

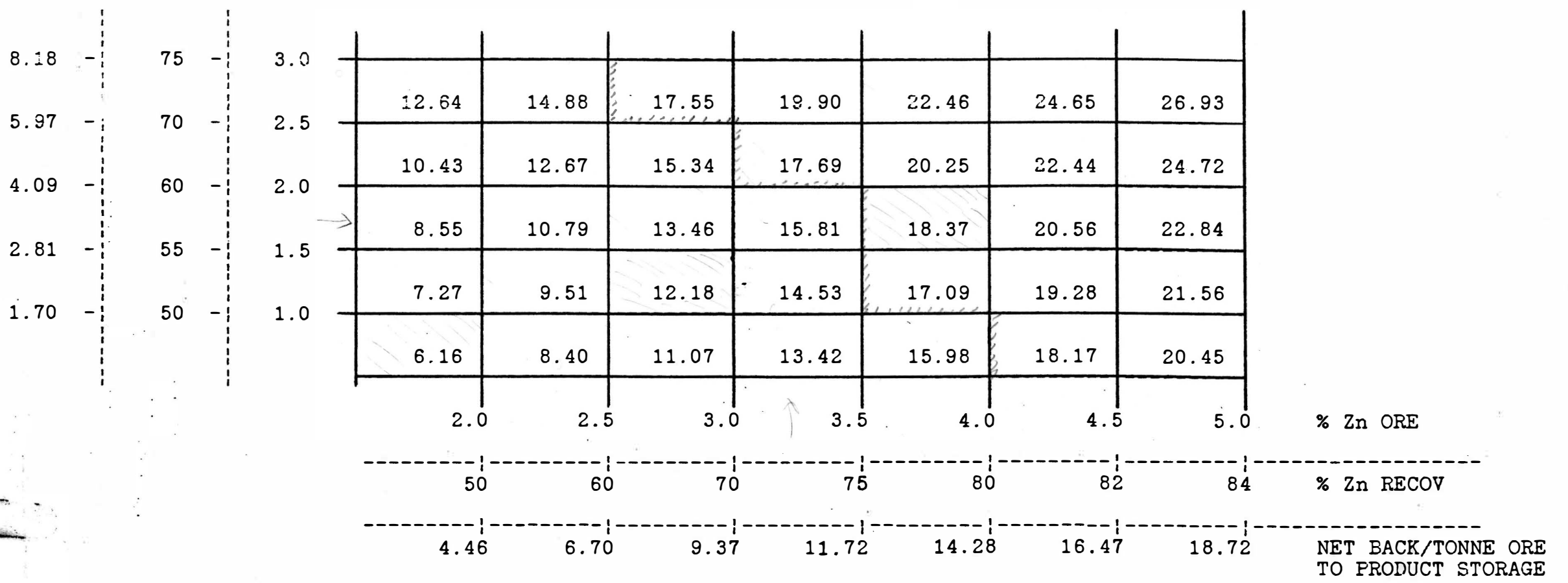
FARO 10514/6221
007792

NET BACK/TONNE ORE
TO PRODUCT STORAGE

mill 7
min 7 incl strip
handl 1
G&A 2

3.5
2.5
6.0

NET BACK



Distribution/Ärende			
Calculation of metal value factors			
Grade composition at 5% combined Pb and Zn			
→ interpolated from budget grades 1987			
Ore type	% Pb	% Zn	Ag g/ton
Z B G	2.40	3.00	25
Z H	2.25	2.75	46
Z A	1.85	3.15	37
Metal recoveries at these grades interpolated from recoveries in budget 1987, in %			
Ore type	Pb	Zn	Ag
Z B G	69.9	74.9	49.1
Z H	69.5	71.7	47.9
Z A	61.6	71.7	41.5
Assumed metal prizes:			
Pb	USD 440:-/ton	= ~	0.20 / lb
Zn	USD 900:-/ton	= ~	0.41 / lb
Ag	USD = 0.18/g	= ~	5.75 / oz

