

ANVIL MINING CORPORATION LIMITED

MEMORANDUM

001536

TO: J. G. Simpson, D. Bohach FROM: P. F. Lewis
SUBJECT: PRACTICAL APPLICATIONS OF PIT MAPPING DATE: August 8, 1974

(1) Economic Potential - NW Wall

Detailed geological cross-sections, showing the effect of the complex folding on the ore horizon, can be drawn. These would be sections 100 to 110 inclusive. Coupled with DDH data and a projected steeper (53-) pit wall, these sections would enable ore tonnage and waste tonnage to be calculated.

The sections would include the sulphide facies encountered, i.e. pyrrhotite vs pyritic.

(2) Economic Potential - NE Wall

Similar geological and structural sections, 105 to 114, can be drawn for the NE wall.

(3) Slope Stability - NE Wall

The above sections would include data on major EW trending, steep southerly dipping, slip planes, active and, at present, inactive.

(4) Pyrrhotite Distribution

The pyrrhotite ore facies has been mapped in the pit - which may aid in instructing the mill on the type of ore to be received (see following note).

(5) Deep Exploration Targets in Immediate Vicinity of Pit

*Detailed structural mapping has indicated possibilities for further deposits in the vicinity of the pit.

(6) Structural Cross-Sections Through Deposit

Sections showing folding and faulting may be useful in conjunction with ore cross-sections in pit and mining planning.

(7) Public Relations

i) Six tours of approximately $\frac{1}{2}$ day duration have been conducted for visiting government, industrial and university big-wigs.

ii) Cross-sections and geological maps (1971 and 1974) could be used to construct a 3-D model of the deposit for public relations use.

Note: Re pyrrhotite distribution. Re-logging of exploration holes would enable the pyrrhotite distribution over the whole deposit to be evaluated and depicted on sections, as is the massive pyrite at present.

P. F. Lewis

PFL/mm

cc. D. Hanson