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MEMORANDUM

TO: M. O. Hampton  
J. W. Mossop (see 11 B)  
J. McLachlan  
P. Pettigrew  
N. Stephenson

FROM: J. Gondi

DATE: September 30, 1970

SUBJECT: PROCEDURES FOR ORE CONTROL AND TONNAGE, GRADE PREDICTIONS

Please find enclosed tentative procedures for ore control and tonnage, Grade predictions. We would invite your comments and suggestions. A manual is being prepared and shall be ready by the second week of October consolidating all the results of experimental period.



J. Gondi  
Senior Geologist

JG/mm

Enc.

APPROVED BY ONE AND  
~~ALL~~

Sept 29, 1970

TENTATIVE PROCEDURES FOR ORE GRADE

CONTROL AND TONNAGE ESTIMATES

1. SURVEYORS RESPONSIBILITIES:

- (a) To locate, sample and record the ore blast holes and waste holes on Survey Sheets on scales of ~~1" to 50'~~ and 1" to 100'.
- (b) Establish ore control points on ore benches under the direction of the Geologist.
- (c) Survey and plot the crests of ore benches at least once a week.

11. GEOLOGY DEPARTMENT'S RESPONSIBILITIES:

- (a) Estimate the tonnages and grades of Sulphides of each blast.
- (b) Predetermine the ore blending for a consistent supply of 12% combined lead and zinc to the mill. (max. 7% Zn)
- (c) Discuss with Mine Superintendent/Foreman at the beginning of each shift to determine shovel/front end loader locations and of their variations, truck load ratios of high and low grade ore. *Record in book.*
- (d) Plot the area mined out at the end of shift and determine the tonnages and grades of ore broken and left in place.
- (e) Predict the percentages of Gangue inherent with ore, internal and external waste. Break down into mineral assemblages and rock assemblages.
- (f) Forward copies of grade prediction sheets to Mill Superintendent, Mine Superintendent, and Chief Engineer. ?
- (g) Compare with actual grades milled and establish a variation factor, if possible, and if a good coincidence occurs between the actual ore shipped and milled. ?

III. MINE DEPARTMENT'S RESPONSIBILITIES:

- (a) Discuss with the Geologist at the beginning of each shift to determine shovel/front end loader locations and of their variations, truck load ratios of high and low grade ore.
- (b) If any variations to the above were made, indicate on the 1" to 50' scale map supplied, however, keeping the supply of ore at a consistent 12% grade of combined lead and zinc. ?
- (c) Plot the area mined out at the end of each shift in absence of Geologist on the 1" to 50' scale map supplied. ?
- (d) The high grade stock pile located near the Crusher should keep consistent with 12% combined lead and zinc and under no circumstances should it be allowed for dilution.
- (e) The minimum limit on low grade stock pile is 5% combined lead and zinc.

IV. MINE PLANNING ENGINEERS RESPONSIBILITIES:

- (a) Supply the Mining Schedule of each bench monthly/yearly to ore control ~~Engineer~~ *geologist*.
- (b) Inform the Geologist of the tonnage of ore mined from each bench in each shift/day. *Geologist from Mine Clerk*
- (c) Supply the tonnage of ore shipped to low grade stock pile/ high grade stock pile in each shift/day to Geologist. *Geologist from Mine Clerk*
- (d) Co-ordinate with Geologist in ore Mining Schedule in order to supply consistent 12% combined lead and zinc ore to the mill.

ANVIL MINING CORPORATION LIMITED

DAILY STOCKPILE REPORT

Date: \_\_\_\_\_ 19 \_\_\_\_\_

Bench No: \_\_\_\_\_

Date of Blast: \_\_\_\_\_

Blast No: \_\_\_\_\_

	<u>Predicted Grades</u>			
	<u>Tons</u>	<u>% Pb</u>	<u>% Zn</u>	<u>% Fe</u>
High Grade Stockpile	_____	_____	_____	_____
Low Grade Stockpile	_____	_____	_____	_____

PREDICTED MINERAL AND ROCK ASSEMBLAGES

	<u>HIGH GRADE STOCKPILE</u>	<u>LOW GRADE STOCKPILE</u>
Pyrites	_____	_____
Pyrrhotite	_____	_____
Quartz	_____	_____
Phyllite	_____	_____
Quartz Mica Schist	_____	_____
Graphitic Schist	_____	_____

REMARKS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Geologist: \_\_\_\_\_