

002856

To

J. C. Devitt

Date

February 18, 1975

From

D. J. Hanson

Subject

PREDICTED VS. MINED ORE  
JANUARY - DECEMBER 19741) Predicted:

An estimate was made of the tonnage and grade expected from the rock volume mined during 1974. This was derived from the December 1973 tonnage and grade model and the surveyed banks.

2) Mined:

An estimate was made of the tonnage and grade actually mined during 1974. The tonnage was estimated from surveyed banks and actual ore/waste contacts. Grade mined was obtained from the metallurgical balance for year-to-date December 31, 1974 and assumed reasonable grades for stockpile material.

3) Results:

	<u>Tons</u>	<u>Pb</u>	<u>Zn</u>	<u>Pb + Zn</u>	<u>Pb/Zn</u>
a) Predicted	2,126,721	4.3	6.1	10.4	.70
b) Mined	2,463,129	4.6	5.7	10.3	.81
Variance	+ 336,408	+0.3	-0.4	-0.1	+0.09

4) Discussion:

- a) During 1974 we experienced a net gain of 16% in tonnage mined vs. predicted. Significant gains were made at the southern contacts on the 3870 and 3830 benches. Losses totalling 7% of the predicted tonnage were recorded at the eastern contact on the 3910 bench and at the southern contact on the 3790 bench.
- b) As observed in previous comparisons, the zinc grade was over-estimated and the lead grade was under-estimated in 1974.

5) Predicted Grade Adjustments:

The predicted grades were adjusted according to the following criteria now used for short term planning:

- a) Maximum of 7.5% Zn per tonnage block
- b) Maximum of 6.8% Pb per tonnage block
- c) Increase Pb/Zn ratio to 0.5 for pre-1972 blocks occurring in sub-zone C.
- d) Increase Pb/Zn ratio to within the range 0.75-1.0 for pre-1972 tonnage blocks occurring in sub-zone A.

*no change  
in Zn*

	<u>Tons</u>	<u>Pb</u>	<u>Zn</u>	<u>Pb + Zn</u>	<u>Pb/Zn</u>
Predicted	2,126,721	4.7	5.8	10.5	.81
Mined	2,463,129	4.6	5.7	10.3	.81
Variance	+ 336,408	-0.1	-0.1	-0.2	0.0

*Danyl.*

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Mine Geologist

DJH/mm