum ore. Does cover the basics.