

TO: J. W. McElroy

FROM: M. O. Hampton

000929

DATE: October 1, 1970

SUBJECT: PROJECTED MINING

The following are estimated annual volumes to be extracted over life of the mine based on the known ore reserves, planned mill production, and present ultimate pit plan.

	<u>L. G. Ore & Waste (cu. yds.)</u>	<u>Ore (cu. yds.)</u>	<u>Total</u>
1971	6,620,000	751,000	7,271,000
1972, 73	5,500,000	751,000	6,351,000

	<u>Waste (cu. yds.)</u>	<u>Ore (cu. yds.)</u>	<u>Total</u>
1974 - 1987	<u>6,700,000</u>	1,035,000 (pit)	7,735,000
		100,000 (stk. pile)	100,000
1988	- 0 -	1,135,000	1,135,000

M. O. Hampton
Chief Engineer

cc. N. G. Cornish
R. L. Cook
J. F. Olk

TO: J. W. Mossop
 FROM: M. O. Hampton
 DATE: October 1, 1970
 SUBJECT: ORE PROJECTIONS
 September 28, 1970

The following estimates of tonnages and grades to be mined in the next 18 years are based on all data available at the present. All known ore is taken into account, and a mill expansion from 6600 TPD to 9900 TPD considered for 1974.

Box 1787, Whitehorse, Y.T.
 Faro No. 1 and No. 3 calculations were made by planimetering the areas of the geological projections of the orebody on each bench level plan. A factor of 8.5 cubic feet per ton was used, this is the same factor that has been used on all previous tonnage calculations. A pit has been designed to mine all of the ore from No. 1 and No. 3. The tonnage and grade of Faro No. 2 was taken from E. N. Pennebaker's calculations as no further pit designing or drilling has been done.

The tonnage and grade of ore mined to date has been taken into consideration.

1971, 72, 73 inc.	2,400,000 TPY @ 12.0% comb Zn and Pb	7,200,000
1974 - Oct. 1986 inc.	3,600,000 TPY @ 9.0% comb. Zn and Pb	54,000,000
Oct. 1986 - 1988 inc.	3,600,000 TPY @ 7.9% comb. Zn and Pb	
M. O. Hampton Chief Engineer		11,200,000

MCH/mt

Respectfully submitted,

M. O. Hampton

M. O. Hampton, B.A.Sc., P. Eng.
 M.C.I.N., M.A.L.N.E., M.N.A.C.E.

MCH/mm

- cc. N. G. Cornish
- R. L. Cook
- J. F. Olk



J. M^eL

MEMORANDUM

TO: J. W. Mossop
FROM: M. O. Hampton
DATE: September 11, 1970
SUBJECT: STRIPPING RATIOS

An ultimate pit plan has been completed by Jim McLachlan which mines virtually all of the known reserves of Faro No. 1 and 3 zones.

TOTAL VOLUME OF WASTE 119,000,000 cu. yds.
TOTAL ORE 58,300,000 tons

STRIPPING RATIOS (waste/ore)

$\frac{119}{58.3}$ $\frac{cu. yd.}{ton}$ = 2.1/1

x 2.15 = 4.5/1 ton/ton

$\frac{119}{18.4}$ = 6.5/1 cu. yd. / cu. yd.

Handwritten calculation:
 $\frac{3.1}{2.15} = \frac{6.5}{20}$

M. O. Hampton
Chief Engineer

MOH/mm
cc. N. G. Cornish
R. L. Cook