

PAUL
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M E M O R A N D U M

To: R. L. Haffner

From: J. F. Olk

Date: July 13, 1982

Subject: Engineering Department - Immediate Objectives and Priorities

In order to correct some serious deficiencies in the present status of the mine planning, N. G. Cornish and myself have outlined a program of objectives and priorities for the Engineering Department. This program is aimed at completing the immediately necessary planning, as well as prepare for future work.

The program, the work that must be completed, and a schedule of completion dates, are:

1. Engineering Staff.

The procurement of a Chief Mining Engineer and either an Assistant or Senior Engineer must be given top priority. Completion of this program is dependent upon an adequate staff, so these people should be hired as soon as possible. *Acquired Sept 1/82*

2. 1973 Mining Plan.

a.) The basic layout and ore and waste estimates are complete. Some minor revisions in the layout still need to be done. Completion date - End of week of July 10th - 15th. *Mid Sept completed*

b.) A month-by-month schedule of ore tonnages, grades, and waste removals, as well as the bench locations for mining, must be prepared. Completion date - End of week of July 17th - 22nd. *By Quarter No. maps prepared in detail*

3. Ultimate Pit Plan.

a.) The basic level plans on a scale of 1" = 200', which incorporate both the 1 and 3 ore zones are almost complete. These plans will be the planning vehicle for the ultimate pit, as well as other long range planning. *(this has not been definitely concluded)*

b.) The ultimate pit should then be laid out, access worked out, and the ore and waste estimated. The No. 2 ore zone final pit should also be planned and estimated. Completion date - End of July.

4. Incremental Long Range Plans.

After completion of ultimate pit, incremental plans should be developed. The increments should be each five years for the ten year period after 1973, and then at two year intervals for the following six years, which is the anticipated life of the present ore reserve. The objective in this planning should be to rationalize the waste stripping throughout the life of the mine. This data is necessary backup for the proposed AFE for large mining equipment. Completion date - Mid-September.

5. Waste Disposal Planning.

At the same time as the mine planning is being done, plans for waste disposal must also be done. The object of this planning is to both insure adequate dump room as well as plan for the most efficient and economical haulage from the pit. Completion date - Concurrent with 3 and 4 above.

6. Ore Comparison.

a.) The present study of the lead/zinc ratio should be completed. The first six months of 1972 showed a higher lead/zinc ratio than average, and the possible reasons for this are being investigated.

b.) At the same time, the first half of 1973, according to ore block grades, shows a lower lead/zinc ratio than average. This should be thoroughly checked to see if it is realistic, and whether any adjustments based on the findings of a.) are applicable.

c.) The regular six months ore comparison study should be done, and adjustment factors developed based on these results. Completion date - End of August.

Completion of the above program should bring the
Engineering Department work up to present requirements.



J. F. Olk
Assistant to Vice President

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cc: N. G. Cornish