

Grum Yearly Schedule Trial II

cut-off = 4.5 % Pb + Zn

018329

@ 4660 Tonnes/Day, ore. : diluted grades

YEAR	1	2	3	4	5	6	7	8	9
waste (000's m ³)	4,300	4,300	4,300	4,300	4,300	4,300	4,300	4,300	0
ore (000's MT)	1,701	1,701	1,701	1,701	1,701	1,701	1,701	1,701	1,071
% Pb	3.97	3.04	3.05	3.21	3.13 3.32	2.82 3.13	2.82	2.75	2.94
% Zn	6.46	5.06	4.99	5.25	4.96 5.40	4.62 4.96	4.62	4.51	4.78
Ag (g/MT)	59.3	46.7	46 46.4	48.8	47.9 50.9	43.9 47.9	43.9	43.8	47.4

1) dilution factors

Pb = -6 %

Zn = -6 %

Ag = -6 %

2) 12,000,000 m³ pre-prod.

3) totals:

14,679,000 tonnes.

3.14 % Pb

5.13 % Zn

48.4 g/MT Ag

Table V

GRUM PHASE SUMMARY

TRIAL II

- from mine model

cut-off = 4.5 % Pb+Zn

- no pre-prod
- undiluted grades.

Phase #	ST file	SB file	Ore Tonnes (000's)	Waste m ³ (000's)	S.R.	%Pb	%Zn	Ag $\frac{g}{MT}$
1	GMTOP	GMP06	1,660	6,827	14.0	4.24	6.91	63.39
2	GMP06	GMP07	953	2,695	9.2	3.23	5.46	50.15
3	GMP07	GMP08	1,955	5,272	8.6	3.22	5.28	49.15
4	GMP08	GMP09	1,559	5,655	11.7	3.31	5.39	50.00
5	GMP09	GMP10	1,793	4,575	8.4	3.55	5.90	54.79
6	GMP10	GMP11	1,694	5,514	11.1	3.50	5.47	53.24
7	GMP11	GMP12	1,991	5,460	8.7	3.02	4.93	46.76
8	GMP12	GMP13	1,009	3,898	12.4	2.93	4.80	46.61
			2,018	7,796				
			1,009	3,898				
9	GMP13	GMP15	1,056	2,565	8.2	3.13	5.09	50.46
total	GMTOP	GMP15	14,679	46,359	10.3	3.34	5.46	51.50

* pit designed @ \approx this cut-off.

~~Table I~~ Table II

Grum Yearly Schedule.

Trial II.

cut-off = 4.5 % Pb + Zn

@ 4660 Tonnes/Day, ore.

undiluted grades.

YEAR	1	2	3	4	5	6	7	8	9
waste (000's m ³)	4,300	4,300	4,300	4,300	4,300	4,300	4,300	4,300	0
ore (000's MT)	1,701	1,701	1,701	1,701	1,701	1,701	1,701	1,701	1,071
%Pb	4.22	3.23	3.25	3.41	3.53	3.33	3.00	2.93	3.13
%Zn	6.87	5.38	5.31	5.59	5.75	5.28	4.91	4.80	5.09
Ag ($\frac{g}{MT}$)	63.1	49.7	49.4	51.9	54.2	50.98 ^{51.0}	46.7	46.6	50.4

Total: 14,679,000
3.34 % Pb
5.46 % Zn
51.49 g/MT Ag.

- 12,000,000 m³ pre-prod. stripping
= 34,359,000 m³ waste stripping to be done in 8 years
= 4,300,000 /year.

Grum Yearly Feed Grades.

4.5% Pb+Zn cut-off

Year I.

P.

1	1660	4.24	6.91	63.39
2	41	3.23	5.46	50.15
	<u>1701</u>	4.22	6.87	63.07

Year 2.

2	912	3.23	5.46	50.15
3	789	3.22	5.28	49.15
	<u>1,701</u>	3.23	5.38	49.69

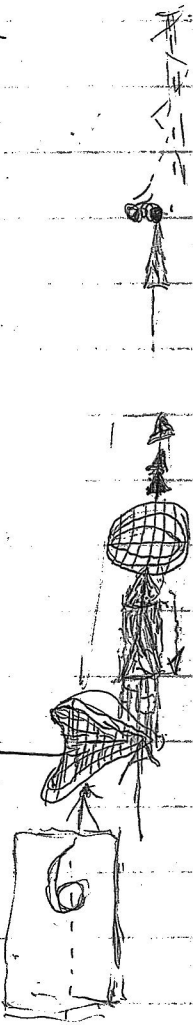
Year 3

3	1166	3.22	5.28	49.15
4	535	3.31	5.39	50.00
	<u>1701</u>	3.25	5.31	49.42

Year 4

4	1024	3.31	5.39	50.00
5	677	3.55	5.90	54.79
	<u>1701</u>	3.41	5.59	51.91

4741



Year 5
Phase.

5	1116	3.55	5.90	59.79
6	585	3.50	5.47	53.24
	<hr/> 1701	3.53	5.75	54.26

Year 6
Phase.

6	1109	3.50	5.47	53.24
7	592	3.02	4.93	46.76
	<hr/> 1701	3.33	5.28	50.98

Year 7
Phase.

7	1399	3.02	4.93	46.76
8	302	2.93	4.80	46.61
	<hr/> 1701	3.00	4.91	46.73

Year 8
Phase.

8	1701	2.93	4.80	46.61
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Year 9.

8	15	2.93	4.80	46.61
9	1054	3.13	5.09	50.46
	<hr/> 1071	3.13	5.09	50.41