

To L. P. Taggart

From J. C. Devitt

Subject FIVE YEAR PLAN - PRODUCTION STATISTICS

Date September 5, 1975

Feed Grade %:

	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>
Pb	3.8	4.1	3.9	3.7
Zn	<u>5.6</u>	<u>5.3</u>	<u>5.5</u>	<u>5.6</u>
Pb + Zn	9.4	9.4	9.4	9.3

Bank Cubic Yards Moved (000's):

Waste and Low Grade	12,529	12,529	12,529	12,564
Ore	<u>1,043</u>	<u>1,043</u>	<u>1,043</u>	<u>1,046</u>
Total	13,572	13,572	13,572	13,610

Tons Milled (000's):

	3,650	3,650	3,650	3,660
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Quantities are based on the recently reworked five year plan by D. Bohach and D. Gregoire. Inventories were compiled by bench, phase and time period (by quarters in 1976, by years thereafter), as were maps showing status at the end of these time periods, and progress during those periods.

Mill feed grades were calculated by D. Hanson utilizing tonnage blocks within the above plan. Grades were adjusted from the original diamond drill core assays using the following criteria:

- 1) maximum of 7.5% Zn per tonnage block
- 2) maximum of 6.8% Pb per tonnage block
- 3) increase Pb/Zn ratio to 0.5 for pre-1972 tonnage blocks occurring in geologic sub-zone C (year 1976 only)
- 4) increase Pb/Zn ratio to within the range 0.75-1.0 for pre-1972 blocks occurring in geologic sub-zone A (year 1976 only)

- 5) overall reduction of 0.2% Zn per year (years 1977-80 only)
- 6) overall increase of 0.3% Pb per year (years 1977-80 only)

All pre-1972 diamond drill core influencing year 1976 was re-assayed to attempt more accurate grade determination for that year. Evaluation of results of these re-assays showed that severe oxidation had occurred in a large number of the samples, rendering the results invalid. Pb content, especially, was shown to decrease from the original assays. Without knowing the extent of oxidation, it was impossible to correlate the re-assays to the hoped for correct value of the original unoxidized sample. These re-assays were accordingly not used in this grade adjustment.

However, ore projections on Section No. 115 have been developed using strictly results of post-1972 diamond drilling, and thereby, reliable assays. This section shows a distinct delineation of geologic sub-zones A and C and their respective varying Pb/Zn ratios. The use of this delineation and historical records of blast hole assays allowed the projection of Pb and Zn grades for the coming year with substantially more accuracy than has been possible in the past.

Due to lack of detailed projection criteria for years 1977-80, grades for these were adjusted based on statistical and historical grade limitations and reductions.



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