Utfärdare

Distribution/Ärende

Metallurgisk balans

	Total kg	Pb kg	Zn kg	Ag g	Pb %	Grade Zn %	Ag g/t
2 B G							
Förd	1000	20	30	25	2	3	25
Pb-conc	22.54	13.98		12.27	62		544
Zn-conc	44.06		22.47			51	
2 H							
Förd	1000	22.5	27.5	46	2.25	2.75	46
Pb-conc	26.05	15.63		22.03	60		846
Zn-conc	39.42		19.71			50	
2 A							
Förd	1000	18.5	31.5	37	1.85	3.15	37
Pb-conc	28.50	11.40		15.35	40		538
Zn-conc	45.16		22.58			50	

2 BG

$$\text{Pb payable } 0.95 \times \frac{62}{100} \times 440 = 259$$

$$\text{Treatment charge} \quad - 120$$

$$\text{Conc. transport} \quad - 55$$

$$\text{Net value per ton of conc.} \quad \underline{84}$$

$$\text{Net value per ton of ore} \quad 1.89$$

$$\text{Value per \% unit Pb (factor)} \quad 0.95$$

$$\text{Ag payable } 554 - 32 \times 0.18 = 94$$

$$\text{Net value per ton of ore} \quad 2.12$$

$$\text{Value per unit g/ton Ag (factor)} \quad 0.085$$

$$\text{Zn payable } \frac{51-8}{100} \times 900 = 387$$

$$\text{Treatment charge} \quad - 155$$

$$\text{Conc. transport} \quad - 55$$

$$\text{Net value per ton of conc.} \quad \underline{177}$$

$$\text{Net value per ton of ore} \quad 7.80$$

$$\text{Value per \% unit Zn (factor)} \quad 2.60$$

2H

$$\text{Pb payable } \frac{60-3}{100} \times 440 = 251$$

$$\text{Treatment charge} \quad - 120$$

$$\text{Conc transport} \quad - 55$$

$$\text{Net value per ton of conc.} \quad \underline{76}$$

$$\text{Net value per ton of ore} \quad 1.98$$

$$\text{Value per \% unit Pb (factor)} \quad 0.88$$

$$\text{Ag payable } 0.95 \times 846 \times 0.18 = 145$$

$$\text{Net value per ton of ore} \quad 3.78$$

$$\text{Value per unit g/ton Ag (factor)} \quad 0.082$$

$$\text{Zn payable } \frac{50-8}{100} \times 900 = 378$$

$$\text{Treatment charge} \quad - 155$$

$$\text{Conc transport} \quad - 55$$

$$\text{Net value per ton of conc.} \quad \underline{168}$$

$$\text{Net value per ton of ore} \quad 6.62$$

$$\text{Value per \% unit Zn (factor)} \quad 2.41$$

2 A

$$\text{Pb payable } \frac{40-3}{100} \times 440 = 163$$

$$\text{Treatment charge} \quad - 120$$

$$\text{Conc transport} \quad - 55$$

$$\text{Net value per ton of conc} \quad - 12$$

$$\text{Net value per ton of ore} \quad - 0.34$$

$$\text{Value per \% unit Pb (factor)} \quad - 0.18$$

$$\text{Ag payable } 538 - 32 \times 0.18 = 91$$

$$\text{Net value per ton of ore} \quad 2.60$$

$$\text{Value per unit g/ton Ag (factor)} \quad 0.07$$

$$\text{Net value per ton of Zn-conc} \quad 168$$

(as for 24)

$$\text{Net value per ton of ore} \quad 7.59$$

$$\text{Value per \% unit Zn (factor)} \quad 2.41$$

Summary of metal value factors in USD/ton ore

Ore type	Pb - factor	Zn - factor	Ag - factor
2 B9	0.95	2.60	0.085
2 H	0.88	2.41	0.082
2 A	-0.18	2.41	0.070

Ore value per ton is $\% \text{ Pb} \times f + \% \text{ Zn} \times f + \text{Ag g/ton} \times f$

5% combined Pb + Zn with the used grade distribution corresponds to following overvalues, USD

2 B9	11:82
2 H	12:38
2 A	9:85

Thus, for these factors a cut off value of USD 12:- seems to be adequate