

MEMORANDUM

002864

TO: W. Krats FROM: P. M. Pettigrew
 SUBJECT: GRADE OF ORE MINED VS. PREDICTED DATE: June 25, 1973
 JANUARY - MAY, 1973

1. Predicted:

An estimate was made of the tonnage and grade of ore expected in the rock volume mined during January to May, 1973. This was derived from the tonnage and grade estimate as at January 1, 1973. Benches 4030 - 3870 were depleted to varying extents and a revised figure for a June 1, 1973 ore reserve estimate is available.

2. Mined:

Using the milled tonnage and grade for the period (as reported in the metallurgical balance for year-to-date May 31st., 1973), the truck-counted tonnage and estimated (from 25/10/72 rotary drilling) grade of the low grade stockpiles, an estimate was made of the tonnage and grade actually mined as ore in this period. An estimate was also made of the tonnage (truck-counted) and grade (based on a Pb/Zn of 0.77 and 11% combined grade) of the high grade stockpile. This was included in the "mined" figures.

Below are the results:

	<u>Tonnage</u>	<u>Pb</u>	<u>Zn</u>	<u>Combined</u>	<u>Pb/Zn</u>
1. Predicted	1,333,247	3.4	6.2	9.6	0.55
2(a) Mill-reported	1,232,866	4.6	6.1	10.7	0.75
(b) High Grade SP	1,874	4.6	6.0	10.6	0.77
(c) Low Grade SP/red	3,021	3.4	5.8	9.2	0.59
(d) Low Grade SP/yellow	96,550	2.7	4.5	7.2	0.60
Mined	1,334,311	4.5	6.0	10.5	0.75

As has been observed frequently in the past two years, the Zn grade predicted for the volume mined was overestimated and the Pb grade underestimated.

No gain was experienced in tonnage extracted vs expected. Whether this will become a trend or not remains to be seen.

3. Zn Correction:

Since Zn overestimations are more deleterious than Pb underestimations, the former have been examined and for the present a maximum of 7.5% is being used as the maximum allowable Zn grade per DDH-influenced tonnage block. Using the cut-off value, the predicted figures are now as follows:

	<u>Tonnage</u>	<u>Pb</u>	<u>Zn</u>	<u>Combined</u>	<u>Pb/Zn</u>
3. Revision of predicted based on 7.5% Zn cut-off	1,338,247	3.4	6.0	9.4	0.57

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